



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

PERMIT CARD – PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per FBC 105.3.3: An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: **"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 City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, 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.**

<p>Scope of Work: MECHANICAL: one 2-ton change out</p> <p>Comments: None</p> <p>Project Information Address: 6731 Matchett Rd, Belle Isle, FL 32809 Parcel ID: 25-23-29-0000-00-136 Property Owner: Johnson, Randal Phone Number: 407 284 0167 ***** Company Name: Westbrook Service Corp Contractor Name: Roberts, James License Number: CMC1249312 Address: 1411 S. Orange Blossom Trail, Orlando, FL 32805 Phone Number: 407 841 3310</p>	<p style="text-align: right;">Permit Number: 2015-04-046</p> <p style="text-align: right;">Date of Application: 04/21/2015 Date Permit Issued: 04/28/2015</p> <p>WARNING TO OWNER: "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." ON THE JOB INSPECTION(S) 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>
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BUILDING FEATURES

<p>IMPACT FEES</p> <p>School \$ Traffic \$</p> <p>ZONING FEES</p> <p>Zoning Fee \$</p> <p>UNIVERSAL ENG - BUILDING FEES</p> <p>Cert of Occ \$ Demo \$ \$ Building \$ \$ Fence \$ \$ Driveway \$ \$ Shed \$ \$ Window(s) \$ \$ Door(s) \$ \$ PrePower \$ \$ Electrical \$ \$ Temp Pole \$ \$ Plumbing \$ \$ Mechanical \$109.50 Gas \$ \$ Roofing \$ \$ Boat Dock \$ \$ Screen Encl \$ \$ Swimming Pool \$ \$ Sign \$ \$</p> <p>SURCHARGE FEES</p> <p>Surcharge Fee \$2.00 Surcharge Fee \$2.00</p> <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">TOTAL FEES \$113.50</p> <p>Date Paid <u>4-28-15</u></p> <p>Check # <u>USA 9994</u></p> <p>Amount Paid <u>113.50</u></p> <p>The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).</p>	<p style="text-align: center; font-weight: bold;">BUILDING INSPECTOR USE ONLY</p> <p>IF APPLICABLE: Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions Been Met? YES NO Silt fencing in place? YES NO Turbidity Barrier in place? YES NO</p> <p>BUILDING</p> <p>1st _____ (Footing/Foundation) Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? _____</p> <p>2nd _____ (Slab)</p> <p>3rd _____ (Lintel)(Wall Reinforcing on Masonry Building)</p> <p>4th _____ (Exterior Framing)(Roof/Wall Sheathing)</p> <p>5th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed)</p> <p>6th _____ (Insulation to be Made After Roof Installed)</p> <p>7th _____ (Drywall)</p> <p>8th _____ (Sidewalk/Driveway)</p> <p>9th _____ (Other)</p> <p>10th _____ (Final – After MEP and Other Applicable Finals)</p> <p>ROOFING</p> <p>1ST ROOFING Deck Nailing/Dry-in/Flashing _____</p> <p>2nd ROOFING Covering In-Progress _____</p> <p>3rd ROOFING Covering Final _____</p> <p>PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...)</p> <p>1ST _____ (Underground) 2nd _____ (Sewer)</p> <p>3rd _____ (Rough-In/Tub Set) 4th _____ (Final)</p> <p>CHECK APPROPRIATE BOX</p> <p><input type="checkbox"/> GAS <u> Natural </u> <input type="checkbox"/> LP <input type="checkbox"/> MECHANICAL <input type="checkbox"/> ELECTRICAL <input type="checkbox"/> LOW VOLTAGE</p> <p>1st _____ (Rough-In) 2nd _____ (Final)</p>
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Inspection requests are to be emailed to IDScheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. **Next-Day Inspection requests must be made by 1pm.** Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com/f/fo94edc4-832d-44bd-9809-ecf32f9e2e63>
 login ID = cobi@universalengineering.com password = universal13

CITY OF BELLE ISLE
Permit Application Review Sheet

Permit Number	2015-04-046
Property Owner	Johnson, Randal
Address	6731 Matchett Rd
Nature of Improvement	Mechanical - one 2-ton change out
Received Application	4-21-15
Sent for Stormwater Review	✓
Stormwater Approved	✓
Sent for Zoning Review	✓
Zoning Approved	✓
Applied for Variance	
Variance Approved	
Sent to BO for Review	4-21-15
Building Official Approved	approved via email Dan Meedy
Comments	
1.	Swan 4-21-15 All credentials on file ✓ Renew with # 50035
2.	emailed we need DEC got it
3.	
4.	(Need to type permit)
5.	
6.	
7.	
8.	
9.	Permit 73.- review 36.50
10.	<u>109.50</u>
11.	MW. 4.00
12.	<u>113.50</u>



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED
4-21-15

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.

DATE OF APPLICATION: 04/21/15 PERMIT NUMBER 2015-04-046
PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 6731 Matchett Rd., Belle Isle FL 32809 32812
Property Owner Randall Johnson Phone 407-284-0167
Property Owner's Mailing Address 6731 Matchett Rd. City Belle Isle
State FL Zip Code 32809 Parcel Id Number: 25-23-29-0000-00-136

To obtain this information, please visit <http://www.ocpaffl.org/Searches/ParcelSearch.aspx>

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

- REQUIRED Tie Down Engineering and Equipment Sizing Calculation
- REQUIRED, adding A/C to new space – provide Energy Calculations
- REQUIRED, if replacing unit with no duct work, Duct Certification as per FB 101.4.7.1, must be posted on unit

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

Air Conditioning: # of Units 1 Tons Per Unit 2.0 Total Tons 2.0
Type of System: Water to Air Chiller Split System Package Heat Pump Estimated Cost \$ 9,485

Heating: # of Units KWS Per Unit 1 Total KWS 5 BTU's _____ Estimated Cost \$ _____
Oil _____ Electric 1 Boiler _____ Gas _____

