

Rebid of Roof Replacements at Various City Buildings

Invitation for Bids # PSPW-19-15

General Information			
Project Cost Estimate	Varies by location	See Section 1.4	
Project Timeline	Varies by location	See Section 1.4	
Evaluation of Proposals	Staff	See Section 1.7	
Mandatory Pre-Bid Meeting	10:00 a.m. on December 18, 2019 Starting at the Public Services	See Section 1.8	
	Conference room, 8300 South Palm		
	Drive, Pembroke Pines FL 33025		
Question Due Date	January 7, 2020	See Section 1.8	
Proposals will be accepted until	2:00 p.m. on January 21, 2020	See Section 1.8	
5% Proposal Security / Bid Bond	Required in the event that the proposal exceeds \$200,000		
100% Payment and Performance Bonds	Required in the event that the	See Section 4.2	
	proposal exceeds \$200,000		

THE CITY OF PEMBROKE PINES
PURCHASING DIVISION
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FLORIDA 33025
(954) 518-9020

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Attachment B: Non-Collusive Affidavit

Attachment C: Proposer's Qualifications Statement

Attachment D: Sample Insurance Certificate

Attachment E: Specimen Contract - Construction Agreement

Attachment F: References Form

Attachment G: Mandatory Pre-Bid/Site Visit Confirmation Form

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SECTION 1 - INSTRUCTIONS

1.1 NOTICE

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

IFB # PSPW-19-15 Rebid of Roof Replacements at Various City Buildings

Solicitations may be obtained from the City of Pembroke Pines website at http://www.ppines.com/index.aspx?NID=667 and on the www.BidSync.com website.

If you have any problems downloading the solicitation, please contact the BidSync Support line at 1-800-990-9339.

If additional information help is needed with downloading the solicitation package please contact the Purchasing Office at (954) 518-9020 or by email at purchasing@ppines.com. The Purchasing Office hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the "Ask a Question" option tab available on the BidSync website. Responses to the questions will be provided online at www.bidsync.com. Such request must be received by the "Question Due Date" stated in the solicitation. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

Proposals will be accepted until 2:00 p.m., Tuesday, January 21, 2020. Proposals must be submitted electronically at <u>www.BidSync.com</u>. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk's Office, in the City Hall Administration Building, 4th Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025.

1.2 PURPOSE

The City of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the Contractor, to replace the roof at the Carl Shechter Community Center and several other city-owned facilities, in accordance with the terms, conditions, and specifications contained in this solicitation.

1.3 SCOPE OF WORK

1.3.1 PROJECT DETAILS FOR FLAT ROOFS

- Roof system design shall be based on a 180 mph wind resistance.
- Verification of all dimensions, square footages, and quantities are the responsibility of the Contractor.
- The bid shall include pricing for a built-up roofing system. Vendor shall use CertainTeed roof materials or proven equal and receive approval from the city representative for such.
- Contractor to provide separate price to replace the rotunda tile roof at the Carl Shechter Community center.
- All products must be Miami/Dade approved and installed in accordance with the 2017 Florida Building Code.
- Where applicable, roof insulation shall be replaced with equal or greater quality and R-Value.
- At no time shall the contractor uncover work which cannot be protected the same day.
- Contractor shall be responsible for removal and re-installation of all roof top equipment including but not limited to all skylights, satellite dishes, lightning protection, A/C equipment, and electrical/refrigerant penetrations where applicable.
- Remove all existing roof surfaces to supporting deck.
- Contractor is responsible for cutting wall to remove old stucco stop at flashing.
- Repair any exposed damaged surfaces to include light weight concrete and stucco surfaces prior to installation of new roofing system. Contractor to provide price per foot on damaged lightweight concrete and stucco.
- For roofs that are not pre-tapered: Install all new insulation board (or lightweight concrete as needed) with a ¹/₄" per foot required taper and any required crickets to allow proper drainage; there will be <u>zero tolerance</u> for ponding water.
- Contractor shall seal, as required around existing vents, curbs, drains, scuppers or any other roof penetrations.
- Install 75# base sheet by mechanically fastening as per appropriate code requirements and engineer specifications.
- Install 2 plies of Flintglas ply VI hot mopped with asphalt.
- Install 1 ply of granulated fiberglass cap sheet.
- Install modified bitumen on all walls and flashings.
- Install all required membrane and sheet metal flashings in accordance with the local building code and the manufacturer's standard details.
- Flash all required curbs, parapet walls (up and over), mechanical curbs or other required areas.
- Install cantilever strip around all curbs and parapet walls.
- Install new retrofit drains.
- Secure all base flashings with proper sealant.
- Install termination bar around all curbs and wall flashing.
- Install all new surface mount stainless steel stucco stop where applicable.
- Fabricate and install all new stainless steel pitch pans throughout.
- Install expansion joints as required.

- Install all new 26 gauge stainless steel overflow scupper flashing.
- Install all new 26 gauge stainless steel eave drip edge where applicable.
- Install all new 26 gauge stainless steel coping caps with proper PT wood nailers throughout.
- Contractor shall replace all fascia and drip edge nailer with PT Wood and add a line item with a cost per sheet to be used for plywood sheeting replacement.
- Install walk pads from roof hatch to all A/C units.
- Where applicable (coping cap shall not have exposed mechanical fasteners).
- Install all new goose necks to house refrigerant lines for A/C units where applicable.
- Install all new roofing equipment curbs where applicable.
- Install all new skylights where applicable.
- All equipment must be installed as per all governing code requirements.
- All work must be started within 10 days of the issuance of the Notice to Proceed and have passed all inspections within the specified timeline for each roof project. See Section 1.4, "Project Cost Estimate & Timeline" for different timeline requirements from NTP to completion on different jobs.
- Contractor to provide a price per square foot to repair light weight concrete deck and hidden stucco surfaces as needed.

1.3.2 PROJECT DETAILS FOR SHINGLE ROOFS

- Remove entire roofing system to wood deck.
- Install 30# felt, nail off following building code requirements.
- Install green Owens Corning Architectural Dimensional Shingles.
- Install all new PT 2X10 fascia.
- Install all new led stacks and roof vents.
- Install all new white 3X3 drip edge.
- Remove Boston gables to update design to hip roof. (Pasadena Restrooms only)
- Contractor shall provide a price per square foot for replacing damaged wood decking.
- Contractor shall remove and reinstall gutters and downspouts as needed.

1.3.3 GENERAL INFORMATION

- The City reserves the right to split awards. The intent is to complete the roof projects during the winter season to prevent rain delays.
- The minimum experience required as a licensed Roofing Contractor and/or General Contractor is five (5) years for these projects.
- Contractor shall provide all materials, labor, equipment, and any other necessary items required for complete installation.
- All documents, plans, submittals, and NOA's required to obtain a permit are to be provided by the contractor.
- Contractor must provide all testing, manufacturer warranties, and certifications.

- The successful Bidder shall employ a competent English speaking superintendent who shall be in attendance at the project site during the progress of the work. The superintendent shall be the primary representative for the Bidder and all communications given to and all decisions made by the superintendent shall be binding to the Bidder.
- Contractor will be required to schedule all work with the City's Project Manager.
- Contractor shall be responsible for all debris removal and restoration to any existing areas damaged by the contractor once the project is completed. Site shall be made safe, and clean of debris at the end of each work day.
- All precautions need to be taken for life safety and protection of people, vehicles, and all other structures on the site.
- The work must be performed Monday through Friday or as approved by the Project Manager.
- Damaged stucco surfaces that are visible prior to the roof tear off shall be included in the bid price. Hidden stucco and light weight concrete surfaces shall be repaired using the price per square foot provided by the contractor as part of the bid and as approved by the project manager prior to the execution of the repair.

1.3.4 USE OF PREMISES

- Contractor shall limit their use on the premises for work and storage, and to allow for Owner's Occupancy.
- Contractor shall coordinate use of premises under direction of owner representative, assume full responsibility for protection and safe keeping of products under this contract stored on site, and move any stored products under Contractor's control which interfere with operations of the Owners or separate contractor.

1.4 PROJECT COST ESTIMATE & TIMELINE

The estimated total cost for this group of projects is \$900,000.

Location and Address	Approximate Square Footage	Calendar Days From NTP to Completion
Carl Shechter Community Center 301 N.W. 103 Ave. Pembroke Pines FL 33025	40,000 sq. ft.	90
Pines Recreation Center North Concession Stand 7400 Pines Blvd. Pembroke Pines FL 33024	6,624 sq. ft.	30
Pasadena Park Restroom Bldg. 8815 Pasadena Blvd. Pembroke Pines FL 33024	1,200 sq. ft.	30
East Side Maintenance Bldg. 9870 Johnson St. Pembroke Pines FL 33025	2,500 sq. ft.	30
Studio 18 1101 Poinciana Dr. Pembroke Pines FL 33025	11,270 sq. ft.	45
Bright Beginnings Preschool 901 NW 129 Ave. Pembroke Pines FL 33028	13,400 sq. ft.	45
FSU Charter School "B" Building 601 SW 172 Ave. Pembroke Pines FL 33029	21,120 sq. ft.	45

1.4.1 PERMITS

The City anticipates this project to require the following permits:

Permit	Agency	Cost (or related
		method of calculation)
Building	City of Pembroke Pines	3% of construction costs
	Building Department	
	(Calvin, Giordano & Associates, Inc.)	

1.4.2 PERMIT ALLOWANCE

Please note the City will include a Permit Allowance for this project, therefore proposers should not include permit costs in their total proposal price.

The City shall include a "Permit Allowance" for this project. The Contractor shall obtain all required permits to complete the work, however the City shall utilize the Permit Allowance to reimburse the contractor for the related permit, license, impact or inspection fees. Payments will be made to the contractor based on the actual cost of permits upon submission of paid permit receipts. The City shall not pay for other costs related to obtaining or securing permits.

The City shall determine the amount of the allowance at time of award. The allowance may be based on a specified percent of the proposed project amount and shall be established

for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. Any Permit Allowance funds that have not been utilized at the end of the project will remain with the City, if the City Permit fees exceed the allowance indicated, the City will reimburse the contractor the actual amount of City Permit Fees required for project completion.

1.4.3 WARRANTIES

- The awarded contractor must provide a warranty of not less than 10 years for labor.
- The awarded contractor must provide a manufacturer's warranty of not less than twenty (20) years for materials.
- Copies of all warranties MUST be provided with bids and shall be No Dollar Amount Limit.

1.5 PROPOSAL REQUIREMENTS

The following documents will need to be completed, scanned and submitted through www.bidsync.com as part of the bidder's submittal. The proposer interested in responding to this solicitation must provide the information requested below. Submittals that do not respond completely to all requirements specified herein may be considered non-responsive and eliminated from the process.

1.5.1 Attachment A: Contact Information Form

- a. Attached is contact information form (Attachment A) where the vendor will enter their contact information and complete the proposal checklist. The Contact information form shall be electronically signed by the contact person authorized to represent the contractor. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal.
- b. The vendor must provide their pricing through the designated lines items listed on the BidSync website.
- c. Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.
- d. The contact information form should contain an electronic signature of the authorized representative of the Proposer along with the address and telephone number for communications regarding the Proposal.

- e. Proposals by corporations should be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must also be shown.
- f. Proposals by partnerships should be executed in the partnership name and signed by a partner whose title and the official address of the partnership must be shown.

1.5.2 Attachment B: Non-Collusive Affidavit

1.5.3 Attachment C: Proposer's Qualifications Statement

1.5.4 Attachment F: References Form

a. Complete **Attachment F: References Form**, preferably where the team was the same. References should be from the last five years and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications.

1.5.5 Attachment G: Mandatory Pre-Bid Meeting Form

1.5.6 Proposal Security (Bid Bond Form or Cashier's Check)

- a. Each Proposal must be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.
- b. Contingency is not to be counted in the total amount the proposal security is based on.
- c. Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through BidSync.
- d. Proposers must also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive.
- e. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "BID SECURITY IFB # PSPW-19-15 Rebid of Roof

Replacements at Various City Buildings" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

f. Please see SECTION 4 - SPECIAL TERMS & CONDITIONS of this IFB for additional information.

1.5.7 Copies of Warranties

1.6 VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS

The City has implemented a new process that is intended to make the bidding process easier for vendors that bid on multiple City projects. This process will require vendors to complete and submit the following standard forms and documents at any time prior to bidding on a project. In addition, the vendors will be able to utilize these same forms without the need to re-fill and resubmit the forms each time they bid on a City project.

<u>Furthermore</u>, please make sure to update this information on an as-needed basis so that all pertinent information is accurate, such as local business tax receipts, and any other relevant information.

These forms will be found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines. Please note that the BidSync website requires bidders to complete all of these qualifications prior to being able to submit questions on any bids, therefore, please make sure to complete this information as soon as possible.

The following documents can be completed prior to the bidding process through the BidSync website and do not need to be attached to your submittal as the BidSync website will automatically include it.

1.6.1 Vendor Information Form

1.6.2 Form W-9 (Rev. October 2018)

a. Previously dated versions of this form will delay the processing of any payments to the selected vendor.

1.6.3 Sworn Statement on Public Entity Crimes Form

1.6.4 Local Vendor Preference Certification

a. If claiming Local Pembroke Pines Vendor Preference, business must attach a current business tax receipt from the City of Pembroke Pines

- b. If claiming Local Broward County Vendor Preference, business must attach a current business tax receipt from Broward County or the city within Broward County where the business resides.
- c. The Local Vendor Preference Certification form must be completed by/for the proposer; the proposer <u>WILL NOT</u> qualify for Local Vendor Preference based on their sub-contractors' qualifications.

1.6.5 Local Business Tax Receipts

1.6.6 Veteran Owned Small Business Preference Certification

- a. If claiming Veteran Owned Small Business Preference Certification, business must attach the "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).
- b. The Veteran Owned Small Business Preference Certification form must be completed by/for the proposer; the proposer <u>WILL NOT</u> qualify for Veteran Owned Small Business Preference based on their sub-contractors' qualifications.

1.6.7 Equal Benefits Certification Form

1.6.8 Vendor Drug-Free Workplace Certification Form

1.6.9 Scrutinized Company Certification

1.7 EVALUATION OF PROPOSALS & PROCESS OF SELECTION

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.

1.8 TENTATIVE SCHEDULE OF EVENTS

Event	Time &/or Date
Issuance of Solicitation (Posting Date)	December 10, 2019
Mandatory Pre-Bid Meeting	10:00 a.m. on December 18, 2019
Question Due Date	January 7, 2020
Anticipated Date of Issuance for the	January 13, 2020
Addenda with Questions and Answers	
Proposals will be accepted until	2:00 p.m. on January 21, 2020
Proposals will be opened at	2:30 p.m. on January 21, 2020
Evaluation of Proposals by Staff	TBD
Recommendation of Contractor to	TBD
City Commission award	
Issuance of Notice to Proceed	TBD
Project Commencement	Not later than 10 days after NTP
Project Completion	Varies by location; see Section 1.4

1.8.1 MANDATORY PRE-BID MEETING / SITE VISIT

There will be a mandatory scheduled pre-bid meeting on **December 18, 2019 at 10:00 a.m.** The meeting will start in the Public Services Conference room, located at 8300 South Palm Drive, Pembroke Pines FL 33025, and vendors will proceed to the remaining locations at the direction of the Public Services staff in attendance.

All vendors will be required to complete **Attachment G "Mandatory Pre-Bid Meeting Form"** at the meeting and submit it as part of their proposal to show proof of attendance to the mandatory meeting.

1.9 SUBMISSION REQUIREMENTS

Bids/proposals <u>must be submitted electronically</u> at <u>www.bidsync.com</u> on or before 2:00 p.m. on January 21, 2020.

Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide their pricing through the designated lines items listed on the BidSync website. In addition, the vendor must complete any webforms on the BidSync website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. <u>Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.</u>

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "BID SECURITY - IFB # PSPW-19-15 Rebid of Roof Replacements at Various City Buildings" and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

SECTION 2 - INSURANCE REQUIREMENTS

The CONTRACTOR shall indemnify and hold harmless the CITY and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the CITY or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the CONTRACTOR or its employees, agents, servants, partners principals or subcontractors. The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorney's fees which may issue thereon. The CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein provided.

CONTRACTOR shall not commence work under this Agreement until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on his subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.

CERTIFICATES OF INSURANCE, reflecting evidence of the required insurance, shall be filed with the City's Risk Manager prior to the commencement of this Agreement. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. The insurance company shall be rated no less than "A" as to management, and no less than "Class VI" as to financial strength according to the latest edition of Best's Insurance Guide published by A.M. Best Company.

Policies shall be endorsed to provide the CITY thirty (30) days' notice of cancellation, material change or non-renewal of policies required under the contract. If the carrier will not agree to this notification, the CONTRACTOR or its insurance broker shall notify the CITY of any cancellation or reduction in coverage within seven days of receipt of insurer's notification of cancellation or reduction in coverage.

Insurance shall be in force until all obligations required to be fulfilled under the terms of the Agreement are satisfactorily completed as evidenced by the formal acceptance by the CITY. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, then in that event, the CONTRACTOR shall furnish, at least fifteen (15) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall not commence nor continue to provide any services pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.

The insurance requirements specified in this Agreement are minimum requirements and in no way reduce any liability the CONTRACTOR has assumed in the indemnification/hold harmless section(s) of this Agreement.

2.1 REQUIRED INSURANCE

- A. COMMERCIAL GENERAL LIABILITY INSURANCE including, but not limited to: coverage for premises & operations, personal & advertising injury, products & completed operations, Liability assumed under an Insured Contract (including tort liability of another assumed in a business contract), and independent contractors. Coverage must be written on an occurrence basis, with limits of liability no less than:
 - 1. Each Occurrence Limit \$1,000,000
 - 2. Fire Damage Limit (Damage to rented premises) \$100,000
 - 3. Personal & Advertising Injury Limit \$1,000,000
 - 4. General Aggregate Limit \$2,000,000
 - 5. Products & Completed Operations Aggregate Limit \$2,000,000 (mostly for construction or equipment sold to the CITY)

Products & Completed Operations Coverage shall be maintained for two (2) years after the final payment under this contract. (Increase to 10 years for construction projects) (For construction projects also include: Designated Construction Project(s) General Aggregate Limit)

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. City's Additional Insured status shall extend to any coverage beyond the minimum requirements for limits of liability found herein.

