APP# 43807

*FW spoke w/SN 9.26.19

Columbia County New Building Permit Application 43807 FW LLC

For Office Use Only Application # 1909-68 Date Received 9/20/19 By LH Permit # 39128

Zoning Official DW Date 10-15-19 Flood Zone X Land Use HI Zoning CHI

FEMA Map # Elevation MFE River Plans Examiner Date

Comments

NOC Deed or PA Site Plan State Road Info Well letter 911 Sheet 9.26.19 Parent Parcel #

Dev Permit # In Floodway Letter of Auth. from Contractor F W Comp. letter

Owner Builder Disclosure Statement Land Owner Affidavit Ellisville Water App Fee Paid Sub VF Form

CITY SEWER LETTER & CITY WATER LETTER

Applicant (Who will sign/pickup the permit) Michael Wasserman Phone 865-755-6164

Address PO Box 32646 Knoxville TN 37930-2646

Owners Name Kaveps Lake City, LLC/ Bradley Spevak Phone 904-398-9897

911 Address 177 NW Knights Avenue Lake City, FL 32055

Contractors Name Michael Wasserman Phone 865-249-7112

Address PO Box 32646 Knoxville TN 37930-2646

Contractor Email wcc@wassermanconstruction.com Include to get updates on this job.

Fee Simple Owner Name & Address Kaveps Lake City, LLC - 11614 Monica Street Houston, TX 77024

Bonding Co. Name & Address

Architect/Engineer Name & Address BDG Architects - 400 N. Ashley Drive, 6th Floor Tampa, FL 33602

Mortgage Lenders Name & Address

Circle the correct power company ✓ FL Power & Light Clay Elec. Suwannee Valley Elec. Duke Energy

Property ID Number 35-3S-16-02545-101 Estimated Construction Cost $750,000.00

Subdivision Name Corner of Commerce BLVD Lot 1 Block Unit Phase

Driving Directions from a Major Road Head south on NW Knights Avenue to US Highway 90

90-W to Knights, TR To Site.

Construction of 7,908 sf Texas Roadhouse Restaurant X Commercial OR Residential

Proposed Use/Occupancy Full service sit down restaurant Number of Existing Dwellings on Property Ø

Is the Building Fire Sprinkled? Yes If Yes, blueprints included Yes Or Explain Deferred submittal

Circle Proposed Culvert Permit or Culvert Waiver or D.O.T. Permit or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 20 Side 15 Side 15 Rear 0

Number of Stories 1 Heated Floor Area 7,908 Total Floor Area 7,908 Acreage 1.995

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) Site Development Plan (approved) SDP 19 09

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: ***YOU ARE HEREBY NOTIFIED*** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

See Attached Sheet _____

Print Owners Name **Owners Signature**

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

_____

Contractor's Signature

Contractor's License Number CGC 42128

Columbia County Competency Card Number 2261

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 8 **day of** January **20**20.

Personally known _____ **or Produced Identification** Tennessee DL

_____

State of Florida Notary Signature (For the Contractor)

SEAL:

LAURIE HODSON
MY COMMISSION # FF 976102
EXPIRES: July 14, 2020
Bonded Thru Notary Public Underwriters

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

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NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: ***YOU ARE HEREBY NOTIFIED*** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

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Emily Bernahl — Emily Bernahl

Print Owners Name — **Owners Signature**

****Property owners must sign here before any permit will be issued.**

Auth. Letter rec'd. from Kayops

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Michael Brett Norton

Contractor's Signature

Contractor's License Number CBC1262233

Columbia County Competency Card Number 2223

Changed 12/5/19

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 18 **day of** September **20** 19.

Personally Known X **or Produced Identification** _____

SEAL:

Colin Cranston NOTARY PUBLIC STATE AT LARGE - KENTUCKY COMMISSION EXPIRES OCTOBER 22, 2020

State of Florida Kentucky **Notary Signature (For the Contractor)**

See Attached Sheet

NOTICE OF COMMENCEMENT

Clerk's Office Stamp

Inst: 202012001111 Date: 01/14/2020 Time: 11:14AM
Page 1 of 1 B: 1403 P: 691, P.DeWitt Cason, Clerk of Court Colu
County, By: KV
Deputy Clerk

Tax Parcel Identification Number:

35-35-16-02545-101

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property *(legal description)*:
   a) Street *(job)* Address: 177 NW KNIGHTS AVE
2. General description of improvements: NEW COMMERCIAL CONSTRUCTION
3. Owner information or Lessee information if the Lessee contracted for the improvements:
   a) Name and address: Texas Roadhouse Holdings LLC 6040 Dutchmans Lane, Louisville, KY 40205
   b) Name and address of fee simple titleholder (if other than owner) NA
   c) Interest in property
4. Contractor Information
   a) Name and address: WASSERMAN CONSTRUCTION COMPANY, LLC PO Box 32640 Knoxville, TN 37930
   b) Telephone No.: 865-249-7112
5. Surety Information (if applicable, a copy of the payment bond is attached):
   a) Name and address: N/A
   b) Amount of Bond:
   c) Telephone No.:
6. Lender
   a) Name and address: N/A
   b) Phone No.
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
   a) Name and address: Steve Hale 177 NW Knights Ave, Lake City, FL 32055
   b) Telephone No.: 386-758-0074
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
   a) Name: Steve Hale OF
   b) Telephone No.: 386-758-0074
9. Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF ~~FLORIDA~~ Kentucky
COUNTY OF ~~COLUMBIA~~ Jefferson

10. Caitlin Kincaid
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Caitlin Kincaid Real Estate Project Manager
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a ~~Florida~~ Kentucky Notary, this 10th day of January, 20 20, by

Caitlin Kincaid (Name of Person) as Manager (Type of Authority) for Texas Roadhouse Holdings LLC (name of party on behalf of whom instrument was executed)

Personally Known X OR Produced Identification ____ Type ____

Notary Signature Brittanie Soto

Notary Stamp or Seal:

Brittanie Soto
My Commission Expires
Notary Public
February 25, 2023
State at Large, Kentucky

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 43807 JOB NAME Texas Roadhouse

RECEIVED JAN 13 2020 BY

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the primary contractors permit.

NOTE: *It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.*
Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work had begun.

Violations will result in stop work orders and/or fines.

ELECTRICAL ☑ CC# 2263	Print Name Daniel J Gwozdak Signature Daniel J Gwozdak Company Name: VALDAN ELECTRIC INC License #: EC 13002670 Phone #: 904-716-3626	
MECHANICAL/ A/C ☐ CC#	Print Name Signature Company Name: License #: Phone #:	
PLUMBING/ GAS ☐ CC#	Print Name Signature Company Name: License #: Phone #:	
ROOFING ☐ CC#	Print Name Signature Company Name: License #: Phone #:	
SHEET METAL ☐ CC#	Print Name Signature Company Name: License #: Phone #:	
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Signature Company Name: License#: Phone #:	
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:	
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:	

Ref: F.S. 440.103; ORD. 2016-30

RECEIVED JAN 10 2020 BY

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 43807 JOB NAME TEXAS ROADHOUSE

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

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			Need
ELECTRICAL ☐ CCC	Print Name DANIEL GWIZDAK Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: VALDAU ELECTRIC, INC		
	License #: EC13002670	Phone #: 904 716 3624	
MECHANICAL/ A/C ☑ CCC 2262	Print Name Eddie Palmateer Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: ACE AIR CONDITIONING INC		
	License #: CAC1813533	Phone #: 386 668-8651	
PLUMBING/ GAS ☐ CCC	Print Name DAVID HUSNANDER Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: DAVE'S PLUMBING, INC		
	License #: CFC051625	Phone #: 772 287-8128	
ROOFING ☐ CCC	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: MASTERS ROOFING, LLC		
	License #:	Phone #: 864 772-3478	
SHEET METAL ☐ CCC	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: MASTERS ROOFING, LLC		
	License #:	Phone #: 864 772-3478	
FIRE SYSTEM/ SPRINKLER ☐ CCC 1775	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: STAR FIRE SPRINKLERS, INC		
	License #: 190494-0001-2010	Phone #: 904 384-1066	
SOLAR ☐ CCC	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
STATE SPECIALTY ☐ CCC	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	

Ref: F.S. 440.103, ORD. 2016-10

SUBCONTRACTOR VERIFICATION

RECEIVED JAN 14 2020 By

APPLICATION/PERMIT # 43807 JOB NAME TEXAS ROADHOUSE

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site, it is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

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Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

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			Need
ELECTRICAL ☐ CC#	Print Name DANIEL GWIZDAK Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☒ DE
	Company Name: VALPAU ELECTRIC, INC		
	License #: EC13002670	Phone #: 904 716-3626	
MECHANICAL/ A/C ☐ CC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: ACE AIR CONDITIONING INC		
	License #: CAC1813533	Phone #: 386 668-8651	
PLUMBING/ GAS ☑ CC# 2264	Print Name DAVID HUSNANDER JR Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: DAVE'S PLUMBING, INC		
	License #: CFC057625	Phone #: 772 287-8128	
ROOFING ☐ CC#	Print Name Signature		☐ Lic ☐ Liab ☒ W/C ☐ EX ☐ DE
	Company Name: MASTERS ROOFING, LLC		
	License #:	Phone #: 864 772-3478	
SHEET METAL ☐ CC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: MASTERS ROOFING, LLC		
	License #:	Phone #: 864 772-3478	
FIRE SYSTEM/ SPRINKLER ☐ CC# 1775	Print Name Signature		☒ Lic ☒ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: STAR FIRE SPRINKLERS, INC		
	License#: 190494-0001-2010	Phone #: 904 384-1066	
SOLAR ☐ CC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
STATE SPECIALTY ☐ CC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	

Ref: F.S. 440.103; ORD. 2016-30

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 43807 JOB NAME Texas Roadhouse

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RECEIVED JAN 14 2020 BY

			Need
ELECTRICAL ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
MECHANICAL/ A/C ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
PLUMBING/ GAS ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
ROOFING ✓ CC# 2265	Print Name Dion Campbell	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: Campbell Quality Homes & Roofing		
	License #: CCC1329425	Phone #: 386 290-9022	
SHEET METAL ✓ CC# 2265	Print Name Dion Campbell	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: Campbell Quality Homes & Roofing		
	License #: CCC1329425	Phone #: 386 290-9022	
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License#:	Phone #:	
SOLAR ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	
STATE SPECIALTY ☐ CC#	Print Name	Signature	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #:	

Ref: F.S. 440.103; ORD. 2016-30

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 43807 JOB NAME "TEXAS ROADHOUSE"

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RECEIVED JAN 13 2020 By JVP

			Need
ELECTRICAL ☐ CCC#	Print Name DANIEL GWIZDAK Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: VALDEZ ELECTRIC, INC		
	License #: EC13002670	Phone #: 904 716-3626	
MECHANICAL/ A/C ☐ CCC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: ACE AIR CONDITIONING INC		
	License #: CAC1813533	Phone #: 386 668-8651	
PLUMBING/ GAS ☐ CCC#	Print Name DAVID HUSMANDER Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: DAVE'S PLUMBING, INC		
	License #: CFC051625	Phone #: 772 287-8128	
ROOFING ☐ CCC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: MASTERS ROOFING, LLC		
	License #:	Phone #: 864 772-3478	
SHEET METAL ☐ CCC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: MASTERS ROOFING, LLC		
	License #:	Phone #: 864 772-3478	
FIRE SYSTEM/ SPRINKLER ☑ CCC# 1775	Print Name Joseph Thomas Signature Joseph Thomas		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name: STAR FIRE SPRINKLERS, INC		
	License #: 1904984 0001-2010	Phone #: 904 384-1066	
SOLAR ☐ CCC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name		
	License #:	Phone #:	
STATE SPECIALTY ☐ CCC#	Print Name Signature		☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
	Company Name:		
	License #:	Phone #	

Ref. F.S. 440.103; ORD. 2016-30

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for fire Alarm Security System

		Need
ELECTRICAL Low Voltage ☑ CC# 2616	Print Name Chris Brancato Signature Company Name: Nationwide Protective Services License #: EF20000809 Phone #: 407-539-2264	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
PLUMBING/ GAS ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SHEET METAL ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Chris Brancato Signature Company Name: Nationwide Protective Services License#: EF20000809 Phone #: 407-539-2264	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:	☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

RECEIVED JAN 16 2020 By

Ref: F.S. 440.103; ORD. 2016-30

Application Agent Authorization Form

TO: Columbia County Zoning Department
135 NE Hernando Avenue
Lake City, FL 32055

Date: July 8, 2019

Re: Agent Authorization for the following site location:
117 NW Knights Avenue, Lake City, FL

Gentlemen:

You are hereby advised that the undersigned is the owner of the property described in Exhibit A attached hereto. Said owner hereby authorizes and empowers Emily Bernahl for BDG Architects, LLP to act as agent in the preparation and submittal of the attached Site Plan Application for Site Development and Building Permit, and as the applicant, on its own behalf, seeking and assuming all liability associated with same.

This Authorization shall not be regarded as a general assignment of agency and is specific to the attached instrument and related documents.

KAVEPS LAKE CITY, L.L.C.,
a Florida limited liability company

By: _____
Name: Bradley Spenk
Title: Manager

STATE OF ~~FLORIDA~~ Texas
COUNTY OF Harris

The foregoing affidavit was sworn and subscribed before me this 8th day of July, 2019 by Bradley Spenk on behalf of said entity, who is personally known to me or has produced Driver's License as identification.

_____
(Notary Signature)

KEVIN GAW
Notary ID # 128912943
My Commission Expires
March 8, 2020

Prepared (without benefit of title insurance)
by and Return to:
Lawrence V. Ansbacher, Esquire
Ansbacher & Schneider, P.A.
5150 Belfort Road, Building 100
Jacksonville, Florida 32256

Inst 201112005214 Date 4/7/2011 Time 10 48 AM
Doc Stamp-Deed.0.00
DC P DeWitt Cason Columbia County Page 1 of 8 B 1212 P 1816

DEED

1. **Grantor's** name and address is:

   BRADLEY SPEVAK, ROBERT BRUCE SPEVAK,
   CHERYL FRIEDLIN AND KAREN SPEVAK
   828 Old Grove Manor
   Jacksonville, FL 32207

2. **Grantee's** name and address is:

   KAVEPS LAKE CITY, L. L. C., A Florida
   Limited Liability Company
   828 Old Grove Manor
   Jacksonville, FL 32207

   Grantee's tax identification number is: _____.

   The terms Grantor and Grantee shall be non-gender specific, singular or plural, as the context permits or requires, and include heirs, personal representatives, successors or assigns where applicable and permitted.

3. The real property ("Property") conveyed hereby is described as follows:

   Property more particularly described on Exhibit A attached, together with all tenements, hereditaments, easements and appurtenances belonging to or benefiting such property.

   The Property Appraiser's Parcel Identification Number is _____.

4. Grantor for good and valuable consideration plus the sum of $10.00 the receipt whereof is hereby acknowledged, hereby grants, bargains, sells and conveys to Grantee the Property to have and to hold in fee simple forever.

5. Grantor fully warrants title to the Property and will defend the same against the lawful claims of all persons whomsoever except for (i) taxes subsequent to December 31, 2010 and (ii) covenants, reservations, restrictions and easements of record, if any, with reference hereto not serving to impose or reimpose the same.

6. Grantor represents and warrants the Property does not constitute nor is adjacent to the homestead or residence of Grantor or a member of Grantor's family.

