

received  
12-4-13



### City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

### PERMIT EXTENSION

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Date: 12/4/13

Permit Number: 2012-04-077  
Original Permit Number Issued

Contact Name megan or mike Phone: 863-858-2577

Project Address 5066 s conway rd Belle Isle, FL  32809  32812

Reason for Extension We have finished 11 failed inspections and need to have the permit finalized.

Notice of Commencement Expiration Date \_\_\_\_\_ (if applicable)

FBC 105.4.1.1 "If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work."

The City of Belle Isle issues this extension in place of a new permit.

**EXTENSION IS GOOD FOR 90 DAYS FROM ISSUANCE!**



Date \_\_\_\_\_ Finalized/Inspected by: \_\_\_\_\_

Fee: \$ <u>264<sup>00</sup></u>	Cash/Check #: <u>via 5163</u>	Date Rec'd: <u>12-12-13</u>	Rec'd By: <u>ecg</u>
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To schedule an inspection please email your request to: [BDscheduling@UniversalEngineering.com](mailto:BDscheduling@UniversalEngineering.com)

PROJECT NUMBER 0115.1300792.0000

TASK NUMBER 01

CITY OF BELLE ISLE  
Permit Application Review Sheet

Permit Number	2012-04-077
Property Owner	Belle Isle Commons
Address	5066 S. Conway Road
Nature of Improvement	Extension: mechanical
Received Application	12-4-13
Sent for Stormwater Review	
Stormwater Approved	
Sent for Zoning Review	
Zoning Approved	
Applied for Variance	
Variance Approved	
Sent to BO for Review	12-4-13
Building Official Approved	12-10-2013
Comments	
1.	12-10-13 cq emailed megan it's ready
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	



# City of Belle Isle

1600 Nela Avenue, Belle Isle, FL 32809  
Tel 407-851-7730 \* Fax 407-240-2222 \* [www.cityofbelleislefl.org](http://www.cityofbelleislefl.org)

## PERMIT EXTENSION

**WARNING TO OWNER:** YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Date: 01/31/2013

Permit Number: **2012-04-077**  
Original Permit Number Issued

Contact Name Megan ~ Thorpe Heating & A/C

Phone: 863-858-2577, ext.2

Project Address 5066 S. Conway Road, Belle Isle

Parcel ID 0000

Extension Request To allow for final mechanical inspection; failed on 07/24/12 and permit expired.

FBC 105.4.1.1 "If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work."

The City of Belle Isle issues this extension in place of a new permit.

**EXTENSION IS GOOD FOR 90 DAYS FROM ISSUANCE!**

Date \_\_\_\_\_ Finalized/Inspected by: \_\_\_\_\_

Fee: \$31.00

Cash/Check #: CC 9683412 Date Rec'd: 1-31-13

CITY OF BELLE ISLE  
BUILDING DEPARTMENT  
RCD Colleen Gust

Not valid unless stamped & signed by Belle Isle

**RETAIN A COPY FOR OFFICE USE AND RETURN ORIGINAL TO APPLICANT**

**Updated: 08-2012**

schedule an inspection please email your request to: [BIDScheduling@UniversalEngineering.com](mailto:BIDScheduling@UniversalEngineering.com)



# City of Belle Isle

1600 Nela Avenue, Belle Isle, FL 32809 \* Tel 407-851-7730 \* Fax 407-240-2222 \* [www.cityofbelleislefl.org](http://www.cityofbelleislefl.org)

## PERMIT

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

**"NOTICE** in addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies." The issuance of this permit does not grant permission to violate any applicable Town, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Electrical, Plumbing and Mechanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after commencement. **WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD.** PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE, FLORIDA.

<b>Project Information:</b>  <b>Scope of Work</b> MECHANICAL: HVAC, 4 rooftop units <b>**Need separate permit for electrical &amp; fire alarm wiring**</b> <b>Address</b> 5066 S. Conway Road, Belle Isle <b>Parcel ID</b> 17-23-30-0000-00-065 <b>Property Owner</b> La Petite Academy <b>Phone</b> 407-855-4377  <b>Contractor</b> THORPE HEATING & COOLING INC <b>Name</b> Charles Thorpe <b>License Number</b> CAC026424 <b>Address</b> 8402 Hwy 98 N., Lakeland <b>Phone Number</b> 863-858-2577	<p style="text-align: right;"><b>Permit Number: 2012-04-077</b></p> <p><b>Date of Application</b> <u>04/20/2012</u>  <b>Date Permit Issued</b> <u>04/24/2012</u></p> <p><b>WARNING TO OWNER:</b> "YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT." POST IN A CONSPICUOUS PLACE. ON THE JOB INSPECTION MUST BE MADE BEFORE PROCEEDING WITH SUBSEQUENT WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND BE PROTECTED FROM THE WEATHER WHILE BEING VISIBLE FROM THE STREET UNTIL THE FINAL INSPECTIONS HAVE BEEN APPROVED.</p>
--	---

### BUILDING FEATURES

<b>Flood Plain Permit</b> _____	
<b>Zoning Classification</b> _____	
<b>IMPACT FEES</b>	
School _____	
Traffic _____	
<b>CITY OF BELLE ISLE - ZONING FEES</b>	
Zoning Fee _____	
Tree Removal _____	
Fence _____	
<b>UNIVERSAL ENG - BUILDING FEES</b>	
Early Start _____	
Building Fee _____	
Cert of Occupancy _____	
Prepower _____	
Electrical Fee _____	
Temp Pole _____	
Plumbing Fee _____	
Mechanical Fee _____	528.00
Gas Fee _____	
Revision Fee _____	
Roofing _____	
<b>SURCHARGE FEES</b>	
Surcharge Fee _____	15.84
<b>TOTAL FEES</b> _____	543.84
<b>Date Paid</b> <u>6-1-12</u>	
<b>Check #</b> <u>14973</u>	

### BUILDING INSPECTOR USE ONLY

**BUILDING/ROOFING**

ROOFING Dry-in/Flashing \_\_\_\_\_

ROOFING Other /FINAL \_\_\_\_\_

1<sup>st</sup> \_\_\_\_\_ (Footing/Foundation)