- B. WORKERS' COMPENSATION AND EMPLOYERS LIABILITY INSURANCE covering all employees, and/or volunteers of the CONTRACTOR engaged in the performance of the scope of work associated with this Agreement. In the case any work is sublet, the CONTRACTOR shall require the subcontractors similarly to provide Workers Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. Coverage for the CONTRACTOR and his subcontractors shall be in accordance with applicable state and/or federal laws that may apply to Workers' Compensation Insurance with limits of liability no less than:
 - 1. Workers' Compensation : Coverage A Statutory
 - 2. Employers Liability: Coverage B \$500,000 Each Accident

\$500,000 Disease – Policy Limit \$500,000 Disease – Each Employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

Coverage shall be included for injuries or claims under the USL&H or Jones Act, when applicable.

C. AUTO LIABILITY INSURANCE covering all owned, leased, hired, non-owned and employee non-owned vehicles used in connection with the performance of work under this Agreement, with a combined single limit of liability for bodily injury and property damage no less than:

- Any Auto (Symbol 1)
 Combined Single Limit (Each Accident) \$1,000,000
- Hired Autos (Symbol 8)
 Combined Single Limit (Each Accident) \$1,000,000
- 3. Non-Owned Autos (Symbol 9)
 Combined Single Limit (Each Accident) \$1,000,000

If work under this Agreement includes transportation of hazardous materials, policy shall include pollution liability coverage equivalent to that provided by ISO pollution liability-broadened coverage for auto endorsement CA9948 and the Motor Carrier Act endorsement MCS90.

- **D. PROFESSIONAL LIABILITY/ERRORS & OMISSIONS INSURANCE,** when applicable, with a limit of liability no less than \$1,000,000 per wrongful act. This coverage shall be maintained for a period of no less than three (3) years after final payment of the contract. (Increase to 10 years for construction projects)
- E. ENVIRONMENTAL/POLLUTION LIABILITY shall be required with a limit of no less than \$1,000,000 per wrongful act whenever work under this Agreement involves potential losses caused by pollution conditions. Coverage shall include: Contractor's completed operations as well as sudden and gradual pollution conditions. If coverage is written on a claims-made basis, coverage shall be maintained for a period of no less than three (3) years after final payment of the contract. The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. Furthermore, the CITY'S Additional Insured status shall extend to any coverage beyond the minimum requirements for limits of liability found herein.
- F. CYBER LIABILITY including Network Security and Privacy Liability when applicable, with a limit of liability no less than \$1,000,000 per loss. Coverage shall include liability arising from: theft, dissemination and/or use of confidential information stored or transmitted in electronic form, unauthorized access to, use of, or tampering with computer systems, including hacker attacks or inability of an authorized third party to gain access to your services, including denial of service, and the introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network, or similar computer-related property and the data, software and programs thereon. This coverage shall be maintained for a period of no less than three (3) years after final payment of the contract. The City of Pembroke Pines must be shown as an additional insured with respect to this coverage. Furthermore, the CITY'S Additional Insured status shall extend to any coverage beyond the minimum requirements for limits of liability found herein.
- **G. CRIME COVERAGE** when applicable, shall include employee dishonesty, forgery or alteration, and computer fraud in an amount of no less than \$1,000,000 per loss. If Contractor is physically located on the City's premises, a third-party fidelity coverage extension shall apply.
- **H. BUILDER'S RISK INSURANCE** shall be "All Risk" for one hundred percent (100%) of the completed value of the project with a deductible of not more than five percent (5%) for Named Windstorm and \$20,000 per claim for all other perils. The Builder's Risk Insurance

shall include interests of the CITY, the CONTRACTOR and subcontractors of the project. The CONTRACTOR shall include a separate line item for all costs associated with the Builder's Risk Insurance Coverage for the project. The CITY reserves the right at its sole discretion to utilize the CONTRACTOR'S Builder's Risk Insurance or for the CITY to purchase its own Builder's Risk Insurance for the Project. Prior to the CONTRACTOR purchasing the Builder's Risk insurance for the project, the CONTRACTOR shall allow the CITY the opportunity to analyze the CONTRACTOR'S coverage and determine who shall purchase the coverage. Should the CITY utilize the CONTRACTOR'S Builder's Risk Insurance, the CONTRACTOR shall be responsible for all deductibles. If the CITY chooses to purchase the Builder's Risk Coverage on the project, the CONTRACTOR shall provide the CITY with a change order deduct for all premiums and costs associated with the Builder's Risk insurance in their schedule. Should the CITY choose to utilize the CITY'S Builder's Risk Program, the CITY shall be responsible for the Named Windstorm Deductible and the CONTRACTOR shall be responsible for the All Other Perils Deductible.

I. SEXUAL ABUSE may not be excluded from any policy for Agreements involving any interaction with minors or seniors.

2.2 REQUIRED ENDORSEMENTS

- 1. The City of Pembroke Pines shall be named as an Additional Insured on each of the General Liability polices required herein
- 2. Waiver of all Rights of Subrogation against the CITY
- 3. 30 Day Notice of Cancellation or Non-Renewal to the CITY
- 4. CONTRACTOR's policies shall be Primary & Non-Contributory
- 5. All policies shall contain a "severability of interest" or "cross liability" liability clause without obligation for premium payment of the CITY
- 6. The City of Pembroke Pines shall be named as a Loss Payee on all Property and/or Inland Marine Policies as their interest may appear.

CONTRACTOR shall name the CITY, as an additional insured on each of the General Liability policies required herein and shall hold the CITY, its agents, officers and employees harmless on account of claims for damages to persons, property or premises arising out of the services provided hereunder. Any insurance required of the CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

The CITY reserves the right to require any other additional types of insurance coverage and/or higher limits of liability it deems necessary based on the nature of work being performed under this Contract.

<u>SECTION 3 - GENERAL TERMS &</u> CONDITIONS

3.1 EXAMINATION OF CONTRACT DOCUMENTS

Before submitting a Proposal, each Proposer should (a) consider federal, state and local laws, ordinances, rules and regulations that may in any manner affect cost or performance of the work, (b) study and carefully correlate the Proposer's observations with the Proposal Documents; and (c) notify the Purchasing Manager of all conflicts, errors and discrepancies, if any, in the Proposal Documents.

The Proposer, by and through the submission of a Proposal, agrees that Proposer shall be held responsible for having familiarized themselves with the nature and extent of the work and any local conditions that may affect the work to be done and the services, equipment, materials, parts and labor required.

3.2 CONFLICT OF INSTRUCTIONS

If a conflict exists between the General Conditions and Instructions stated herein and specific conditions and instructions contained in specifications, the specifications shall govern.

3.3 ADDENDA or ADDENDUM

A formal solicitation may require an Addendum to be issued. An addendum in some way may clarify, correct or change the original solicitation (i.e. due date/time, specifications, terms, conditions, line item). Vendors submitting a proposal should check the BidSync website for any addenda issued. Vendors are cautioned not to consider verbal modifications to the solicitation, as the addendum issued through BidSync will be the only official method whereby changes will be made.

3.4 INTERPRETATIONS AND QUESTIONS

If the Proposer is in doubt as to the meaning of any of the Proposal Documents, is of the opinion that the Conditions Specifications contain errors or contradictions or reflect omissions, or has any question concerning the conditions and specifications, the Proposer shall submit a question for interpretation or clarification. The City requires all questions relating to the solicitation be entered through the "Ask a Question" option tab available on the BidSync website. Responses questions will be provided online at www.bidsync.com. Such request must be received by the "Question Due Date" stated in the solicitation. Questions received after "Question Due Date" shall not be answered. Interpretations or clarifications in response to such questions will be issued via BidSync. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

BidSync Support is also available to assist proposers with submitting their proposal and to ensure that proposers are submitting their proposals correctly. Proposers should ensure that they contact they BidSync support line at 1-800-990-9339 with ample time before the bid closing date and time.

For all other questions related to this solicitation, please contact the Purchasing Division at purchasing@ppines.com.

3.5 RULES, REGULATIONS, LAWS, ORDINANCES and LICENSES

The awarded contractor shall observe and obey all laws, ordinances, rules, and regulations of the federal, state, and CITY, which may be applicable to the service being provided. The awarded firm shall have or be responsible for obtaining all necessary permits or licenses required, if necessary, in order to provide this service.

Bidder warrants by submittal that prices quoted here are in conformity with the latest federal price guidelines, if any.

3.6 WARRANTIES FOR USAGE

Whenever a bid is sought, seeking a source of supply for a specified time for materials or service, the quantities or usage shown are estimated only. No guarantee or warranty is given or implied by the City as to the total amount that may or may not be purchased from any resulting contracts. These quantities are for bidders information only and will be used for tabulation and presentation of bid.

3.7 BRAND NAMES

If and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase "OR EQUAL" is added. However, if a product other than that specified is bid, Bidders shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the vendor's responsibility to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening. unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

3.8 QUALITY

All materials used for the manufacture or construction of any supplies, materials, or equipment covered by this bid shall be new, the latest model, of the best quality, and highest grade workmanship, unless otherwise noted.

3.9 SAMPLES

Samples, when requested, must be furnished before, or at the bid opening, unless otherwise specified, and delivered free of expense to the City and if not used in testing or destroyed, will upon request within thirty (30) days of bid award be returned at the bidders expense.

3.10 DEVELOPMENT COSTS

Neither the City nor its representatives shall be liable for any expenses incurred in connection with the preparation, submission or presentation of a Bid in response to this solicitation. All information in the Bid shall be provided at no cost to the City.

3.11 PRICING

Prices should be stated in units of quantity specified in the bidding specifications. In case of discrepancy in computing the amount of the bid, the unit prices quoted will govern.

Bidder warrants by virtue of bidding that prices, terms, and conditions quoted in his bid will be firm for acceptance for a period of ninety (90) days from date of bid opening unless otherwise stated by the City or bidder.

3.12 DELIVERY POINT

All items shall be delivered F.O.B. destination, and delivery cost and charges included in the bid price. Failure to do so may be cause for rejection of bid.

3.13 TAX EXEMPT STATUS

The City is exempt from Florida Sales and Federal Excise taxes on direct purchase of tangible property.

3.14 CONTRACT TIME

By virtue of the submission of the Proposal, Proposer agrees and fully understands that the completion time of the work of the Contract is an essential and material condition of the Contract and that time is of the essence. The Successful Proposer agrees that all work shall be prosecuted regularly, diligently and uninterrupted at such rate of progress as will ensure full completion thereof within the time specified. Failure to complete the work within the time period specified shall be considered a default.

In addition, time will be of the essence for any orders placed as a result of this bid. Purchaser reserves the right to cancel such orders, or part thereof, without obligation if delivery is not made at the time(s) or place(s) specified.

3.15 COPYRIGHT OR PATENT RIGHTS

Bidder warrants that there have been no violations of copyrights or patent rights in manufacturing, producing, or selling other goods shipped or ordered as a result of this bid, and seller agrees to hold the purchaser harmless from any and all liability, loss or expense occasioned by such violation.

3.16 PUBLIC ENTITY CRIMES

"A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a supplier, subcontractor, or contractor. consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list."

The Public Entity Crime Affidavit Form, attached to this solicitation, includes

documentation that shall be executed by an individual authorized to bind the Proposer. The Proposer further understands and accepts that any contract issued as a result of this solicitation shall be either voidable or subject to immediate termination by the City. In the event there is any misrepresentation or lack of compliance with the mandates of Section 287.133 or Section 287.134, respectively, Florida Statutes. The City in the event in such termination, shall not incur any liability to the Bidder for any goods, services or materials furnished.

3.17 CONFLICT OF INTEREST

The award of any contract hereunder is subject to the provisions of Chapter 112, Florida Statutes. Proposers must disclose with their Proposal the name of any officer, director, partner, proprietor, associate or agent who is also an officer or employee of CITY or any of its agencies. Further, all Proposers must disclose the name of any officer or employee of CITY who owns, directly or indirectly, an interest of five percent (5%) or more in the Proposer's firm or any of its branches or affiliate companies.

3.18 FACILITIES

The City reserves the right to inspect the Bidder's facilities at any time with prior notice.

3.19 ENVIRONMENTAL REGULATIONS

CITY reserves the right to consider Proposer's history of citations and/or violations of environmental regulations in determining a Proposer's responsibility, and further reserves the right to declare a Proposer not responsible if the history of warrant such determination. violations Proposer shall submit with the Proposal, a complete history of all citations and/or violations, notices and dispositions thereof. non-submission The of anv documentation shall be deemed to be an affirmation by the Proposer that there are no citations or violations. Proposer shall notify CITY immediately of notice of any citation or violation that Proposer may receive after the Proposal opening date and during the time of performance of any contract awarded to Proposers.

3.20 SIGNATURE REQUIRED

All proposals must be signed with the firm name and by an officer or employee having authority to bind the company or firm by his signature. FAILURE TO PROPERLY SIGN PROPOSAL SHALL INVALIDATE SAME, AND IT MAY NOT BE CONSIDERED FOR AWARD.

The individual executing this Bid on behalf of the Company warrant to the City that the Company is authorized to do business in the State of Florida, is in good standing and that Company possesses all of the required licenses and certificates of competency required by the State of Florida and Broward County to provide the goods or perform the services herein described.

The signed bid shall be considered an offer on the part of the bidder or contractor, which offer shall be deemed accepted upon approval by the City Commission of the City of Pembroke Pines and in case of default on the part of the bidder or contractor after such acceptance, the City of Pembroke Pines may take such action as it deems appropriate including legal action for damages or specific performance.

3.21 MANUFACTURER'S CERTIFICATION

The City of Pembroke Pines reserves the right to request from bidder separate manufacturer certification of all statements made in the proposal.

3.22 MODIFICATION OR WITHDRAWAL OF PROPOSAL

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals.

3.23 PUBLIC BID; BID OPENING AND GENERAL EXEMPTIONS

All submittals received by the deadline will be recorded, and will subsequently be publicly opened on the same business day at 2:30 p.m. at the office of the City Clerk, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

All Proposals received from Proposers in response to the solicitation will become the property of CITY and will not be returned to the Proposers. In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of CITY. Proposers are requested to identify specifically any information contained in their Proposals which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, citing specifically the applicable exempting law.

Pursuant to Section 119.071 of the Florida Statutes, sealed bids, proposals, or replies received by a Florida public agency shall remain exempt from disclosure until an intended decision is announced or until 30 days from the opening, whichever is earlier.

Therefore, bidders will not be able to procure a copy of their competitor's bids until an intended decision is reached or 30 days has elapsed since the time of the bid opening.

However, pursuant to Section 255.0518 of the Florida Statutes, when opening sealed bids that are received pursuant to a competitive solicitation for **construction or repairs on a public building or public work**, the entity shall:

(a) Open the sealed bids at a public meeting.

- (b) Announce at that meeting the name of each bidder and the price submitted in the bid.
- (c) Make available upon request the name of each bidder and the price submitted in the bid.

For solicitations that are **not** for "construction or repairs on a public building or public work" the City shall not reveal the prices submitted in the bids until an intended decision is announced or until 30 days from the opening, whichever is earlier.

3.24 RESERVATIONS FOR REJECTION AND AWARD

The City of Pembroke Pines reserves the right to accept or reject any and all bids or parts of bids, to waive irregularities and technicalities, and to request rebids. The City also reserves the right to award a contract on such items(s) or service(s) the City deems will best serve its interests. All bids shall be awarded to the most responsive/responsible bidder, provided the (City) may for good cause reject any bid or part thereof. It further reserves the right to award a contract on a split order basis, or such combinations as shall best serve the interests of the City unless otherwise No premiums, rebates or specified. gratuities permitted, either with, prior to, or after award. This practice shall result in the cancellation of said award and/or return of items (as applicable) and the recommended removal of bidder from bid list(s).

3.25 BID PROTEST

Any protests or challenges to this competitive procurement shall be governed by Section 35.38 of the City's Code of Ordinances.

3.26 INDEMNIFICATION

The Successful Proposer shall pay all claims, losses, liens, settlements or judgments of any nature whatsoever in connection with the subsequent indemnifications including, but not limited to,

reasonable attorney's fees (including appellate attorney's fees) and costs.

CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of Proposer under Successful the indemnification agreement. **Nothing** contained herein is intended nor shall it be construed to waive City's rights and immunities under the common law or Florida Statute 768.28 as amended from time to time.

Additional indemnification requirements may be included under Special Terms and Conditions and/or as part of a specimen contract included in the solicitation package.

General Indemnification: To the fullest extent permitted by laws and regulations, Successful Proposer shall indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, harmless from any and all claims, damages, losses, liabilities and expenses, direct, indirect or consequential arising out of or consequential arising out of or alleged to have arisen out of or in consequence of the products, goods or services furnished by or operations of the Successful Proposer or his subcontractors, agents, officers, employees or independent contractors pursuant to or in the performance of the Contract.

Patent and Copyright Indemnification: Successful Proposer agrees to indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, from all claims, damages, losses, liabilities and expenses arising out of any alleged infringement of copyrights, patent rights and/or the unauthorized or unlicensed use of any invention, process, material, property or other work manufactured or used in connection with the performance of the Contract, including its use by CITY.

3.27 DEFAULT PROVISION

In the case of default by the bidder or contractor, the City of Pembroke Pines may procure the articles or services from any other sources and hold the bidder or contractor responsible for any excess costs occasioned or incurred thereby.