(A) Estimated Cost Fee \$ _____

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

Ventilation:
(Number of) Grease _____ 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) A/C Change Out 2 ton HP, 19 SEER 9.6 HSPF. No Duct Work. Estimated Cost \$ _____

Was the space previously Air Conditioned? Yes No (B) Estimated Cost Fee \$ _____

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

LICENSE HOLDER SIGNATURE [Signature] LICENSE # CMC1249312

LICENSE HOLDER NAME James Roberts COMPANY NAME Westbrook Service Corp

Street Address 1411 S. Orange Blossom Trail

City Orlando State Florida Zip Code 32805 Phone Number (407) 408-4316

Email Address swilliams@westbrookfl.com

Building Official: <u>Den Moody</u> Date <u>4-21-15</u>	Review & Permit Fee	\$ <u>109.50</u>
	3% Florida Surcharge	\$ <u>4.00</u>
	Total Permit Fee	\$ <u>113.50</u>

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

THIS INSTRUMENT PREPARED BY:
Name: Stephen Williams
Address: 1411 S. Orange Blossom Trail Orlando, FL 32805
(407) 841-3310

DOCN 20150200155 B: 10908 P: 0632
04/23/2015 09:50:12 AM Page 1 of 1
Rec Fee: \$10.00
Martha O. Haynie, Comptroller
Orange County, FL
MB - Ret To: WESTBROOK SERVICES

NOTICE OF COMMENCEMENT



Permit Number: _____
Parcel ID Number: 25-23-29-0000-00-136

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

- DESCRIPTION OF PROPERTY:** (Legal description of the property and street address if available)
Residential - 6731 Matchett Rd, Orlando FL 32809 - S 120 FT OF N 484.4 FT OF NE1/4 OF NE1/4 (GOV-LOT 1)
MEASURED AT RT ANGLES FROM N LINE OF SEC LYING E OF C/L OF MATCHETT RD & W OF LAKE CONWAY
SHORELINE IN SEC 25-23-29 SEE 2822/798
- GENERAL DESCRIPTION OF IMPROVEMENT:**
A/C Change Out
- OWNER INFORMATION OR LESSEE INFORMATION IF THE LESSEE CONTRACTED FOR THE IMPROVEMENT:**
Name and address: Randall or Michelle Johnson - 6731 Matchett Rd. Orlando FL 32809
Interest in property: Owner
Fee Simple Title Holder (if other than owner listed above) Name: _____
Address: _____
- CONTRACTOR:** Name: James Roberts/Westbrook Services Phone Number: (407) 841-3310
Address: 1411 S. Orange Blossom Trail Orlando, FL 32805
- SURETY** (If applicable, a copy of the payment bond is attached): Name: _____
Address: _____ Amount of Bond: _____
- LENDER:** Name: _____ Phone Number: _____
Address: _____
- Persons within the State of Florida Designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes.**
Name: _____ Phone Number: _____
Address: _____
- In addition, Owner designates _____ of _____
to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes. Phone number: _____
- Expiration Date of Notice of Commencement (The expiration is 1 year from date of recording unless a different date is specified) _____

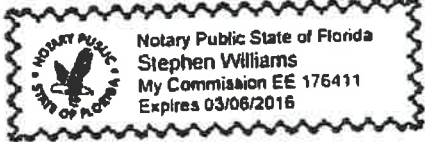


State of Florida, County of Orange
I hereby certify that this is a true copy of
the document as reflected in the Official Records
MARTHA O. HAYNIE, COUNTY COMPTROLLER
By: Michelle Johnson Deputy Comptroller
Dated: 04-23-15

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 1, 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 WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.
[Signature] RANDALL JOHNSON
(Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager) (Print Name and Provide Signatory's Title/Office)

State of Florida County of Orange
The foregoing instrument was acknowledged before me this 22ND day of APRIL, 2015
by RANDALL JOHNSON Who is personally known to me OR
Name of person making statement
who has produced identification type of identification produced: FDL



[Signature]
Notary Signature 376940

Susan Manchester

From: William Moody
Sent: Tuesday, April 21, 2015 11:30 AM
To: Susan Manchester
Subject: RE: 6731 Matchett Rd. - REVIEW for Mechanical Permit 2015-04-046 - Westbrook Service Corp

Approved

Sent on the new Sprint Network from my Samsung Galaxy S@4.

----- Original message -----

From: Susan Manchester
Date: 04/21/2015 10:36 AM (GMT-05:00)
To: Ralph Jones
Cc: BIDReviews
Subject: RE: 6731 Matchett Rd. - REVIEW for Mechanical Permit 2015-04-046 - Westbrook Service Corp



WO 50035 created for you to review/approve this mechanical app. Please email me "approved" or "denied".

Thank you so much for your time and expertise regarding this matter.

Susan Manchester

Universal Engineering Sciences, Inc.
3532 Maggie Blvd.
Orlando, FL 32811
Phone: 407-581-8161
Fax: 407-581-0313
Email: smanchester@universalengineering.com



LIMITED POWER OF ATTORNEY

Date: 04/21/15

I hereby name and appoint: Stephen Williams

an agent of: Westbrook Service Corp
(Name of Company)

to be my lawful attorney-in-fact to act for me to apply for, receipt for, sign for and do all things necessary to this appointment for (check only one option):

All permits and applications submitted by this contractor.

Or

The specific permit and application for work located at:

6731 Matchett Rd.

(Street Address)

25-23-29-0000-00-136

(Parcel ID)

Expiration Date for This Limited Power of Attorney: 12-31-15

License Holder Name: James Roberts

State License Number: CMC1249312

Signature of License Holder:

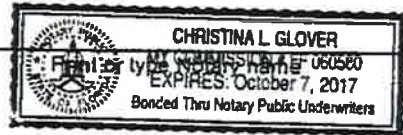
STATE OF FLORIDA
COUNTY OF Orange

The foregoing instrument was acknowledged before me this 21 day of April,
2015, by James Roberts/Westbrook Service Corp who is personally known to me or

who has produced _____ as identification

and who did (did not) take an oath.