Executed as of 3/25/11

1st Witness: Michael Adams
Print Name: Michael W. Adams

2nd Witness: Brian G Tees
Print Name: Brian G Tees

As to Bradley Spevak

Bradley Spevak

NOTE: There is no conveyance of beneficial ownership. The Grantor and the owners of the Grantee are one and the same, and each Grantor's ownership interest in the Grantee is identical to the interest of each respective Grantor in the Property, and, as of the date hereof, the Property is not encumbered by a lien. Therefore, no documentary stamp taxes are due on this Deed.

1st Witness: _____

Print Name: WILLIAM C ZIRIAX

Robert Bruce Spevak
Robert Bruce Spevak

2nd Witness: Alma Ardito

Print Name: Alma Ardito

As to Robert Bruce Spevak

State of Florida
County of Duval

The foregoing instrument was acknowledged before me this 25th day of March, 2011 by Robert Bruce Spevak (✓) who is personally known to me or ( ) who has/have produced _____ (_____ Driver's License) as identification.

Alma Ardito
Notary Public, State of _____
My Commission Expires:

ALMA ARDITO
MY COMMISSION # DD 713693
EXPIRES: September 11, 2011
Bonded Thru Notary Public Underwriters

1st Witness: Carmyn Miller

Print Name: Carmyn Miller

2nd Witness: Lana L. Williams

Print Name: Lana L. Williams

As to Karen Spevak

Karen Spevak

Karen Spevak

State of ARIZONA
County of PINAL

The foregoing instrument was acknowledged before me this 21st day of March 2011 by Karen Spevak (✓) who is personally known to me or (✓) who has/have produced AN ARIZONA's t Driver's License as identification.

VA 3-21-11 VA 3-21-11

Virginia Farley

Notary Public, State of ARIZONA
My Commission Expires: JULY 10, 2013

VIRGINIA FARLEY
Notary Public - Arizona
Pinal County
My Comm. Expires Jul 10, 2013

02 minutes 08 seconds East, 250 feet; thence South 8 degrees 57 minutes 52 seconds East, 175 feet to the point of beginning.

PARCEL 2

A portion of the West 1/2 of Section 35, Township 3 South, Range 16 East, Columbia County, Florida, and being a portion of the lands owned by Lewis B. Turner, more particularly described as commencing at the intersection of the Northerly right-of-way line of U.S. Highway No. 90, a 100 ft. right-of-way at this point, with the Easterly boundary of the lands of said Lewis B. Turner, said boundary of Turner being 330 feet, more or less West of the Easterly line of the West 1/2 of said Section 35 as measured along the Northerly right-of-way line of said U.S. Highway No. 90; thence along a curve to the left in said Northerly right-of-way line of U.S. Highway No. 90, said curve having a radius of 2919.79 feet, a distance of 50.96 feet as measured along a chord bearing South 81°32'08" West to a point of tangency; thence continue along the Northerly right-of-way line of U.S. Highway No. 90, South 81°02'08" West, 9.18 feet; thence continue along the Northerly right-of-way line of said U.S. Highway No. 90, South 81°02'08" West 38.12 feet to a transition point; thence North 8°57'52" East 10 feet; thence continue along the Northerly right-of-way line of said U.S. Highway No. 90, South 81°02'08" West, 250 feet to its intersection with the ramp right-of-way approach of Interstate No. 75; thence along said right-of-way line of the following two courses: North 74°34'59" West 182.43 feet; North 41°09'52" West 513.11 feet to a point of beginning; thence along said right-of-way line North 41°09'52" West 30.0 feet; thence North 81°02'08" East 50.0 feet; thence South 41°09'52" East 30.0 feet; thence South 81°02'08" West 50.0 feet to the point of beginning.

SUBJECT TO a certain easement recorded on the public records of Columbia County, Florida, in Official Records Volume 195, Page 215, in, to and over the following described property:

A portion of the West 1/2 of Section 35, Township 3 South, Range 16 East, Columbia County, Florida, and being a portion of the lands owned by Lewis B. Turner, more particularly described as commencing at the intersection of the Northerly right-of-way line of U.S. Highway No. 90, a 100 ft. right-of-way at this point, with the Easterly boundary of the lands of said Lewis B. Turner, said boundary of Turner being 330 feet, more or less West of the Easterly line of the West 1/2 of said Section 35 as measured along the Northerly right-of-way line of said U.S. Highway No. 90; thence along a curve to the left in said Northerly right-of-way line of U.S. Highway No. 90, said curve having a radius of 2919.79 feet, a distance of 50.96 feet as measured along a chord bearing South 81°32'08" West to a point of tangency; thence continue along the Northerly right-of-way line of U.S. Highway No. 90, South 81°02'08" West, 9.18 feet; thence continue along the Northerly right-of-way line of said U.S. Highway No. 90, South 81°02'08" West 38.12 feet to a transition point; thence North 8°57'52" East 10 feet; thence continue along the Northerly right-of-way line of said U.S. Highway No. 90, South 81°02'08" West 250 feet to its intersection with the ramp right-of-way approach of Interstate No. 75; thence North 74°34'59" West along said ramp right-of-way line 110.0 feet to a point of beginning; thence along said ramp right-of-way line the following two courses: North 74°34'59" West 72.43 feet; North 41°09'52" West 513.11 feet; thence North 81°02'08" East 11.82 feet; thence South 41°09'52" East 503.81 feet; thence South 74°34'59" East 64.90 feet; thence South 8°57'52" East 10.98 feet to the point of beginning.

Legend

Parcels

SRWMD Wetlands

2018Aerials

Roads

Roads
others
Dirt
Interstate
Main
Other
Paved
Private

SectionTownshipAndRange

2018 Flood Zones

0.2 PCT ANNUAL CHANCE
A
AE
AH

LidarElevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Oct 15 2019 09:59:12 GMT-0400 (Eastern Daylight Time)

Parcel Information

Parcel No: 35-3S-16-02545-000

Owner: KAVEPS LAKE CITY LLC

Subdivision:

Lot:

Acres: 5.33567238

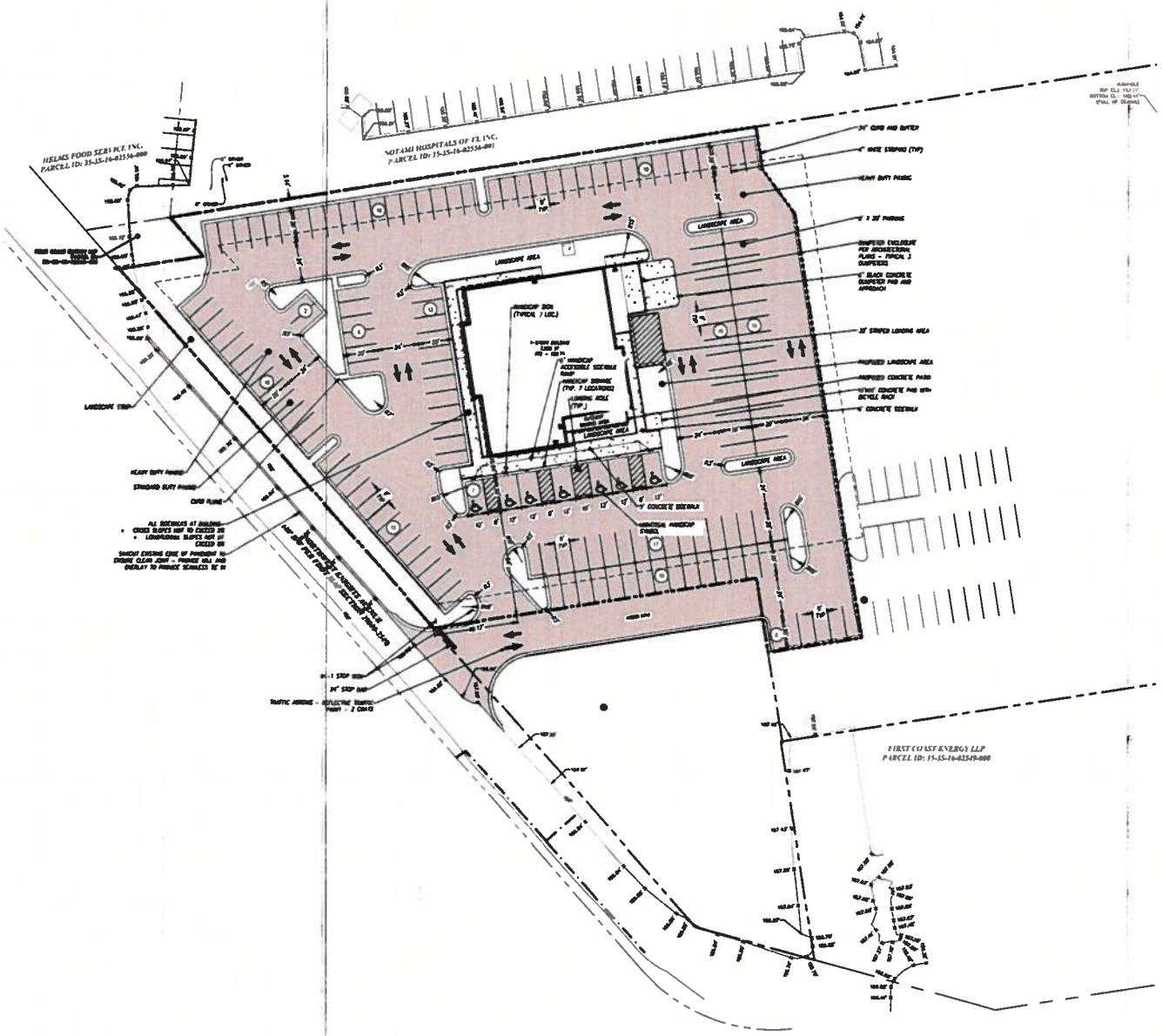
Deed Acres: 5.19 Ac

District: District 3 Bucky Nash

Future Land Uses: Highway Interchange, Lake City

Flood Zones:

Official Zoning Atlas: CHI



SITE PLAN NOTES

SITE ADDRESS: 117 NW KNIGHTS AVE, LAKE CITY, FL

ZONING: CHI - COMMERCIAL, HIGHWAY INTERCHANGE

SITE: TOTAL SITE AREA = 1.985 ACRES
TOTAL DISTURBED AREA: 2.0 ACRES

ZONING SETBACKS:
MINIMUM FRONT SETBACK = 20 FT
MINIMUM REAR SETBACK = 15 FT
MINIMUM SIDE SETBACK = 0 FT
MAXIMUM BUILDING HEIGHT = 70 FT

BUILDING SUMMARY:
FREESTANDING SIT DOWN RESTAURANT - 7,908 SQ.FT.

PARKING SUMMARY:
REQUIRED:
MINIMUM: 1 SPACE PER 3 SEATS = 324 SEATS
TOTAL REQUIRED/ PROVIDED: 108 SPACES /158 SPACES (151 REGULAR + 7 HANDICAPPED)

IMPERVIOUS SURFACE CALCULATIONS:
TOTAL SITE AREA: 86,902 SF (1.995 ACS.)
PROVIDED: 76,292 SF (1.75 ACS.)
PROVIDED: 87.8%

BUILDING HEIGHT: 25'-11"

SITE NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
2. TOPOGRAPHIC BOUNDARY SURVEY, PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY:
   EBI SURVEYING
   8415 SUNSTATE STREET
   TAMPA, FLORIDA 33634
   PHONE: 813.886.8080
3. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING.
4. ALL HANDICAP ACCESSIBLE PARKING SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS AND STATE CODE.
5. ALL TRAFFIC SIGNS SHALL CONFORM TO THE UNIFORM TRAFFIC CONTROL MANUAL AND THE LOCAL DEPARTMENT OF TRANSPORTATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, ONSITE OR OFF SITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL OR BETTER THAN EXISTING CONDITIONS.
7. SITE LIGHTING SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK. ALL LIGHTING POLES, BASES AND FIXTURES WITH LAMPS SHALL BE INSTALLED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR AND SHALL SUPPLY A ONE YEAR WARRANTY CERTIFICATE.
8. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
9. SITE CONTRACTOR SHALL SUPPLY AS-BUILT PLANS INDICATING ALL CHANGES AND DEVIATIONS.
10. ANY DEVIATION FROM THESE PLANS MAY CAUSE THE WORK TO BE UNACCEPTABLE.
11. ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED TO THE ENGINEER IMMEDIATELY.
12. ALL CONCRETE SHALL BE 3,000 PSI 28 DAY COMPRESSIVE STRENGTH UNLESS NOTED OTHERWISE.
13. PROJECT SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
14. ALL CURB AND GUTTER SHALL BE 24" UNLESS NOTED OTHERWISE.
15. PARKING LOT STRIPING, IF SHOWN IN THESE PLANS, SHALL BE INCLUDED IN PAVING CONTRACTOR'S SCOPE OF WORK. STRIPING WILL BE ACCORDING TO OWNER'S SPECIFICATIONS UNLESS NOTED OTHERWISE. ALL STRIPING IS TO HAVE TWO (2) COATS OF PAINT (MIN).
16. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDANCE OF ALL WETLANDS AREAS AS ILLUSTRATED IN THE WETLANDS DELINEATION PACKAGE.

30 15 0 30 60
(IN FEET)
1 inch = 30 ft.