**Survey specific foundation plan must be submitted and approved by the City before slab pour Approved Plan on Site** \_\_\_\_\_

2<sup>nd</sup> \_\_\_\_\_ (Slab)

3<sup>rd</sup> \_\_\_\_\_ (Lintel)(Wall Reinforcing on Masonry Building)

4<sup>th</sup> \_\_\_\_\_ (Exterior Framing)(Roof/Wall Sheathing)

5<sup>th</sup> \_\_\_\_\_ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)

6<sup>th</sup> \_\_\_\_\_ (Insulation to be Made After Roof Installed)

7<sup>th</sup> \_\_\_\_\_ (Sidewalk/Driveway)

8<sup>th</sup> \_\_\_\_\_ (Other)

9<sup>th</sup> \_\_\_\_\_ (Final to be Made After Plumbing/ Mechanical/ Electric Finals)

**PLUMBING (INCL--Pool-Piping, Solar, Irrigation and Water Treatment Equip.)**

1<sup>ST</sup> \_\_\_\_\_ (Underground)      2<sup>nd</sup> \_\_\_\_\_ (Sewer)

3<sup>rd</sup> \_\_\_\_\_ (Rough-In/Tub Set)      4<sup>th</sup> \_\_\_\_\_ (Final)

**CHECK APPROPRIATE BOX**

GAS  Natural  LP     HOOD VENTILATION     REFRIGERATION

MECHANICAL     ELECTRICAL     LOW VOLTAGE

1<sup>st</sup> \_\_\_\_\_ (Rough-In)      2<sup>nd</sup> \_\_\_\_\_ (Final)

The person accepting the listed permit shall conform to the terms of the applications on file in the City Office and construction shall conform to the requirements of the FI Building Codes. To schedule an inspection please email your request to: [BIOScheduling@UniversalEngineering.com](mailto:BIOScheduling@UniversalEngineering.com) a confirmation email reply will follow. **24 HOUR NOTICE REQUIRED FOR INSPECTION.** Please include the following in your request Permit #, current date, project address & lot number, the builder name, the date of the inspection, a contact name & phone number for someone on site should our inspector need to reach them, requested time frame of inspection -A.M. or P.M.

**CITY OF BELLE ISLE**  
**BUILDING DEPARTMENT**  
RCD. *Colena Gast*

Updated: 10/01/2011 - FORM #PERMIT001



### City of Belle Isle

1600 Nela Avenue, Belle Isle, FL 32809  
Tel 407-851-7730 \* Fax 407-240-2222 \* [www.cityofbelleislefl.org](http://www.cityofbelleislefl.org)

## APPLICATION FOR MECHANICAL PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

173

DATE: 4/20/12

PERMIT NUMBER 2012-04-077

PLEASE PRINT: The undersigned hereby applies for a permit to make mechanical installations as indicated below on property.

Project Address 5066 S Conway Rd Belle Isle FL 32809  32812

Property Owner La Petite Academy Phone 407-855-4377

Property Owner's Mailing Address P.O. Box 568821  
Tax I.D. Number: Section 17 Township 23 Range 30 Sub 000000 B&L 065  
Legal Description: Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_

Class of Building: Old  New   
Type of Work: New  Alteration   
Type of Building:  Commercial Addition  Other Repair  Residential

- REQUIRED TIE DOWN ENGINEERING
- ADDING A/C TO NEW SPACE - ENERGY CALCULATIONS ARE REQUIRED

Please indicate the nature of work by completing the information below:

Air Conditioning: # of Units 4 Tons Per Unit 5+5+4+3 Total Tons 17  
 Type of System: Water to Air \_\_\_\_\_ Chiller \_\_\_\_\_ Split System  Package  Heat Pump \_\_\_\_\_  
 Heating: # of Units, KWS Per Unit 7.5 Total KWS \_\_\_\_\_ BTU's 204,000  
 Oil \_\_\_\_\_ Electric \_\_\_\_\_ Boiler \_\_\_\_\_ Gas \_\_\_\_\_

(A) Fee \$ \_\_\_\_\_

Estimated Cost \$ 3150.00

Estimated Cost \$ \_\_\_\_\_

Fees for items below are based on valuation of all units, equipment, materials and labor supplied by owner or contractor.

Ventilation: (Number of) Grease \_\_\_\_\_ (or) Heat \_\_\_\_\_, Hoods, Air Intakes \_\_\_\_\_  
Exhaust Fans \_\_\_\_\_ Dryer Vents \_\_\_\_\_  
Estimated Cost \$ \_\_\_\_\_

Refrigeration: Number of units \_\_\_\_\_  
Estimated Cost \$ \_\_\_\_\_

Piping: Air \_\_\_\_\_ Vacuum \_\_\_\_\_ Steam \_\_\_\_\_ Chill Water \_\_\_\_\_  
Estimated Cost \$ \_\_\_\_\_

Others: (Specify) \_\_\_\_\_  
Estimated Cost \$ \_\_\_\_\_

Stages \_\_\_\_\_ Low Voltage \_\_\_\_\_  
Estimated Cost \$ \_\_\_\_\_

Was the space previously Air Conditioned? Yes  No \_\_\_\_\_  
Total Estimated Cost \$ \_\_\_\_\_

Comments: \_\_\_\_\_

(B) Fee For Estimated Cost \$ 528.00

(C) 3% Florida Surcharge \$ 15.84

(A,B,C) Total Permit Fee \$ 543.84

Building Inspector: [Signature] Date 4/24/2012 Zoning \_\_\_\_\_

I hereby certify that the above is true and correct to the best of my knowledge. PLEASE PRINT

I hereby make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances. You must possess a Power of Attorney if picking up for license holder.