Signature of Notary



Notary Public - State of _____

Commission No. _____

My Commission Expires: _____

Certificate of Product Ratings

AHRI Certified Reference Number: 6992574

Date: 4/20/2015

Product: Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: 4TWV0024A1

Indoor Unit Model Number: *AM8C0A24V21

Manufacturer: TRANE

Trade/Brand name: TRANE

Series name: XV201

Manufacturer responsible for the rating of this system combination is TRANE

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	23400*
EER Rating (Cooling):	13.00
SEER Rating (Cooling):	19.00*
Heating Capacity(Btuh) @ 47 F:	21600*
Region IV HSPF Rating (Heating):	9.60
Heating Capacity(Btuh) @ 17 F:	16900*

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate

DISCLAIMER

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CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at www.ahrirectory.org, click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

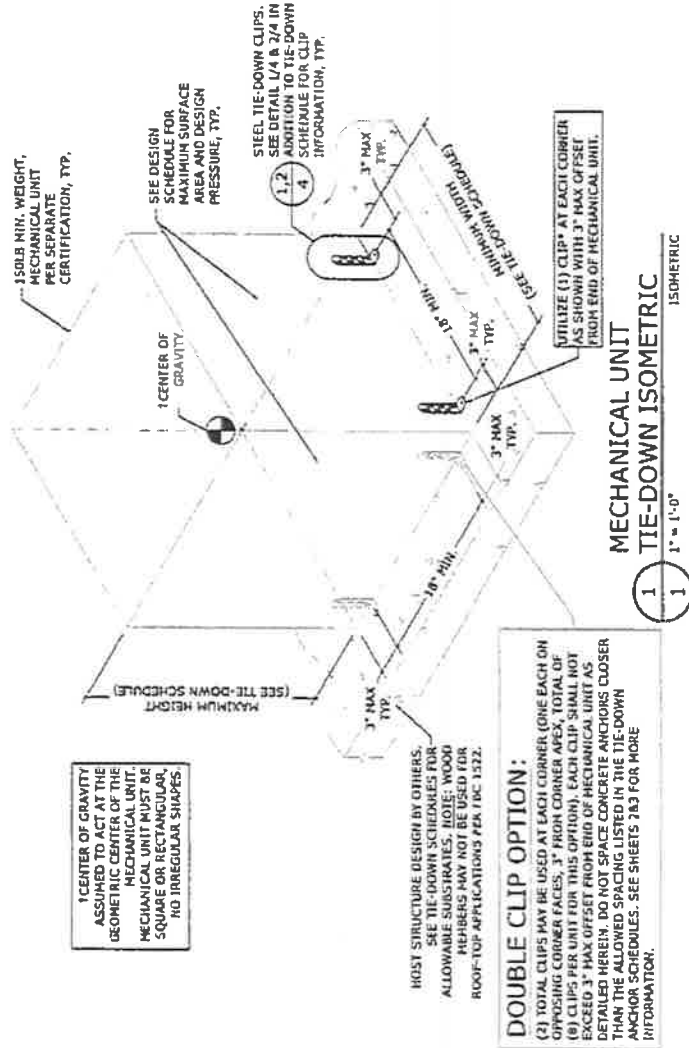
©2014 Air-Conditioning, Heating, and Refrigeration Institute



CERTIFICATE NO.: 130740369507872923

BMP INTERNATIONAL, INC.

MECHANICAL UNIT STEEL TIE-DOWN CLIP CAPACITIES: AT GRADE & ROOF-TOP MOUNTED APPLICATIONS



MECHANICAL UNIT TIE-DOWN ISOMETRIC

1 1" x 1"-0" ISOMETRIC
 *FOR CLARITY, THIS ISOMETRIC ONLY SHOWS 1" CLIPS. THE ISOMETRIC LAYOUT IS TYPICAL FOR BOTH 1" AND 2" CLIP APPLICATIONS. 2" CLIPS ARE NOT CERTIFIED FOR ANCHORAGE TO CONCRETE.

DOUBLE CLIP OPTION:

(2) TOTAL CLIPS MAY BE USED AT EACH CORNER (ONE EACH ON OPPOSING CORNER FACES, 3" FROM CORNER APEX, TOTAL OF (8) CLIPS PER UNIT FOR THIS OPTION). EACH CLIP SHALL NOT EXCEED 3" MAX OFFSET FROM END OF MECHANICAL UNIT AS DETAILED HEREIN. DO NOT SPACE CONCRETE ANCHORS CLOSER THAN THE ALLOWED SPACING LISTED IN THE TIE-DOWN ANCHOR SCHEDULES. SEE SHEETS 2&3 FOR MORE INFORMATION.

HOST STRUCTURE DESIGN BY OTHERS. SEE TIE-DOWN SCHEDULES FOR ALLOWABLE SUBSTRATES. NOTE: WOOD MEMBERS MAY NOT BE USED FOR ROOF-TOP APPLICATIONS PER IBC 1522.

TIE-DOWN CLIP DIRECTIVE EXAMPLE

(THE FOLLOWING EXAMPLE ILLUSTRATES THE PROCEDURE USED TO DETERMINE THE MAXIMUM ALLOWABLE WIND PRESSURE FOR ANY GIVEN MECHANICAL UNIT THAT CONFORMS TO THE DIMENSION RESTRICTIONS LISTED HEREIN. SEE SHEETS 2&3 FOR TIE-DOWN SCHEDULES.)