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

bdg architects
400 N. Ashley Dr., Ste. 600
Tampa, FL 33602
P: 813 . 323 . 9233
Lic. # AA - 0003390
W: www.bdgtp.com

TEXAS ROADHOUSE

TEXAS ROADHOUSE
117 NW KNIGHTS AVE.
LAKE CITY, FLORIDA

Architect of Record
Gregg A. Butterworth, AIA, LEED AP
FL License # AR0017030

ISSUE	BY	DATE	DESCRIPTION

SEAL

PROJECT INFORMATION BLOCK

JOB #	19001
DATE	09-11-2019
DRAWN BY:	Author
CHECKED BY:	Checker

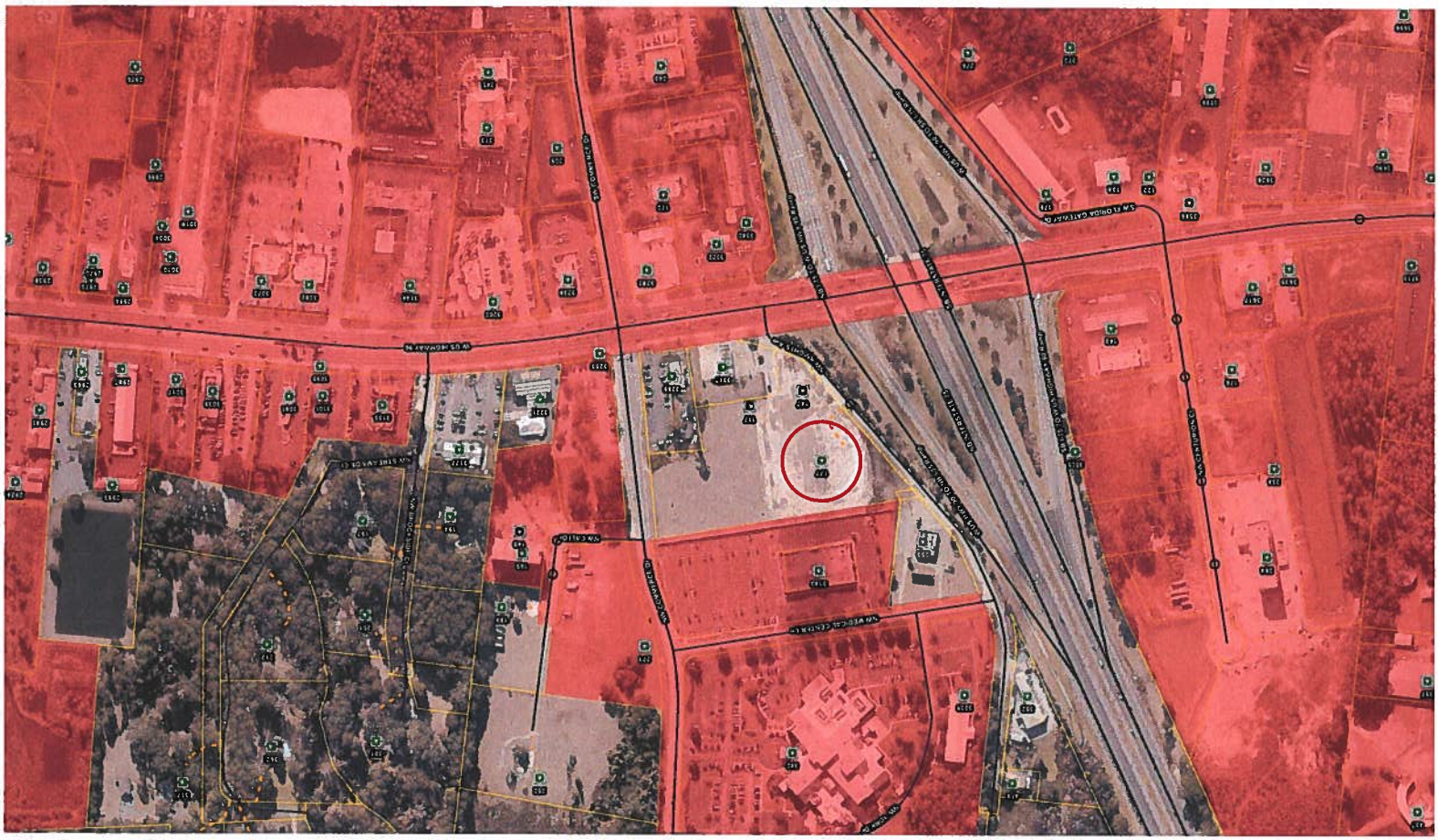
SHEET TITLE

SITE PLAN

SHEET NUMBER

C200

6/27/2019 4:53:36 PM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Columbia County Property Appraiser

Jeff Hampton

2020 Working Values
updated: 11/27/2019

Parcel: << **35-3S-16-02545-101** >>

Aerial Viewer Pictometery Google Maps

Owner & Property Info

Owner	KAVEPS LAKE CITY LLC C/O K K MEHTA CPA PC 11614 MONICA ST HOUSTON, TX 77024		
Site	,		
Description*	LOT 1 CORNER AT COMMERCE BLVD S/D.		
Area	1.989 AC	S/T/R	35-3S-16
Use Code**	VACANT (000000)	Tax District	2

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Property & Assessment Values

2019 Certified Values	2020 Working Values	
There are no 2019 Certified Values for this parcel	Mkt Land (1)	$1,386,944
	Ag Land (0)	$0
	Building (0)	$0
	XFOB (0)	$0
	Just	$1,386,944
	Class	$0
	Appraised	$1,386,944
	SOH Cap [?]	$0
	Assessed	$1,386,944
	Exempt	$0
	Total Taxable	county:$1,386,944 city:$1,386,944 other:$1,386,944 school:$1,386,944

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
NONE						

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
NONE						

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
001000	VACANT COM (MKT)	86,684.000 SF - (1.989 AC)	1.00/1.00 1.60/1.00	$16	$1,386,944

Sunbiz.org DIVISION of CORPORATIONS an official State of Florida website

Detail by Entity Name

Florida Limited Liability Company
KAVEPS LAKE CITY, L.L.C.

Filing Information

Document Number	L11000029044
FEI/EIN Number	27-5435581
Date Filed	03/08/2011
State	FL
Status	ACTIVE

Principal Address

828 OLD GROVE MANOR
JACKSONVILLE, FL 32207

Mailing Address

POST OFFICE BOX 551260
JACKSONVILLE, FL 32255-1260

Registered Agent Name & Address

ANSBACHER & SCHNEIDER, P.A.
5150 BELFORT ROAD
BLDG. 100
JACKSONVILLE, FL 32256

Authorized Person(s) Detail

Name & Address

Title MGRM

SPEVAK, BRADLEY
828 OLD GROVE MANOR
JACKSONVILLE, FL 32207

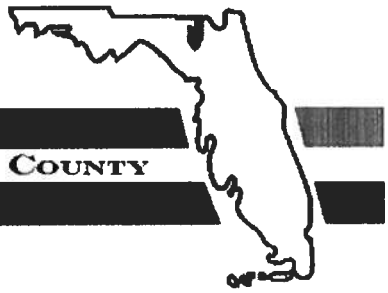
Annual Reports

Report Year	Filed Date
2017	01/09/2017
2018	01/20/2018
2019	01/28/2019

Document Images

01/28/2019 -- ANNUAL REPORT View image in PDF format

District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Bucky Nash
District No. 4 - Toby Witt
District No. 5 - Tim Murphy



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

To maintain the county wide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for addressing and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued:	**9/26/2019 1:03:46 PM**
Address:	**177 NW KNIGHTS Ave**
City:	**LAKE CITY**
State:	**FL**
Zip Code	**32055**
Parcel ID	**02545-000**

REMARKS: Address for proposed structure on parcel.

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED, THIS ADDRESS IS SUBJECT TO CHANGE.

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com

CITY OF LAKE CITY
Florida's Gateway Est. 1859

November 1, 2019

Texas Roadhouse
Rachel Steele
6040 Dutchmans Lane
Louisville, KY 40205

RE: Service Availability Letter

To Whom It May Concern,

Thank you for your inquiry regarding the availability of city utilities. The City of Lake City has potable water and sanitary sewer available to tap into at 117 NW Knights Way, Parcel 35-3S-16-02545-000.

This availability response does not represent the City of Lake City's commitment for or reservation of capacity. In accordance with the City of Lake City's policies and procedures, commitment to serve is made only upon the City of Lake City's approval of your application for service and receipt of your payment of all applicable fees.

If you have any questions, please feel free to contact me at (386) 719-5786 during our normal business hours of 8:00 am to 4:30 pm, Monday through Friday. I will be happy to assist you.

Sincerely,

Shasta Pelham
Utility Service Coordinator

Brian Scott
Director of Distribution and Collections

Detail by Entity Name

Florida Limited Liability Company
KAVEPS LAKE CITY, L.L.C.

Filing Information

Document Number	L11000029044
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5150 BELFORT ROAD
BLDG. 100
JACKSONVILLE, FL 32256

Authorized Person(s) Detail

Name & Address

Title MGRM

SPEVAK, BRADLEY
828 OLD GROVE MANOR
JACKSONVILLE, FL 32207

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Document Images

01/28/2019 -- ANNUAL REPORT View image in PDF format

Columbia County
BUILDING DEPARTMENT

Revised Jan 2018

COMMERCIAL MINIMUM PLAN CHECKLIST

MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR THE 2017 FLORIDA BUILDING CODE ,FLORIDA PLUMBING CODE,FLORIDA MECHINICAL CODE,FLORIDA FUEL AND GAS CODE 2017 EFFECTIVE 1 JAN 2018 AND 2014 NATIONAL ELECTRICAL

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609.3 (1) THROUGH (3) ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES

	GENERAL REQUIREMENTS:	Items to Include Each Box shall be Marked as Applicable			
1	All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void.	YES	NO	N/A	Yes
2	If the design professional is an architect or engineer legally registered under the laws of this state regulating the practice of architecture as provided for in Chapter 481, Florida Statutes, Part I, or engineering as provided for in Chapter 471, Florida Statutes, then he or she shall affix his or her official seal to said drawings, specifications and accompanying data, as required by Florida Statute.	YES	NO	N/A	Yes
3	The design professional signature shall be affixed to the plans	YES	NO	N/A	Yes
4	Two (2) complete sets of plans with the architecture or engineer signature and the date the affix embossed official seal was placed on the plans	YES	NO	N/A	Yes

Two (2) complete sets of plans containing the following information:

	Building Site Plan Requirements	Items to Include- Each Box shall be Marked as Applicable			
4	Parking, including provision Florida Building Code Accessibility Code	Yes	No	N/A	Yes
5	Fire access, showing all drive way which will be accessible for emergency vehicles	Yes	No	N/A	Yes
6	Driving/turning radius of parking lots	Yes	No	N/A	Yes
7	Vehicle loading include truck dock loading or rail site loading	Yes	No	N/A	Yes
8	Nearest or number of onsite Fire hydrant/water supply/post indicator valve (PIV)	Yes	No	N/A	Yes
9	Set back of all existing or proposed structures from each structure and property boundaries, Show all separation including assumed property lines	Yes	No	N/A	Yes
10	Location of specific tanks(above or under grown ,water lines and sewer lines and septic tank and drain fields	Yes	No	N/A	Yes

11	All structures exterior views include finished floor elevation	Yes	No	N/A	Yes
12	Total height of structure(s) form established grade	Yes	No	N/A	Yes
	Review required by the Columbia County Fire Department Items 13Th 43 (We Contact the Fire Inspector For You.)				

Occupancy group use circle all uses:	Group A	Group B	Group E	Group F	Group H	Group I	Group M	Group R	Group S	Group U D

13	Special occupancy requirements.	Yes	No	N/A	N/A
14	Incidental use areas (total square footage for each room of use area)	Yes	No	N/A	Yes
15	Mixed occupancies	Yes	No	N/A	N/A
16	REQUIRED SEPARATION OF OCCUPANCIES IN HOURS FBC TABLE 707.3.10	Yes	No	N/A	Yes

Minimum type of permitted construction by code for occupancy use circle the construction type FBC 602

17	Type I (FBC:602.2)	Type II (FBC:602.2)	Type III (FBC:602.3)	Type IV (FBC:602.4)	Type V (FBC:602.5)	

	Fire-resistant construction requirements shall be shown, include the following components				
18	Fire-resistant separations	Yes	No	N/A	Yes
19	Fire-resistant protection for type of construction	Yes	No	N/A	Yes
20	Protection of openings and penetrations of rated walls	Yes	No	N/A	Yes
21	Protection of corridors and penetrations of rated walls	Yes	No	N/A	Yes
22	Fire blocking and draftstopping and calculated fire resistance	Yes	No	N/A	Yes
	Fire suppression systems shall be shown include:				
23	Early warning smoke evacuation systems Schematic fire sprinklers Standpipes	Yes	No	N/A	Yes
24	Standpipes	Yes	No	N/A	Yes
25	Pre-engineered systems	Yes	No	N/A	Yes
26	Riser diagram	Yes	No	N/A	Yes
	Life safety systems shall be shown include the following requirements:				
27	Occupant load and egress capacities	Yes	No	N/A	Yes
28	Early warning	Yes	No	N/A	Yes
29	Smoke control	Yes	No	N/A	N/A
30	Stair pressurization	Yes	No	N/A	N/A
31	Systems schematic	Yes	No	N/A	Yes
	Occupancy load/egress requirements shall be shown include:				
32	Occupancy load	Yes	No	N/A	Yes
33	Gross occupancy load	Yes	No	N/A	Yes
34	Net occupancy load	Yes	No	N/A	Yes
35	Means of egress	Yes	No	N/A	Yes
36	Exit access	Yes	No	N/A	Yes
37	Exit discharge	Yes	No	N/A	Yes
38	Stairs construction/geometry and protection	Yes	No	N/A	N/A
39	Doors	Yes	No	N/A	Yes
40	Emergency lighting and exit signs	Yes	No	N/A	Yes
41	Specific occupancy requirements	Yes	No	N/A	Yes

42	Construction requirements	Yes	No	N/A	Yes
43	Horizontal exits/exit passageways	Yes	No	N/A	Yes

		Items to Include Each Box shall be Marked as Applicable			
	Structural requirements shall be shown include:				
44	Soil conditions/analysis	Yes	No	N/A	Yes
45	Termite protection	Yes	No	N/A	Yes
46	Design loads	Yes	No	N/A	Yes
47	Wind requirements	Yes	No	N/A	Yes
48	Building envelope	Yes	No	N/A	Yes
49	Structural calculations (if required)	Yes	No	N/A	Yes
50	Foundation **For** structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Yes	No	N/A	Yes
51	Wall systems	Yes	No	N/A	Yes
52	Floor systems	Yes	No	N/A	Yes
53	Roof systems	Yes	No	N/A	Yes
54	Threshold inspection plan	Yes	No	N/A	N/A
55	Stair systems	Yes	No	N/A	N/A
	Materials shall be shown include the following				
56	Wood	Yes	No	N/A	Yes
57	Steel	Yes	No	N/A	Yes
58	Aluminum	Yes	No	N/A	Yes
59	Concrete	Yes	No	N/A	Yes
60	Plastic	Yes	No	N/A	Yes
61	Glass	Yes	No	N/A	Yes
62	Masonry	Yes	No	N/A	Yes
63	Gypsum board and plaster	Yes	No	N/A	Yes
64	Insulating (mechanical)	Yes	No	N/A	Yes
65	Roofing	Yes	No	N/A	Yes
66	Insulation	Yes	No	N/A	Yes
	Accessibility requirements shall be shown include the following				
67	Site requirements	Yes	No	N/A	Yes
68	Accessible route	Yes	No	N/A	Yes
69	Vertical accessibility	Yes	No	N/A	N/A
70	Toilet and bathing facilities	Yes	No	N/A	Yes
71	Drinking fountains	Yes	No	N/A	Yes
72	Equipment	Yes	No	N/A	Yes
73	Special occupancy requirements	Yes	No	N/A	N/A
74	Fair housing requirements	Yes	No	N/A	N/A

	Interior requirements shall include the following				
75	**Review required by the Columbia County Fire Department Items 75Th 80** Interior finishes (flame spread/smoke development)	Yes	No	N/A	Yes
76	Light and ventilation	Yes	No	N/A	Yes
77	Sanitation	Yes	No	N/A	Yes
	Special systems				
78	Elevators	Yes	No	N/A	N/A
79	Escalators	Yes	No	N/A	N/A
80	Lifts	Yes	No	N/A	N/A
	Swimming pools				
81	Barrier requirements	Yes	No	N/A	N/A
82	Spas and Wading pools	Yes	No	N/A	N/A
83	Access required per Florida Building Code 454.1.2.5	Yes	No	N/A	N/A

	Items to Include-Each Box shall be Circled as Applicable				
	Electrical				
84	Wiring	Yes	No	N/A	Yes
85	Services **For** structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Yes	No	N/A	Yes
86	Feeders and branch circuits	Yes	No	N/A	Yes
87	Overcurrent protection	Yes	No	N/A	Yes
88	Grounding	Yes	No	N/A	Yes
89	Wiring methods and materials	Yes	No	N/A	Yes
90	GFCIs	Yes	No	N/A	Yes
91	Equipment	Yes	No	N/A	Yes
92	Special occupancies	Yes	No	N/A	N/A
93	Emergency systems	Yes	No	N/A	Yes
94	Communication systems	Yes	No	N/A	Yes
95	Low voltage	Yes	No	N/A	Yes
96	Load calculations	Yes	No	N/A	Yes
	Plumbing				
97	Minimum plumbing facilities	Yes	No	N/A	Yes
98	Fixture requirements	Yes	No	N/A	Yes
99	Water supply piping	Yes	No	N/A	Yes
100	Sanitary drainage	Yes	No	N/A	Yes
101	Water heaters	Yes	No	N/A	Yes
102	Vents	Yes	No	N/A	Yes
103	Roof drainage	Yes	No	N/A	Yes
104	Back flow prevention	Yes	No	N/A	Yes