The City shall be the sole judge of nonperformance, which shall include any failure on the part of the successful Bidder to accept the Award, to furnish required documents, and/or to fulfill any portion of the contract within the time stipulated. Upon default by the successful Bidder to meet any terms of this agreement, the City will notify the Bidder five (5) days (weekends and holidays excluded) to remedy the default. Failure on the Contractor's part to correct the default within the required five (5) days shall result in the contract being terminated and upon the City notifying in writing the Contractor of its intentions and the effective date of the termination. The following shall constitute default:

- A. Failure to perform the Work required under the contract and/or within the time required or failing to use the subcontractor, entities and personnel as identified and set forth, and to the degree specified in the contract.
- B. Failure to begin the Work under this Bid within the time specified.
- C. Failure to perform the Work with sufficient Workers and equipment or with sufficient materials to ensure timely completion.
- D. Neglecting or refusing to remove materials or perform new Work where prior Work has been rejected as non-conforming with the terms of the contract.
- E. Becoming insolvent, being declared bankrupt, or committing act of bankruptcy or insolvency, or making an assignment renders the successful Bidder incapable of performing the Work in accordance with and as required by the contract.

F. Failure to comply with any of the terms of the contract in any material respect.

In the event of default of a contract, the successful Bidder shall pay all attorney's fees and court costs incurred in collecting any damages. The successful Bidder shall pay the City for any and all costs incurred in ensuing the completion of the project.

Additional provisions may be included in the specimen contract.

3.28 ACCEPTANCE OF MATERIAL

The material delivered under this proposal shall remain the property of the seller until a physical inspection and actual usage of this material and/or services is made and thereafter accepted to the satisfaction of the City and must comply with the terms herein, and be fully in accord with specifications and of the highest quality. In the event the material and/or services supplied to the City are found to be defective or do not conform to specifications, the City reserves the right to cancel the order upon written notice to the seller and return product to seller at the sellers expense.

3.29 LOCAL GOVERNMENT PROMPT PAYMENT ACT

The City complies with Florida Statute 218.70, Florida Prompt Payment Act.

3.30 SCRUTINIZED COMPANIES LIST

In accordance with Florida Statue 287.135, as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services if:

(a) Any amount of, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725, or is engaged in a boycott of Israel; or

- (b) One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company:
- 1. Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473; or
- 2. Is engaged in business operations in Svria.

By submitting a bid, proposal or response, the company, principals or owners certify that they are not listed on the Scrutinized Companies that boycott Israel List, Scrutinized Companies with activities in Sudan List, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or is engaged in business operations in Syria.

3.31 PUBLIC RECORDS; TRADE SECRET, PROPRIETARY AND CONFIDENTIAL SUBMITTALS

The Proposer's response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.

Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer

claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.

Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a "public works" project.

EXCEPT FOR **CLEARLY** MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE BIDSYNC WEBSITE AS A SEPARATE ATTACHMENT CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.

The city's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records.

SECTION 4 - SPECIAL TERMS & CONDITIONS

4.1 PROPOSAL SECURITY

Proposal Security Requirements: Each Proposal must be accompanied by a certified or cashier's check or by a Bid Bond made payable to the City of Pembroke Pines on an approved form, duly executed by the Proposer as principal and having as surety thereon a surety company acceptable to CITY and authorized to write such Bond under the laws of the State of Florida, in an amount not less than five percent (5%) of the amount of the base Proposal price.

Proposers must submit a scanned copy of their bid security (bid bond form or cashier's check) with their bid submittal through BidSync. Proposers must also submit their original bid security (bid bond form or cashier's check) at time of the bid due date, or they may be deemed as non-responsive. The original Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "BID SECURITY - IFB # PSPW-19-15, Rebid of Roof Replacements at Various City Buildings" and sent to the:

City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, Florida, 33025.

Successful Proposer: The Proposal Security of the Successful Proposer will be retained until such Proposer has executed the Contract and furnished the required insurance, payment and performance bonds, whereupon the Proposal Security will be returned. If the Successful Proposer fails to execute and deliver the Contract and furnish the required insurance and bonds within fifteen (15) calendar days of the Notice of Award, CITY may annul the Notice of Award and the entire sum of the Proposal Security shall be forfeited.

Three Lowest Proposers: The Proposal Security of the three (3) lowest Proposers will be returned within seven (7) calendar days after CITY and the Successful Proposer have executed the written Contract or if no such written Contract is executed within ninety (90) calendar days after the date of the Proposal opening, upon the demand of any Proposer at any time thereafter, provided that he has not been notified of the acceptance of his Proposal.

All Other Proposers: Proposal Security of all other Proposer will be returned within seven (7) calendar days after the proposal opening. The agent or attorney in fact or other officer who signs a Bid Bond for a surety company must file with such bond a certified copy of his power of attorney authorizing him to do so.

4.2 PAYMENT AND PERFORMANCE BONDS

Within fifteen (15) calendar days after Notice of Award and in any event prior to commencing work, the Contractor shall execute and furnish to City a performance bond and a payment bond, each written by a corporate surety, having a resident agent in the State of Florida and having been in business with a record of successful continuous operation for at least five (5) vears. The surety shall hold a current certificate of authority from the Secretary of Treasury of the United States as an acceptable surety on federal bonds in accordance with United States Department of Treasury Circular No. 570. If the amount of the Bond exceeds the underwriting limitation set forth in the circular, in order to qualify, the net retention of the surety company shall not exceed the underwriting limitation in the circular and the excess risks be protected by coinsurance. reinsurance. or other methods. accordance with Treasury Circular 297, revised September 1, 1978 (31DFR, Section 223.10, Section 223.11). Further, the surety company shall provide City with evidence

satisfactory to City, that such excess risk has been protected in an acceptable manner. The surety company shall have at least the following minimum qualification in accordance with the latest edition of A.M. Best's Insurance Guide, published by Alfred M. Best Company, Inc., Ambest Road, Oldwick, New Jersey 08858:

B+ to A+

Two (2) separate bonds are required and both must be approved by the City. The penal sum stated in each bond shall be 100% of the contract price. performance bond shall be conditioned that the Contractor performs the contract in the time and manner prescribed in the contract. The payment bond shall be conditioned that the Contractor promptly make payments to all persons who supply the Contractor with labor, materials and supplies used directly or indirectly by the Contractor in the prosecution of the work provided for in the Contract and shall provide that the surety shall pay the same in the amount not exceeding the sum provided in such bonds. together with interest at the maximum rate allowed by law; and that they shall indemnify and save harmless the City to the extent of any and all payments in connection with the carrying out of said Contract which the City may be required to make under the law.

Pursuant to the requirements of Section 255.05(1)(a), Florida Statutes, it shall be the duty of the Contractor to record the aforesaid payment and performance bonds in the public records of Broward County, with the Contractor to pay all recording costs.

4.3 OWNER'S CONTINGENCY

While the specifications contained in this solicitation and any ensuing Purchase Orders or contracts have incorporated all anticipated work to be accomplished, there may be unanticipated work required of the vendor in conjunction with a specific project. For this reason, the City

Commission may award a project with an "Owner's Contingency". This contingency or allowance authorizes the City execute change orders up to the amount of the contingency without the need to obtain additional Commission approval. Owner's Contingency is usually based on a specified percent of the proposed project amount and is established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. It is hereby understood and agreed that the vendor shall not expend any dollars in connection with the Owner's Contingency without the expressed prior approval of the City's authorized representative. Any Owner's Contingency funds that have not been utilized at the end of the project will remain with the Owner, the contractor shall only be paid for the proposed project cost as approved by the City along with any Owner Commission Contingency expenses that were approved by the City's authorized representative.

4.4 TAX SAVER PROGRAM

The Contractor shall cooperate on certain projects to allow the City to avail itself of a sales tax savings program.

4.5 RELEASE OF LIEN

Contractor must provide an executed Partial/Final Release of Lien utilizing the City's standard Release of Lien Form in order for the City to release any payments to the Contractor.

4.6 SOLID WASTE CONSTRUCTION AND DEMOLITION DEBRIS COLLECTION AND DISPOSAL REQUIREMENTS

The City of Pembroke Pines has an exclusive solid waste franchise agreement with Waste Pro of Florida, Inc. for the collection and

disposal of all solid waste including construction and demolition (C & D) debris. All applicants for bids to perform construction work for the City of Pembroke Pines shall be subject to the requirements found in the City's exclusive sold waste franchise agreement and must contract Waste Pro of Florida, Inc. for the collection and disposal of all construction and demolition debris generated at such construction job sites.

For the current applicable rates and fees for Waste Pro of Florida, Inc. dumpsters, roll-off containers, and other related solid waste service equipment needs, please contact David Perez, Waste Pro's Pembroke Pines Sales Representative at (954) 967-4200 or dperez@wasteprousa.com.

For further information related to the solid waste franchise requirements, please contact Rose Colombo, Solid Waste Franchise Agreement Contract Manager, at (954) 518-9011 or reclombo@ppines.com.

For solid waste franchise enforcement questions, please contact the City of Pembroke Pines Code Compliance Unit at (954) 431-4466.



COMPANY INFORMATION:

Attachment A

CONTACT INFORMATION FORM

IN ACCORDANCE WITH "PSPW-19-10" titled "Roof Replacements at Various City Buildings" attached hereto as a part hereof, the undersigned submits the following:

A) Contact Information

COMPANY.

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

NAME:	TITLE:	
E-MAIL: TELEPHONE:	FAX:	
AUTHORIZED APPRO	OVER:	
NAME:	TITLE:	
E-MAIL:		
TELEPHONE:	FAX:	
SIGNATURE:		
SIGNATURE:		
SIGNATURE: Proposal Checklist	bor and warranties included?	Yes
Proposal Checklist Are all materials, freight, la Did you include copies of a		
Proposal Checklist Are all materials, freight, la Did you include copies of a n section 1.4.3?	abor and warranties included?	uctions Yes
Proposal Checklist Are all materials, freight, la Did you include copies of a n section 1.4.3? I you make sure to submit to	abor and warranties included? all warranties in your bid package, per the instruction the following items, as stated in section 1.5 "F	uctions Yes

Attachment C - Proposer's Completed Qualification Statement	Yes
Attachment F - References Form	Yes
Attachment G - Mandatory Pre-Bid Meeting Form	Yes
Does your proposal exceed \$200,000 for this construction project? If so, please include a Proposal Security (Bid Bond or Cashier's Check) along with a separate line item to provide a Payment and Performance Bond. (See Bid Package for details)	Yes

Did you make sure to update the following documents found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines?

Vendor Information Form	Yes
Form W-9 (Rev. October 2018)	Yes
Sworn Statement on Public Entity Crimes Form	Yes
Local Vendor Preference Certification	Yes
Local Business Tax Receipts	Yes
Veteran Owned Small Business Preference Certification	Yes
Equal Benefits Certification Form	Yes
Vendor Drug-Free Workplace Certification Form	Yes
Scrutinized Company Certification	Yes

C) Sample Proposal Form

The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

Address	Project Cost
Carl Shechter Community Center	Price to be Submitted Via
301 NW 103rd Avenue Pembroke Pines, FL 33026	BidSync
Additional Work	Cost per SQ. FT.
Lightweight Concrete	Price to be Submitted Via
	BidSync
Stucco Repair	Price to be Submitted Via
	BidSync
Rotunda Tile Roof	Price to be Submitted Via
	BidSync
Steel Deck Repair	Price to be Submitted Via
-	

	BidSync
Cost to Provide Payment and Performance Bond	Price to be Submitted Via
	BidSync

Address	Project Cost
Pines Recreation Center 7400 Pines Blvd. Pembroke Pines, FL 33024	Price to be Submitted Via BidSync
Additional Work	Cost per SQ. FT.
Wood Decking Repair	Price to be Submitted Via BidSync
Cost to Provide Payment and Performance Bond	Price to be Submitted Via BidSync

Address	Project Cost
Pasadena Park Restrooms	Price to be Submitted Via
8815 Pasadena Blvd. Pembroke Pines, FL 33026	BidSync
Additional Work	Cost per SQ. FT.
Wood Decking Repair	Price to be Submitted Via
	BidSync
Cost to Provide Payment and Performance Bond	Price to be Submitted Via
	BidSync

Address	Project Cost
Studio 18 in the Pines	Price to be Submitted Via
1101 Poinciana Drive Pembroke Pines, FL 33026	BidSync
Additional Work	Cost per SQ. FT.
Lightweight Concrete	Price to be Submitted Via
	BidSync
Stucco Repair	Price to be Submitted Via
	BidSync
Steel Deck Repair	Price to be Submitted Via
	BidSync
Cost to Provide Payment and Performance Bond	Price to be Submitted Via
	BidSync

Address	Project Cost
Eastside Maintenance Building 9870 Johnson St. Pembroke Pines FL 33025	Price to be Submitted Via BidSync
Additional Work	Cost per SQ. FT.
Stucco Repair	Price to be Submitted Via BidSync
Cost to Provide Payment and Performance Bond	Price to be Submitted Via

BidSync

Address	Project Cost
Bright Beginnings Preschool 901 NW 129 Ave. Pembroke Pines FL 33028	Price to be Submitted Via BidSync
Additional Work	Cost per SQ. FT.
Steel Deck Repair	Price to be Submitted Via BidSync
Stucco Repair	Price to be Submitted Via BidSync
Cost to Provide Payment and Performance Bond	Price to be Submitted Via BidSync

Address	Project Cost
FSU Charter School "B" Building 601 SW 172 Ave. Pembroke Pines FL 33029	Price to be Submitted Via BidSync
Additional Work	Cost per SQ. FT.
Steel Deck Repair	Price to be Submitted Via BidSync
Stucco Repair	Price to be Submitted Via BidSync
Cost to Provide Payment and Performance Bond	Price to be Submitted Via BidSync



Attachment B

NON-COLLUSIVE AFFIDAVIT

BIDDER is the Owner, Partner, Officer, Representative or Agent)	
BIDDER is fully informed respecting the preparation and contents of the attacircumstances respecting such Bid;	ached Bid and of all pertinent
Such Bid is genuine and is not a collusive or sham Bid;	
Neither the said BIDDER nor any of its officers, partners, owners, agents, reinterest, including this affidavit, have in any way colluded, conspired, coindirectly, with any other BIDDER, firm or person to submit a collusive Contract for which the attached Bid has been submitted; or to refrain from Contract; or have in any manner, directly or indirectly, sought by agreem communications, or conference with any BIDDER, firm, or person to fix Bid or any other BIDDER, or to fix any overhead, profit, or cost element any other BIDDER, or to secure through any collusion conspiracy, connicational advantage against (Recipient), or any person interested in the proposed Contract of items quoted in the attached Bid are fair and proper and are not	nnived or agreed, directly or or sham Bid in connection with the m bidding in connection with such ent or collusion, or the price or prices in the attached of the Bid Price or the Bid Price of vance, or unlawful agreement any contract;
connivance, or unlawful agreement on the part of the BIDDER or any otl owners, employees or parties in interest, including this affidavit.	
Printed Name/Signature	
Title	
Name of Company	



Attachment C

PROPOSER'S QUALIFICATIONS STATEMENT

PROPOSER shall furnish the following information. Failure to comply with this requirement will render Bid non-responsive and shall cause its rejection. Additional sheets shall be attached as required.

PROPOSER'S Name and Principal Address:
PROPOSER'S License Number: (Please attach certificate of status, competency, and/or state registration.)
Number of years your organization has been in business
State the number of years your firm has been in business under your present business name
State the number of years your firm has been in business in the work specific to this solicitation
Names and titles of all officers, partners or individuals doing business under trade name:
IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE.
Under what former name has your business operated? Include a description of the business. Failure to includ such information shall be deemed to be intentional misrepresentation by the City and shall render the propose non-responsive.
At what address was that business located?

Name, address, and telephone number of surety company and agent who will provide the required bonds on the contract:
Have you ever failed to complete work awarded to you. If so, when, where and why?
Have you personally inspected the proposed WORK and do you have a complete plan for its performance?
Will you subcontract any part of this WORK? If so, give details including a list of each sub-contractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s).
The foregoing list of subcontractor(s) may not be amended after award of the contract without the price written approval of the Contract Administrator, whose approval shall not be reasonably withheld.
List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the Proposer, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.
List and describe all successful Bond claims made to your surety (ies) during the last five (5) years. The list and descriptions should include claims against the bond of the Proposer and its predecessor organization(s)

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the Proposer or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

11/14/2019	Attachment C - Proposers Qualifications Statement
List and d	describe all criminal proceedings or hearings concerning business related offenses in which the
	oser, its principals or officers or predecessor organization(s) were defendants.
	on Original provider sales representative distributor, broker, manufacturer other, of the ties/services proposed upon? If other than the original provider, explain below.
Have you explain:	ever been debarred or suspended from doing business with any governmental agency? If yes, please
	the firm's local experience/nature of service with contracts of similar size and complexity, it the three (3) years:
previous	unee (3) years.

The PROPOSER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by CITY in awarding the contract and such information is warranted by PROPOSER to be true. The discovery of any omission or misstatement that materially affects the PROPOSER's qualifications to perform under the contract shall cause the CITY to reject the Bid, and if after the award, to cancel and terminate the award and/or contract.