MECHANICAL UNIT CRITERIA:

CONSIDER THE INSTALLATION OF (1) MECHANICAL UNIT WITH THE FOLLOWING CRITERIA- 36" TALL x 36" DEEP x 24" WIDE, 150 LB WEIGHT AS VERIFIED BY OTHERS, INSTALLED TO 3192 KSI MIN. CONCRETE AT GRADE AS VERIFIED BY OTHERS.

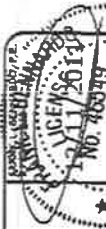
PROCEDURE:

PROCEDURE STEP	RESULT
1. LOCATE THE AT GRADE TIE-DOWN SCHEDULE ON SHEET 2 AND SELECT CLIP TYPE	CONSIDER 1" STEEL CLIP
2. DETERMINE LARGEST FACE AREA OF MECHANICAL UNIT TO BE INSTALLED	36" x 36" = 9FT ²
3. CHECK MAXIMUM UNIT HEIGHT RESTRICTION	UNIT HEIGHT IS 36" WHICH IS LESS THAN THE MAXIMUM ALLOWABLE HEIGHT OF 48"
4. CHECK MINIMUM UNIT WIDTH RESTRICTION	UNIT WIDTH IS 24" WHICH IS EQUIVALENT TO THE MAXIMUM ALLOWABLE WIDTH OF 24"
5. DETERMINE THE NUMBER OF CLIPS TO BE USED AT EACH CORNER OF THE MECHANICAL UNIT	CONSIDER (1) CLIP AT EACH CORNER, INSTALLED TO CONCRETE SUBSTRATE

CONCLUSION: MAXIMUM ALLOWABLE LATERAL DESIGN PRESSURE = 4.0PSF (COMPARE THIS VALUE TO THE SEPARATE SITE SPECIFIC REQUIRED DESIGN WIND PRESSURE PROVIDED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT; NOT INCLUDED IN THIS CERTIFICATION)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. NO 21-1/2% INCREASE IN ALLOWABLE STRESS WAS USED IN THE DESIGN OF THIS SYSTEM.
- DESIGN IS BASED ON CLIENT PROVIDED PRODUCT AND DIE SHEETS FROM TEST REPORTS #TEL01970397A, #TEL01970397B BY TESTING EVALUATION LABORATORIES, INC... NO SUBSTITUTIONS WITHOUT WRITTEN APPROVAL BY THIS ENGINEER SHALL BE PERMITTED.
- ALLOWABLE DESIGN PRESSURES TO QUALIFY CAPACITY OF CLIPS AS LISTED HEREIN ARE DETERMINED THROUGH TESTING REPORT DATA AND RATIONALLY CHECKED FOR CONSISTENCY WITH EACH TEST PERFORMED.
- REQUIRED LATERAL AND/OR UPLIFT DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A SITE-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- MINIMUM & MAXIMUM DIMENSIONS AND MINIMUM WEIGHT OF MECHANICAL UNIT SHALL BE DETERMINED BY OTHERS. ALL MECHANICAL SPECIFICATIONS (CLEAR SPACE, TOWNSHIP, ETC.) SHALL BE AS PER MANUFACTURER RECOMMENDATIONS AND ARE THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR.
- FASTENERS TO BE #12 X 1/2" OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. TACKONS REFERRED TO HEREIN SHALL BE TTY BUILDER BRAND CARBON STEEL ONLY, INSTALLED TO 3192 KSI MIN CONCRETE. SEE ANCHOR SCHEDULE FOR ANCHOR REQUIREMENTS. ALL FASTENERS SHALL HAVE APPROPRIATE CORROSION PROTECTION TO PREVENT ELECTROLYSIS.
- ALL STEEL CLIPS SHALL BE ASTM A283 STEEL (GRADE D) WITH $F_y = 33$ KSI OR BETTER. ALL STEEL MEMBERS SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL OR OTHER APPROVED PROTECTION IN ACCORDANCE WITH THE 2010 FRC SECTIONS 2203.2 AND 2220. G90-RATED COATING REQUIRED FOR ALL COASTAL INSTALLATIONS.
- ALL CONCRETE SPECIFIED HEREIN IS NOT PART OF THIS CERTIFICATION. AS A MINIMUM, ALL CONCRETE SHALL BE STRUCTURAL CONCRETE 4" MIN. THICK AND SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3192 PSI, UNLESS NOTED OTHERWISE.
- ALL WOOD MEMBERS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE GRADE #2 WITH SPECIFIC GRAVITY $G = 0.55$ OR GREATER. DIRECT CONNECTION TO WOOD MEMBERS/SCHEDULES IS NOT PERMITTED FOR ROOF-TOP APPLICATIONS. CONTRACTOR IS RESPONSIBLE TO INVESTIGATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS, I.E. ALUMINUM PER F.B.C. 2003.8.4.
- ELECTRICAL GROUNDING, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- THE ADEQUACY OF ANY EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS SHALL BE VERIFIED BY THE ONSITE DESIGN PROFESSIONAL AND IS NOT INCLUDED IN THIS CERTIFICATION. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONFORMANCE WITH THIS DOCUMENT.
- WATER-TIGHTNESS OF EXISTING HOST SUBSTRATE SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY REMOVED OR ALTERED WATERPROOFING MEMBRANE IS PROPERLY REPAIRED. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY WATERPROOFING OR LEAKAGE ISSUES WHICH MAY OCCUR AS WATER-TIGHTNESS SHALL BE THE FULL RESPONSIBILITY OF THE INSTALLING CONTRACTOR.