Name of Company - Certificate Holder Charles Thorpe State Registration/Cert #/License # CA026424  
Authorized Signature (License Holder or Agent) \_\_\_\_\_  
Street Address 9102 98N  
City Lakeland State FL Zip Code 33809 Phone Number 848-858-2577

NOTE: The Building Permit Number is required if the Gas Installation is associated with any construction or alteration where a Building Permit has been issued.  
Building Permit Number \_\_\_\_\_

RETAIN A COPY FOR OFFICE USE AND RETURN ORIGINAL TO APPLICANT

Updated 03-2012 FORM #MECH010

To schedule an inspection please email your request to: [BDscheduling@UniversalEngineering.com](mailto:BDscheduling@UniversalEngineering.com)

**City of Belle Isle  
Building Permit Application Review Sheet**

Permit Number	2012-04-077
Property Owner	La Petite Academy
Address	5066 S. Conway Road
Nature of Improvement	Mechanical: change out 4 rooftop units
Received Application	04/20/2012
Documents Complete	
Zoning Clerk Review	n/a
Zoning Complete Date	n/a
Zoning Passed	n/a
City Manager Approved	n/a
Universal Eng Notified	Via email 04/20/2012
Universal Eng Pickup	
Universal Eng Approved	* 4/24/2012

**Comments**

1. 4-20-12 cc Spoke w/ Megan; She's paying license + listing job cost on it.
2. 4-23-12 cc need pay; job cost is \$3450.00 so a NCC is needed
3. Megan getting + Charles was being when he picks up permit.
- \* 4. 4/24/2012 Need separate permit for electrical, and fire alarm wiring... PHC
- 5.
6. 4-24-12 cc Called + spoke to Megan; advised of Phil's notes + told her it was ready.
7. 5-3-12 Megan checking w/ Charles to see when he's going to pick up permit + will call back
8. 5-7-12 cc Left msg for Megan;
9. 5-10-12 cc Left msg for Megan. Called + said they're waiting for the proj mgr to sign NCC.
10. 5-23-12 cc NCC is only req if over \$1500; left Megan msg
- 5-24-12 cc Spoke w/ Megan, install mgr is going to stop + pick up on his way back from Daytona.
- 5-31-12 cc TJ said Charles would be picking up on the morning



"A COMPANY BUILT ON QUALITY & SERVICE"

DATE:  
CITY OF BELLE ISLE  
PERMIT OFFICE  
1600 NELA AVE  
BELLE ISLE FL 32809

RE: PULLING PERMITS

To Whom it may Concern:

Charles Thorpe gives authorization to the following people:

Gigee Phipps  
Mike Mondul  
Robin Thorpe  
Josh Thorpe  
Chris Chambers  
Megan Robling

To pull and pick Thorpe Heating & Cooling Inc. permits on his behalf.

*Charles T Thorpe*

5 - 29 - 12

Charles T. Thorpe  
President

Date

Sworn to and subscribed before me Charles T. Thorpe

Who is personally known to me & did take an oath,  
On this 29th day of May 2012.

*Megan Robling*

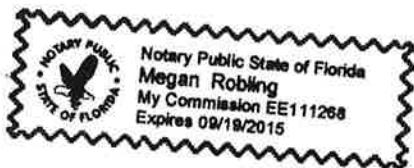
Notary Public

*Megan Robling*

Printed Name

Commission Expires:

Seal:





"Committed to Excellence"

8402 Hwy. 98 N.  
STATE LICENSE CAC026424  
(863)858-2577, Fax: (863) 853-1391  
Website - www.thorpeac.com

Customer: La Petite Academy  
Address: 5066 S. Conway Rd  
City/Zip: Orlando Fl 32812  
Hm ph # / Alt: 407-855-4377  
Email: \_\_\_\_\_

Work Type: \_\_\_\_\_

*Scope of work to be performed*

- Remove all existing roof top package units and sleepers.
- Install new Lennox roof curbs using existing roof penetrations and cut in new penetrations for supply ducts
- Curbs to be tied to building structure Per Engineer details and curbs dried in by roofers.
- Install new units on roof curbs per manufactures specs and 2010 FI code.
- New junction box for high voltage, new rated disconnects box & service outlet all weather tight installed.
- All existing supply & return duct work removed, & replaced with flex & mixing boxes with 2x2 high velocity Hart & Coley grill, all seams to be taped sealed and mastic sealed Per code air tight all flex to be run straight as possible with no more then a 90dg bend, all flex to be supported at ever 2" with less then 1.5" sag.
- All existing smoke detectors which are wired to the alarmed center to be reinstalled in the supply plenum with an access door for servicing.
- Unit 2 will be zoned with a new thermostat in each room for the Infants, twos, & Toddlers.





### EQUIPMENT MOUNTING FRAMES

505,108M  
11/2010  
Supersedes 5/2010

## ROOF MOUNTING FRAME

### INSTALLATION INSTRUCTIONS FOR ROOF MOUNTING FRAME (LB-110352A & 603759-01; 13W27 & 52W24) USED WITH TG/TC/TH/KG/KC/KH/LGH/LCH 024-090 UNITS

#### Packing List

- 2- Sides
- 2- Ends
- 3- Cross supports
- 2- Supply and return air supports
- 1- Bag assembly containing 40 screws

Check parts for shipping damage. Receiving party should contact last carrier immediately if shipping damage is found.

#### Application

The roof mounting frame provides support when units are installed in downflow rooftop applications. See table 1.

The mounting frame can be installed directly on deck having adequate structural strength or on roof supports under deck. See figure 1 for frame dimensions, location of supply and return air openings, and location of cross supports for supply and return air transitions. See figure 2 for service clearance dimensions.

*NOTE-Frame assembly must be installed level within 1/16" per linear foot in any direction.*