105	Irrigation	Yes	No	N/A	Yes
106	Location of water supply line	Yes	No	N/A	Yes
107	Grease traps	Yes	No	N/A	Yes
108	Environmental requirements	Yes	No	N/A	N/A
109	Plumbing riser	Yes	No	N/A	Yes
	Mechanical				
110	Energy calculations	Yes	No	N/A	Yes
111	**Review required by the Columbia County Fire Department Items 111Th 114** Exhaust systems	Yes	No	N/A	Yes
112	Clothes dryer exhaust	Yes	No	N/A	N/A
113	Kitchen equipment exhaust	Yes	No	N/A	Yes
114	Specialty exhaust systems	Yes	No	N/A	N/A
	Equipment location				
115	Make-up air	Yes	No	N/A	Yes
116	Roof-mounted equipment	Yes	No	N/A	Yes
117	Duct systems	Yes	No	N/A	Yes
118	Ventilation	Yes	No	N/A	Yes
119	Laboratory	Yes	No	N/A	N/A
120	Combustion air	Yes	No	N/A	N/A
121	Chimneys, fireplaces and vents	Yes	No	N/A	Yes
122	Appliances	Yes	No	N/A	Yes
123	Boilers	Yes	No	N/A	N/A
124	Refrigeration	Yes	No	N/A	Yes
125	Bathroom ventilation	Yes	No	N/A	Yes
		Items to Include- Each Box shall be Marked as Applicable			
	Gas				
126	**Review required by the Columbia County Fire Department Items 126Th 134** Gas piping	Yes	No	N/A	N/A
127	Venting	Yes	No	N/A	N/A
128	Combustion air	Yes	No	N/A	N/A
129	Chimneys and vents	Yes	No	N/A	N/A
130	Appliances	Yes	No	N/A	N/A
131	Type of gas	Yes	No	N/A	N/A
132	Fireplaces	Yes	No	N/A	N/A
133	LP tank location	Yes	No	N/A	N/A
134	Riser diagram/shutoffs	Yes	No	N/A	N/A
	Notice of Commencement				
135	A recorded (in the Columbia County Clerk Office) notice of commencement is required to be on file with the building department . ***Before Any Inspections Will Be Done***	Yes	No	N/A	Yes
	Disclosure Statement for Owner Builders	Yes	No	N/A	-

Private Potable Water						
136	Horse power of pump motor	***SEE PAGE 7- ON HOW TO PROVIDE THIS DOCUMENTATION.***	Yes	No	N/A	N/A
137	Capacity of pressure tank		Yes	No	N/A	N/A
138	Cycle stop valve if used		Yes	No	N/A	

Items to Include- Each Box shall be Marked as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

139	**Building Permit Application**	A Building Permit Application is to be completed by following the checklist all supporting documents must be submitted. Completed Applications can be mailed with The $15.00 application fee.	Yes	No	N/A	Yes
140	**Parcel Number**	The parcel number (Tax ID number) from the Property Appraiser is required. A copy of property deed is also required. (386) 758-1084	Yes	No	N/A	Yes
141	**Environmental Health Permit or Sewer Tap Approval**	A copy of an approved Environmental Health (386) 758-1058 waste water disposal permit or an approved City of Lake City(386) 752-2031 OR Count sewer tap letter is required before a building permit can be issued. **Toilet facilities shall be provided for construction workers**	Yes	No	N/A	-
142	**Driveway Connection**	If the property does not have an existing access to a public road, then an application for a culvert permit must be made **($25.00)**. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. Culvert installation for commercial, industrial and other uses shall **conform to the approved site plan or to the specifications of a registered engineer. Use or joint use of driveways will comply with Florida Department of Transportation specifications.** If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	Yes	No	N/A	-
143	**Suwannee River Water Management District Approval**	All commercial projects must have an SRWMD permit issued or an exemption letter, before a building permit will be issued.	Yes	No	N/A	-
144	**Flood Management**	All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) **has been** established shall meet the requirements of section 8.8 of the Columbia County Land Development Regulations. Any project that is located within a flood zone where the base flood elevation (100 year flood) **has not been** established shall meet the requirements of section 8.7 of Columbia County Land Development Regulations. A development permit will also be required. **The development permit cost is $50.00**	Yes	No	N/A	-
145	**Flood Management**	A CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED OR IT HAS BEEN DETERMINED BY THE PLAT	Yes	No	N/A	-
146	**911 Address**	An application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	Yes	No	N/A	Yes

COLUMBIA COUNTY FIRE RESCUE
Life Safety Services
P.O. BOX 1529 Lake City, Florida 32056
Office (386) 758-2120 Fax (386) 754-7064

Fire Inspector
Chief Jeffery Crawford

01 October 2019

TO: Troy Crews
Columbia County Building and Zoning

FROM: Chief Jeffery Crawford
Fire Inspector #136416

RE: New construction for Texas Roadhouse

A plan review was performed on the proposed new construction for Texas Roadhouse, located at 117 NW Knight Ave., Lake City FL 32025. This building was classified under Chapter 12 New Occupancy, of the Florida Fire Prevention Code, 2012 Fifth Edition.
I recommend Approval of the building with the following conditions:
Pending:

- Light Weight Truss Marking
    - Florida Statue, Section 633.027, (2008) requires the owner of any commercial, industrial, or multi-unit residential structure of three units or more constructed of light-frame trusses, to install a symbol adopted by the rule of the State Fire Marshal's Office. This rule establishes the dimensions, color, and location of the symbol to be applied to every commercial, industrial, and multi-unit residential structure of three units or more constructed of light-frame trusses.

- Emergency Lighting/Exit signs
    - NFPA 101 Life Safety Code, Chapter 42.2.9 emergency lighting shall be provided in normally occupied storage occupancies in accordance with section 7.9, except for

spaces occupied only during daylight hours with natural illumination in accordance with 42.2.8.2.

- Fire Extinguishers – 3 ABC Fire extinguisher per exit door

- Access Box(es)
  - NFPA 1:18.2.2.1 states. The AHJ shall have the authority to require an access box(es) to be installed in an accessible location where access to or within a structure or area is difficult because of security. The access box(es) shall be of an approved type listed in accordance with UL1037.

  Knox Boxes are now a requirement for all new construction

- Electrical Disconnect
  - NFPA 1:11.1.7 states, "means shall be provided for the fire department to disconnect the electrical service to a building, structure or facility when the electrical is covered under the scope of NFPA70."
  - NFPA 101:7.2.1.5.1 states, "Doors shall be arranged to be opened readily from egress side whenever building is occupied."

Sincerely,

August 23, 2019

VIA ELECTRONIC MAIL

Emily Bernahl
BDG Architects, LLP
400 N. Ashley Dr., Suite 600
Tampa, Fl 33602

Re: Site and Development Plan 19 09 – Texas Roadhouse
Planning and Zoning Board Determination Letter

Dear Ms. Bernahl,

At the August 22, 2019 Planning and Zoning Board ("Board") hearing, the Board approved your application for a Site and Development Plan for a ±7,908 sq ft building, parking, and associated amenities for a "Restaurant" use as permitted in Section 4.15.2 of the County's Land Development Regulations ("LDRs") in accordance with Section 14.13 of the County's LDRs.

Attached is a copy of the Board's Resolution approving SDP 19 09.

If you have any questions, please do not hesitate to contact me at bstubbs@columbiacountyfla.com or (386) 754-7119.

Sincerely,

Brandon M. Stubbs
Community Development Coordinator
Land Development Regulation Admin.

6. Proposed screens and buffers sufficiently provide for the preservation of internal and external harmony and compatibility with uses inside and outside the proposed development;
7. Manner of stormwater management will not adversely affect the provisions for stormwater management on adjacent and nearby properties and overall public stormwater management capacities;
8. Provision for sanitary sewers is adequate in relationship to overall sanitary sewer availability and capacities;
9. Utilities, with reference to hook-in locations and availability and capacity for the uses projected are adequate;
10. Recreation facilities and open spaces, with attention to the size, location, and development of the areas as to adequacy, effect on privacy of adjacent and nearby properties and uses within the proposed development, and relationship to community open spaces and recreational facilities are adequate;
11. General amenities and convenience, with particular reference to appearance and general layout of the proposed development will be compatible and harmonious with properties in the general area and will not be in conflict with other development in the area as to cause substantial depreciation of property values; and
12. Said site and development plan conforms to all other standards imposed by the Land Development Regulations.

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING AND ZONING BOARD OF COLUMBIA COUNTY, FLORIDA, THAT:

Section 1. Pursuant to an application, SDP 19 06, an application by Emily Bernahl of BDG Architects, LLP, agent for Kaveps Lake City, LLC, owner, for site and development plan approval for a proposed Restaurant use located in the Commercial, Highway Interchange ("CHI") Zone District in accordance with a site plan dated July 11, 2019, and submitted as part of an application dated July 11, 2019 to be located on property described, as follows:

Lot 1 of "Corner at Commerce Blvd" as per Plat thereof recorded in Plat Book 9, Pages 137 and 138 of the Public Records of Columbia County, Florida.

Containing 1.99-acres, more or less.

Tax Parcel Number 35-3s-16-02545-000

Section 2. The Planning and Zoning Board, hereby approves the above referenced site and development plan subject to any conditions and safeguards, if any, hereinafter attached in Exhibit "A".

Section 3. A site and development plan made a part of this resolution by reference, shall govern the development of the above described property. Any deviation determined to be a major variation from the site and development plan submitted as part of this application shall be deemed a violation of the Land Development Regulations.

Section 4. The Land Development Regulation Administrator is hereby authorized to issue building permits pursuant to this resolution approving with conditions said site and development plan.

Columbia County Gateway to Florida

FOR PLANNING USE ONLY
Application # SPD_____
Application Fee $500.00
Receipt No._____
Filing Date _____
Completeness Date _____

Site Plan Application

A. PROJECT INFORMATION

1. Project Name: Texas Roadhouse - Lake City
2. Address of Subject Property: 117 NW Knights Avenue Lake City, FL 32055
3. Parcel ID Number(s): 35-3S-16-02545-000
4. Future Land Use Map Designation: Commercial
5. Zoning Designation: CHI Commercial, Highway Interchange
6. Acreage: 1.995
7. Existing Use of Property: Vacant
8. Proposed use of Property: 7,908sf Sit Down Restaurant
9. Type of Development (Check All That Apply):

- [ ] Increase of floor area to an existing structure: Total increase of square footage_____
- [x] New construction: Total square footage 7,908
- [ ] Relocation of an existing structure: Total square footage _____

B. APPLICANT INFORMATION

1. Applicant Status ☐ Owner (title holder) ■ Agent
2. Name of Applicant(s): Emily Bernahl Title: Director of Development Services
   Company name (if applicable): BDG Architects, LLP
   Mailing Address: 400 North Ashley Drive, Suite 600
   City: Tampa State: FL Zip: 33602
   Telephone: (813) 323-9233 Fax: (___)_____ Email: Emily.Bernahl@bdgllp.com

   PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.
3. If the applicant is agent for the property owner*.
   Property Owner Name (title holder): Kaveps Lake City LLC
   Mailing Address: C/O KK Mehta CPA - 11614 Monica Street
   City: Houston State: TX Zip: 77024
   Telephone: (___)_____ Fax: (___)_____ Email:_____

   PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

   ***Must provide an executed Property Owner Affidavit Form authorizing the agent to act on behalf of the property owner.**

C. ADDITIONAL INFORMATION

1. Is there any additional contract for the sale of, or options to purchase, the subject property?
   If yes, list the names of all parties involved: n/a
   If yes, is the contract/option contingent or absolute: ☐ Contingent ☐ Absolute
2. Has a previous application been made on all or part of the subject property:
   Future Land Use Map Amendment: ☐Yes _____ ■No _____
   Future Land Use Map Amendment Application No. CPA_____
   Site Specific Amendment to the Official Zoning Atlas (Rezoning): ☐Yes _____ ■No _____
   Site Specific Amendment to the Official Zoning Atlas (Rezoning) Application No. Z_____
   Variance: ☐Yes _____ ■No _____
   Variance Application No. V_____
   Special Exception: ☐Yes _____ ■No_____
   Special Exception Application No. SE_____

D. ATTACHMENT/SUBMITTAL REQUIREMENTS

1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.

2. Site Plan – Including, but not limited to the following:
   a. Name, location, owner, and designer of the proposed development.
   b. Present zoning for subject site.
   c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.
   d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.
   e. Area and dimensions of site (Survey).
   f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
   g. Access to utilities and points of utility hook-up.
   h. Location and dimensions of all existing and proposed parking areas and loading areas.
   i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).
   j. Location and size of any lakes, ponds, canals, or other waters and waterways.
   k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.
   l. Location of trash receptacles.
   m. For multiple-family, hotel, motel, and mobile home park site plans:
      i. Tabulation of gross acreage.
      ii. Tabulation of density.
      iii. Number of dwelling units proposed.
      iv. Location and percent of total open space and recreation areas.
      v. Percent of lot covered by buildings.

vi. Floor area of dwelling units.
vii. Number of proposed parking spaces.
viii. Street layout.
ix. Layout of mobile home stands (for mobile home parks only).

3. Stormwater Management Plan—Including the following:
   a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
   b. Proposed finished elevation of each building site and first floor level.
   c. Existing and proposed stormwater management facilities with size and grades.
   d. Proposed orderly disposal of surface water runoff.
   e. Centerline elevations along adjacent streets.
   f. Water management district surface water management permit.

4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office ("ISO") and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.

5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.

6. Comprehensive Plan Consistency Analysis: An analysis of the application's consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).

7. Legal Description with Tax Parcel Number (In Word Format).

8. Proof of Ownership (i.e. deed).

9. Agent Authorization Form (signed and notarized).

10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector's Office).

11. Fee. The application fee for a Site and Development Plan Application is $500. No application shall be accepted or processed until the required application fee has been paid.

NOTICE TO APPLICANT

All eleven (11) attachments are required for a complete application. Once an application is submitted and paid for, a completeness review will be done to ensure all the requirements for a complete application have been met. If there are any deficiencies, the applicant will be notified in writing. If an application is deemed to be incomplete, it may cause a delay in the scheduling of the application before the Planning & Zoning Board.

A total of ten (10) copies of proposed site plan application and all support materials must be submitted along with a PDF copy on a CD. See Columbia County submittal guidelines for additional submittal requirements.

THE APPLICANT ACKNOWLEDGES THAT THE APPLICANT OR AGENT MUST BE PRESENT AT THE PUBLIC HEARING BEFORETHE PLANNING AND ZONING BOARD, AS ADOPTED IN THE BOARD RULES AND PROCEDURES, OTHERWISE THE REQUEST MAY BE CONTINUED TO A FUTURE HEARING DATE.

I hereby certify that all of the above statements and statements contained in any documents or plans submitted herewith are true and accurate to the best of my knowledge and belief.