BMP INTERNATIONAL, INC.
 5710 28TH STREET NORTH
 ST. PETERSBURG, FL 33711
 PH: (727) 577-1613
 WWW.BMP-INTL.COM
 DEERFIELD BEACH, FL 33442
 PH: (561) 254-0669
 WWW.ENR.COM

FLORIDA STATEWIDE APPROVAL
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS

11-BMP-0001
 SCALE: 1/8" = 1'-0"
 PAGE DESCRIPTION: 01

1" STEEL CLIP TIE-DOWN SCHEDULE: AT GRADE INSTALLATIONS:

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)											
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)				(2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)				(3) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)			
			TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD	TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD	TAPCON TO CONCRETE	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD
4 FT ²	48" MAX	24" MIN	91 PSF	81 PSF	81 PSF	81 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF
6 FT ²	48" MAX	24" MIN	81 PSF	81 PSF	81 PSF	81 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF
9 FT ²	48" MAX	24" MIN	67 PSF	67 PSF	67 PSF	67 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF
12 FT ²	48" MAX	24" MIN	56 PSF	56 PSF	56 PSF	56 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF
16 FT ²	48" MAX	24" MIN	48 PSF	48 PSF	48 PSF	48 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF
20 FT ²	48" MAX	24" MIN	41 PSF	41 PSF	41 PSF	41 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF
24 FT ²	48" MAX	24" MIN	38 PSF	38 PSF	38 PSF	38 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF
28 FT ²	48" MAX	24" MIN	33 PSF	33 PSF	33 PSF	33 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF
30 FT ²	48" MAX	24" MIN	31 PSF	31 PSF	31 PSF	31 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF
36 FT ²	48" MAX	24" MIN	27 PSF	27 PSF	27 PSF	27 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF

- TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (1) #12 SAE GRADE 5 SHEET METAL SCREWS, (18) SHEET METAL SCREWS REQUIRED FOR LONG CLIPS, SEE DETAIL 1/A.
- MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:
 - ALUMINUM HOUSING UNITS SHALL BE 6063-T6 MIN. ALUMINUM SHEET WITH $F_y = 30\text{ KSI}$, $0.125"$ MIN. THICKNESSES.
 - STEEL HOUSING UNITS SHALL BE 33ksi MIN. STEEL GRADE 33, 27GA MIN. (0-0 099F).
- MAXIMUM ALLOWABLE WIND PRESSURES FOR EACH INDIVIDUAL SUBSTRATE MAY BE EQUIVALENT DUE TO THE LIMITING CAPACITY OF THE 1" CLIP.
- A MAXIMUM ALLOWABLE VALUE OF 100 PSF HAS BEEN UTILIZED, FOR HIGHER BEARING CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

ANCHOR SCHEDULE:

SUBSTRATE	ANCHOR
CONCRETE: (4" THICK MIN, 3192KSI MIN.)	(1) 3/8" CARBON STEEL JMW BUILDUP TAPCON, 1/2" FULL THREAD TO CONCRETE, 26" MIN. EDGE DISTANCE, 3" MIN. SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN. THICK, 6063-T6 MIN. ALUMINUM)	(1) #14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(1) #14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
SEALED WOOD: (SOUTHERN YELLOW PINE, G-0.55 OR BETTER)	(1) #14 SAE GRADE 5 WOOD SCREW TO WOOD MEMBER, PROVIDE 1/2" MIN. THREAD PENETRATION, 1" MIN. EDGE DISTANCE, 1" MIN. PITCH/INCH.

ANCHOR SCHEDULE NOTES:
 1. EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
 2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

TABLE LEGEND:
 - DENOTES EXAMPLE VALUE FOR USE WITH COVER PAGE DIRECTIVE
 - DENOTES VALUES NOT APPROVED FOR USE

2" STEEL CLIP TIE-DOWN SCHEDULE: AT GRADE INSTALLATIONS:

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)											
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)				(2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)				(3) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)			
			SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL	WOOD SCREW TO WOOD
4 FT ²	48" MAX	24" MIN	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF
6 FT ²	48" MAX	24" MIN	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF	100 PSF
8 FT ²	48" MAX	24" MIN	67 PSF	67 PSF	67 PSF	67 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF	99 PSF
12 FT ²	48" MAX	24" MIN	56 PSF	56 PSF	56 PSF	56 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF	84 PSF
16 FT ²	48" MAX	24" MIN	48 PSF	48 PSF	48 PSF	48 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF	72 PSF
20 FT ²	48" MAX	24" MIN	41 PSF	41 PSF	41 PSF	41 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF	61 PSF
24 FT ²	48" MAX	24" MIN	38 PSF	38 PSF	38 PSF	38 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF	57 PSF
28 FT ²	48" MAX	24" MIN	33 PSF	33 PSF	33 PSF	33 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF	50 PSF
30 FT ²	48" MAX	24" MIN	31 PSF	31 PSF	31 PSF	31 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF	49 PSF
36 FT ²	48" MAX	24" MIN	27 PSF	27 PSF	27 PSF	27 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF	44 PSF

- TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (1) #12 SAE GRADE 5 SHEET METAL SCREWS.
- MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:
 - ALUMINUM HOUSING UNITS SHALL BE 6063-T6 MIN. ALUMINUM SHEET WITH $F_y = 30\text{ KSI}$, $0.125"$ MIN. THICKNESSES.
 - STEEL HOUSING UNITS SHALL BE 33ksi MIN. STEEL GRADE 33, 27GA MIN. (0-0 099F).
- A MAXIMUM ALLOWABLE VALUE OF 100 PSF HAS BEEN UTILIZED, FOR HIGHER BEARING CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

ANCHOR SCHEDULE:

SUBSTRATE	ANCHOR
ALUMINUM: (0 325" MIN. THICK, 6063-T6 MIN. ALUMINUM)	(2) #14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
STEEL: (0 325" MIN. THICK, 33 KSI MIN. STEEL)	(2) #14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
SEALED WOOD: (SOUTHERN YELLOW PINE, G-0.55 OR BETTER)	(2) #14 SAE GRADE 5 WOOD SCREW TO WOOD MEMBER, PROVIDE 1/2" MIN. THREAD PENETRATION, 1" MIN. EDGE DISTANCE, 1" MIN. PITCH/INCH.