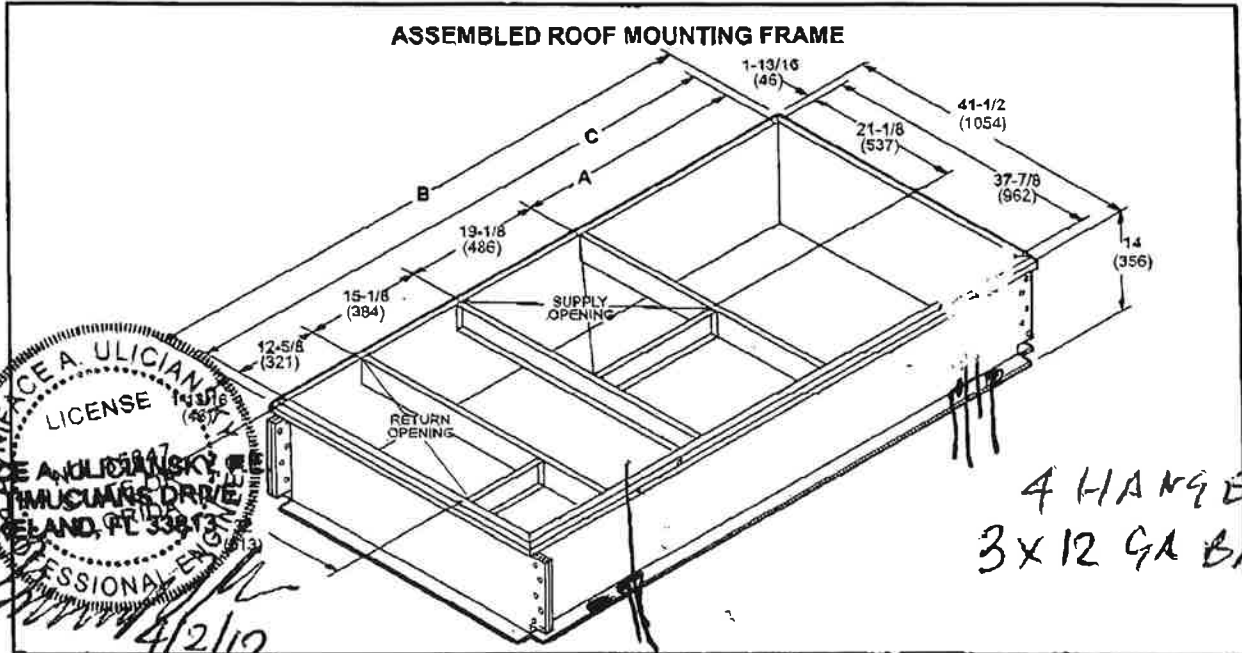
### ⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier

TABLE 1

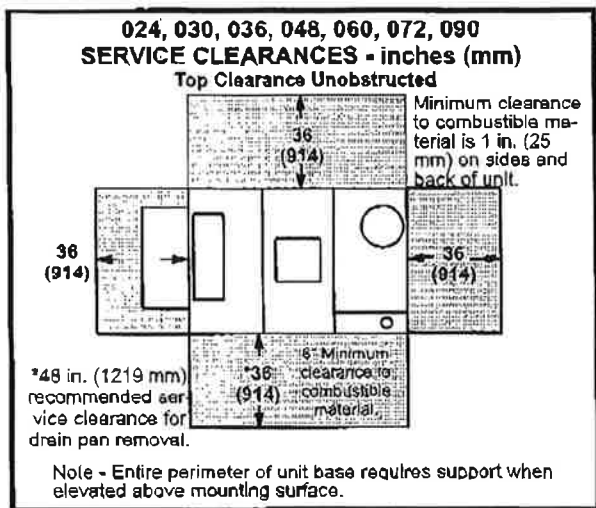
Cat. No.	Model No.	Dimensions in. (mm)		
		A	B	C
13W27	KH 024, 030, 036, 048, 060, 072 TG/TC/TH/KG/KC 024, 030, 036, 048, 060, 072, 090 LGH/LCH048, 060, 072	29-1/4 (743)	79-3/4 (2026)	76-1/8 (1934)
52W24	KC/KG 090; KH 072	42-1/4 (1073)	92-3/4 (2356)	89-1/8 (2264)

Models can be used on smaller 79-3/4 in. (2026 mm) roof curbs (not full perimeter) with 15-3/4 in. (400 mm) overhang at condenser end of unit.



BONIFACE A. ULICIAN  
 LICENSE  
 BONIFACE A. ULICIAN, P.E.  
 6328 TIMUCUARS DRIVE  
 LAKELAND, FL 33853  
 PROFESSIONAL ENGINEER  
 4/2/12

FIGURE 1



**FIGURE 2**

**Frame Assembly**

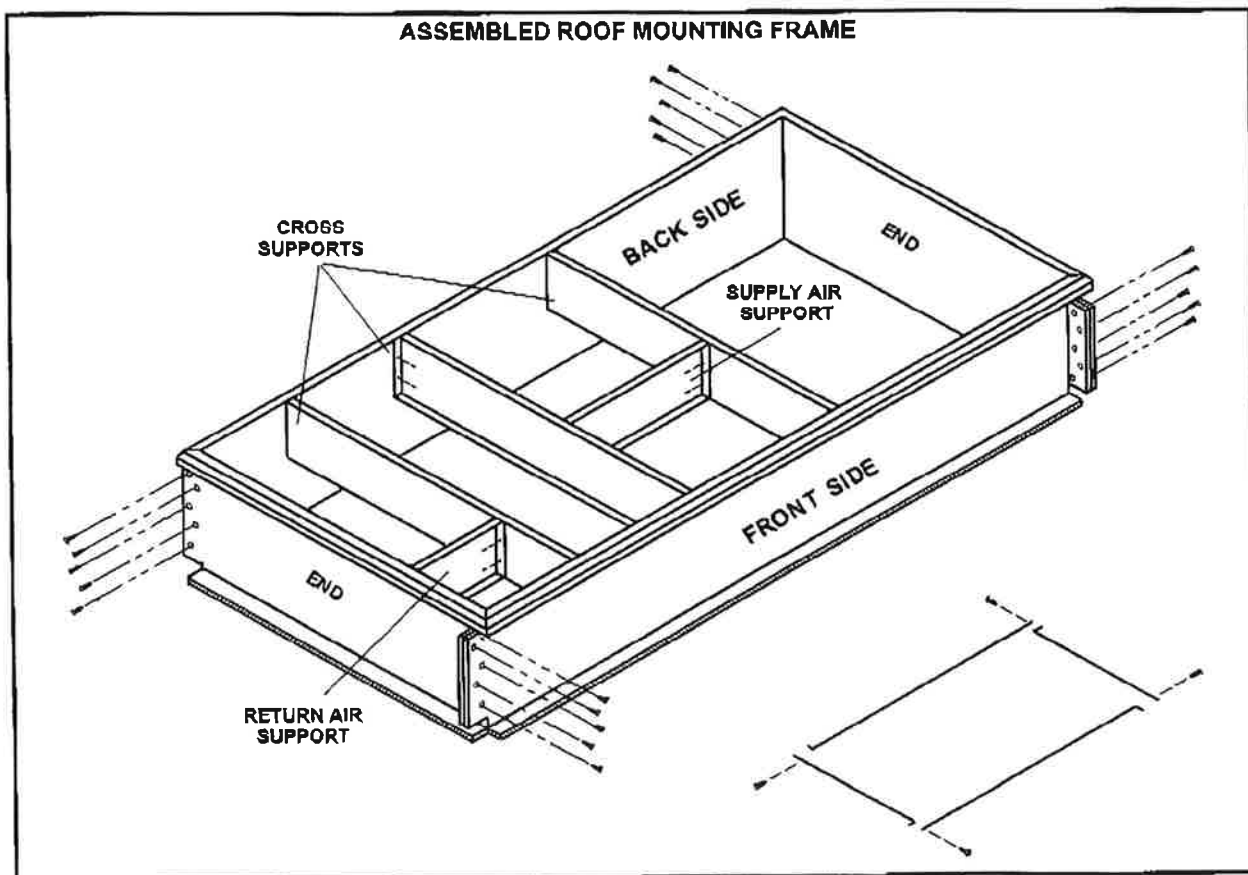
Assemble frame as illustrated in figure 3.