(Company Name)	
(Printed Name/Signature)	

ACORD CERTIFICATE OF LIABILITY INSURANCE								
PRODUCER		ONLY AN HOLDER.	D CONFERS N THIS CERTIFIC	UED AS A MATTER O RIGHTS UPON TO ATE DOES NOT AM AFFORDED BY THE F	HE CERTIFICATE END, EXTEND OR			
			INSURERS	AFFORDING COVER	AGE			
YOUR COMPANY NAME HERE INSURER B. INSURER C. INSURER D. INSURER E. INSUR								
COVERAGES THE POLICIES OF INSURANCE LISTED	BELOW HAVE BEEN ISSUED TO THE IN	ISLIDED NAMED AL	BOVE EOD THE DO	LICY BEDIOD INDICATED	NOTWITHSTANDING			
ANY REQUIREMENT TERM OR COND MAY PERTAIN THE INSURANCE AFFOI POLICIES. AG6REGATE LIMITS SHOWI	TION OF ANY CONTRACT OR OTHER RDED BY THE POLICIES DESCRIBED H	DOCUMENT WITH EREIN IS SUBJEC	H RESPECT TO WE	HICH THIS CERTIFICATE	MAY BE ISSUED OR			
INSR LTR TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DDIYY)	POLICY EXPIRATION DATE (MM/DDIYY)	LIN	MITS			
GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY CLAIMS MADE OCCUR GEN'L AGGREGATE LIMIT APPLIES PER:	Must Include G	eneral Lia	bility	EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			
policy project loc								
ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS	SA	MPLE C	ERTIFI	CATE				
GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	Ť			
ANY AUTO				OTHER THAN AUTO ONLY: AG	·			
DEDUCTIBLE RETENTION \$ WORKERS COMPENSATION AND				AGGREGATE WC STATU- OT				
EMPLOYERS' LIABILITY				E.L. DISEASE - DI LOY LIMITS	\$ =E \$			
OTHER OTHER	OTHER Certificate must contain wording similar to what appears below							
"THE CERTIFICATE HOLDER IS NAMED AS ADDITIONALLY INSURED WITH REGARD TO GENERAL LIABILITY"								
CERTIFICATE HOLDER ▼ ADDI	TIONAL INSURED; INSURER LETTER:	CANCELLAT	ION					
City of Pembroke Pines	_ \				BEFORE THE EXPIRATION L 30 DAYS WRITTEN EFT.			
601 City Center Way	City Must B	e Named	as Certific	ate Holder				
Pembroke Pines FL 330	25	AUTHORIZED RE	PRESENTATIVE					

Attachment D: Sample Insurance Certificate

CONSTRUCTION AGREEMENT

THIS	IS	\mathbf{AN}	AGREEMENT,	dated	the	 day	of	
«Contract Sig	znatu	re Yo	e ar », by and betwee	en:		•		

CITY OF PEMBROKE PINES, a municipal corporation of the State of Florida with a business address of **601 City Center Way, Pembroke Pines, Florida 33025** hereinafter referred to as "CITY",

and

«Vendor_Name_Upper_Case», a **«Vendor_Business_Type»**, authorized to do business in the State of Florida, with a business address of **«Vendor_Address_Line_1»**, **«Vendor_Address_Line_2»** (hereinafter referred to as the "CONTRACTOR"). CITY and CONTRACTOR may hereinafter be referred to collectively as the "Parties."

WITNESSETH:

In consideration of the mutual terms and conditions, promises, covenants and payments hereinafter set forth, CITY and CONTRACTOR agree as follows:

ARTICLE 1 PREAMBLE

In order to establish the background, context and form of reference for this Agreement, and to generally express the objectives and intentions of the respective parties herein, the following statements, representations, and explanations shall be accepted as predicates for the undertakings and commitments included within the provisions which follow, and may be relied upon by the parties as essential elements of the mutual considerations upon which this Agreement is based.

1.1 On **«Solicitation_Advertisement_Date»**, the CITY advertised its notice to bidders of the CITY's desire to hire a firm to **«Service_Description»** as more particularly described in **Exhibit "A"** attached hereto and by this reference made a part hereof, for the said bid entitled:

- 1.2 On **«Bid Opening Date»**, the bids were opened at the offices of the City Clerk.
- 1.3 On **«Commission_Award_Date»**, the CITY awarded the bid to CONTRACTOR and authorized the proper CITY officials to negotiate and enter into an agreement with CONTRACTOR to render the services more particularly described herein below.

1.4 Negotiations pertaining to the services to be performed by the CONTRACTOR were undertaken and this Agreement incorporates the results of such negotiation.

ARTICLE 2 SERVICES AND RESPONSIBILITIES

- 2.1 CONTRACTOR hereby agrees to perform the services for the **«Service_Description»**, as more particularly described in **Exhibit "A"** attached hereto and by this reference made a part hereof, ("Property") in accordance with the Scope of Services outlined in the specifications, **"«Solicitation_Type_Abbreviation»** # **«Solicitation_Number»"**, attached hereto and made a part hereof as **Exhibit "A"** and CONTRACTOR's response thereto, attached hereto and made a part hereof as **Composite Exhibit "B"**. CONTRACTOR agrees to do everything required by this Agreement, the Sealed Bid Package, Addenda to this Agreement, and Commission award complete with proposal form.
- 2.2 CONTRACTOR shall furnish all services, labor, equipment, and materials necessary and as may be required in the performance of this Agreement, except as otherwise specifically provided for herein, and all work performed under this Agreement shall be done in a professional manner.
- 2.3 CONTRACTOR shall supervise the work force to ensure that all workers conduct themselves and perform their work in a safe and professional manner. CONTRACTOR shall comply with all OSHA safety rules and regulations in the operation of equipment and in the performance of the work. CONTRACTOR shall at all times have a competent field supervisor on the job site to enforce these policies and procedures at the CONTRACTOR's expense.
- 2.4 CONTRACTOR shall provide CITY with seventy-two (72) hours written notice prior to the beginning of work under this Agreement and prior to any schedule change with the exception of changes caused by inclement weather.
- 2.5 CONTRACTOR hereby represents to CITY, with full knowledge that CITY is relying upon these representations when entering into this Agreement with CONTRACTOR, that CONTRACTOR has the professional expertise, experience and manpower to perform the services to be provided by CONTRACTOR pursuant to the terms of this Agreement.
- 2.6 CONTRACTOR hereby represents to CITY that CONTRACTOR is properly licensed by the applicable federal, state, and local agencies to provide the services under this Agreement. Furthermore, CONTRACTOR agrees to maintain such licenses during the term of this Agreement. If CONTRACTOR's license is revoked, suspended, or terminated for any reason by any governmental agency, CONTRACTOR shall notify the CITY immediately.
- 2.7 CONTRACTOR shall comply with any and all Federal, State, and local laws and regulations now in effect, or hereinafter enacted during the term of this Agreement, which are applicable to CONTRACTOR, its employees, agents or subcontractors, if any, with respect to the work and services described herein. A violation of any federal, state, or local law or regulation may be cause for breach, allowing the CITY to terminate this Agreement.

ARTICLE 3 TIME OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

- 3.1 The work to be performed under this Agreement shall be commenced after CITY execution of the Agreement and not later than ten (10) days after the date that CONTRACTOR receives CITY's Notice to Proceed. The work shall be completed within **«Number_of_Calendar_Days_from_NTP_to_Comm»** from issuance of CITY's Notice to Proceed, subject to any permitted extensions of time under the Contract Documents. For the purposes of this Agreement, completion shall mean the issuance of final permit.
- 3.2 During the pre-construction portion of the work hereunder, the parties agree to work diligently and in good faith in performing their obligations hereunder, so that all required permits for the construction portion of the work may be obtained. In the event that any delays in the pre-construction or construction portion of the work occur, despite the diligent efforts of the parties hereto, and such delays are the result of force majeure or are otherwise outside of the control of either party hereto, then the parties shall agree on an equitable extension of the time for substantial completion hereunder and any resulting increase in general condition costs.
- 3.3 In the event that CONTRACTOR abandons this Agreement or causes it to be terminated, he shall indemnify CITY against any loss pertaining to this termination up to a maximum of the full contracted fee amount. All finished or unfinished documents, data, studies, surveys, and reports prepared by CONTRACTOR shall become the property of CITY and shall be delivered by CONTRACTOR to CITY.

ARTICLE 4 COMPENSATION AND METHOD OF PAYMENT

- 4.1 CITY agrees to compensate CONTRACTOR for all services performed by CONTRACTOR upon issuance of final inspection approval / monthly for work that has been completed, inspected and properly invoiced «Compensation_Type» «Compensation_Amount_Written» («Compensation_Amount_Numerical»), which includes a «Contingency_Fee_Percent» owner's contingency fee of «Contingency_Fee_Written» («Contingency_Fee_Numerical») and a «Permit_Fee_Percent» permit allowance of «Permit_Fee_Written» («Permit_Fee_Numerical»).
- 4.1.1 This contingency or allowance authorizes the City to execute change orders up to the amount of the contingency without the need to obtain additional Commission approval. <u>It is hereby understood and agreed that the vendor shall not expend any dollars in connection with the Owner's Contingency or Allowance without the expressed prior approval of the City's <u>authorized representative</u>. Any Owner's Contingency funds or allowance that have not been utilized at the end of the project will remain with the Owner, the contractor shall only be paid for the proposed project cost as approved by the City Commission along with any Owner Contingency expenses or allowances that were approved by the City's authorized representative.</u>

4.1.2 The total compensation amount may not be exceeded without a written amendment to this Agreement. A retainage of ten percent (10%) will be deducted from monthly payments until fifty percent (50%) of the project is complete. Retainage will be reduced to five percent (5%) thereafter. Retainage monies will be released upon satisfactory completion and final inspection of the work. Invoices must bear the project name, project number, bid number and purchase order number. CITY has up to thirty (30) days to review, approve and pay all invoices after receipt. CONTRACTOR shall invoice CITY and provide a written request to CITY to commence the one (1) year warranty period. All necessary Releases and Affidavits and approval of Final Payments shall be processed before the warranty period begins. All payments shall be governed by the Florida Prompt Payment Act, as set forth in Part VII, Chapter 218, Florida Statutes.

4.2 Method of Billing and Payment.

- 4.2.1 The CITY shall within thirty (30) days, from the date the City's Public Service Director approves the Application for Payment, pay the CONTRACTOR the amount approved by the City Public Services Director or his or her assignees.
 - 4.2.2 Payment will be made to CONTRACTOR at:

«Vendor_Name» «Vendor_Address_Line_1» «Vendor Address Line 2»

ARTICLE 5 WAIVER OF LIENS

5.1 Prior to final payment of the Contract Sum, a final waiver of lien shall be submitted by all suppliers, subcontractors, and/or contractors who worked on the project that is the subject of this Agreement. Payment of the invoice and acceptance of such payment by CONTRACTOR shall release CITY from all claims of liability by CONTRACTOR in connection with this Agreement.

ARTICLE 6 WARRANTY

6.1 CONTRACTOR warrants the work against defect for a period of one (1) year from the date of completion of work. In the event that defect occurs during this time, CONTRACTOR shall perform such steps as required to remedy the defects. CONTRACTOR shall be responsible for any damages caused by defect to affected area or to interior structure. The one (1) year warranty period does not begin until substantial completion of the entire project, and the subsequent release of any Performance or Payment Bonds, which may be required by the original bid document.

ARTICLE 7 CHANGES IN SCOPE OF WORK

7.1 CITY or CONTRACTOR may request changes that would increase, decrease, or otherwise modify the Scope of Services, as described in **Exhibit "A,"** to be provided under this Agreement as

described in Article 2 of this Agreement. These changes will affect the monthly compensation accordingly. Such changes or additional services must be in accordance with the provisions of the Code of Ordinances of the CITY, and must be contained in a written amendment, executed by the parties hereto, with the same formality, equality and dignity herewith prior to any deviation from the terms of this Agreement, including the initiation of any additional or extra work.

7.2 In no event will the CONTRACTOR be compensated for any work which has not been described in a separate written agreement executed by the parties hereto.

ARTICLE 8 INDEMNIFICATION

- 8.1 Pursuant to 725.06, Florida Statutes, the parties agree that one hundred percent (100%) of the total compensation paid to CONTRACTOR for the Work under this Agreement shall constitute specific consideration to CONTRACTOR for the indemnification to be provided under this Agreement. CONTRACTOR shall indemnify and hold harmless the CITY, its trustees, elected and appointed officers, agents, servants, assigns, employees, consultants, separate contractors, any of their subcontractors, sub-subcontractors, agents and employees from and against claims, demands, or causes of action whatsoever, and the resulting losses, damages, costs and expenses, including but not limited to attorneys' fees, including paralegal expenses, liabilities, damages, orders, judgments, or decrees, sustained by the CITY arising out of or resulting from performance of the Work or the failure of the CONTRACTOR to take out and maintain insurance as required under this Agreement.
- 8.2 Upon completion of all Services, obligations and duties provided for in this Agreement, or in the event of termination of this Agreement for any reason, the terms and conditions of this Article shall survive indefinitely.
- 8.3 CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of CONTRACTOR.
- 8.4 Nothing contained herein is intended nor shall be construed to waive City's rights and immunities under the common law or §768.28, Florida Statutes, as may be amended from time to time.

ARTICLE 9 INSURANCE

9.1 The CONTRACTOR shall indemnify and hold harmless the CITY and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the CITY or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the CONTRACTOR or its employees, agents, servants, partners principals or subcontractors.

The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorney's fees which may issue thereon. The CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein provided.

- 9.2 CONTRACTOR shall not commence work under this Agreement until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on his subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.
- 9.3 Certificates of Insurance, reflecting evidence of the required insurance, shall be filed with the City's Risk Manager prior to the commencement of this Agreement. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. The insurance company shall be rated no less than "A" as to management, and no less than "Class VI" as to financial strength according to the latest edition of Best's Insurance Guide published by A.M. Best Company.
- 9.4 Policies shall be endorsed to provide the CITY thirty (30) days notice of cancellation or the CONTRACTOR shall obtain written agreement from its Agent to provide the CITY thirty (30) days notice of cancellation.
- 9.5 Insurance shall be in force until all obligations required to be fulfilled under the terms of the Agreement are satisfactorily completed as evidenced by the formal acceptance by the CITY. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, then in that event, the CONTRACTOR shall furnish, at least forty-five (45) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall not commence nor continue to provide any services pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.

9.6 REQUIRED INSURANCE

- 9.6.1 Comprehensive General Liability Insurance written on an occurrence basis including, but not limited to: coverage for bodily injury and property damage, personal & advertising injury, products & completed operations, and contractual liability. Coverage must be written on an occurrence basis, with limits of liability no less than:
 - 1. Each Occurrence Limit \$1,000,000
 - 2. Fire Damage Limit (Damage to rented premises) \$100,000

- 3. Personal & Advertising Injury Limit \$1,000,000
- 4. General Aggregate Limit \$2,000,000
- 5. Products & Completed Operations Aggregate Limit \$2,000,000

Products & Completed Operations Coverage shall be maintained for two (2) years after the final payment under this contract.

The City of Pembroke Pines must be shown as an additional insured with respect to this coverage.

9.6.2 Worker's Compensation and Employers Liability Insurance covering all employees, and/or volunteers of the CONTRACTOR engaged in the performance of the scope of work associated with this Agreement. In the case any work is sublet, the CONTRACTOR shall require the subcontractors similarly to provide Workers Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. Coverage for the CONTRACTOR and his subcontractors shall be in accordance with applicable state and/or federal laws that may apply to Workers' Compensation Insurance with limits of liability no less than:

1. Workers' Compensation: Coverage A – Statutory

2. Employers Liability: Coverage B \$500,000 Each Accident

\$500,000 Disease – Policy Limit \$500,000 Disease – Each Employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

- 9.6.3 Comprehensive Auto Liability Insurance covering all owned, non-owned and hired vehicles used in connection with the performance of work under this Agreement, with a combined single limit of liability for bodily injury and property damage no less than:
 - 1. Any Auto (Symbol 1)
 Combined Single Limit (Each Accident) \$1,000,000
 - 2. Hired Autos (Symbol 8) Combined Single Limit (Each Accident) - \$1,000,000
 - 3. Non-Owned Autos (Symbol 9) Combined Single Limit (Each Accident) - \$1,000,000
- 9.6.4 Professional Liability/Errors & Omissions Insurance, when applicable, with a limit of liability no less than \$1,000,000 per wrongful act. This coverage shall be maintained for a period of no less than two (2) years after final payment of the contract.
- 9.6.5 Sexual Abuse may not be excluded from any policy.
- 9.7 REQUIRED ENDORSEMENTS

- 9.7.1 The City of Pembroke Pines shall be named as an Additional Insured on each of the General Liability policies required herein
- 9.7.2 Waiver of all Rights of Subrogation against the CITY
- 9.7.3 30 Day Notice of Cancellation or Non-Renewal to the CITY
- 9.7.4 CONTRACTORs' policies shall be Primary & Non-Contributory
- 9.7.5 All policies shall contain a "severability of interest" or "cross liability" liability clause without obligation for premium payment of the CITY
- 9.7.6 The City of Pembroke Pines shall be named as a Loss Payee on all Property and/or Inland Marine Policies as their interest may appear.
- 9.8 CONTRACTOR shall name the CITY, as an additional insured on each of the General Liability policies required herein and shall hold the CITY, its agents, officers and employees harmless on account of claims for damages to persons, property or premises arising out of the services provided hereunder.
- 9.9 Any insurance required of the CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work that is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.
- 9.10 The City reserves the right to require any other additional types of insurance coverage and/or higher limits of liability it deems necessary based on the nature of work being performed under this Contract.

ARTICLE 10 NON-DISCRIMINATION & EQUAL OPPORTUNITY EMPLOYMENT

10.1 During the performance of the Agreement, neither CONTRACTOR nor its subcontractors shall discriminate against any employee or applicant for employment because of race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. CONTRACTOR will take affirmative action to ensure that employees are treated during employment, without regard to their race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. Such actions must include, but not be limited to, the following: employment, promotion; demotion or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. CONTRACTOR shall agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause. CONTRACTOR further agrees that he/she/it will ensure that subcontractors, if any, will be made aware of and will comply with this nondiscrimination clause.

ARTICLE 11

INDEPENDENT CONTRACTOR

11.1 This Agreement does not create an employee/employer relationship between the parties. It is the intent of the parties that the CONTRACTOR is an independent contractor under this Agreement and not the CITY's employee for all purposes, including but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the State Workers' Compensation Act, and the State unemployment insurance law. The CONTRACTOR shall retain sole and absolute discretion in the judgment of the manner and means of carrying out CONTRACTOR's activities and responsibilities hereunder provided, further that administrative procedures applicable to services rendered under this Agreement shall be those of CONTRACTOR, which policies of CONTRACTOR shall not conflict with CITY, State, H.U.D., or United States policies, rules or regulations relating to the use of CONTRACTOR's Funds provided for herein. The CONTRACTOR agrees that it is a separate and independent enterprise from the CITY, that it has full opportunity to find other business, that it has made its own investment in its business, and that it will utilize a high level of skill necessary to perform the work. This Agreement shall not be construed as creating any joint employment relationship between the CONTRACTOR and the CITY and the CITY will not be liable for any obligation incurred by CONTRACTOR, including but not limited to unpaid minimum wages and/or overtime premiums.