ANCHOR SCHEDULE NOTES:
 1. EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.
 2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

TABLE LEGEND:
 - DENOTES VALUES NOT APPROVED FOR USE

1-800-865-4911
 WWW.ENGINEERBMP.COM
 DEERFIELD BEACH, FL 33441
 160 SW 12TH AVENUE
 PH: (727) 577-1813
 FLORIDA STATEWIDE APPROVAL

MECHANICAL UNIT STEEL TIE-DOWN CLIPS
 FLORIDA STATEWIDE APPROVAL
 470 28TH STREET NORTH
 ST. PETERSBURG, FL 33711

ENGINEER
 STATE OF FLORIDA
 PROFESSIONAL REGISTERED
 16698

CONTRACT NUMBER: B0000072
 11-BMP-0001
 SCALE: A1:3
 SHEET DESCRIPTION:
 4
 2

1" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS:

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)			
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL
4 FT ²	48" MAX	24" MIN	62 PSF	100 PSF	100 PSF	100 PSF
6 FT ²			41 PSF	77 PSF	77 PSF	77 PSF
8 FT ²			27 PSF	51 PSF	51 PSF	51 PSF
12 FT ²	60" MAX	48" MIN	38 PSF	28 PSF	28 PSF	28 PSF
18 FT ²			27 PSF	20 PSF	20 PSF	20 PSF
20 FT ²			27 PSF	20 PSF	20 PSF	20 PSF
25 FT ²	36 FT ²	36 FT ²	33 PSF	26 PSF	26 PSF	26 PSF
30 FT ²			27 PSF	20 PSF	20 PSF	20 PSF

1. TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (3) #412 SAE GRADE 5 SHEET METAL SCREWS. (5) SHEET METAL SCREWS REQUIRED FOR LONG CLIPS, SEE DETAIL 1/4.

2. MECHANICAL HOUSING UNITS SHALL BE 60x37x10 MIN. ALUMINUM SHEET WITH F_y = 30 KSI, 0.125" MIN. THICKNESS.

2.1. ALUMINUM HOUSING UNITS SHALL BE 60x37x10 MIN. ALUMINUM SHEET WITH F_y = 30 KSI, 0.125" MIN. THICKNESS.

2.2. STEEL HOUSING UNITS SHALL BE 31KSI MIN. STEEL, GRADE 33, 22GA MIN. (1=0.0299").

3. A MAXIMUM ALLOWABLE WIND PRESSURE FOR EACH INDIVIDUAL SUBSTRATE MAY BE EQUIVALENT DUE TO THE LIMITING CAPACITY OF THE 1" CLIP. FOR HIGHER DEMAND CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

ANCHOR SCHEDULE:

SUBSTRATE	ANCHOR
CONCRETE: (4" THICK MIN, 3192KSI MIN.)	(1) 1/2" CARBON STEEL U-BOLTS TAPCON, U _s : FULL CURED TO CONCRETE, 2 1/2" MIN. SPACING TO ANY ADJACENT ANCHOR.
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(1) #14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(1) #14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.

1. EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.

2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

2" STEEL CLIP TIE-DOWN SCHEDULE: ROOF-TOP MOUNTED INSTALLATIONS:

MAXIMUM SURFACE AREA OF UNITS LARGEST FACE	UNIT HEIGHT	UNIT WIDTH	MAXIMUM ALLOWABLE LATERAL WIND PRESSURE (ANCHOR TO HOST STRUCTURE)			
			(1) CLIP AT EACH CORNER (TOTAL OF 4 CLIPS PER UNIT)	(2) CLIPS AT EACH CORNER (TOTAL OF 8 CLIPS PER UNIT)	SHEET METAL SCREW TO ALUMINUM	SHEET METAL SCREW TO STEEL
4 FT ²	48" MAX	24" MIN	100 PSF	100 PSF	100 PSF	100 PSF
6 FT ²			84 PSF	64 PSF	64 PSF	64 PSF
8 FT ²			58 PSF	50 PSF	50 PSF	50 PSF
12 FT ²	60" MAX	48" MIN	42 PSF	31 PSF	31 PSF	31 PSF
18 FT ²			31 PSF	23 PSF	23 PSF	23 PSF
20 FT ²			34 PSF	27 PSF	27 PSF	27 PSF
25 FT ²	36 FT ²	36 FT ²	44 PSF	37 PSF	37 PSF	37 PSF
30 FT ²			27 PSF	20 PSF	20 PSF	20 PSF

1. TIE-DOWN CLIPS SHALL BE FASTENED TO MECHANICAL HOUSING UNIT WITH (3) #412 SAE GRADE 5 SHEET METAL SCREWS.

2. MECHANICAL HOUSING UNIT SHALL CONFORM TO THE FOLLOWING:

2.1. ALUMINUM HOUSING UNITS SHALL BE 60x37x10 MIN. ALUMINUM SHEET WITH F_y = 30 KSI, 0.125" MIN. THICKNESS.

2.2. STEEL HOUSING UNITS SHALL BE 31KSI MIN. STEEL, GRADE 33, 22GA MIN. (1=0.0299").

3. A MAXIMUM ALLOWABLE WIND PRESSURE FOR EACH INDIVIDUAL SUBSTRATE MAY BE EQUIVALENT DUE TO THE LIMITING CAPACITY OF THE 2" CLIP. FOR HIGHER DEMAND CAPACITIES CONTACT THIS ENGINEER FOR SITE-SPECIFIC ENGINEERING.

ANCHOR SCHEDULE:

SUBSTRATE	ANCHOR
ALUMINUM: (0.125" MIN. THICK, 6061-T6 MIN. ALUMINUM)	(3) #14 SAE GRADE 5 SHEET METAL SCREW TO ALUMINUM, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.
STEEL: (0.125" MIN. THICK, 33 KSI MIN. STEEL)	(3) #14 SAE GRADE 5 SHEET METAL SCREW TO STEEL, PROVIDE (5) FINCHES MIN. PAST THREAD PLANE FOR SHEET METAL SCREW.