**Securing Frame**

To assure proper mating with units, it is mandatory the mounting frame be squared to roof structure as follows:

- 1- With frame situated level in desired location on roof trusses, tack weld (1) corner of frame.
- 2- Measure frame diagonally from corner to corner as shown in figure 4. These dimensions must be equal for frame to be square.
- 3- It is extremely important to sight frame from all corners to make certain frame is not twisted across top side. Shim frame under any low sides. Maximum slope tolerance is 1/16" per linear foot in any direction.
- 4- After frame has been squared, straightened and shimmed, weld or attach frame securely to roof deck.

*NOTE - Securely fasten roof frame to roof per local codes.*



**FIGURE 3**

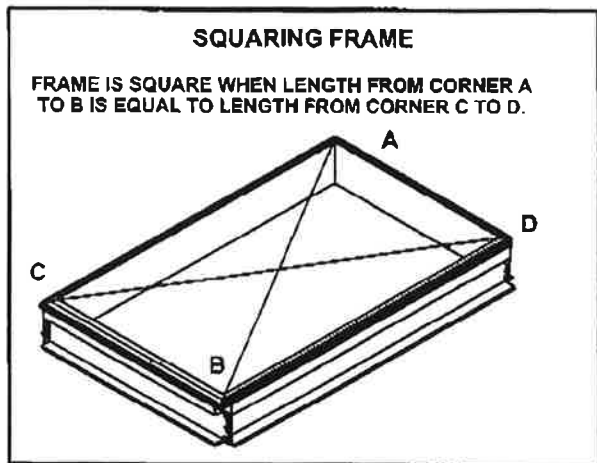


FIGURE 4

**Curling and Flashing**

- 1- Outside of frame should be insulated with rigid type insulation, preferably 2" (51 mm) thick. Do not use combustible material for filling around frame.
- 2- Counter-flash and seal around frame as shown in figure 5.

*IMPORTANT-If a poured roof is used, such as concrete, be sure inside of mounting frame is adequately braced to ensure a square and level frame.*

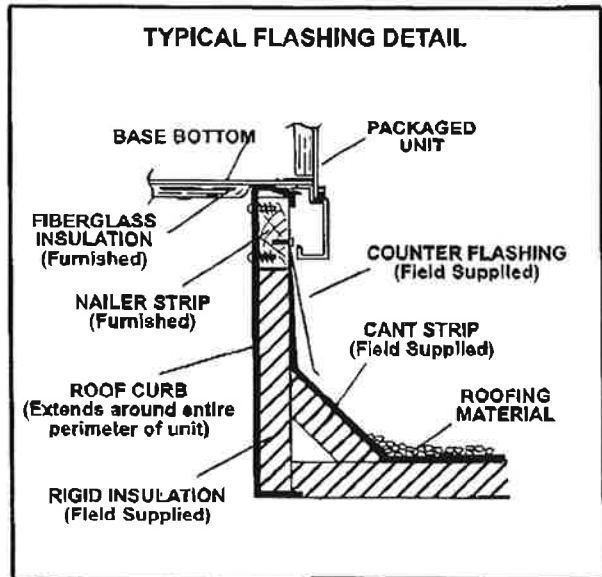


FIGURE 5

**Miscellaneous**

- 1- Where pipes and electrical conduit extend through roof, flashing must conform to National Roofing Contractors Association (NRCA) Standards.
- 2- Roof walkways should be provided around equipment to facilitate servicing.

**Supply and Return Plenum**

*IMPORTANT-Plenum system must be installed before unit is set on mounting frame.*

Plenums must be constructed of galvanized steel with coated fiberglass insulation applied to the inside. It is recommended that 1/2" (13 mm) thick, 3 lb./ft<sup>3</sup> (48 kg/m<sup>3</sup>) density fiberglass insulation be used.

However, if 1-1/2 lb./ft<sup>3</sup> (24 kg/m<sup>3</sup>) density insulation is used, it should be secured with mechanical fasteners. Install plenums as shown in figure 6.