ARTICLE 12 TERMINATION

- 12.1 *Termination for Convenience:* This Agreement may be terminated by CITY for convenience, upon **«Termination_for_Convenience»** of written notice by the terminating party to the other party for such termination in which event CONTRACTOR shall be paid its compensation for services performed to termination date, including services reasonably related to termination. In the event that CONTRACTOR abandons this Agreement or causes it to be terminated, CONTRACTOR shall indemnify CITY against loss pertaining to this termination.
- 12.2 Default by CONTRACTOR: In addition to all other remedies available to CITY, this Agreement shall be subject to cancellation by CITY for cause, should CONTRACTOR neglect or fail to perform or observe any of the terms, provisions, conditions, or requirements herein contained, if such neglect or failure shall continue for a period of thirty (30) days after receipt by CONTRACTOR of written notice of such neglect or failure.

ARTICLE 13 UNCONTROLLABLE FORCES

13.1 Neither CITY nor CONTRACTOR shall be considered to be in default of this Agreement if delays in or failure of performance shall be due to Uncontrollable Forces, the effect of which, by the exercise of reasonable diligence, the non-performing party could not avoid. The term "Uncontrollable Forces" shall mean any event which results in the prevention or delay of performance by a party of its obligations under this Agreement and which is beyond the reasonable control of the nonperforming party. It includes, but is not limited to fire, flood, earthquakes, storms, lightning, epidemic, war, riot, civil disturbance, sabotage, and governmental actions.

13.2 Neither party shall, however, be excused from performance if nonperformance is due to forces, which are preventable, removable, or remediable, and which the nonperforming party could have, with the exercise of reasonable diligence, prevented, removed, or remedied with reasonable dispatch. The nonperforming party shall, within a reasonable time of being prevented or delayed from performance by an uncontrollable force, give written notice to the other party describing the circumstances and uncontrollable forces preventing continued performance of the obligations of this Agreement.

ARTICLE 14 AGREEMENT SUBJECT TO FUNDING

14.1 This agreement shall remain in full force and effect only as long as the expenditures provided for in the Agreement have been appropriated by the City Commission of the City of Pembroke Pines in the annual budget for each fiscal year of this Agreement, and is subject to termination based on lack of funding.

ARTICLE 15 <u>VENUE</u>

15.1 This Agreement shall be governed by the laws of the State of Florida as now and hereafter in force. The venue for actions arising out of this agreement shall be in Broward County, Florida.

ARTICLE 16 SIGNATORY AUTHORITY

16.1 CONTRACTOR shall provide CITY with copies of requisite documentation evidencing that the signator for CONTRACTOR has the authority to enter into this Agreement.

ARTICLE 17 MERGER; AMENDMENT

17.1 This Agreement constitutes the entire Agreement between CONTRACTOR and CITY, and negotiations and oral understandings between the parties are merged herein. This Agreement can be supplemented or amended only by a written document executed by both CONTRACTOR and CITY with the same formality and equal dignity herewith.

ARTICLE 18 DEFAULT OF CONTRACT & REMEDIES

- 18.1.1 <u>Damages</u>. CITY reserves the right to recover any ascertainable actual damages incurred as a result of the failure of CONTRACTOR to perform in accordance with the requirements of this Agreement, or for losses sustained by CITY resultant from CONTRACTOR's failure to perform in accordance with the requirements of this Agreement.
- 18.1.2 <u>Liquidated Damages</u>. As a breach of the service provided by this Agreement would cause serious and substantial damage to CITY Property, and the nature of this Agreement would render it impracticable or extremely difficult to fix the actual damage sustained by CITY by such

breach, it is agreed that, in case of breach of service wherein CONTRACTOR fails to maintain the Property, leaving the said property in disrepair, CITY may elect to collect liquidated damages for each such breach, and CONTRACTOR will pay CITY as liquidated damages, and not as penalty, **«Liquidated_Damages_Per_Day_Written»** (**«Liquidated_Damages_Per_Day_Numerical»**) for every day of such malfunction. This sum is the agreed upon amount by which CITY will be damaged by the breach of such service. An election to seek such remedies shall not be construed as a waiver of any legal remedies CITY may have as to any subsequent breach of service under this Agreement.

- 18.1.3 <u>Correction of Work.</u> If, in the judgment of CITY, work provided by CONTRACTOR does not conform to the requirements of this Agreement, or if the work exhibits poor workmanship, CITY reserves the right to require that CONTRACTOR correct all deficiencies in the work to bring the work into conformance without additional cost to CITY, and / or replace any personnel who fail to perform in accordance with the requirements of this Agreement. CITY shall be the sole judge of non-conformance and the quality of workmanship.
- 18.2 **<u>Default of Contract.</u>** The occurrence of any one or more of the following events shall constitute a default and breach of this Agreement by CONTRACTOR:
- 18.2.1. The abandonment of the Property by CONTRACTOR for a period of more than seven (7) business days.
- 18.2.2 The abandonment, unnecessary delay, refusal of, or failure to comply with any of the terms of this Agreement or neglect, or refusal to comply with the instructions of the Public Services Director relative thereto.
- 18.2.3. The failure by CONTRACTOR to observe or perform any of the terms, covenants, or conditions of this Agreement to be observed or performed by CONTRACTOR, where such failure shall continue for a period of seven (7) days after written notice thereof by CITY to CONTRACTOR; provided, however, that if the nature of CONTRACTOR's default is such that more than seven (7) days are reasonably required for its cure, then CONTRACTOR shall not be deemed to be in default if CONTRACTOR commences such cure within said seven (7) day period and thereafter diligently prosecutes such cure to completion.
- 18.2.4. The assignment and/or transfer of this Agreement or execution or attachment thereon by CONTRACTOR or any other party in a manner not expressly permitted hereunder.
- 18.2.5. The making by CONTRACTOR of any general assignment or general arrangement for the benefit of creditors, or the filing by or against CONTRACTOR of a petition to have CONTRACTOR adjudged a bankruptcy, or a petition for reorganization or arrangement under any law relating to bankruptcy (unless, in the case of a petition filed against CONTRACTOR, the same is dismissed within sixty (60) days); or the appointment of a trustee or a receiver to take possession of substantially all of CONTRACTOR's assets, or for CONTRACTOR's interest in this Agreement, where possession is not restored to CONTRACTOR within thirty (30) days; for attachment, execution or other judicial seizure of substantially all of CONTRACTOR's assets, or for CONTRACTOR's interest in this Agreement, where such seizure is not discharged within thirty (30) days.

- 18.3 **Remedies in Default.** In case of default by CONTRACTOR, CITY shall notify CONTRACTOR, in writing, of such abandonment, delay, refusal, failure, neglect, or default and direct him to comply with all provisions of the Agreement. If the abandonment, delay, refusal, failure, neglect or default is not cured within seven (7) days of when notice was sent by CITY, CITY may declare a default of the Agreement and notify CONTRACTOR of such declaration of default and terminate the Agreement.
- 18.3.1. Upon such declaration of default, all payments remaining due CONTRACTOR at the time of default, less all sums due CITY for damages suffered, or expenses incurred by reason of default, shall be due and payable to CITY.
- 18.3.2. CITY may complete the Agreement, or any part thereof, either by day labor or reletting a contract for the same, and procure the equipment and the facilities necessary for the completion of the Agreement, and charge the cost of same to CONTRACTOR and/or the Surety together with the costs incident thereto to such default.
- 18.3.3. In the event CITY completes the Agreement at a lesser cost than would have been payable to CONTRACTOR under this Agreement, if the same had been fulfilled by CONTRACTOR, CITY shall retain such differences. Should such cost to CITY be greater, CONTRACTOR shall pay the amount of such excess to the CITY.
- 18.3.4 Notwithstanding the other provisions in this Section, CITY reserves the right to terminate the Agreement at any time, whenever the service provided by CONTRACTOR fails to meet reasonable standards of the trade after CITY gives written notice to the CONTRACTOR of the deficiencies as set forth in the written notice within fourteen calendar (14) days of the receipt by CONTRACTOR of such notice from CITY.

ARTICLE 19 BANKRUPTCY

19.1 It is agreed that if CONTRACTOR is adjudged bankrupt, either voluntarily or involuntarily, then this Agreement shall terminate effective on the date and at the time the bankruptcy petition is filed.

ARTICLE 20 DISPUTE RESOLUTION

Arbitration. In addition to any other remedy provided hereunder, CITY, at its option, may use arbitration to resolve any controversy or claim arising out of or relating to this Agreement if arbitration is elected by CITY. Any controversy or claim arising out of or relating to this Agreement, or breach thereof, may be settled by arbitration in accordance with the rules of the American Arbitration Association and judgment upon the award rendered by the arbitrators may be entered into by any court having jurisdiction thereof. In the event arbitration is elected by CITY, such controversy

or claim shall be submitted to one arbitrator selected from the National Panel of The American Arbitration Association.

20.2 **Operations During Dispute.**

- 20.2.1 In the event that a dispute, if any, arises between CITY and CONTRACTOR relating to this Agreement, performance or compensation hereunder, CONTRACTOR shall continue to render service in full compliance with all terms and conditions of this Agreement as interpreted by CITY regardless of such dispute.
- 20.2.2 CONTRACTOR expressly recognizes the paramount right and duty of CITY to provide adequate maintenance of CITY's Property, and further agrees, in consideration for the execution of this Agreement, that in the event of such a dispute, if any, it will not seek injunctive relief in any court, but will negotiate with CITY for an adjustment on the matter or matters in dispute and, upon failure of said negotiations to resolve the dispute, may present the matter to a court of competent jurisdiction in an appropriate suit therefore instituted by it or by CITY.

ARTICLE 21 PUBLIC RECORDS

- 21.1 The City of Pembroke Pines is public agency subject to Chapter 119, Florida Statutes. The CCONTRACTOR shall comply with Florida's Public Records Law. Specifically, the CONTRACTOR shall:
 - 21.1.1 Keep and maintain public records required by the CITY to perform the service;
 - 21.1.2 Upon request from the CITY's custodian of public records, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in chapter 119, Fla. Stat., or as otherwise provided by law;
 - 21.1.3 Ensure that public records that are exempt or that are confidential and exempt from public record disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and, following completion of the contract, CONTRACTOR shall destroy all copies of such confidential and exempt records remaining in its possession after the CONTRACTOR transfers the records in its possession to the CITY; and
 - 21.1.4 Upon completion of the contract, CONTRACTOR shall transfer to the CITY, at no cost to the CITY, all public records in CONTRACTOR's possession. All records stored electronically by the CONTRACTOR must be provided to the CITY, upon request from the CITY's custodian of public records, in a format that is compatible with the information technology systems of the CITY.

21.2 The failure of Contractor to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Agreement and the CITY shall enforce the Default in accordance with the provisions set forth in **Article 18**.

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT

CITY CLERK 601 CITY CENTER WAY, 4th FLOOR PEMBROKE PINES, FL 33025 (954) 450-1050

mgraham@ppines.com

ARTICLE 22 MISCELLANEOUS

- 22.1 **Ownership of Documents.** Reports, surveys, studies, and other data provided in connection with this Agreement are and shall remain the property of CITY, whether or not the project for which they are made is completed.
- 22.2 <u>Legal Representation</u>. It is acknowledged that each party to this agreement had the opportunity to be represented by counsel in the preparation of this Agreement, and accordingly, the rule that a contract shall be interpreted strictly against the party preparing same shall not apply herein due to the joint contributions of both parties.
- 22.3 **Records.** CONTRACTOR shall keep such records and accounts and require any and all subcontractors to keep records and accounts as may be necessary in order to record complete and correct entries as to personnel hours charged to this engagement, and any expenses for which CONTRACTOR expects to be reimbursed. Such books and records will be available at all reasonable times for examination and audit by CITY and shall be kept for a period of ten (10) years after the completion of all work to be performed pursuant to this Agreement. Incomplete or incorrect entries in such books and records will be grounds for disallowance by CITY of any fees or expenses based upon such entries.
- 22.4 <u>Assignments</u>: Amendments. This Agreement, and any interests herein, shall not be assigned, transferred or otherwise encumbered, under any circumstances, by CONTRACTOR without the prior written consent of CITY. For purposes of this Agreement, any change of ownership of CONTRACTOR shall constitute an assignment which requires CITY approval. However, this Agreement shall run to the benefit of CITY and its successors and assigns.

- 22.5 <u>No Contingent Fees.</u> CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for CONTRACTOR any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, CITY shall have the right to terminate the Agreement without liability at its discretion, to deduct from the contract price, or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.
- 22.6 <u>Notice</u>. Whenever any party desires to give notice unto any other party, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the party for whom it is intended and the remaining party, at the places last specified, and the places for giving of notice shall remain such until they shall have been changed by written notice in compliance with the provisions of this section. For the present, CONTRACTOR and CITY designate the following as the respective places for giving of notice:

CITY Charles F. Dodge, City Manager

City of Pembroke Pines 601 City Center Way

Pembroke Pines, Florida 33025

Telephone No. (954) 450-1040

Copy To: Samuel S. Goren, City Attorney

Goren, Cherof, Doody & Ezrol, P.A.

3099 East Commercial Boulevard, Suite 200

Fort Lauderdale, Florida 33308

Telephone No. (954) 771-4500 Facsimile No. (954) 771-4923

Contractor «Vendor Contact Title»

«Vendor_Name»

«Vendor_Address_Line_1» «Vendor Address Line 2»

E-mail: «Vendor Email»

Telephone No: «Vendor_Phone_Number» Cell phone No: «Vendor_Cell_Number» Facsimile No: «Vendor_Fax_Number»

- 22.7 <u>Binding Authority</u>. Each person signing this Agreement on behalf of either party individually warrants that he or she has full legal power to execute this Agreement on behalf of the party for whom he or she is signing, and to bind and obligate such party with respect to all provisions contained in this Agreement.
- 22.8 **<u>Headings</u>**. Headings herein are for the convenience of reference only and shall not be considered in any interpretation of this Agreement.

- 22.9 **Exhibits.** Each Exhibit referred to in this Agreement forms an essential part of this Agreement. The exhibits if not physically attached should be treated as part of this Agreement and are incorporated herein by reference.
- 22.10 **Severability.** If any provision of this Agreement or application thereof to any person or situation shall to any extent, be held invalid or unenforceable, the remainder of this Agreement, and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable, shall not be affected thereby, and shall continue in full force and effect, and be enforced to the fullest extent permitted by law.
- 22.11 **Extent of Agreement.** This Agreement represents the entire and integrated agreement between CITY and CONTRACTOR and supersedes all prior negotiations, representations or agreements, either written or oral.
- 22.12 **Waiver.** Failure of CITY to insist upon strict performance of any provision or condition of this Agreement, or to execute any right therein contained, shall not be constructed as a waiver or relinquishment for the future of any such provision, condition, or right, but the same shall remain in full force and effect.
- 22.13 <u>Attorney's Fees</u>. In the event that either party brings suit for enforcement of this Agreement, each party shall bear its own attorney's fees and court costs, except as otherwise provided under the indemnification provisions set forth herein above.
- 22.14 **Protection of City Property.** At all times during the performance of this Agreement, CONTRACTOR shall protect CITY's property from all damage whatsoever on account of the work being carried on under this Agreement.
- 22.15 <u>Counterparts and Execution</u>. This Agreement may be executed in multiple originals or counterparts, each of which shall be deemed to be an original and together shall constitute one and the same agreement. Execution and delivery of this Agreement by the Parties shall be legally binding, valid and effective upon delivery of the executed documents to the other party through facsimile transmission, email, or other electronic delivery.
- 22.16 <u>Scrutinized Companies</u>. CONTRACTOR, its principals or owners, certify that they are not listed on the Scrutinized Companies that Boycott Israel List, Scrutinized Companies with Activities in Sudan List, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or is engaged in business operations with Syria. In accordance with Florida Statute 287.135, as amended, a company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with any agency or local governmental entity for goods or services if:
 - 22.16.1 Any amount of, at the time bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 or is engaged in a boycott of Israel; or

- 22.16.2 One million dollars or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company:
 - 22.16.2.1 Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473; or
 - 22.16.2.2 Is engaged in business operations in Syria.

THE REMAINDER OF THIS PAGE

HAS BEEN INTENTIONALLY LEFT BLANK



IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written above. **CITY:** CITY OF PEMBROKE PINES, FLORIDA ATTEST: By: ____ MARLENE D. GRAHAM, CITY CLERK CHARLES F. DODGE, CITY MANAGER APPROVED AS TO FORM: OFFICE OF THE CITY ATTORNEY **CONTRACTOR:** «Vendor_Name_Upper_Case» By: _____ Name: Title: _____ STATE OF COUNTY OF BEFORE ME, an officer duly authorized by law to administer oaths and take acknowledgments, personally appeared _____ as ____ of **«Vendor_Name»**, a company authorized to conduct business in the State of Florida, and acknowledged execution of the foregoing Agreement as the proper official of **«Vendor_Name»** for the use and purposes mentioned in it and affixed the official seal of the corporation, and that the instrument is the act and deed of that corporation. IN WITNESS OF THE FOREGOING, I have set my hand and official seal at in the State and County aforesaid on this ______day of ______, «Contract_Signature_Year». NOTARY PUBLIC

(Name of Notary Typed, Printed or Stamped)

REFERENCES FORM

Provide specific examples of similar contracts. References should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. This form should be duplicated for each reference and any additional information that would be helpful can be attached.