1. EMBEDMENT AND EDGE DISTANCE EXCLUDES FINISHES, IF APPLICABLE.

2. ENSURE MINIMUM EDGE DISTANCE AS NOTED IN ANCHOR SCHEDULE.

FRANK L. BERNARDO
 No. 40648
 MECHANICAL ENGINEERING
 STATE OF FLORIDA

BMP INTERNATIONAL, INC.
 4710 28TH STREET NORTH
 ST. PETERSBURG, FL 33711
 PH: (727) 577-1613
 WWW.ENGGXP.COM
 P: (954) 354-0666
 DEERFIELD BEACH, FL 33442
 FLORIDA STATEWIDE APPROVAL

REVISION	DATE	DESCRIPTION
1	11/11/11	ISSUED FOR PERMIT
2	11/13/11	PERMIT REVISIONS
3	11/13/11	PERMIT REVISIONS
4	11/13/11	PERMIT REVISIONS

CONTRACT NO. 11-BMP-0001
 DATE: 11/13/11
 PAGE DESCRIPTION: 01



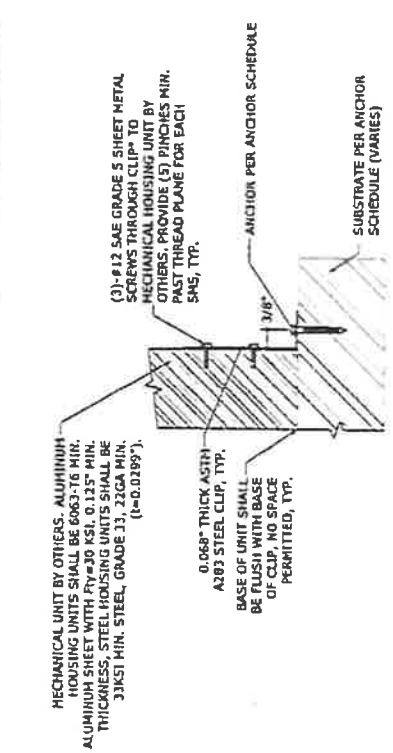
FRANK J. BERMAN
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 LICENSE NO. 46648011

BMP INTERNATIONAL, INC.
 4710 28TH STREET NORTH
 ST. PETERSBURG, FL 33471
 PH: (727) 572-1613
 MECHANICAL UNIT STEEL TIE-DOWN CLIPS
 FLORIDA STATEWIDE APPROVAL

NO.	DATE	DESCRIPTION
1	11/11/13	ISSUED FOR PERMIT
2	11/11/13	ISSUED FOR PERMIT
3	11/11/13	ISSUED FOR PERMIT
4	11/11/13	ISSUED FOR PERMIT

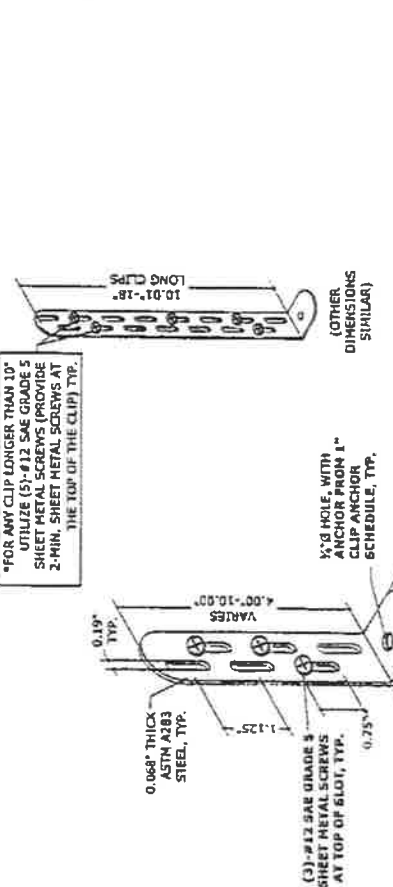
11-BMP-0001
 SCALE: 1/4" = 1'-0"
 PLAN DESCRIPTION

4



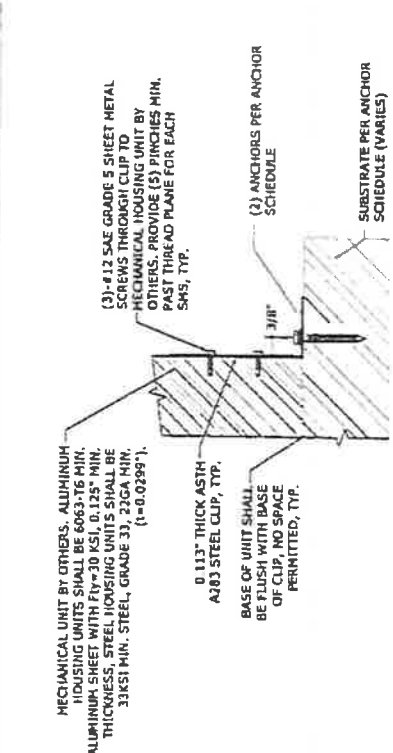
1" TIE-DOWN CLIP ANCHOR DETAIL
 3 4 3" = 1'-0"

CLIP IS DESIGNED FOR FULL CONTACT WITH THE BASE OF EACH MECHANICAL UNIT, TYP.