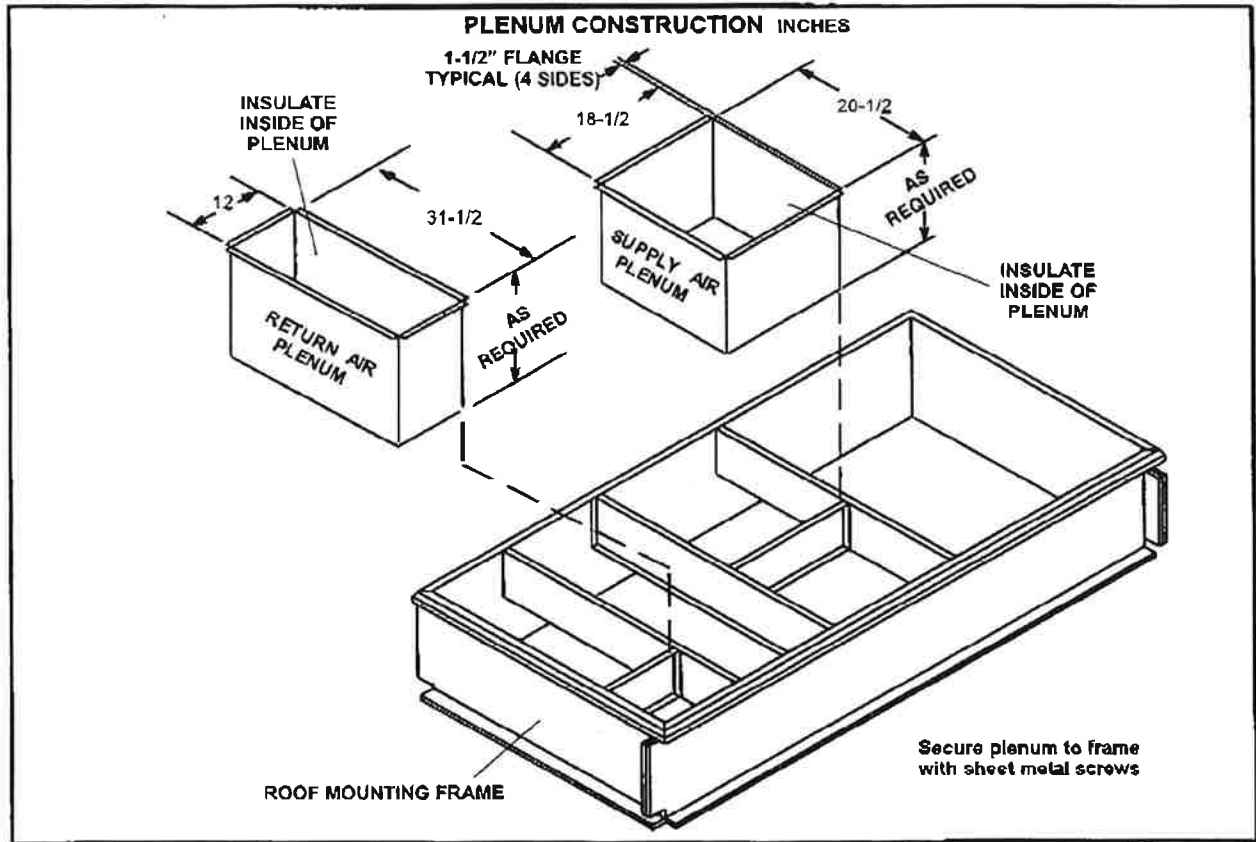


FIGURE 6

**Supply and Return Air Transitions**

Supply and return air transitions are shown in figure 7.

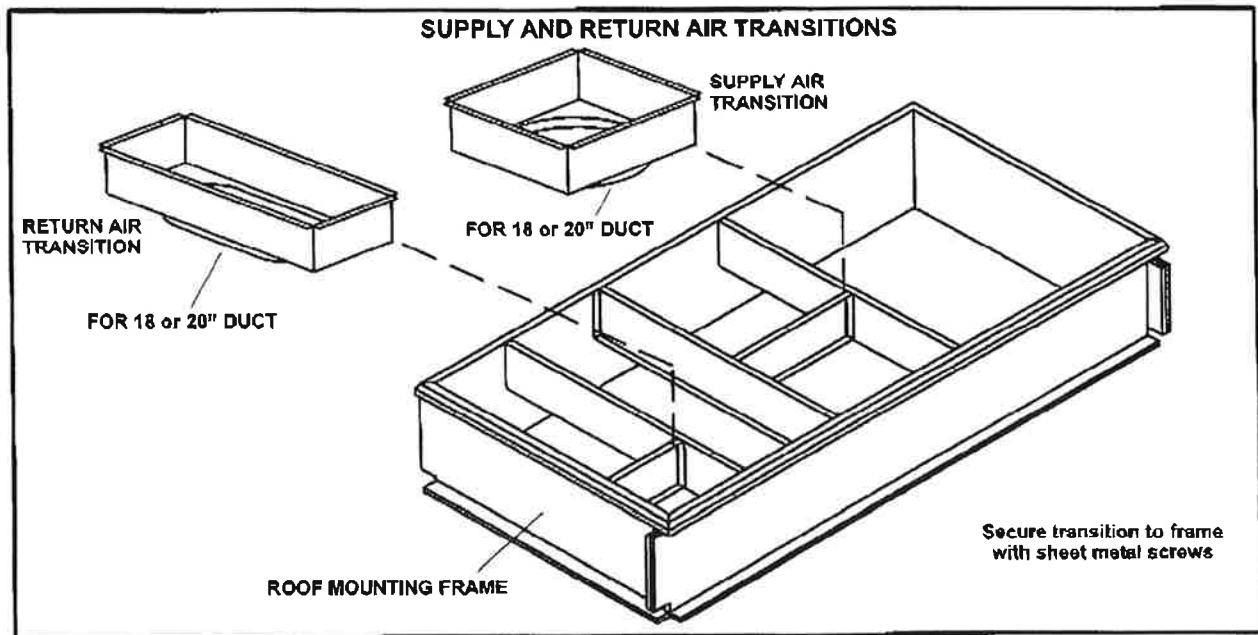
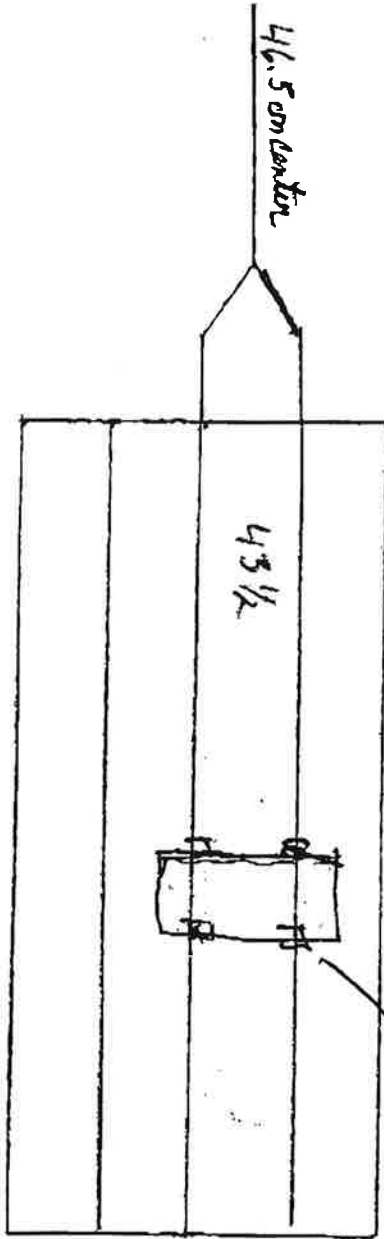