Emily Bernahl

Applicant/Agent Name (Type or Print)

Emily Bernahl

Applicant/Agent Signature

07/09/19

Date

Florida Building Code, Sixth Edition (2017) - Energy Conservation

EnergyGauge Summit® Fla/Com-2017, Effective Date: Dec 31, 2017

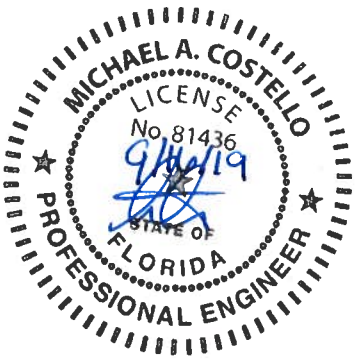
ASHRAE 90.1-2013 - Energy Cost Budget Option

Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:

- ☑ This Checklist
- ☑ The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- ☑ The compliance report must include the full input report generated by the software as contigous part of the compliance report.
- ☑ Boxes appropriately checked in the Mandatory Section of the complaince report.

- ☑ HVAC Load Calculations (Manual N)
- ☑ Outside Air Calculations



PROJECT SUMMARY

Short Desc:	Texas Roadhouse	**Description:**	Texas Roadhosue
Owner:			
Address1:	117 NW KNIGHTS AVENUE	**City:**	LAKE CITY
Address2:		**State:**	Florida
		Zip:	32055
Type:	Dining: Bar Lounge/Leisure	**Class:**	New Finished building
Jurisdiction:	LAKE CITY, COLUMBIA COUNTY, FL (221200)		
Conditioned Area:	6710 SF	**Conditioned & UnConditioned Area:**	7336 SF
No of Stories:	1	**Area entered from Plans**	0 SF
Permit No:	0	**Max Tonnage**	22
		If different, write in:	_____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	4,362.0	6,661.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**No Entry**
WATER HEATING SYSTEMS			**No Entry**
PIPING SYSTEMS			**PASSES**
Met all required compliance from Check List?			**(Yes)/No/NA**

IMPORTANT MESSAGE
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: Michael A. Costello

Date: 09/16/2019

Building Official: _____

Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: _____

Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect:	BDG ARCHITECT	Reg No:	
Electrical Designer:	Adam Powell	Reg No:	PE0073853
Lighting Designer:	Adam Powell	Reg No:	PE0073853
Mechanical Designer:	Michael A. Costello	Reg No:	PE0081436
Plumbing Designer:	Michael A. Costello	Reg No:	PE0081436

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: Texas Roadhouse
Title: Texas Roadhosue
Type: Dining: Bar Lounge/Leisure
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*343.40*	*521.03*
	$4,362	*$6,661*
ELECTRICITY(MBtu/kWh/$)	239.60	369.80
	70248	108345
	$3,843	*$5,905*
AREA LIGHTS	34.20	74.00
	10032	21678
	$549	*$1,181*
MISC EQUIPMT	50.00	50.00
	14659	14659
	$802	*$799*
PUMPS & MISC	0.80	0.90
	249	253
	$14	*$14*
SPACE COOL	114.90	126.95
	33674	37197
	$1,842	*$2,027*
VENT FANS	39.70	117.95
	11634	34559
	$636	*$1,883*
NATURAL-GAS(MBtu/therm/$)	103.80	151.23
	1038	1512
	$519	*$756*
SPACE HEAT	103.80	151.23
	1038	1512
	$519	*$756*

Credits Applied: None
Passing Criteria = 6661
Design (including any credits) = 4362
Passing requires Proposed Building cost to be at most 100% of Baseline cost. This Proposed Building is at 65.5%

PASSES

Project: Texas Roadhouse
Title: Texas Roadhosue
Type: Dining: Bar Lounge/Leisure
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Main entries	Yes	30.00	11.0	330	24
Ext Light 2	Plaza Areas	Yes	0.16	363.0	58	480

Tradable Surfaces: 504 (W) Allowance for Tradable: 1138.08 (W) **PASSES**
All External Lighting: 504 (W)
Complicance check includes a excess/Base allowance of 750.00(W)

Project: Texas Roadhouse
Title: Texas Roadhosue
Type: Dining: Bar Lounge/Leisure
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
PREP KITCHEN	7	Food Service - Kitchen	366	1	1	**PASSES**
DISH WASHING	7	Food Service - Kitchen	247	1	1	**PASSES**
OFFICE	17	Office - Enclosed	76	1	1	**PASSES**
WALKIN STORAGI	3	Storage & Warehouse - Bulky Active Storage	141	1	1	**PASSES**
PICK UP AREA	9	Food Service - Bar/Lounge	314	2	1	**PASSES**
SERVICE ENTRY	5	Corridor	88	1	1	**PASSES**
DINING 300	8	Food Service - Leisure Dining	855	4	1	**PASSES**
BAR	9	Food Service - Bar/Lounge	780	3	1	**PASSES**
PASSAGE	5	Corridor	185	2	1	**PASSES**
UNISEX	6	Toilet and Washroom	47	1	1	**PASSES**
MENS	6	Toilet and Washroom	115	2	1	**PASSES**
WOMENS	6	Toilet and Washroom	154	2	1	**PASSES**
DRINKING STATIC	5	Corridor	55	1	1	**PASSES**
DINING 100	8	Food Service - Leisure Dining	1,502	7	1	**PASSES**
COOKLINE	7	Food Service - Kitchen	457	1	1	**PASSES**
DISPLAY BAKERY	9	Food Service - Bar/Lounge	130	1	1	**PASSES**
LOBBY	12	Lobby (General) - Reception and Waiting	338	1	1	**PASSES**
VESTIBULE	12	Lobby (General) - Reception and Waiting	164	1	1	**PASSES**
WAITING AREA	12	Lobby (General) - Reception and Waiting	211	1	1	**PASSES**
DINING 500	8	Food Service - Leisure Dining	485	4	1	**PASSES**
Coolers	3	Storage & Warehouse - Bulky Active Storage	529	1	1	**PASSES**
Storage	2	Storage & Warehouse - Inactive Storage	97	1	1	**PASSES**

PASSES

Project: Texas Roadhouse
Title: Texas Roadhosue
Type: Dining: Bar Lounge/Leisure
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

RTU-1 **RTU-1** **Constant Volume Packaged System--902** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity	119000	12.00	11.00	13.00	12.70	**PASSES**
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	250000	90.00	80.00			**PASSES**
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	3850	0.40	0.82			**Not Required**

RTU-2 **RTU-2** **Constant Volume Packaged System--902** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	199220	12.00	10.80	13.00	12.20	**PASSES**
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	350000	90.00	80.00			**PASSES**
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	6000	0.40	0.82			**Not Required**

RTU-3 **RTU-3** **Constant Volume Packaged System--902** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	199222	12.00	10.80	13.00	12.20	**PASSES**
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	350000	90.00	80.00			**PASSES**
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	6000	0.40	0.82			**Not Required**

RTU-4	RTU-4		Constant Volume Packaged System--902				No. of Units 1
Component	**Category**	**Capacity**	**Design Eff**	**Eff Criteria**	**Design IPLV**	**IPLV Criteria**	**Comp-liance**
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	263610	12.00	9.80	13.00	11.40	**PASSES**
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	650000	90.00	80.00			**PASSES**
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	6000	0.40	0.82			**Not Required**

RTU-5	RTU-5		Constant Volume Packaged System--902				No. of Units 1
Component	**Category**	**Capacity**	**Design Eff**	**Eff Criteria**	**Design IPLV**	**IPLV Criteria**	**Comp-liance**
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	199222	12.00	10.80	13.00	12.20	**PASSES**
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	350000	90.00	80.00			**PASSES**
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	6000	0.40	0.82			**Not Required**

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance

None

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Comp liance

None

Project: Texas Roadhouse
Title: Texas Roadhosue
Type: Dining: Bar Lounge/Leisure
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compl-iance
Domestic and Service Hot Water Systems	0.25	True	105.00	0.28	1.00	0.50	**PASSES**

PASSES

Mandatory Requirements (as applicable)

Mandatory requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted with permission

Topic	Section	Component	Description	Yes	N/A	Exempt
1. To be checked by Designer or Engineer						
Insulation	5.8.1.2	Envelope	Below-grade wall insulation installed per manufacturerâ€™s instructions.	☐	☑	☐
Insulation	5.8.1.2	Envelope	Slab edge insulation installed per manufacturerâ€™s instructions.	☐	☑	☐
Insulation	5.5.3.5	Envelope	Slab edge insulation depth/length.	☐	☑	☐
Insulation	6.4.4.1.5	Envelope	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	☐	☑	☐
Fenestration	5.5.3.6	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.	☑	☐	☐
SYSTEM_SPECIFIC	6.5.1, 6.5.1.1, 6.5.1.3, 6.5.1.4	Mechanical	Air economizers provided where required (and not exempted), meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐	☑	☐
SYSTEM_SPECIFIC	6.5.1, 6.5.1.2, 6.5.1.3	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.	☐	☑	☐
SYSTEM_SPECIFIC	6.5.1.5	Mechanical	Economizer operation will not increase heating energy use during normal operation.	☐	☑	☐
SYSTEM_SPECIFIC	6.5.2.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	☐	☑	☐
SYSTEM_SPECIFIC	6.5.2.2.3	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	☐	☑	☐
SYSTEM_SPECIFIC	6.5.1.6	Mechanical	Water economizer specified on hydronic cooling and humidification systems designed to maintain inside humidity at >35 Â°F dewpoint if an economizer is required.	☐	☑	☐
SYSTEM_SPECIFIC	6.5.3.1.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☑	☐	☐
SYSTEM_SPECIFIC	6.5.3.1.2	Mechanical	HVAC fan motors not larger than the first available motor size greater than the bhp.	☑	☐	☐
HVAC	6.5.6.1	Mechanical	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.	☐	☑	☐
SYSTEM_SPECIFIC	7.4.2	Mechanical	Service water heating equipment meets efficiency requirements.	☑	☐	☐
SYSTEM_SPECIFIC	7.5.2	Mechanical	Service water heating equipment used for space heating complies with the service water heating equipment requirements.	☐	☑	☐
Insulation	5.8.1.2	Envelope	Above-grade wall insulation installed per manufacturerâ€™s instructions.	☑	☐	☐
Insulation	5.8.1.2	Envelope	Floor insulation installed per manufacturerâ€™s instructions.	☐	☑	☐
Controls	10.4.3	Mechanical	Elevators are designed with the proper lighting, ventilation power, and standby mode.	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7a	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7b	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7c	Mechanical	Heat Rejection Equipment: Minimum Efficiency RequirementTable 6.8.1-7	☐	☑	☐

SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7d	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	6.5.5.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7e	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7f	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7g	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7.	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7h	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7i	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement Table 6.8.1-7	☐	☑	☐
SYSTEM_SPECIFIC	7.5.3	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency must be >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating is >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency , thermal efficiency must be >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐	☑	☐
2. To be checked by Plan Reviewer						
Plan Review	4.2.2, 5.4.3.1.1, 5.7	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐	☐	☐
Plan Review	4.2.2, 6.4.4.2.1, 6.7.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐	☐	☐
Plan Review	4.2.2, 7.7.1, 10.4.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐	☐	☐
Plan Review	4.2.2, 8.4.1.1, 8.4.1.2, 8.7	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐	☐	☐
Plan Review	4.2.2, 9.4.3, 9.7	Interior Lighting	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.	☐	☐	☐
Plan Review	9.7	Exterior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐	☐	☐

Insulation	5.8.1.7.3	Envelope	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.	☐	☐	☐
Air Leakage	5.4.3.4	Envelope	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are >=7 ft apart (>= 16 ft apart for adjoinging floor area >= 40000 sq.ft.). Vestibule floor area <=7 50 sq.ft. or 2 percent of the adjoining conditioned floor area.	☐	☐	☐
HVAC	6.4.3.4.4	Mechanical	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.	☐	☐	☐
HVAC	6.4.3.8	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐	☐	☐
HVAC	6.4.4.1.4	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐	☐	☐
HVAC	6.5.2.3	Mechanical	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.3.1.3	Mechanical	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.3.5	Mechanical	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.	☐	☐	☐
SYSTEM_SPECIFIC	6.4.3.10	Mechanical	DDC system installed and capable of providing control logic including monitoring zone and system demand for fan pressure, pump pressure, heating, and cooling; transferring zone and system demand information from zones to air distribution system controllers and from air distribution systems to heating and cooling plant controllers; automatically detecting and alerting system operator when zones and systems excessively drive the reset logic; allow operator removal of zone(s) from the reset algorithm; AND capable of trending and graphically displaying input and output points.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.3.2.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure. Controls provide: zone damper monitoring or indicator of static pressure need; autodetection, alarm, and operator override of zones excessively triggering reset logic.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.3.3	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.3.4	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.4.1	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio.	☐	☐	☐
HVAC	6.5.4.2	Mechanical	HVAC pumping systems >10 hp designed for variable fluid flow.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.4.3, 6.5.4.3.1, 6.5.4.3.2	Mechanical	Fluid flow shutdown in pumping systems to multiple chillers or boilers when systems are shut down.	☐	☐	☐

SYSTEM_SPECIFIC	6.5.4.4	Mechanical	Temperature reset by representative building loads in pumping systems >10 hp for chiller and boiler systems >300,000 Btu/h.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.4.5.2	Mechanical	Hydronic heat pumps and water-cooled unitary air conditioners with pump systems >5 hp have controls or devices to reduce pump motor demand.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.4.6	Mechanical	Chilled-water and condenser water piping sized according to design flow rate and total annual hours of operation (Table 6.5.4.6).	☐	☐	☐
SYSTEM_SPECIFIC	6.5.5.2.1	Mechanical	Fan systems with motors >=7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.5.2.2	Mechanical	Multicell heat rejection equipment with variable-speed fan drives installed that operate the maximum number of fans allowed that comply with manufacturers specs and control all fans to the same fan speed required for the instantaneous cooling duty.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.5.2.3	Mechanical	NA	☐	☐	☐
HVAC	6.5.7.1.1	Mechanical	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.	☐	☐	☐
HVAC	6.5.7.1.1	Mechanical	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.7.1.2	Mechanical	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.7.1.3	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation system, or energy recovery requirements shown in Table 6.5.7.1.3.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.7.1.4	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation system, or energy recovery requirements.	☐	☐	☐
HVAC	6.5.7.2	Mechanical	Fume hoods exhaust systems >=5,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.	☐	☐	☐
HVAC	6.5.8.1	Mechanical	Unenclosed spaces that are heated use only radiant heat.	☐	☐	☐
SYSTEM_SPECIFIC	7.5.1	Mechanical	Combined space and water heating system not allowed unless standby loss less than calculated maximum. AHJ has approved or combined connected load <150 kBtu/h.	☐	☐	☐
Controls	8.4.2	Project	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐	☐	☐
Other Equipment	10.4.1	Mechanical	Electric motors meet requirements where applicable.	☐	☐	☐
HVAC	6.4.3.3.2	Mechanical	Setback controls allow automatic restart and temporary operation as required for maintenance.	☐	☐	☐
SYSTEM_SPECIFIC	6.4.3.3.3	Mechanical	Systems with setback controls and DDC include optimum start controls. Optimum start algorithm considers mass radiant slab floor temperature.	☐	☐	☐
SYSTEM_SPECIFIC	6.4.3.3.4	Mechanical	Zone isolation devices and controls.	☐	☐	☐
Wattage	9.4.2	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐	☐	☐