Reference Contact Information:	
Name of Firm, City, County or Agency:	
Address:	
City/State/Zip:	
Contact Name:	Title:
E-Mail Address:	
Telephone: Fax:	
Project Information: Name of Contractor Performing the work:	
Name and location of the project: Nature of the firm's responsibility on the pr	roject:
	Ion (Anticipated) Date: Cost of project:
Work for which staff was responsible:	
Contract Type:	
The results/deliverables of the project:	

Reference Contact Inform	nation:			
Name of Firm, City, Count	y or Agency:			
Address:				
City/State/Zip:				
Contact Name:		Title:		
E-Mail Address:				
Telephone:	Fax:			
Project Information: Name of Contractor Performance	ming the work:			
Name and location of the p Nature of the firm's respon		ect:		//
Project duration:	Completion	(Anticipated) Date	:	
Size of project:	Co	ost of project:		
Work for which staff was re	esponsible:			
The results/deliverables of	the project:			

Reference Contact Inform	nation:			
Name of Firm, City, Count	y or Agency:			
Address:				
City/State/Zip:				
Contact Name:		Title:		
E-Mail Address:				
Telephone:	Fax:			
Project Information: Name of Contractor Performance	ming the work:			
Name and location of the p Nature of the firm's respon		ect:		//
Project duration:	Completion	(Anticipated) Date	:	
Size of project:	Co	ost of project:		
Work for which staff was re	esponsible:			
The results/deliverables of	the project:			

Reference Contact Information:	
Name of Firm, City, County or Agency:	
Address:	
City/State/Zip:	
Contact Name:	Title:
E-Mail Address:	
Telephone: Fax:	
Project Information: Name of Contractor Performing the work	k:
Name and location of the project: Nature of the firm's responsibility on the	e project:
Project dynation	letion (Anticipated) Dates
Project duration: Comp	letion (Anticipated) Date:
Size of project:	Cost of project:
Work for which staff was responsible:	
Contract Type:	
The results/deliverables of the project:	

Reference Contact Information:	
Name of Firm, City, County or Ager	ncy:
Address:	
City/State/Zip:	
Contact Name:	Title:
E-Mail Address:	
Telephone: Fa	x:
Project Information:	
Name of Contractor Performing the	work:
Name and location of the project:	
Nature of the firm's responsibility or	n the project:
Project duration: Co	ompletion (Anticipated) Date:
Size of project:	Cost of project:
Work for which staff was responsible	e:
Contract Type:	
The results/deliverables of the project	et:



Mandatory Pre-Bid/Site Visit Confirmation Form

The scanned form, signed by both the Contractor and City Representatives must be uploaded in order for the bid to be considered complete.

	, who is a representative of
(Printed name of Contractor's representa-	ative)
(Contractor's Company)	PERSONALLY came and appeared
before me and affirms that they have complete	ted the mandatory pre-bid/site visit on this the
day of	, 20 as required by:
Solicitation #:	
Solicitation Title:	
(Contractor Representative's Printed Name)	(City Representative's Printed Name)
(Contractor Representative's Signature)	(City Representative's Signature)
(Contractor's Company)	(City Representative's Department)
(Contractor's Phone Number)	(City Representative's Phone Number)
(Date)	(Date)

The City requires all questions to be submitted via the BidSync website. Such request must be received by the "Question Due Date," questions received after the "Question Due Date" shall not be answered. Interpretations or clarifications in response to such questions will be issued via BidSync. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

Proposal/Bid #: PSPW-19-14 and PSPW-19-15, Rebid of Roof Replacements for the Hazard Mitigation Grant and Various City Buildings

Company Name		Representative Name	E-Mall	Phone Number	Signature
DAVID BANGE	6900 SW 210T CT	ALEX CHRISTODOULOU	alex @david bange	150	2
ROOFING	STE B DAVIE	DAVID BANGE	roofing.com	954-901-1122	15
. could college to committee	TINGE MINES IS 930077		m/acobazziercu-inc.com	964-786-9350	mJui
THENMS SEATI ROOK SYSTEMS	1421 OGICTHORPERD WPIJCH FI 33403	- Mickey Huffman	MHUFFMAN @ THENMASEAH ROOFS. com	561-223-2096 561-313-8707	Moffe
JE CONSTRUCTION	4200 NE 2A	JORGE GUINDUANT	Jonge DECONSTRUCTION	786-5K1-437)	
ICE ROOFING	11406 Terminal C Service Rd. Orlando, FL	ZOVANNI Bracero	JOUANN & recontractor, co.		122
Follower the gring	10050 SW 132 Are Miani C. 33180	Samy E baja	Samy @fullcover-roofin	5800	AD
Cumao Bulders Corp.	16254SW 8155	Cardos Fernandet	(Fernuadez 6 (ununobe	786-308	Man)
CUNANO BUILDERS (ORP.	SUTE \$32, 416M1, FZ 3319	6 JOSE VELASCO	BIDSE CUNANOBLE	7862583719	Just the
DSB Construction Contractors Corp	P.Pines R. 33024	Lisselle Padilla	lissette @dsbgc com	9545207663	Spalitle
BOW HEAD ADORING	8348 N W S 67 427 DOROL, FL 33/6(FREDY JANGUEZ	F SANCHEZ @ BOW HEAD ROOFING . CH	786 877 9332	do
CROWN ROOFING	1621 BLOUST RD POMPANO BUT PL	GANIN STANGET	gavin@crownrfg. cen	410-207-2614	BUS
Paul Bange Roofing Dowid Bange Roofing	Payle FC C900 SW 215t Ct	Joey Belviss	Joey@paul Banque of,ng	954-214-0149	4 Bil
Dowid Bonga Roofing	Suite 13 DaviefL	David Bange	DavidBonge@Gnail.	954)850-8754	Mah
ASSURED CONTRAC	3553 NW 16th AND OANLAND PAIN FL	JOE ALSBERTS	OFERATIONS C ASSURFOLC.COM	954-652-1098	Gui
PATLO COPYTRUCTUR		FABIO RAMIRAZ	FabioCraxlogc.com		For R-
Florida Rooting and Sheet Metal	1721 Tonva Nd #4	Bredly Dunn	Florida Rooting Slot & gran,		Boluse
TRUSTRD CONSTRUCTO		RICHARD MCCALLA	RKHARDÓ	631	W/1/4 MAD 1/1
IHC	LAKE WORTH FL	7-2011	TRUSTRUCCINSTRUCTION. CON	1 8312797	EN/ 1119M
	33461				- 1 , 29

Date: Wednesday December 18, 2019 at 10:00 a.m

Proposal/Bid #: PSPW-19-14 and PSPW-19-15, Rebid of Roof Replacements for the Hazard Mitigation Grant and Various City Buildings

	vedilesday beceimber 10, 2013 at 10:00 a.m.				
Company Name	Address (COZ) NW (COZ)	Representative Name	E-Mail		Signature
DSB Construction Contractor	Address 6231 NW 13 St Pembroke Pines FL 33023	Alex Pacheco	alex @ Bsbgc.com	786913 0077	alit
*.					
	4	(A)			
					,
		-			

PRE-BID ATTENDANCE SHEET

Date: Monday January 6, 2020 at 9:00 a.m.

Proposal/Bid #: #PSPW-19-15 - Rebid of Roof Replacements at Various City Buildings.

Company Name	Address	Representative Name	E-Mail	Phone Number	Signature
Eunano Builders	162595W 31 ST	(arlo) Fernunda	E-Mail (Feorus de Conuns BC. Com RICHARD & TRUSTRO CONSTRUCTION. COM	7863081562	And in
TRUSTIZD CONSTRUCTION	3677 23MANRS #C-101 LAKEWORTH FL 33461	RICHARD MCCALLA	RICHARD @ TRUSTRD CONSTRUCTION.COM	631 831 2797 48287	M
full cover booking	miami FL 33186	Saul Deleid	Samre Gullcover-Rossi	1912	
Florida Rocking	MZI convaped, west Palmound	Bradley Dynn	Florida Rocting S615 Gmg/	863-253-	By Gl
Roupid Response Team	2500 N. Andrews Are. Rompomo Beach	Maria Greds	Flourdar Roct-ing State Graft mguedes@rrffl.com	954.621.688	
		0			
, 4	•				
			,		

* DID NOT ATTEND MANDATURY PRÉ-BID



FINAL/PARTIAL RELEASE OF LIEN

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, for and in consideration of the payment of the sum of \$ [Payment Amount]	
and other valuable consideration, paid by City of Pembroke Pines, receipt of which is hereby	
acknowledge, hereby releases and quit claims to the said [Contractor Name]	
its successors and assigns, and	

City of Pembroke Pines

The owner, all liens, lien rights, claims and demands of any kind whatsoever, which the undersigned now has or might have against the building on premises legally described as:

[Description]
PO #: [PO #]
Invoice #: [Invoice #]

On account of labor performed and/or material furnished for the construction of any improvements thereon. That all labor and materials used by the undersigned in the erection of said improvements have been fully paid for:

Witnesses:			TRACTOR ME OF CONTRACTOR]	
		BY:		_
Print Name				
Print Name				
STATE OF FLORIDA COUNTY OF BROWAR)) ss: RD)			
ON THIS	day of	, 20	_, before me, the undersigned	ed notary public,
personally appeared	[Contractor's Rep	oresentative] as	[Job Title]	of
Name of Contractor	r]	, perso	nally known to me, or who	has produced
instrument and who ackn	owledged that (s)he		e person who subscribed to that (s)he was duly authorized ficial seal.	
		NOTARY I	PUBLIC	
My Commission Expires	:	Print or Ty	pe Name	



Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R622

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Senior Center 301 NW 103rd Ave Pembroke Pines, FL 33025

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 09/16/2019 our field representative visited the referenced site and conducted thirty-five (35) field withdrawal resistance tests on the OMG 1.8" Twin-Lock base sheet fasteners into the lightweight insulating concrete (LWIC). All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following:

Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

Gener	al Information	n:	
	Job Name:	Senior Ce	enter
	Job Address:	301 NW	103rd Ave
		Pembroke	e Pines, FL 33025
	Contact Indivi at jobsite (if a		Desharnais
Testin	g Agency / Eq	uipment Iı	nformation:
Note:			ledges that all testing has been conducted and results have nce with Florida Building Code Test Protocol TAS-105
	Testing Agend	cy Name:	Federal Engineering & Testing Inc.
	Company Add	dress:	3370 NE 5th Avenue, Oakland Park, FL 33334
	Company Tele	ephone:	(954) 784-2941
	Company Fax	:	(954) 784-7875
	Representative	e Name:	Mr. Keith LeBlanc P.E.
	Representative	e Title:	Professional Engineer
	Signature:		Kuth Le Sla

Comten Industries Fastener Tester Model DFG2W2000

Testing Apparatus:

, tita of ill for it
G ederal
Ingineering
& D esting, Inc.

Building / Roof System Information:	Area Number:	1	
	Roof Area Height	20	ft.
	Roof Area Length	269	ft.
	Second Largest Dimension	236	ft.
	Total Roof Area	41926	ft²
	_	419	sq
	Perimeter Area(See RAS 117)	5308	ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area		ft²
	(See RAS 117)		
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area (See RAS 117)		ft²



Field Withdrawal Resistance Recording Sheet

Component to be secured:	Area Number 1		
☐ Insulation	(Refer to deck dimensions on Page No. 2)		
☐ Membrane	Fastener Type: 1.8" Twin-Lock		
☐ Anchor or Basesheet	Fastener Manufacturer: OMG		
☐ Woodblocking	Predrilled: Yes No 🔽		
☐ Metal Profiles	If Yes, Drill Bit Size: N/A "diameter		
Resistance Verification Only	Hole Depth: N/A		

See Section 8 to determine number of tests (If drill is high tolerance include range in 1/1000" tolerance)

C. 172 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	See Section 8 to determine number of tests (
Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area			
1	143	С			
2	146	C			
3	201	C			
4	129	C			
5	64	С			
6	142	С			
7	135	C			
8	172	C			
9	92	С			
10	112	C			
11	173	С			
12	171	С			
13	167	P			
14	132	P			
15	92	P			
16	103	P			
17	120	P			
18	167	P			
19	230	P			
20	211	P			
21	170	P			
22	127	P			
23	152	P			
24	160	P			
25	162	F			

Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area
26	211	F
27	134	F
28	53	F
29	116	F
30	54	F
31	98	F
32	98	F
33	184	F
34	130	F
35	117	F
36		
37		
38		
39		
40		
41		
42		
43		
44		-
45		
46		
47		
48		
49	-	
50		

k	astener	Instal	lation .	Info	ormation:
---	---------	--------	----------	------	-----------

Is the fastener a s	self driller?	_ Y	'es	✓ No		
If yes, list the typ	e of tool us	ed for faste	ener insta	allation:	N/A	
Speed of tool:	N/A	rpm's				
Number of tests	conducted:	n= _	35			

^{*} See Section 8 of Test Protocol TAS 105

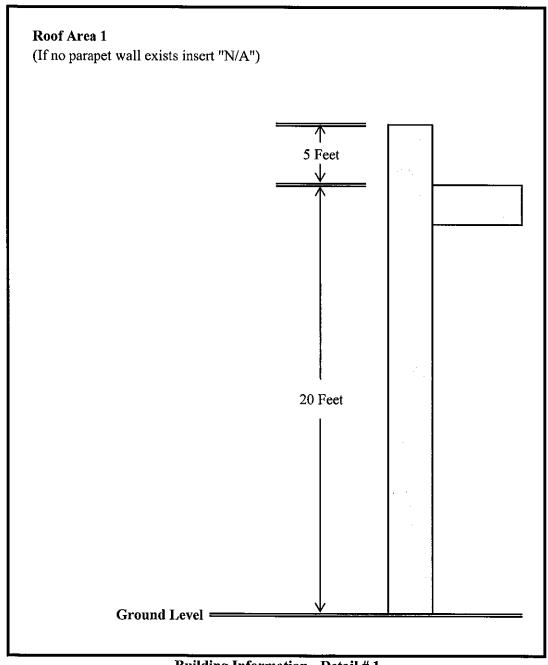
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)



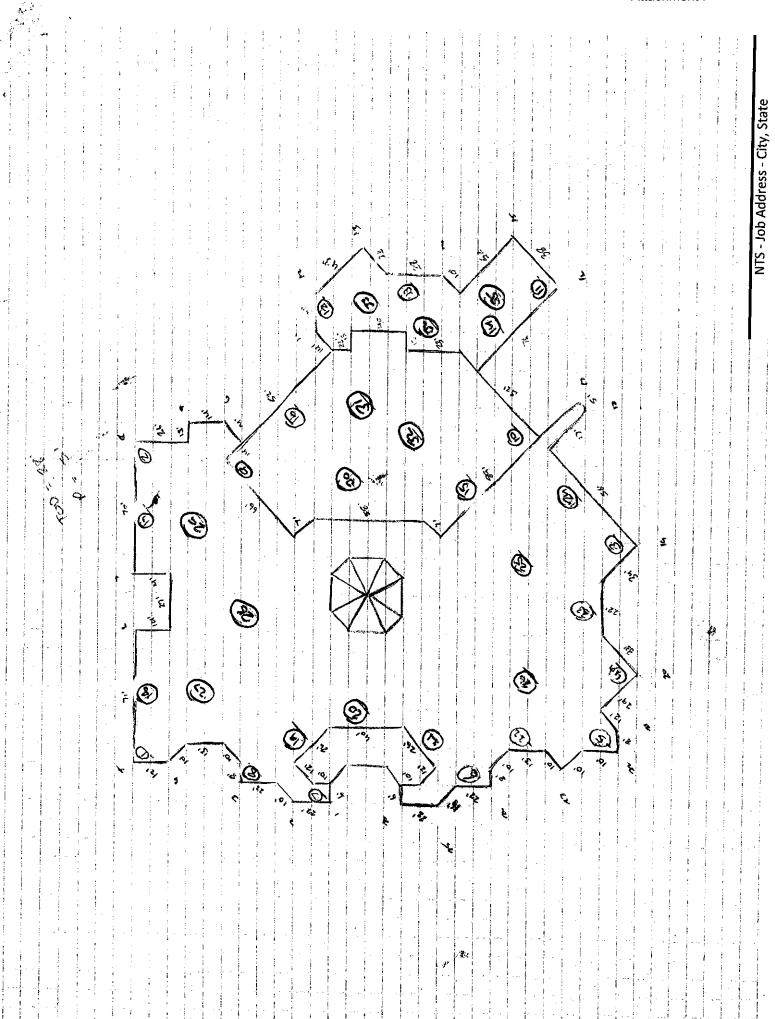
Mean Failure Load	F≔	139.09	lbf
Sample Standard Deviation	Sf=	43.17	lbf
Minimum Characteristic Resistance Force	F'=	125.68	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.