FIGURE 7

BONIFACE A. ULICIAWSKY, PE  
6328 TRAUQUANS DRIVE  
LAKELAND, FL 32813



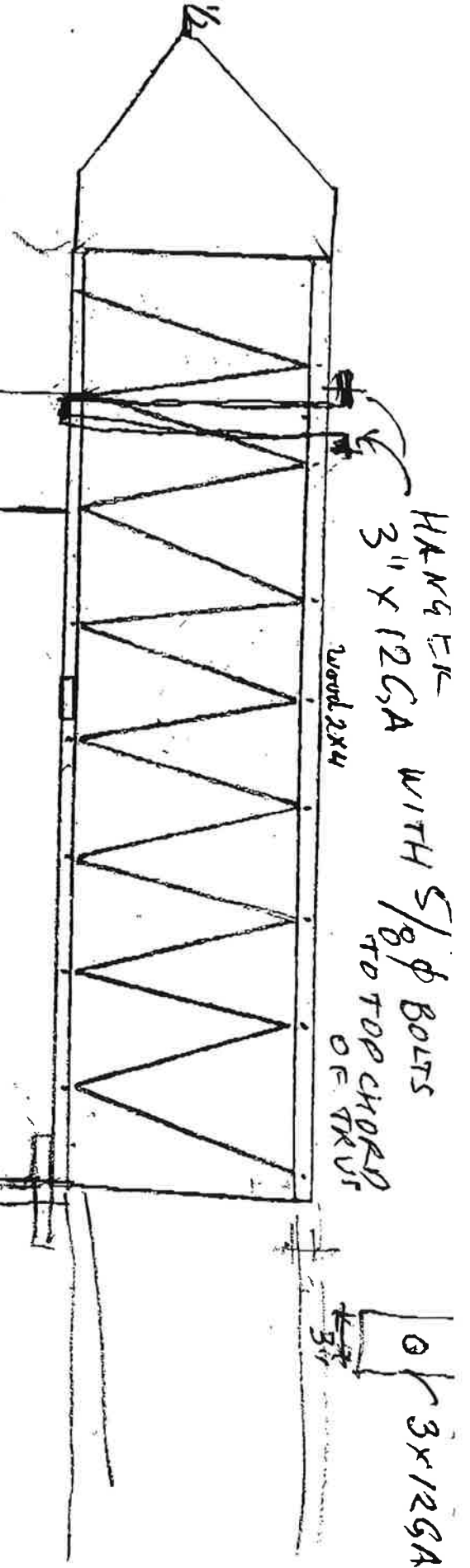
3/4" around  
to flat in center  
of 2x4's butt joint