3. To be checked by Inspector

Insulation	5.8.1.7	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐	☐	☐
HVAC	6.4.3.7	Mechanical	Freeze protection and snow/ice melting system sensors for future connection to controls.	☐	☐	☐
Air Leakage	5.4.3.1	Envelope	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.	☐	☐	☐
Air Leakage	5.4.3.2	Envelope	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.	☐	☐	☐
Fenestration	5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5	Envelope	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.	☐	☐	☐
Fenestration	5.8.2.2	Envelope	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.4.1	Mechanical	Temperature controls installed on service water heating systems (<=120Â°F to maximum temperature for intended use).	☐	☐	☐
SYSTEM_SPECIFIC	7.4.4.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.6	Mechanical	Heat traps installed on non-circulating storage water tanks.	☐	☐	☐
HVAC	6.4.1.4, 6.4.1.5	Mechanical	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	☐	☐	☐
SYSTEM_SPECIFIC	6.4.1.5.2	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only.	☐	☐	☐
HVAC	6.4.3.4.1	Mechanical	Stair and elevator shaft vents have motorized dampers that automatically close.	☐	☐	☐
HVAC	6.4.3.4.2, 6.4.3.4.3	Mechanical	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.	☐	☐	☐
HVAC	6.4.3.4.5	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐	☐	☐
HVAC	6.5.3.2.1	Mechanical	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp >= Â¼ designed to vary indoor fan airflow as a function of load and comply with operational requirements.	☐	☐	☐
HVAC	6.4.4.1.1	Mechanical	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.	☐	☐	☐
HVAC	6.4.4.1.2	Mechanical	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	☐	☐	☐
HVAC	6.4.4.1.3	Mechanical	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	☐	☐	☐
HVAC	6.4.4.2.1	Mechanical	Ducts and plenums sealed based on static pressure and location.	☐	☐	☐
SYSTEM_SPECIFIC	6.4.4.2.2	Mechanical	Ductwork operating >3 in. water column requires air leakage testing.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.2.1	Mechanical	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each zone.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.2.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 Â°F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to <=30 Â°F.	☐	☐	☐

HVAC	6.5.2.4.1	Mechanical	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.	☐	☐	☐
HVAC	6.5.2.4.2	Mechanical	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated >= R-0.5.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.3.2.2	Mechanical	VAV fans have static pressure sensors positioned so setpoint <=1.2 in. w.c. design pressure.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.4.5.1	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.6.2	Mechanical	Condenser heat recovery system that can heat water to 85 Å°F or provide 60% of peak heat rejection is installed for preheating of service hot water.	☐	☐	☐
HVAC	6.5.7.1.5	Mechanical	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.	☐	☐	☐
SYSTEM_SPECIFIC	6.5.9	Mechanical	Hot gas bypass limited to: <=240 kBtu/h â€" 15% >240 kBtu/h â€" 10%	☐	☐	☐
HVAC	6.4.3.9	Mechanical	Heating for vestibules and air curtains include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating systems controlled by a thermostat in the vestibule with setpoint <= 60F.	☐	☐	☐
Controls	6.5.10	Mechanical	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.	☐	☐	☐
Controls	9.4.1.1	Interior Lighting	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐	☐	☐
Controls	9.4.1.1	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐	☐	☐
Controls	9.4.1.2	Interior Lighting	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	☐	☐	☐
Controls	9.4.1.1f	Interior Lighting	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐	☐	☐
Controls	9.4.1.4	Exterior Lighting	Automatic lighting controls for exterior lighting installed.	☐	☐	☐
Controls	9.4.1.3	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	☐	☐	☐
Wattage	9.6.2	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐	☐	☐
Wattage	9.6.4	Interior Lighting	Where space LPD requirements are adjusted based on room cavity ratios, dimensions are consistent with approved plans.	☐	☐	☐
Insulation	5.5.3.1	Envelope	Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.	☐	☐	☐
Insulation	5.8.1.2, 5.8.1.3	Envelope	Roof insulation installed per manufacturerâ€™s instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐	☐	☐
Insulation	5.8.1.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.	☐	☐	☐
Insulation	5.8.1.9	Envelope	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.	☐	☐	☐
Insulation	5.8.1.4	Envelope	Eaves are baffled to deflect air to above the insulation.	☐	☐	☐
Insulation	5.8.1.5	Envelope	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.	☐	☐	☐

Insulation	5.8.1.6	Envelope	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.	☐	☐	☐
Insulation	5.8.1.7.1	Envelope	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.	☐	☐	☐
Insulation	5.8.1.7.2	Envelope	Foundation vents do not interfere with insulation.	☐	☐	☐
Insulation	5.8.1.8	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	☐	☐	☐
SYSTEM_SPECIFIC	6.4.3.1.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control.	☐	☐	☐
HVAC	6.4.3.1.2	Mechanical	Thermostatic controls have a 5 Å°F deadband.	☐	☐	☐
HVAC	6.4.3.2	Mechanical	Temperature controls have setpoint overlap restrictions.	☐	☐	☐
HVAC	6.4.3.3.1	Mechanical	HVAC systems equipped with at least one automatic shutdown control.	☐	☐	☐
SYSTEM_SPECIFIC	6.4.3.5	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐	☐	☐
HVAC	6.4.3.6	Mechanical	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	☐	☐	☐
HVAC	6.4.3.6	Mechanical	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.4.3	Mechanical	Public lavatory faucet water temperature <= 110Å °F.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.4.4	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.5.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.5.2	Mechanical	Pool covers are provided for heated pools and pools heated to >90Å°F have a cover >=R-12.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.5.3	Mechanical	Time switches are installed on all pool heaters and pumps.	☐	☐	☐
Wattage	9.2.2.3	Interior Lighting	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.	☐	☐	☐
SYSTEM_SPECIFIC	7.4.3	Mechanical	All piping in circulating system insulated	☐	☐	☐
SYSTEM_SPECIFIC	7.4.3	Mechanical	First 8 ft of outlet piping is insulated	☐	☐	☐
SYSTEM_SPECIFIC	7.4.3	Mechanical	All heat traced or externally heated piping insulated	☐	☐	☐

4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy

Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	☐	☐	☐
Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	☐	☐	☐
Post Construction	6.7.2.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐	☐	☐

Post Construction	6.7.2.2	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐	☐	☐
Post Construction	6.7.2.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	☐	☐	☐
HVAC	6.7.2.4	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐	☐	☐
Post Construction	8.7.1	Interior Lighting	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐	☐	☐
Post Construction	8.7.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐	☐	☐

Input Data Report

Project Information

Project Name: Texas Roadhouse **Project Title:** Texas Roadhosue

Address: 117 NW KNIGHTS AVENUE **State:** Florida **Zip:** 32055

Owner:

Building Type: Dining: Bar Lounge/Leisure **Building Classification:** New Finished building

No.of Stories: 1 **GrossArea (SF):** 7,336

Bldg. Rotation: None

Zones

No	Acronym	Description	Type	Area [sf]	Multi	Total Area [sf]	
1	RTU-5	Zone 1	CONDITIONED	1232.0	1	1232.0	
2	RTU-3	Zone 2	CONDITIONED	2191.0	1	2191.0	
3	RTU-2	Zone 3	CONDITIONED	1502.0	1	1502.0	
4	RTU-4	Zone 1	CONDITIONED	587.0	1	587.0	
5	RTU-1	Zone 6	CONDITIONED	1198.0	1	1198.0	
6	Coolers	RTU-5	UNCONDITIONED	529.0	1	529.0	
7	Storage	RTU-5	UNCONDITIONED	97.0	1	97.0	

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Mult	Total Area [sf]	Total Vol[cf]	
In Zone:	**RTU-5**									
1	PREP KITCHEN	PREP KITCHEN	Food Service - Kitchen	1.00	366.00	9.00	1	366.0	3294.0	☐
2	DISH WASHINC	DISH WAHSING	Food Service - Kitchen	1.00	247.00	9.00	1	247.0	2223.0	☐
3	OFFICE	OFFICE	Office - Enclosed	1.00	76.00	9.00	1	76.0	684.0	☐
4	WALKIN STOR.	WALKIN STORAGE	Storage & Warehouse - Bulky Active Storage	1.00	141.00	9.00	1	141.0	1269.0	☐
5	PICK UP AREA	PICK UP AREA	Food Service - Bar/Lounge	1.00	314.00	9.00	1	314.0	2826.0	☐
6	SERVICE ENTR	RM 19	Corridor	1.00	88.00	9.00	1	88.0	792.0	☐
In Zone:	**RTU-3**									
1	DINING 300	DINING 300	Food Service - Leisure Dining	1.00	855.00	9.00	1	855.0	7695.0	☐
2	BAR	Zo0Sp2	Food Service - Bar/Lounge	1.00	780.00	9.00	1	780.0	7020.0	☐
3	PASSAGE	RM 13	Corridor	185.00	1.00	9.00	1	185.0	1665.0	☐
4	UNISEX	UNISEX	Toilet and Washroom	1.00	47.00	9.00	1	47.0	423.0	☐
5	MENS	MENS	Toilet and Washroom	1.00	115.00	9.00	1	115.0	1035.0	☐
6	WOMENS	WOMENS	Toilet and Washroom	1.00	154.00	9.00	1	154.0	1386.0	☐
7	DRINKING STA	DRINKING STATION	Corridor	1.00	55.00	9.00	1	55.0	495.0	☐
In Zone:	**RTU-2**									
1	DINING 100	DINING 100	Food Service - Leisure Dining	1.00	1502.00	9.00	1	1502.0	13518.0	☐
In Zone:	**RTU-4**									
1	COOKLINE	COOKLINE	Food Service - Kitchen	1.00	457.00	9.00	1	457.0	4113.0	☐
2	DISPLAY BAKE	DISPLAY BAKERY	Food Service - Bar/Lounge	1.00	130.00	9.00	1	130.0	1170.0	☐
In Zone:	**RTU-1**									
1	LOBBY	LOBBY	Lobby (General) - Reception and Waiting	1.00	338.00	9.00	1	338.0	3042.0	☐
2	VESTIBULE	RM 3	Lobby (General) - Reception and Waiting	1.00	164.00	9.00	1	164.0	1476.0	☐
3	WAITING AREA	WAITING AREA	Lobby (General) - Reception and Waiting	1.00	211.00	9.00	1	211.0	1899.0	☐
4	DINING 500	RM 26	Food Service - Leisure Dining	1.00	485.00	9.00	1	485.0	4365.0	☐
In Zone:	**Coolers**									
1	Coolers	Coolers	Storage & Warehouse - Bulky Active Storage	1.00	529.00	10.00	1	529.0	5290.0	☐
In Zone:	**Storage**									
1	Storage	Storage	Storage & Warehouse - Inactive Storage	1.00	97.00	10.00	1	97.0	970.0	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone:	**RTU-5**							
	In Space:	**PREP KITCHEN**						
1	LED	General Lighting	6	50	300	Manual On/Off	1	☐
	In Space:	**DISH WASHING**						
1	LED	General Lighting	6	50	300	Manual On/Off	1	☐
	In Space:	**OFFICE**						
1	LED	General Lighting	1	50	50	Manual On/Off	1	☐
	In Space:	**WALKIN STORAGE**						
1	LED	General Lighting	3	50	150	Manual On/Off	1	☐
	In Space:	**PICK UP AREA**						
1	LED	General Lighting	3	50	150	Manual On/Off	1	☐
2	LED	General Lighting	6	4	24	Manual On/Off	1	☐
	In Space:	**SERVICE ENTRY**						
1	LED	General Lighting	2	50	100	Manual On/Off	1	☐
In Zone:	**RTU-3**							
	In Space:	**DINING 300**						
1	LED	General Lighting	17	4	68	Manual On/Off	2	☐
2	LED	General Lighting	9	9	81	Manual On/Off	1	☐
3	LED	General Lighting	11	9	99	Manual On/Off	1	☐
	In Space:	**BAR**						
1	LED	General Lighting	8	4	32	Manual On/Off	1	☐
2	LED	General Lighting	13	9	117	Manual On/Off	1	☐
3	LED	General Lighting	13	9	117	Manual On/Off	1	☐
	In Space:	**PASSAGE**						
1	LED	General Lighting	10	9	90	Manual On/Off	1	☐
2	LED	General Lighting	4	9	36	Manual On/Off	1	☐
	In Space:	**UNISEX**						
1	LED	General Lighting	4	11	44	Manual On/Off	1	☐
	In Space:	**MENS**						
1	LED	General Lighting	2	10	19	Manual On/Off	1	☐
2	LED	General Lighting	8	9	72	Manual On/Off	1	☐
	In Space:	**WOMENS**						
1	LED	General Lighting	8	9	72	Manual On/Off	1	☐
2	LED	General Lighting	2	10	19	Manual On/Off	1	☐
	In Space:	**DRINKING STATION**						
1	LED	General Lighting	3	11	33	Manual On/Off	1	☐
In Zone:	**RTU-2**							
	In Space:	**DINING 100**						

1	LED	General Lighting	20	9	180	Manual On/Off	1	☐
2	LED	General Lighting	27	4	108	Manual On/Off	4	☐
3	LED	General Lighting	11	9	99	Manual On/Off	2	☐
In Zone: RTU-4								
In Space: COOKLINE								
1	LED	General Lighting	9	50	450	Manual On/Off	1	☐
In Space: DISPLAY BAKERY								
1	LED	General Lighting	8	11	88	Manual On/Off	1	☐
In Zone: RTU-1								
In Space: LOBBY								
1	LED	General Lighting	22	9	198	Manual On/Off	1	☐
In Space: VESTIBULE								
1	LED	General Lighting	4	9	36	Manual On/Off	1	☐
In Space: WAITING AREA								
1	LED	General Lighting	6	9	54	Manual On/Off	1	☐
In Space: DINING 500								
1	LED	General Lighting	9	4	36	Manual On/Off	2	☐
2	LED	General Lighting	2	9	18	Manual On/Off	1	☐
3	LED	General Lighting	4	9	36	Manual On/Off	1	☐
In Zone: Coolers								
In Space: Coolers								
1	LED	General Lighting	1	0	0	Manual On/Off	1	☐
In Zone: Storage								
In Space: Storage								
1	LED	General Lighting	1	0	0	Manual On/Off	1	☐

Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Orientation	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**RTU-5**											
1	NORTH	Walls R-21	7.60	15.80	1	120.1	North	0.0480	2.890	24.90	20.8	☐
2	EAST	Walls R-21	20.40	10.00	1	204.0	East	0.0480	2.890	24.90	20.8	☐
In Zone:	**RTU-3**											
1	WEST	Walls R-21	19.80	10.00	1	198.0	West	0.0480	2.890	24.90	20.8	☐
2	NORTH	Walls R-21	44.80	10.00	1	448.0	North	0.0480	2.890	24.90	20.8	☐
3	NORTH	Walls R-21	18.50	15.80	1	292.3	North	0.0480	2.890	24.90	20.8	☐
In Zone:	**RTU-2**											
1	WEST	Walls R-21	62.60	10.00	1	626.0	West	0.0480	2.890	24.90	20.8	☐
2	NORTH	Walls R-21	2.90	10.00	1	29.0	North	0.0480	2.890	24.90	20.8	☐
3	SOUTH	Walls R-21	2.90	10.00	1	29.0	South	0.0480	2.890	24.90	20.8	☐
In Zone:	**RTU-1**											
1	SOUTH	Walls R-21	43.70	10.00	1	437.0	South	0.0480	2.890	24.90	20.8	☐
2	SOUTH	Walls R-21	28.80	15.80	1	455.0	South	0.0480	2.890	24.90	20.8	☐
3	EAST	Walls R-21	14.60	10.00	1	146.0	East	0.0480	2.890	24.90	20.8	☐
4	WEST	Walls R-21	14.90	10.00	1	149.0	West	0.0480	2.890	24.90	20.8	☐
In Zone:	**Coolers**											
1	East	Walls R-21	49.80	10.00	1	498.0	East	0.0480	2.890	24.90	20.8	☐
2	South	Walls R-21	11.70	10.00	1	117.0	South	0.0480	2.890	24.90	20.8	☐
3	NORTH	Walls R-21	3.90	10.00	1	39.0	North	0.0480	2.890	24.90	20.8	☐
In Zone:	**Storage**											
1	EAST	Walls R-21	11.20	10.00	1	112.0	East	0.0480	2.890	24.90	20.8	☐
2	NORTH	Walls R-21	86.00	10.00	1	860.0	North	0.0480	2.890	24.90	20.8	☐

Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
In Zone: RTU-1											
In Wall: SOUTH											
1	6X4.8	South	No	0.5000	0.50	0.76	6.00	4.80	2	57.6	☐
2	6X9	South	No	0.5000	0.50	0.76	6.00	9.00	1	54.0	☐
1	6X4.8	South	No	0.5000	0.50	0.76	6.00	4.80	2	57.6	☐
In Zone: RTU-2											
In Wall: WEST											
1	7.8X4	West	No	0.5000	0.50	0.76	7.80	4.00	4	124.8	☐
In Zone: RTU-3											
In Wall: NORTH											
1	4.8X6	North	No	0.5000	0.50	0.76	4.80	6.00	2	57.6	☐
In Wall: WEST											
1	WEST	West	No	0.5000	0.50	0.76	7.80	4.00	1	31.2	☐

Doors

No	Description	Type	Shade?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/h.sf.F]	Dens. [lb/cf]	Ht Cap. [Btu/sf. F]	R [h.sf.F/ Btu]	
In Zone:												
In Wall:												☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/h.Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu	
In Zone: RTU-5												
1	ROOF	Roofs R-20	1232.00	1.00	1	1232.0	0.00	0.0500	2.89	24.90	20.0	☐
In Zone: RTU-3												
1	ROOF	Roofs R-20	2000.00	1.00	1	2000.0	0.00	0.0500	2.89	24.90	20.0	☐
2	ROOF	Roofs R-20	191.00	1.00	1	191.0	0.00	0.0500	2.89	24.90	20.0	☐
In Zone: RTU-2												
1	ROOF	Roofs R-20	1502.00	1.00	1	1502.0	0.00	0.0500	2.89	24.90	20.0	☐
In Zone: RTU-4												
1	ROOF	Roofs R-20	587.00	1.00	1	587.0	0.00	0.0500	2.89	24.90	20.0	☐
In Zone: RTU-1												
1	ROOF	Roofs R-20	1198.00	1.00	1	1198.0	0.00	0.0500	2.89	24.90	20.0	☐
In Zone: Coolers												
1	Roof	Roofs R-20	366.00	1.00	1	366.0	0.00	0.0500	2.89	24.90	20.0	☐
In Zone: Storage												
1	Roof	Roofs R-20	97.00	1.00	1	97.0	0.00	0.0500	2.89	24.90	20.0	☐

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multi-plier	Area [Sf]	Total Area [Sf]	
In Zone:											
In Roof:											☐

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/h.sf.F	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu	
In Zone:	**RTU-5**										
1	FLOOR	1 ft. soil, concrete floor, carpet and rubber pad	1232.00	1.00	4	1232.0	0.2681	34.00	113.33	3.73	☐
In Zone:	**RTU-3**										
1	FLOOR	1 ft. soil, concrete floor, carpet and rubber pad	2000.00	1.00	1	2000.0	0.2681	34.00	113.33	3.73	☐
2	FLOOR	1 ft. soil, concrete floor, carpet and rubber pad	191.00	1.00	1	191.0	0.2681	34.00	113.33	3.73	☐
In Zone:	**RTU-2**										
1	FLOOR	1 ft. soil, concrete floor, carpet and rubber pad	1502.00	1.00	1	1502.0	0.2681	34.00	113.33	3.73	☐
In Zone:	**RTU-4**										
1	FLOORS	1 ft. soil, concrete floor, carpet and rubber pad	587.00	1.00	1	587.0	0.2681	34.00	113.33	3.73	☐
In Zone:	**RTU-1**										
1	FLOOR	1 ft. soil, concrete floor, carpet and rubber pad	1198.00	1.00	1	1198.0	0.2681	34.00	113.33	3.73	☐
In Zone:	**Coolers**										
1	Floor	Roofs R-20	366.00	1.00	1	366.0	0.0500	2.89	24.90	20.00	☐
In Zone:	**Storage**										
1	Floor	1 ft. soil, concrete floor, carpet and rubber pad	97.00	1.00	1	97.0	0.2681	34.00	113.33	3.73	☐

Systems

RTU-1	**RTU-1**	**Constant Volume Packaged System--902**	**No. Of Units** 1

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	119000.00	12.00	13.00	☐
2	Heating System	250000.00	90.00		☐
3	Air Handling System -Supply	3850.00	0.40		☐

RTU-2	**RTU-2**	**Constant Volume Packaged System--902**	**No. Of Units** 1

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	199220.00	12.00	13.00	☐
2	Heating System	350000.00	90.00		☐
3	Air Handling System -Supply	6000.00	0.40		☐

RTU-3	**RTU-3**	**Constant Volume Packaged System--902**	**No. Of Units** 1

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	199222.00	12.00	13.00	☐
2	Heating System	350000.00	90.00		☐
3	Air Handling System -Supply	6000.00	0.40		☐

RTU-4	**RTU-4**	**Constant Volume Packaged System--902**	**No. Of Units** 1

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	263610.00	12.00	13.00	☐
2	Heating System	650000.00	90.00		☐
3	Air Handling System -Supply	6000.00	0.40		☐

RTU-5	**RTU-5**	**Constant Volume Packaged System--902**	**No. Of Units** 1

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	199222.00	12.00	13.00	☐
2	Heating System	350000.00	90.00		☐
3	Air Handling System -Supply	6000.00	0.40		☐

Plant

Equipment	Category	Size	Inst.NoEff.	IPLV

Water Heaters

W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency	Loss

Ext-Lighting

	Description	Category	No. of Lumin-aires	Watts per Lumin-aire	Area/Len/No [sf/ft/No]	Control Type	Wattage [W]
1	Ext Light 1	Main entries	2	12	11.00	Photo Sensor control	24.00
2	Ext Light 2	Plaza Areas	40	12	363.00	Photo Sensor control	480.00

Piping

No	Type	Operating Temp [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
1	Domestic and Service Hot Water Systems	105.00	0.28	0.25	1.00	Yes

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
Windows	User Defined	1	0.5000	0.5000	0.7600

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thick [ft]	Cond-uctivity [Btu/h.ft.F	Density [lb/cf]	Sp. Heat [Btu/lb.F]	
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	☐
48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.27	34.00	113.33	3.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	265	Soil, 1 ft	1.0000	0.000	☐
2	48	6 in. Heavyweight concrete	0.5000	0.000	☐
3	178	CARPET W/RUBBER PAD		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1060	Walls R-21	Yes	No	0.05	2.89	24.90	20.8	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1061	Roofs R-20	Yes	No	0.05	2.89	24.90	20.0	☐

Air Handler #1 - RTU-1 - Total Load Summary

Air Handler Description:	RTU-1 Constant Volume - Proportion
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.14 HP
Fan Input:	90% motor and fan efficiency with 0.5 in. water across the fan
Sensible Heat Ratio:	0.69 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time:	2pm in August.
Outdoor Conditions:	Clg: 91° DB, 77° WB, 117.61 grains, Htg: 33° DB
Indoor Conditions:	Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	8,933 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	40,602 Btuh	900 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			49,535 Btuh
Heating Supply Air: 8,933 / (.995 X 1.08 X 9) =		900 CFM	
Winter Vent Outside Air (100.0% of supply) =		900 CFM	
Room space sensible gain:	35,556 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	362 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			35,919 Btuh
Cooling Supply Air: 35,919 / (.995 X 1.1 X 20) =		1,642 CFM	
Summer Vent Outside Air (54.8% of supply) =		900 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	15,754 Btuh	900 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			15,754 Btuh
Total sensible gain on air handling system:			51,672 Btuh
Room space latent gain:	15,840 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	32,462 Btuh		
Total latent gain on air handling system:			48,302 Btuh
Total system sensible and latent gain:			99,975 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	1,642	CFM
Total Air Handler Vent. Air (54.83% of Supply):	900	CFM
Total Conditioned Air Space:	1,198	Sq.ft
Supply Air Per Unit Area:	1.3703	CFM/Sq.ft
Area Per Cooling Capacity:	143.8	Sq.ft/Ton
Cooling Capacity Per Area:	0.0070	Tons/Sq.ft
Heating Capacity Per Area:	41.35	Btuh/Sq.ft
Total Heating Required With Outside Air:	49,535	Btuh
Total Cooling Required With Outside Air:	8.33	Tons

Air Handler #2 - RTU-2 - Total Load Summary

Air Handler Description:	RTU-2 Constant Volume - Proportion
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.21 HP
Fan Input:	90% motor and fan efficiency with 0.5 in. water across the fan
Sensible Heat Ratio:	0.68 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 90° DB, 77° WB, 119.76 grains, Htg: 33° DB
Indoor Conditions:	Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	8,025 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	63,158 Btuh	1,400 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			71,183 Btuh
Heating Supply Air: 8,025 / (.995 X 1.08 X 5) =		1,400 CFM	
Winter Vent Outside Air (100.0% of supply) =		1,400 CFM	
Room space sensible gain:	52,601 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	536 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			53,137 Btuh
Cooling Supply Air: 53,137 / (.995 X 1.1 X 20) =		2,429 CFM	
Summer Vent Outside Air (57.6% of supply) =		1,400 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	22,974 Btuh	1,400 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			22,974 Btuh
Total sensible gain on air handling system:			76,111 Btuh
Room space latent gain:	24,640 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	52,047 Btuh		
Total latent gain on air handling system:			76,687 Btuh
Total system sensible and latent gain:			152,798 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	2,429	CFM
Total Air Handler Vent. Air (57.65% of Supply):	1,400	CFM
Total Conditioned Air Space:	1,689	Sq.ft
Supply Air Per Unit Area:	1.4379	CFM/Sq.ft
Area Per Cooling Capacity:	132.6	Sq.ft/Ton
Cooling Capacity Per Area:	0.0075	Tons/Sq.ft
Heating Capacity Per Area:	42.14	Btuh/Sq.ft
Total Heating Required With Outside Air:	71,183	Btuh
Total Cooling Required With Outside Air:	12.73	Tons

Air Handler #3 - RTU-3 - Total Load Summary

Air Handler Description:	RTU-3 Constant Volume - Proportion
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.22 HP
Fan Input:	90% motor and fan efficiency with 0.5 in. water across the fan
Sensible Heat Ratio:	0.69 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time:	4pm in August.
Outdoor Conditions:	Clg: 91° DB, 77° WB, 117.61 grains, Htg: 33° DB
Indoor Conditions:	Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	9,013	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	63,158	Btuh	1,400	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				72,171 Btuh
Heating Supply Air: 9,013 / (.995 X 1.08 X 6) =			1,400	CFM
Winter Vent Outside Air (100.0% of supply) =			1,400	CFM
Room space sensible gain:	55,467	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	565	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				56,032 Btuh
Cooling Supply Air: 56,032 / (.995 X 1.1 X 20) =			2,561	CFM
Summer Vent Outside Air (54.7% of supply) =			1,400	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	24,506	Btuh	1,400	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				24,506 Btuh
Total sensible gain on air handling system:				80,537 Btuh
Room space latent gain:	24,640	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	50,497	Btuh		
Total latent gain on air handling system:				75,137 Btuh
Total system sensible and latent gain:				155,674 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	2,561	CFM
Total Air Handler Vent. Air (54.67% of Supply):	1,400	CFM
Total Conditioned Air Space:	2,198	Sq.ft
Supply Air Per Unit Area:	1.1651	CFM/Sq.ft
Area Per Cooling Capacity:	169.4	Sq.ft/Ton
Cooling Capacity Per Area:	0.0059	Tons/Sq.ft
Heating Capacity Per Area:	32.83	Btuh/Sq.ft
Total Heating Required With Outside Air:	72,171	Btuh
Total Cooling Required With Outside Air:	12.97	Tons

Air Handler #5 - RTU-5 - Total Load Summary

Air Handler Description:	RTU-5 Constant Volume - Proportion
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.32 HP
Fan Input:	90% motor and fan efficiency with 0.5 in. water across the fan
Sensible Heat Ratio:	0.95 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	3pm in August.
Outdoor Conditions:	Clg: 92° DB, 77° WB, 116.70 grains, Htg: 33° DB
Indoor Conditions:	Clg: 75° DB, 50% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	4,921	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	63,158	Btuh	1,400	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				68,079 Btuh
Heating Supply Air: 4,921 / (.995 X 1.08 X 3) =			1,400	CFM
Winter Vent Outside Air (100.0% of supply) =			1,400	CFM
Room space sensible gain:	80,295	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	818	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				81,113 Btuh
Cooling Supply Air: 81,113 / (.995 X 1.1 X 20) =			3,707	CFM
Summer Vent Outside Air (37.8% of supply) =			1,400	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	26,037	Btuh	1,400	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				26,037 Btuh
Total sensible gain on air handling system:				107,150 Btuh
Room space latent gain:	4,180	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	48,948	Btuh		
Total latent gain on air handling system:				53,128 Btuh
Total system sensible and latent gain:				160,279 Btuh

Check Figures

Total Air Handler Supply Air (based on a 20° TD):	3,707	CFM
Total Air Handler Vent. Air (37.77% of Supply):	1,400	CFM
Total Conditioned Air Space:	1,819	Sq.ft
Supply Air Per Unit Area:	2.0380	CFM/Sq.ft
Area Per Cooling Capacity:	136.2	Sq.ft/Ton
Cooling Capacity Per Area:	0.0073	Tons/Sq.ft
Heating Capacity Per Area:	37.43	Btuh/Sq.ft
Total Heating Required With Outside Air:	68,079	Btuh
Total Cooling Required With Outside Air:	13.36	Tons

Building:	TRH LAKE CITY
System Tag/Name:	RTU-1
Operating Condition Description:	ASHRAE 62.1 OUTSIDE AIR CALCULATIONS
Units (select from pull-down list)	IP

Inputs for System	Name	Units	w/o diversity System		Diversity	w/ diversity System
Floor area served by system	As	sf	1198			
Population of area served by system	Ps	P	72	D	100%	72
Design primary supply fan airflow rate	Vpsd	cfm	1,642	D	100%	1,642
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.11			
OA req'd per person for system area (Weighted average)	Rps	cfm/p	6.3			
Outdoor air intake provided for system	OA	cfm				