Building Information - Detail #1





Products & Solutions for th	e Weighing Industry

Miami Branch Office • Sal	es, Service, Rentals

CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019
MODEL NUMBER:	SERIAL NUMBER: 2140844 / WT #1 CAPACITY: 2,000 LB		SCOTT
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB
SERIAL NUMBER: 2140844 / WT #1 CAPACITY: 2,000 LB PROCEDURE USED: TEST WEIGHT DIVISIONS: .1 LB THIS DOCUMENT CERTIFIES THAT THE ABOVE INSTRUMENT HAS BEEN TESTED AND FOUND TO BE WITHIN 5% OF THE FIRST 500 LB. OF A TEST LOAD AND WITHIN 10% OF A TEST LOAD BETWEEN 501 LB AND 2,000 LB THE STANDARDS USED ARE ALSO TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS			
WITHIN 5% OF	THE FIRST 500 LB. OF A TEST L 501 LB ARDS USED ARE ALSO TRACEAR	OAD AND WITHIN 10% OF AND 2,000 LB BLE TO THE NATIONAL INS	A TEST LOAD BETWEEN
STANDARDS CALIBR		11/23/2017 137	





Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R622

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Senior Center 301 NW 103rd Ave Pembroke Pines, FL 33025

Dear: Sirs:

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On 09/16/2019 our field representative visited the referenced site and conducted thirty-five (35) field withdrawal resistance tests on the OMG 1.8" Twin-Lock base sheet fasteners into the lightweight insulating concrete (LWIC). All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following:

Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

General Information:

	Job Name:	Senior Ce	enter
	Job Address:	301 NW 1	103rd Ave
		Pembroke	e Pines, FL 33025
	Contact Indivi at jobsite (if a		Desharnais
Testin	ig Agency / Equ	uipment Ir	nformation:
Note:			ledges that all testing has been conducted and results have nce with Florida Building Code Test Protocol TAS-105
	Testing Agenc	y Name:	Federal Engineering & Testing Inc.
	Company Add	lress:	3370 NE 5th Avenue, Oakland Park, FL 33334
	Company Tele	ephone:	(954) 784-2941
	Company Fax	; is	(954) 784-7875
	Representative	e Name:	Mr. Keith LeBlanc P.E.
	Representative	e Title:	Professional Engineer
	Signature:		Kuth Le Bla
			9/27/19
	Testing Appar	atus:	Comten Industries Fastener Tester Model DFG2W2000

Gederal Gngineering & Gesting, Inc.

Sunding / Roof System Information	Area Number: _	1	
	Roof Area Height_	20	ft.
	Roof Area Length_	269	ft.
	Second Largest Dimension	236	ft.
	Total Roof Area	41926	ft²
		419	sq.
	Perimeter Area(See RAS 117)	5308	ft²
Building / Roof System Information:	Area Number:		
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	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area (See RAS 117)		ft²
Building / Roof System Information:	Area Number:		_
	Roof Area Height		ft.
	Roof Area Length		_ft.
	Second Largest Dimension		_ft.
	Total Roof Area		_ft²
			_sq.
	Perimeter Area (See RAS 117)		_ft²



Field Withdrawal Resistance Recording Sheet

☐ Me ☐ And ☐ Wo ☐ Me	ulation mbrane chor or Basesho odblocking tal Profiles sistance Verific		drill is hig	Fastener Type: Fastener Manu Predrilled: Ye If Yes, Drill Bi Hole Depth:	1.8" Twin- facturer: OM s No t Size: N/A N/A	Lock IG
Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area		Sample & Plan	Initial Failure Load (lbf)	, Root Area;
1	143	С		26	211	F
2	146	С		27	134	F
3	201	C		28	53	F
44	129	С		29	116	F
5	64	С		30	54	F
6	142	C		31	98	F
7	135	С		32	98	F
8	172	С		33	184	F
9	92	C		34	130	F
10	112	С		35	117	F
11	173	C		36		
12	171	С		37		
13	167	P		38		
14	132	P		39		
15	92	P		40		
16	103	P		41		
17	120	P		42		
18	167	P		43		
19	230	P		44		
20	211	P		45		
21	170	P		46		
22	127	P		47		·
23	152	P		48		· · · · · · · · · · · · · · · · · · ·
24	160	P		49		<u>.</u>
25	162	F		50		
If yes, l Speed o	astener a self dr list the type of t	riller?		☑ No lation: <u>N/A</u>		

^{*} See Section 8 of Test Protocol TAS 105

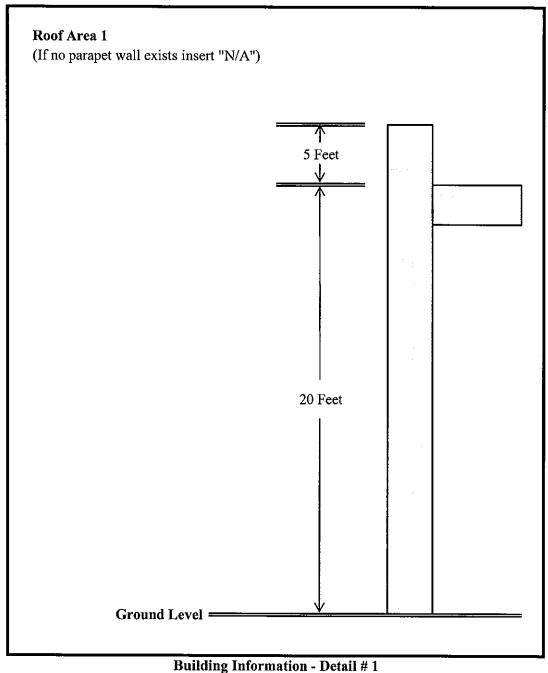
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)

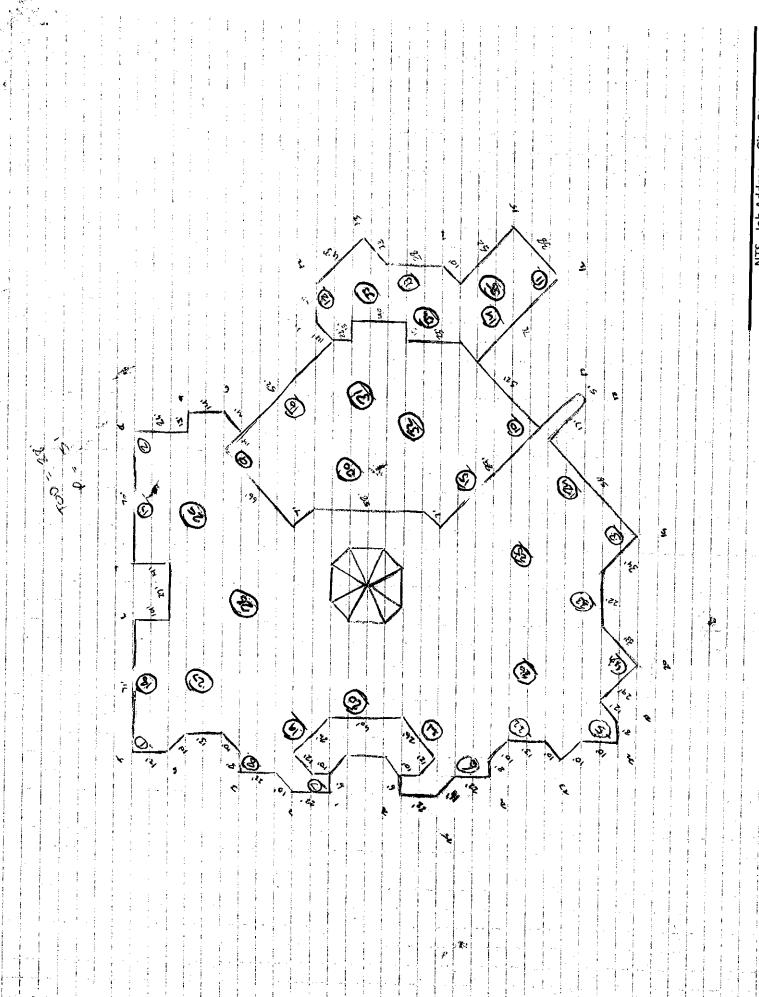


Mean Failure Load	F=	139.09	lbf
Sample Standard Deviation	Sf=	43.17	—— lbf
Minimum Characteristic Resistance Force	F'=	125.68	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.







Products & Solutions for the	
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CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB
WITHIN 5% OF	ARDS USED ARE ALSO TRACEAE	OAD AND WITHIN 10% OF A AND 2,000 LB	A TEST LOAD BETWEEN
STANDARDS CALIBR	ATION DATE:	11/23/2017	
FLORIDA STATE CER	RTIFICATION NO.:	137	

CARDINAL • DETECTO





Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R622

City of Pembroke Pines 8300 South Palm Drive

Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE: TAS-126 Roof Moisture Survey

Senior Center 301 NW 103rd Ave

Pembroke Pines, FL 33025

Dear Sirs:

In accordance with your authorization, Federal Engineering & Testing, Inc. has performed a Roof Moisture Survey in compliance with TAS-126 and the Florida Building Code Section 1521.12 on September 16, 2019 at the above referenced project site.

The purpose of our survey was to determine the moisture content of the exterior roof. This is a roof moisture survey only and is not considered a roof top inspection.

The subject building consists of a C.B.S. structure with a built up roof system over lightweight concrete insulation over a metal roof deck.

On September 16, 2019 our field engineer visited the site and conducted a nuclear moisture survey. In addition, 8 core samples were secured to verify the oven dried moisture contents.

All tests were performed according to the Florida Building Code Section 1521.12, Protocol TAS-126 and the Roof Consultants Institute "Standard Practice for the Detection and Location of Latent Moisture in Building Roofing Systems by Nuclear Thermalization" using a Troxler Model 3216.

Pursuant to the Florida Building Code Section 1521.12; the moisture content of the existing roof system shall not exceed 5% by weight in the roof membrane and 8% by weight in the insulation system.











September 27, 2019 Senior Center 301 NW 103rd Ave Pembroke Pines, FL 33025 Page 2



The following is a summary of the core test results:

	Ov	en Dried	Gravimetr	ic Analysi	s % Moist	ure		
Core Number	1	2	3	4	5	6	7	8
Grid Core Locations	F-12	S-9	F-7	N-6	F-7	C-9	F-4	A-9
Built Up Roof	0.2	0.3	1.5	3.7	0.5	0.3	0.4	1.8
Lightweight Concrete	NA	NA	NA	NA	NA	NA	NA	NA
Nuclear Reading	7	24	45	59	8	9	22	34

The moisture content of the existing roof was in compliance with the Florida Building Code Section 1521.12 and Protocol TAS-126 at the time of the inspection with the exception of the following. No grid locations were found with trapped moisture greater than 5% in the roof membrane layers or 8% in the insulation layers. (See attached roof top plan for locations of corings and results of each test grid). Moisture testing of the lightweight concrete not required per FBC Section 1521.12.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements and roof top traffic. It has been a pleasure serving you at this phase of your project and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, PE

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization 5471

Miami-Dade County Certification # 18-1105.02



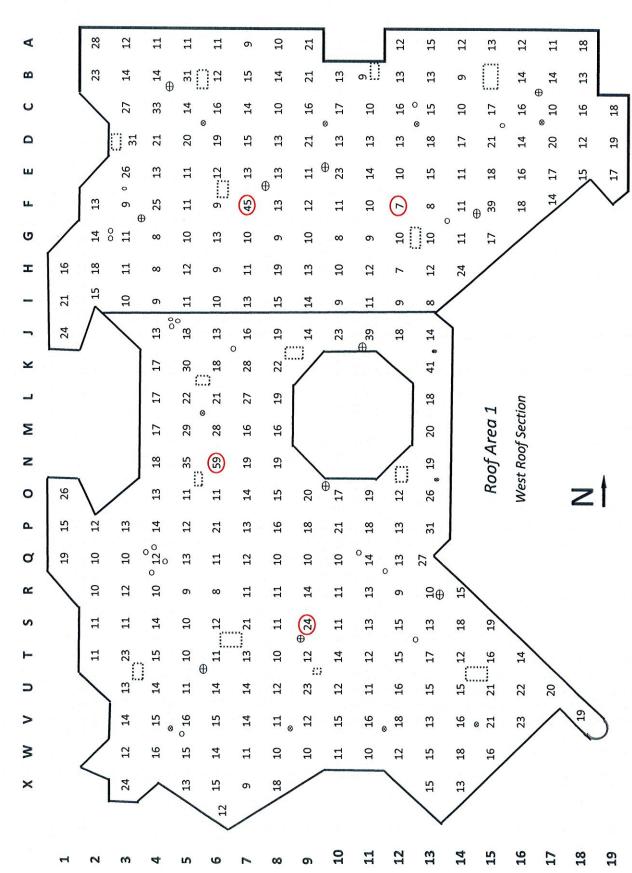


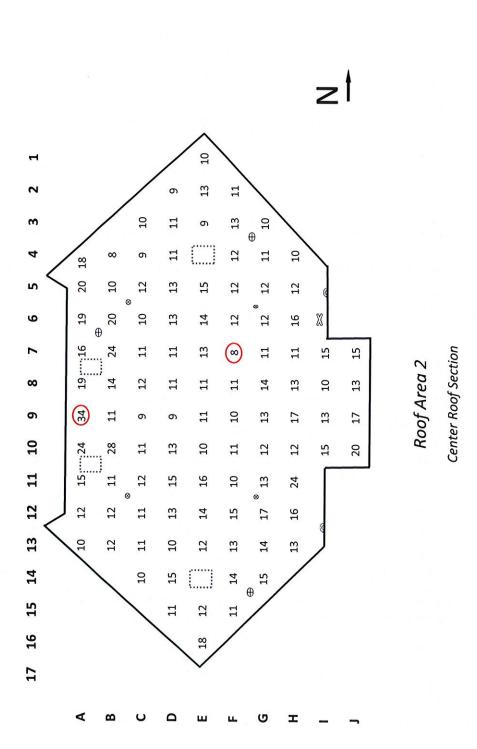












Moisture Gravimetric Analysis - Roof Area 1

(Elederal Elegental Elegen

Client: City of Pembroke Pines

Address: 8300 South Palm Drive

ess: 8300 South Palm Drive Pembroke Pines, FL 33024

Project: Senior Center

Project Address 301 NW 103rd Ave

Pembroke Pines, FL 33025

Work Order #: 19R622

Field Test Date: September 16, 2019

Laboratory Date: September 17, 2019

Test &	Test & Location	Description	Weight Before Drying	Weight After Drying	Moisture Weight	Percent (%) Moisture
Core 1	Grid Point					
	,	Built Up Roof	12.18	12.15	0.03	0.2
7	10	-		-	-	-
_	71 - 1	-	-	1	1	-
		-	-	1	ı	ŧ
Core 2	Grid Point					
		Built Up Roof	28.23	28.15	0.08	0.3
70	ď	-	-	-	1	1
† 7	ĵ,	-	-	1	-	_
		-	•	-	-	_
Core 3	Grid Point					
		Built Up Roof	18.57	18.30	0.27	1.5
45	F.7	-	•	ı	-	1
}	-	•	•	1	-	•
		-	•	-	•	1
Core 4	Grid Point					
		Built Up Roof	44.68	43.09	1.59	3.7
20	« Z	-	-	-	-	1
3	2	-	•	1	-	1
		1	-	•	ŧ	•

Federal Engineering & Testing Inc. | 250 SW 13th Ave | Pompano Beach, FL 33069 | 954-784-2941

Moisture Gravimetric Analysis - Roof Area 2 & 3

Clip of Pembroke Pines

Address: 8300 South Palm Drive

Pembroke Pines, FL 33024

Project: Senior Center

Project Address 301 NW 103rd Ave

Pembroke Pines, FL 33025

Work Order #: 19R622

Gederal Engineering & Gesting, Inc.

Field Test Date: September 16, 2019

Laboratory Date: September 17, 2019

Test &	Test & Location	Description	Weight Before Drying	Weight After Drying	Moisture Weight	Percent (%) Moisture
Core 1	Grid Point					
		Built Up Roof	12.11	12.05	90:0	0.5
c	h L		-	•	_	•
×)-L	•	. 1	-	-	•
		1	ĝ	1	_	•
Core 2	Grid Point					
		Built Up Roof	26.00	25.93	0.07	0.3
c	(-	_	_		•
D)	" }	1	_	•	-	•
		-	-	-	_	•
Core 3	Grid Point					
	i.	Built Up Roof	23.34	23.24	0.10	0.4
ć	L	-	_	1	•	•
77	† L	_	•	•	•	1
		-	-	•	•	1
Core 4	Grid Point					
		Built Up Roof	26.00	25.53	0.47	1.8
Š	<	-	•	-	_	-
, 4,	? - -	_		_	_	1
		•	ı	1	1	1

Federal Engineering & Testing Inc. | 250 SW 13th Ave | Pompano Beach, FL 33069 | 954-784-2941



Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R622

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

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TAS-126 Roof Moisture Survey

Senior Center 301 NW 103rd Ave Pembroke Pines, FL 33025

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Pursuant to the Florida Building Code Section 1521.12; the moisture content of the existing roof system shall not exceed 5% by weight in the roof membrane and 8% by weight in the insulation system.











September 27, 2019 Senior Center 301 NW 103rd Ave Pembroke Pines, FL 33025 Page 2



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Built Up Roof	0.2	0.3	1.5	3.7	0.5	0.3	0.4	1.8
Lightweight Concrete	NA	NA	NA	NA	NA	NA	NA	NA
Nuclear Reading	7	24	45	59	8	9	22	34

The moisture content of the existing roof was in compliance with the Florida Building Code Section 1521.12 and Protocol TAS-126 at the time of the inspection with the exception of the following. No grid locations were found with trapped moisture greater than 5% in the roof membrane layers or 8% in the insulation layers. (See attached roof top plan for locations of corings and results of each test grid). Moisture testing of the lightweight concrete not required per FBC Section 1521.12.