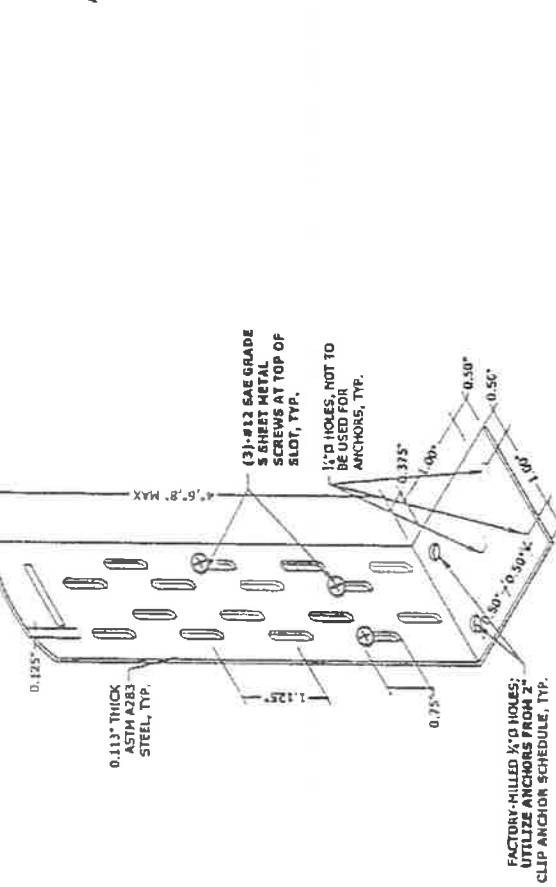
1" CLIP ISOMETRIC DETAIL
 1 4 N.T.S.

ISOMETRIC



2" TIE-DOWN CLIP ANCHOR DETAIL
 4 4 3" = 1'-0"

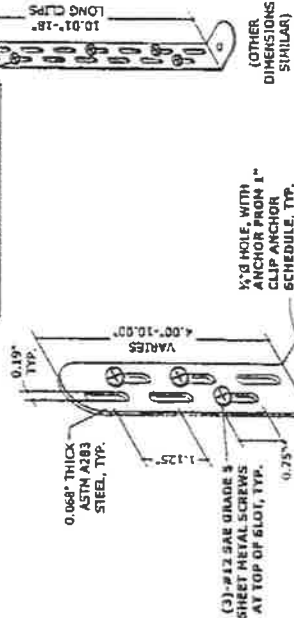
CLIP IS DESIGNED FOR FULL CONTACT WITH THE BASE OF EACH MECHANICAL UNIT, TYP.



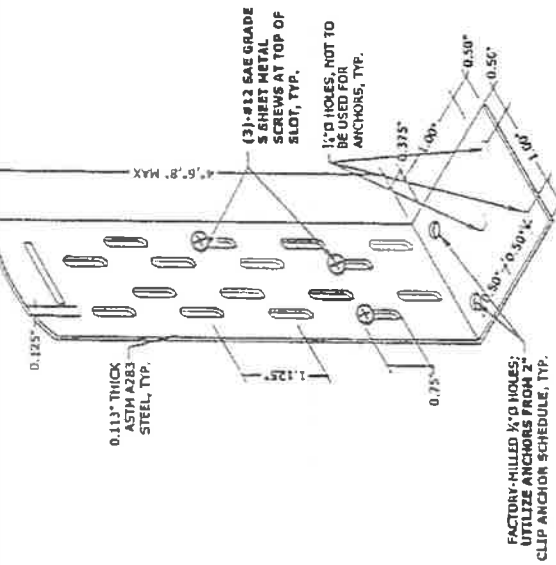
2" CLIP ISOMETRIC DETAIL
 2 4 N.T.S.

ISOMETRIC

*FOR ANY CLIP LONGER THAN 10" UTILIZE (5)-#12 SAE GRADE 5 SHEET METAL SCREWS (PROVIDE 2" MIN. SHEET METAL SCREWS AT THE TOP OF THE CLIP) TYP.



(OTHER DIMENSIONS SIMILAR)



FACTORY-HILLED 1/8" HOLES; UTILIZE ANCHORS FROM 2" CLIP ANCHOR SCHEDULE, TYP.


CLIP ANCHOR SCHEDULE (SEE DRAWING) 10/11/13 11-BMP-0001

Searches
Sales Search
Results
Property Record Card
My Favorites

Sign up for e-Notify

6731 Matchett Rd < 25-23-29-0000-00-136 >

Name(s)	Physical Street Address
Johnson Randall	6731 Matchett Rd
Johnson Michelle	Postal City and Zipcode
Mailing Address On File	Orlando, FL 32809
6731 Matchett Rd	Property Use
Belle Isle, FL 32809-6155	0104 - Single Fam Class IV
Incorrect Mailing Address?	Municipality
	Belle Isle



6731 MATCHETT RD 03/18/2014

Values, Exemptions and Taxes
Property Features
Sales Analysis
Location Info
Market Stats

Update Information

Parcel Sales History

Sale Date	Sale Amount	Instrument #	Book/Page	Seller(s)	Buyer(s)	Deed Code	Vac/Imp
08/21/2014	\$60,000	20140434333	10879 / 0617	Miller Christopher Todd	Johnson Randall Johnson Michelle	Warranty Deed	Improved
10/31/2003	\$1,230,000	20030662436	07194 / 0469	Brazell Robert A Jr Brazell Pamela S	Johnson Randall Johnson Michelle	Warranty Deed	Improved
10/29/1999	\$300,000	19990492207	05881 / 2043	Miller Gary D Miller Katherine A	Brazell Robert A Jr Brazell Pamela S	Warranty Deed	Vacant
08/01/1977	\$1,600	19771152444	02822 / 0798			Warranty Deed	Vacant

Sales In Subdivision Within Last 1 Year

Address	Sale Date	Sale Amount	\$/SQFT	Deed Code	Beds/Baths	Instrument #	Book/Page
There are no similar sales to display							

This Data Printed on 04/20/2015 and System Data Last Refreshed on 04/19/2015

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 Orange County Property Appraiser • 200 S. Orange Avenue, Suite 1700 • Orlando, FL 32801
 Office Hours: 8:00 a.m. to 5:00 p.m. Monday - Friday • Phone: 407.836.5044
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