Inputs for Potentially Critical zones								
Zone Name	*Zone title turns purple italic for critical zone(s)*			**Vestibule**	**Waiting**	**Lobby**	***Dining Area 500***	-
Zone Tag				1	2	3	4	-
Occupancy Category		Select from pull-down list:		**Lobbies**	**Lobbies**	**Lobbies**	**Restaurant dining rooms**	**Corridors**
Floor Area of zone	Az	sf		164	211	338	485	0
Design population of zone	Pz	P	(default value listed; may be overridden)	6	18	10	38	0
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm		244	420	225	753	0
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?		Select from pull-down list or leave blank if N/A:						
Frac. of local recirc. air that is representative of system RA	Er							
Inputs for Operating Condition Analyzed								
Percent of total design airflow rate at conditioned analyzed	Ds	%	100%	100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed		Select from pull-down list:		CS	CS	CS	CS	CS
Zone air distribution effectiveness at conditioned analyzed	Ez			1.00	1.00	1.00	1.00	1.00
Primary air fraction of supply air at conditioned analyzed	Ep							

Results of Minimum ASHRAE 62.1 Ventilation Rate Procedure (EQp1)			
System Ventilation Efficiency	Ev		**0.86**
Outdoor air intake required for system (EQp1)	Vot	cfm	**679**
Outdoor air per unit floor area	Vot/As	cfm/sf	**0.57**
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	**9.4**
Outdoor air as a % of design primary supply air	Ypd	%	**41%**

Results of 30% Increase beyond ASHRAE 62.1 Ventilation Rate Procedure (EQc2)			
System Ventilation Efficiency with 30% increase (EQc2)	Evz30		**0.82**
Outdoor air intake required for system with 30% increase (EQc2)	Vot30	cfm	**927**
Outdoor air per unit floor area for system with 30% increase (EQc2)	Vot30/As	cfm/sf	**0.77**
Outdoor air per person served by system (including diversity) (EQc2)	Vot30/Ps	cfm/p	**12.9**
Outdoor air as a % of design primary supply air (EQc2)	Ypd30	%	**56%**

Building:	TRH LAKE CITY											
System Tag/Name:	RTU-2											
Operating Condition Description:	ASHRAE 62.1 OUTSIDE AIR CALCULATIONS											
Units (select from pull-down list)	IP											
			w/o diversity			w/ diversity						
Inputs for System	**Name**	**Units**	**System**		**Diversity**	**System**						
Floor area served by system	As	sf	1689									
Population of area served by system	*Ps*	P	112	*D*	100%	112						
Design primary supply fan airflow rate	Vpsd	cfm	2,427	*D*	100%	2,427						
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.18									
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.5									
Outdoor air intake provided for system	OA	cfm										
Inputs for Potentially Critical zones												
Zone Name							**Dining 100-1**	***Dining 100-2***	**Dining 100-3**	**Dining 200-1**	**Dining 200-2**	
			Zone title turns purple italic for critical zone(s)									
Zone Tag							**5**	**6**	**7**	**8**	**9**	
Occupancy Category			Select from pull-down list:				**Restaurant dining rooms**	**Restaurant dining rooms**	**Restaurant dining rooms**	**Restaurant dining rooms**	**Restaurant dining rooms**	
Floor Area of zone	*Az*	sf					187	139	379	588	396	
Design population of zone	*Pz*	P	(default value listed; may be overridden)				16	8	20	48	20	
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm					256	141	487	1,151	392	
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:									
Frac. of local recirc. air that is representative of system RA	*Er*											
Inputs for Operating Condition Analyzed												
Percent of total design airflow rate at conditioned analyzed	Ds	%				100%	100%	100%	100%	100%	100%	
Air distribution type at conditioned analyzed			Select from pull-down list:				CS	CS	CS	CS	CS	
Zone air distribution effectiveness at conditioned analyzed	*Ez*						1.00	1.00	1.00	1.00	1.00	
Primary air fraction of supply air at conditioned analyzed	*Ep*											
Results of Minimum ASHRAE 62.1 Ventilation Rate Procedure (EQp1)												
System Ventilation Efficiency	*Ev*					**0.87**						
Outdoor air intake required for system (EQp1)	*Vot*	cfm				**1,317**						
Outdoor air per unit floor area	*Vot*/As	cfm/sf				**0.78**						
Outdoor air per person served by system (including diversity)	*Vot*/Ps	cfm/p				**11.8**						
Outdoor air as a % of design primary supply air	Ypd	%				**54%**						
Results of 30% increase beyond ASHRAE 62.1 Ventilation Rate Procedure (EQc2)												
System Ventilation Efficiency with 30% increase (EQc2)	*Evz30*					**0.83**						
Outdoor air intake required for system with 30% increase (EQc2)	*Vot30*	cfm				**1,794**						
Outdoor air per unit floor area for system with 30% increase (EQc2)	*Vot30*/As	cfm/sf				**1.06**						
Outdoor air per person served by system (including diversity) (EQc2)	*Vot30*/Ps	cfm/p				**16.0**						
Outdoor air as a % of design primary supply air (EQc2)	Ypd30	%				**74%**						

Building:	TRH LAKE CITY
System Tag/Name:	RTU-3
Operating Condition Description:	ASHRAE 62.1 OUTSIDE AIR CALCULATIONS
Units (select from pull-down list)	IP

Inputs for System	Name	Units	w/o diversity System		Diversity	w/ diversity System
Floor area served by system	As	sf	2198			
Population of area served by system	Ps	P	112	D	100%	112
Design primary supply fan airflow rate	Vpsd	cfm	2,561	D	100%	2,561
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.15			
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.5			
Outdoor air intake provided for system	OA	cfm				

Inputs for Potentially Critical zones									
Zone Name						Dining 300-1	Dining 300-2	*Dining 300-3*	Bar/Lounge	Passage
			Zone title turns purple italic for critical zone(s)							
Zone Tag						10	11	12	13	14
Occupancy Category						Restaurant dining rooms	Restaurant dining rooms	Restaurant dining rooms	Bars, cocktail lounges	Corridors
			Select from pull-down list:							
Floor Area of zone	Az	sf				375	270	210	780	192
Design population of zone	Pz	P	(default value listed; may be overridden)			20	24	18	50	0
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm				545	417	288	1,115	57
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?		Select from pull-down list or leave blank if N/A:								
Frac. of local recirc. air that is representative of system RA	Er									
Inputs for Operating Condition Analyzed										
Percent of total design airflow rate at conditioned analyzed	Ds	%			100%	100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed		Select from pull-down list:				CS	CS	CS	CS	CS
Zone air distribution effectiveness at conditioned analyzed	Ez					1.00	1.00	1.00	1.00	1.00
Primary air fraction of supply air at conditioned analyzed	Ep									

Results of Minimum ASHRAE 62.1 Ventilation Rate Procedure (EQp1)			
System Ventilation Efficiency	Ev		0.86
Outdoor air intake required for system (EQp1)	Vot	cfm	1,364
Outdoor air per unit floor area	Vot/As	cfm/sf	0.62
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	12.2
Outdoor air as a % of design primary supply air	Ypd	%	53%

Results of 30% Increase beyond ASHRAE 62.1 Ventilation Rate Procedure (EQc2)			
System Ventilation Efficiency with 30% increase (EQc2)	Evz30		0.81
Outdoor air intake required for system with 30% increase (EQc2)	Vot30	cfm	1,868
Outdoor air per unit floor area for system with 30% increase (EQc2)	Vot30/As	cfm/sf	0.85
Outdoor air per person served by system (including diversity) (EQc2)	Vot30/Ps	cfm/p	16.7
Outdoor air as a % of design primary supply air (EQc2)	Ypd30	%	73%

Building:	TRH LAKE CITY
System Tag/Name:	RTU-3
Operating Condition Description:	ASHRAE 62.1 OUTSIDE AIR CALCULATIONS
Units (select from pull-down list)	IP

Inputs for System	Name	Units	w/o diversity System		Diversity	w/ diversity System
Floor area served by system	As	sf	2198			
Population of area served by system	Ps	P	112	D	100%	112
Design primary supply fan airflow rate	Vpsd	cfm	2,561	D	100%	2,561
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.15			
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.5			
Outdoor air intake provided for system	OA	cfm				

Inputs for Potentially Critical zones								
Zone Name				Unisex	Mens	Womens	Drink Station	-
			Zone title turns purple italic for critical zone(s)					
Zone Tag				15	16	17	18	-
Occupancy Category				Occupiable storage rooms for dry materials	Occupiable storage rooms for dry materials	Occupiable storage rooms for dry materials	Corridors	Corridors
			Select from pull-down list:					
Floor Area of zone	Az	sf		47	115	154	55	0
Design population of zone	Pz	P	(default value listed; may be overridden)	0	0	0	0	0
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm		14	40	44	41	0
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:					
Frac. of local recirc. air that is representative of system RA	Er							
Inputs for Operating Condition Analyzed								
Percent of total design airflow rate at conditioned analyzed	Ds	%		100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed			Select from pull-down list:	CS	CS	CS	CS	CS
Zone air distribution effectiveness at conditioned analyzed	Ez			1.00	1.00	1.00	1.00	1.00
Primary air fraction of supply air at conditioned analyzed	Ep							

Results of Minimum ASHRAE 62.1 Ventilation Rate Procedure (EQp1)			
System Ventilation Efficiency	Ev		0.86
Outdoor air intake required for system (EQp1)	Vot	cfm	1,364
Outdoor air per unit floor area	Vot/As	cfm/sf	0.62
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	12.2
Outdoor air as a % of design primary supply air	Ypd	%	53%

Results of 30% Increase beyond ASHRAE 62.1 Ventilation Rate Procedure (EQc2)			
System Ventilation Efficiency with 30% increase (EQc2)	Evz30		0.81
Outdoor air intake required for system with 30% increase (EQc2)	Vot30	cfm	1,868
Outdoor air per unit floor area for system with 30% increase (EQc2)	Vot30/As	cfm/sf	0.85
Outdoor air per person served by system (including diversity) (EQc2)	Vot30/Ps	cfm/p	16.7
Outdoor air as a % of design primary supply air (EQc2)	Ypd30	%	73%

Building:	TRH LAKE CITY
System Tag/Name:	RTU-5
Operating Condition Description:	ASHRAE 62.1 OUTSIDE AIR CALCULATIONS
Units (select from pull-down list)	IP

Inputs for System	Name	Units	w/o diversity System		Diversity	w/ diversity System
Floor area served by system	As	sf	1819			
Population of area served by system	Ps	P	19	D	100%	19
Design primary supply fan airflow rate	Vpsd	cfm	3,707	D	100%	3,707
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.11			
OA req'd per person for system area (Weighted average)	Rps	cfm/p	7.1			
Outdoor air intake provided for system	OA	cfm				

Inputs for Potentially Critical zones									
Zone Name						Pick Up Area	*Display Bakery*	Dish Washing	Cookline	Prep-Kitchen
			Zone title turns purple italic for critical zone(s)							
Zone Tag						19	20	21	22	23
Occupancy Category			Select from pull-down list:			Kitchen (cooking)	Kitchen (cooking)	Multipurpose assembly	Kitchen (cooking)	Kitchen (cooking)
Floor Area of zone	Az	sf				314	130	247	457	366
Design population of zone	Pz	P	(default value listed; may be overridden)			4	2	2	5	5
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm				437	181	756	1,228	721
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:							
Frac. of local recirc. air that is representative of system RA	Er									
Inputs for Operating Condition Analyzed										
Percent of total design airflow rate at conditioned analyzed	Ds	%			100%	100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed			Select from pull-down list:			CS	CS	CS	CS	CS
Zone air distribution effectiveness at conditioned analyzed	Ez					1.00	1.00	1.00	1.00	1.00
Primary air fraction of supply air at conditioned analyzed	Ep									

Results of Minimum ASHRAE 62.1 Ventilation Rate Procedure (EQp1)			
System Ventilation Efficiency	Ev		0.92
Outdoor air intake required for system (EQp1)	Vot	cfm	357
Outdoor air per unit floor area	Vot/As	cfm/sf	0.20
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	18.8
Outdoor air as a % of design primary supply air	Ypd	%	10%

Results of 30% increase beyond ASHRAE 62.1 Ventilation Rate Procedure (EQc2)			
System Ventilation Efficiency with 30% increase (EQc2)	Evz30		0.90
Outdoor air intake required for system with 30% increase (EQc2)	Vot30	cfm	477
Outdoor air per unit floor area for system with 30% increase (EQc2)	Vot30/As	cfm/sf	0.26
Outdoor air per person served by system (including diversity) (EQc2)	Vot30/Ps	cfm/p	25.1
Outdoor air as a % of design primary supply air (EQc2)	Ypd30	%	13%

Building:	TRH LAKE CITY															
System Tag/Name:	RTU-5															
Operating Condition Description:	ASHRAE 62.1 OUTSIDE AIR CALCULATIONS															
Units (select from pull-down list)	IP															
				w/o diversity			w/ diversity									
Inputs for System	**Name**	**Units**	**System**		**Diversity**		**System**									
Floor area served by system	**As**	sf	1819													
Population of area served by system	***Ps***	P	19	*D*	100%		19									
Design primary supply fan airflow rate	**Vpsd**	cfm	3,707	*D*	100%		3,707									
OA req'd per unit area for system (Weighted average)	**Ras**	cfm/sf	0.11													
OA req'd per person for system area (Weighted average)	**Rps**	cfm/p	7.1													
Outdoor air intake provided for system	**OA**	cfm														
Inputs for Potentially Critical zones																
Zone Name			*Zone title turns purple italic for critical zone(s)*									**Walkin Storage**	**Service Entry**	**Office**	-	-
Zone Tag												**24**	**25**	**26**	-	-
Occupancy Category			Select from pull-down list:									**Storage rooms**	**Corridors**	**Office space**	**Corridors**	**Corridors**
Floor Area of zone	***Az***	sf										141	88	76	0	0
Design population of zone	***Pz***	P	(default value listed; may be overridden)									0	0	1	0	0
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm										266	33	85	0	0
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:													
Frac. of local recirc. air that is representative of system RA	*Er*															
Inputs for Operating Condition Analyzed																
Percent of total design airflow rate at conditioned analyzed	**Ds**	%					100%					100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed			Select from pull-down list:									CS	CS	CS	CS	CS
Zone air distribution effectiveness at conditioned analyzed	***Ez***											1.00	1.00	1.00	1.00	1.00
Primary air fraction of supply air at conditioned analyzed	*Ep*															
Results of Minimum ASHRAE 62.1 Ventilation Rate Procedure (EQp1)																
System Ventilation Efficiency	***Ev***						**0.92**									
Outdoor air intake required for system (EQp1)	***Vot***	cfm					**357**									
Outdoor air per unit floor area	***Vot*/As**	cfm/sf					**0.20**									
Outdoor air per person served by system (including diversity)	***Vot*/Ps**	cfm/p					**18.8**									
Outdoor air as a % of design primary supply air	Ypd	%					**10%**									
Results of 30% increase beyond ASHRAE 62.1 Ventilation Rate Procedure (EQc2)																
System Ventilation Efficiency with 30% increase (EQc2)	*Evz30*						**0.90**									
Outdoor air intake required for system with 30% increase (EQc2)	*Vot30*	cfm					**477**									
Outdoor air per unit floor area for system with 30% increase (EQc2)	*Vot30*/As	cfm/sf					**0.26**									
Outdoor air per person served by system (including diversity) (EQc2)	*Vot30*/Ps	cfm/p					**25.1**									
Outdoor air as a % of design primary supply air (EQc2)	Ypd30	%					**13%**									