31" center

Trusses are 46 1/2 on center  
43 1/2 between

4 HANGERS  
REQ'D w/ 3" x 12 GA  
(TRP)

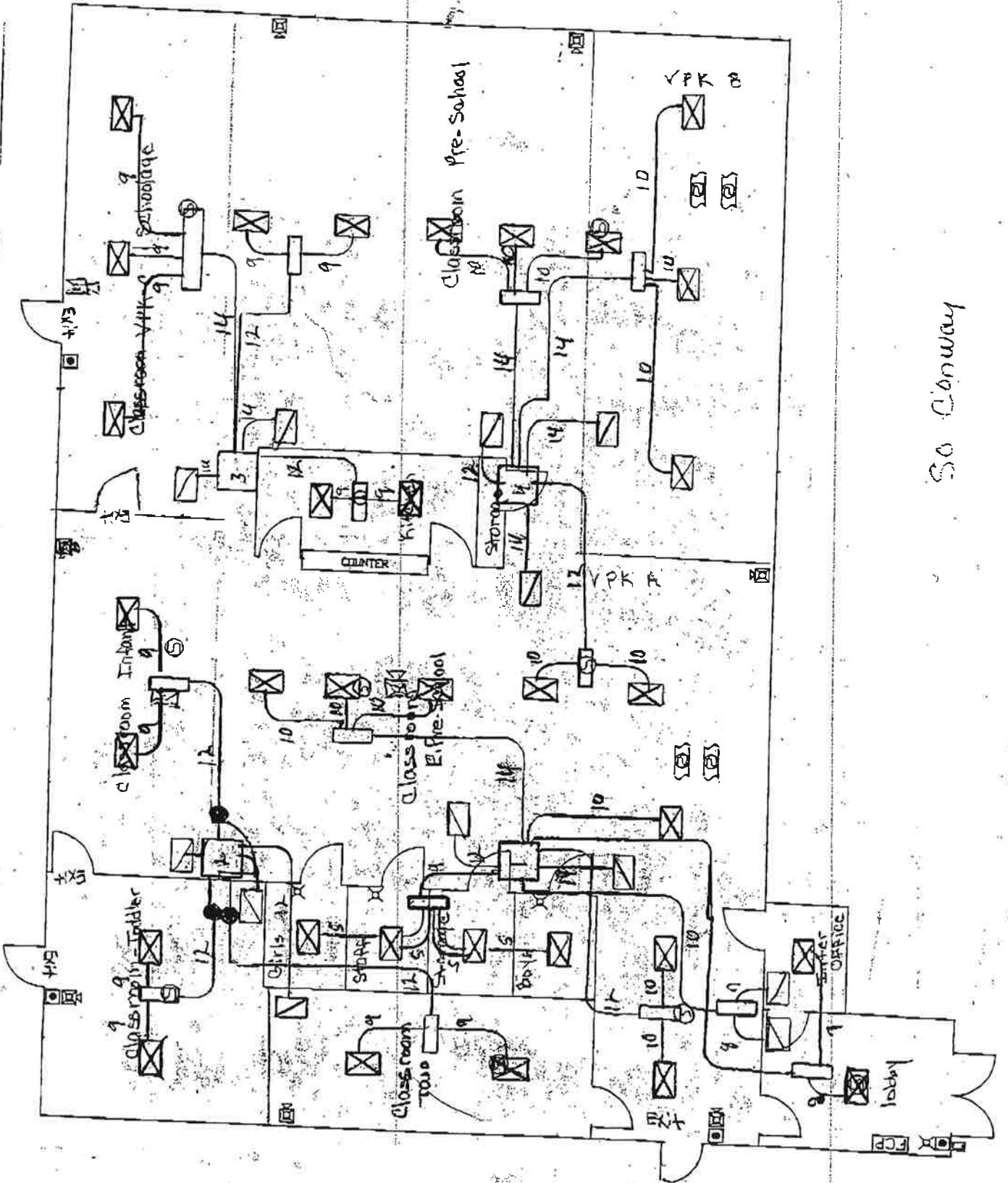
EXISTING  
STEEL  
BEAM



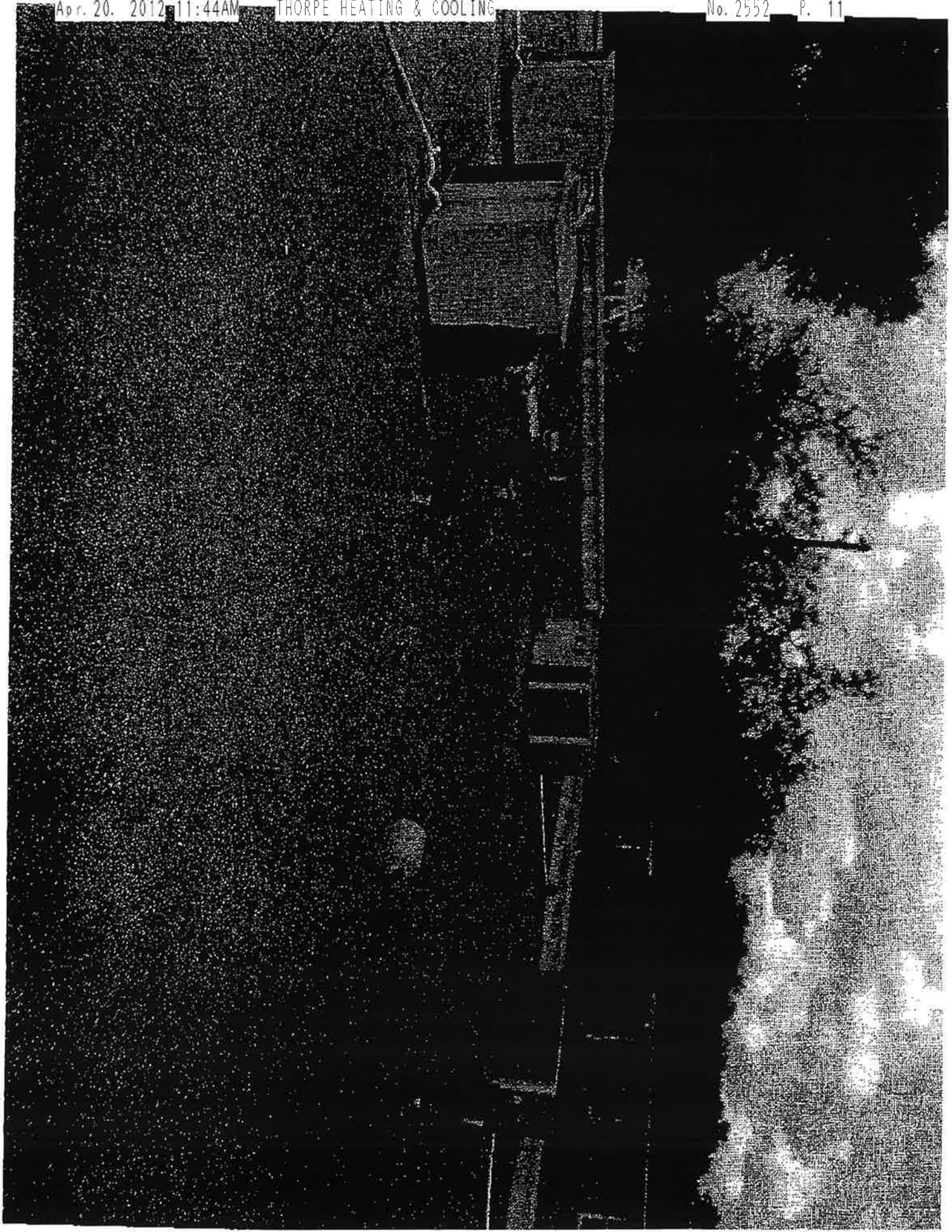
# COMMERCIAL MAN. J LOAD CALCULATION WORKSHEET

<b>NAME:</b>	La Petite Academy
<b>ADDRESS:</b>	5066 S Conway Rd Orlando Fl.

ITEM		SQ. FT.	COOLING FACTOR	BTU GAIN
GLASS AREA	N	266	25	6650
	NE/NW	0	40	0
	E/W	0	55	0
	SE/SW	0	50	0
	S	80	30	2400
	DOORS	63	13	819
GROSS WALL		2025		
DOORS & WINDOWS		409		9869
NET WALL **Insulated wall**		0	2.5	0
NET WALL **Uninsulated wall**		1616	6	12928
CEILING		4611	2	9222
FLOORS		0	1.5	0
INFILTRATION (VOLUME X TD X .007333)		41499	0.15	6225
PEOPLE		145	300/500	46500
APPLIANCE BTU'S-LIGHTING				23504
SUB-TOTAL BTUH GAIN				108248
DUCT LOSS/GAIN FACTOR				10825
SUBTOTAL BTUH (SENSIBLE GAIN)				119073
MOISTURE REMOVAL				35722
OUTDOOR AIR BTUH GAIN				53940
TOTAL BTUH LOSS/GAIN				208734



So Conway







"A COMPANY BUILT ON QUALITY & SERVICE"  
"www.thorpeac.com"

PHONE: (863) 858-2577

FAX: (863) 853-1391

### FAX COVER SHEET

DATE:

4/20/12

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET:

11

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