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Sincerely,

Keith LeBlanc, PE

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization 5471

Miami-Dade County Certification # 18-1105.02



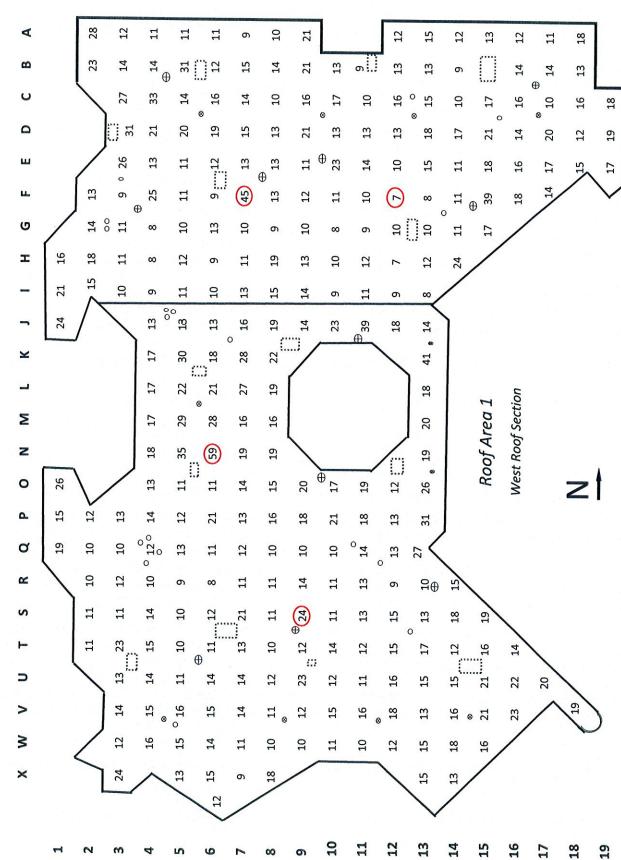


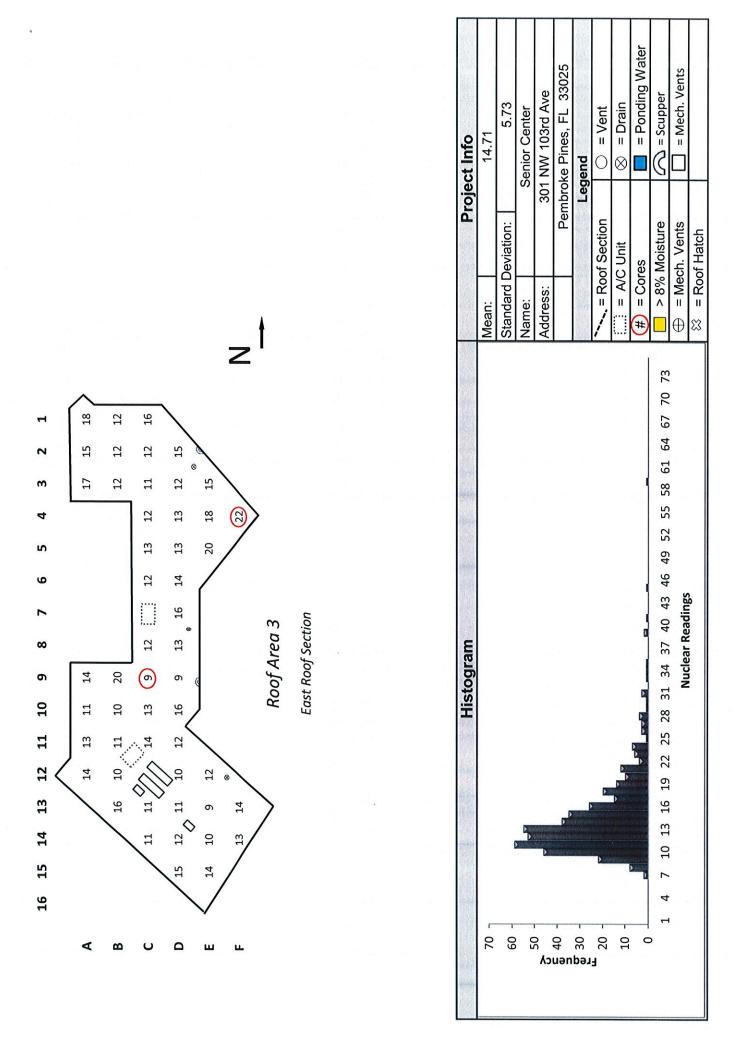












Moisture Gravimetric Analysis - Roof Area 1

Client: City of Pembroke Pines

Address: 8300 South Palm Drive

Pembroke Pines, FL 33024

Project: Senior Center

Project Address 301 NW 103rd Ave

Pembroke Pines, FL 33025

Work Order #: 19R622

Gederal Engineering & Desting, Inc.

Field Test Date: September 16, 2019

Laboratory Date: September 17, 2019

Test &	Test & Location	Description	Weight Before Drying	Before Drying Weight After Drying	Moisture Weight	Percent (%) Moisture
Core 1	Grid Point					
		Built Up Roof	12.18	12.15	0.03	0.2
7	12	-	-	1	•	•
	7 -1	•	-	•	-	•
		1	-	•	-	ţ
Core 2	Grid Point	-				
		Built Up Roof	28.23	28.15	0.08	0.3
č	6	ı	•	-	ı	-
47	P O	ı	-	1	•	
		,	-	•	-	1
Core 3	Grid Point					
	i	Built Up Roof	18.57	18.30	0.27	1.5
,	1	1	_	-	-	\$
,	L	1	-	1	•	•
		•	•	E	t	1
Core 4	Grid Point					
		Built Up Roof	44.68	43.09	1.59	3.7
Ċ.	<u> </u>	-	-	•	_	1
80	2	•	_	1	,	1
		-	•	•	•	•

Federal Engineering & Testing Inc. | 250 SW 13th Ave | Pompano Beach, FL 33069 | 954-784-2941

Moisture Gravimetric Analysis - Roof Area 2 & 3

Client: City of Pembroke Pines

Address: 8300 South Palm Drive

cas. Octob South Faith Drive

Pembroke Pines, FL 33024

Project: Senior Center
Project Address 301 NW 103rd Ave

Pembroke Pines, FL 33025

Work Order #: 19R622

Gederal Angineering & Oesting, Inc.

Field Test Date: September 16, 2019

Laboratory Date: September 17, 2019

Core 1 G		Describación (1985)	reigin beiole Diying	Weight Aiter Drying	Moisture Weignt	Percent (%) Moisture
	Grid Point					
		Built Up Roof	12.11	12.05	90.0	0.5
00	F-7	•	1	•	-	ı
)	-	1	1	•	-	-
		•	•	-	•	
Core 2 G	Grid Point					
		Built Up Roof	26.00	25.93	0.07	0.3
σ.	ر ٥	1	-	•	1	ŧ
)))	t	1	•	1	•
		ę	•	•	_	-
Core 3 Gi	Grid Point					
	•	Built Up Roof	23.34	23.24	0.10	0.4
22	Н- 4-	-	•	•	1	-
<u> </u>		1	1	1	-	•
		-	,		•	-
Core 4 Gr	Grid Point					
		Built Up Roof	26.00	25.53	0.47	1.8
34	9-A	•	1	•	-	1
)	ı	1		-	ı
		1	•	,	-	1

Federal Engineering & Testing Inc. | 250 SW 13th Ave | Pompano Beach, FL 33069 | 954-784-2941



Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com

www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R644

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Studio 18

1101 Poinciana Drive (screws) Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 09/26/2019 our field representative visited the referenced site and conducted ten (10) field withdrawal resistance tests on the Drilltech #12 Screw fasteners into the metal roof deck. All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following: Field Withdrawal Resistance Test Results Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

General Information:

	Job Name:	Studio 18	
	Job Address:	1101 Poir	nciana Drive (screws)
		Pembroke	e Pines, FL 33024
	Contact Indivi at jobsite (if a		Desharnais
Testin	g Agency / Equ	uipment Ir	nformation:
Note:			ledges that all testing has been conducted and results have nce with Florida Building Code Test Protocol TAS-105
	Testing Agenc	ey Name:	Federal Engineering & Testing Inc.
	Company Add	lress:	3370 NE 5th Avenue, Oakland Park, FL 33334
	Company Tele	ephone:	(954) 784-2941
	Company Fax	: ,	(954) 784-7875
	Representative	e Name:	Mr. Keith LeBlanc P.E.
	Representative	e Title:	Professional Engineer
	Signature:		Kutt Le B
			10/1/18
	Testing Appar	atus:	Comten Industries Fastener Tester Model DFG2W2000

Building / Roof System Information:	Area Number:	11	
	Roof Area Height	19	ft
	Roof Area Length	140	ft
	Second Largest Dimension	60	ft.
	Total Roof Area	8400	ft [:]
		84	sc
	Perimeter Area(See RAS 117)	2256	ft [:]
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq
	Perimeter Area		ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area		ft²



Field Withdrawal Resistance Recording Sheet

Component to be secured: Insulation Membrane Anchor or Basesheet Woodblocking Metal Profiles Resistance Verification Only			Area Number 1 (Refer to deck dimensions on Page No. 2) Fastener Type: #12 Screws Fastener Manufacturer: Drilltech Predrilled: Yes No If Yes, Drill Bit Size: N/A "diameter Hole Depth: N/A			
Sample & Plan Identifier	Initial Failure Load (lbf)	ermine number of tests (If	drill is high tolerance include range Sample & Plan Identifier	in 1/1000" tolerance) Initial Failure Load (lbf)	Roof Area	
1	520	С	26			
2	398	C	27			
3	463	C	28			
4	392	C	29			
5	430	P	30			
6	350	P	31			
7	520	P	32			
8	406	P	33			
9	410	F	34			
10	512	F	35	1		
11			36			
12			37			
13			38			
14			39			
15			40			
16		<u>-</u> .	41			
17			42			
18			43			
19			44			
20			45			
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			48			
24			49			
25			50			
Is the fa If yes, I Speed o	allation Inform astener a self dr list the type of to of tool: Vari r of tests condu	iller?	_	ess Drill		

See Section 8 of Test Protocol TAS 105

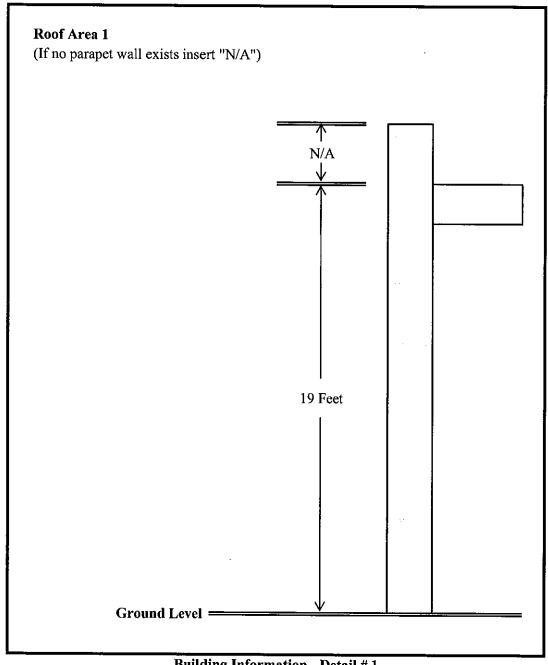
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)



Mean Failure Load	F=	440.10	lbf
Sample Standard Deviation	Sf=	60.40	lbf
Minimum Characteristic Resistance Force	F'=	422.54	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.



Building Information - Detail #1



Products & Solutions for the Wes	

Miami Branch Office • Sales, S	ervice, Rentals

CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050					
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19					
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019					
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT					
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB					
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB					
THIS DOCUMENT CERTIFIES THAT THE ABOVE INSTRUMENT HAS BEEN TESTED AND FOUND TO BE WITHIN 5% OF THE FIRST 500 LB. OF A TEST LOAD AND WITHIN 10% OF A TEST LOAD BETWEEN 501 LB AND 2,000 LB THE STANDARDS USED ARE ALSO TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).								
STANDARDS CALIBR	ATION DATE:	11/23/2017						
FLORIDA STATE CER	RTIFICATION NO.:	137						

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Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R644

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Studio 18

1101 Poinciana Drive (screws) Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 09/26/2019 our field representative visited the referenced site and conducted ten (10) field withdrawal resistance tests on the Drilltech #12 Screw fasteners into the metal roof deck. All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following:

Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

Gener	al Information	n:			
	Job Name:	Studio 18			
	Job Address:	1101 Poin	ciana Drive (screws)		
		Pembroke	Pines, FL 33024		
	Contact Indivi at jobsite (if a		Desharnais		
Гestin	g Agency / Eq	uipment In	formation:		
Note:	The undersigned acknowledges that all testing has been conducted and results have been reported in compliance with Florida Building Code Test Protocol TAS-105				
	Testing Agend	cy Name:	Federal Engineering & Testing Inc.		
	Company Add	dress:	3370 NE 5th Avenue, Oakland Park, FL 33334		
	Company Tele	ephone:	(954) 784-2941		
	Company Fax	:	(954) 784-7875		
	Representative	e Name:	Mr. Keith LeBlanc P.E.		
	Representative	e Title:	Professional Engineer		
	Signature:		Kart Le B (10/1/19		
	Testing Appar	ratus:	Comten Industries Fastener Tester Model DFG2W2000		

Building / Roof System Information:	Area Number:	1	
	Roof Area Height	19	ft.
	Roof Area Length	140	ft.
	Second Largest Dimension	60	ft.
	Total Roof Area	8400	ft²
		84	sq.
	Perimeter Area(See RAS 117)	2256	ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
	_		sq.
	Perimeter Area(See RAS 117)		ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area		ft²

(See RAS 117)



Field Withdrawal Resistance Recording Sheet

Component to be secured: Insulation Membrane Anchor or Basesheet Woodblocking Metal Profiles Resistance Verification Only			fuill is high	Area Number 1 (Refer to deck dimensions on Page No. 2) Fastener Type: #12 Screws Fastener Manufacturer: Drilltech Predrilled: Yes No If Yes, Drill Bit Size: N/A "diameter Hole Depth: N/A		
Sample & Plan Identifier	Initial Pailure Load (lbf)	The are the employed have the contract of the contract of		Sample & Plan Identifier	Initial Failure	Roof Area
1	520	С		26		
2	398	C		27		
3	463	C		28		
4	392	C		29		
5	430	P		30		
6	350	P		31		
7	520	P] [32		
8	406	P		33		
9	410	F] [34		
10	512	F] [35		
11] [36		
12] [37		
13				38		
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17			j	42		
18				43		
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23			↓ 	48		
24			↓	49		
25			J L	50		
Is the far If yes, I Speed of Number		riller?	-	☐ No ntion: <u>Cordles</u>	ss Drill	

^{*} See Section 8 of Test Protocol TAS 105

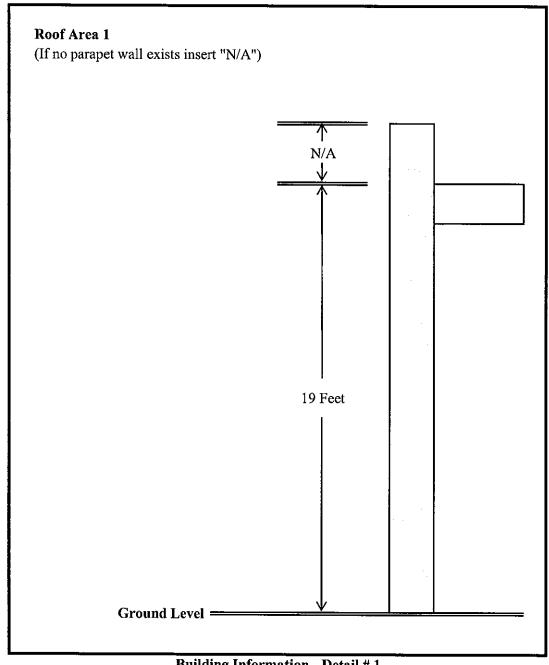
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)



Mean Failure Load	F=	440.10	lbf
Sample Standard Deviation	Sf=	60.40	lbf
Minimum Characteristic Resistance Force	F'=	422.54	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.



Building Information - Detail #1



Products & Solutions for the Weighing Industry
Miami Branch Office • Sales, Service, Rentals

CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050		
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19		
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019		
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT		
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB		
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB		
THIS DOCUMENT CERTIFIES THAT THE ABOVE INSTRUMENT HAS BEEN TESTED AND FOUND TO BE WITHIN 5% OF THE FIRST 500 LB. OF A TEST LOAD AND WITHIN 10% OF A TEST LOAD BETWEEN 501 LB AND 2,000 LB					
THE STANDARDS USED ARE ALSO TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).					
STANDARDS CALIBRATION DATE: 11/23/2017					
FLORIDA STATE CERTIFICATION NO.: 137					

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Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R645

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Studio 18

1101 Poinciana Drive (base sheet) Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 09/26/2019 our field representative visited the referenced site and conducted thirteen (13) field withdrawal resistance tests on the OMG 1.8" Twin-Lock base sheet fasteners into the lightweight insulating concrete (LWIC). All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following:

Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

Gener	al Information	1:	
	Job Name:	Studio 18	
	Job Address:	1101 Poin	ciana Drive (base sheet)
		Pembroke	Pines, FL 33024
	Contact Indivi at jobsite (if a		Desharnais
Testin	g Agency / Eq	uipment In	formation:
Note:			ledges that all testing has been conducted and results have nee with Florida Building Code Test Protocol TAS-105
	Testing Agend	cy Name:	Federal Engineering & Testing Inc.
	Company Add	dress:	3370 NE 5th Avenue, Oakland Park, FL 33334
	Company Tele	ephone:	(954) 784-2941
	Company Fax	:	(954) 784-7875
	Representative	e Name:	Mr. Keith LeBlanc P.E.
	Representative	e Title:	Professional Engineer
	Signature:		Kutt Le Dola
			3/27/19
	Testing Appar	ratus:	Comten Industries Fastener Tester Model DFG2W2000

Building / Roof System Information:	Area Number:	1	
	Roof Area Height	19	ft.
	Roof Area Length	140	ft.
	Second Largest Dimension	60	ft.
	Total Roof Area	8400	ft²
		84	sq.
	Perimeter Area(See RAS 117)	2256	ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area(See RAS 117)		ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
	_		sq.
	Perimeter Area		ft²

(See RAS 117)



Field Withdrawal Resistance Recording Sheet

					-	
Component to	be secured:			Area Number	1	
	ulation			(Refer to deck dimer	nsions on Page No. 2	
☐ Me	mbrane			Fastener Type:		
☐ And	chor or Baseshe	eet		Fastener Manu		
□ Wo	odblocking			Predrilled: Ye	s 🗆 No 💆	
	tal Profiles				it Size: N/A	
☑ Res	sistance Verifica	ation Only			N/A	
		•		,		
	See Section 8 to dete	ermine number of tests (If	drill is hig	h tolerance include range i	n 1/1000" tolerance)	
Sample & Plan	Initial Failure	The Advanced Commencer		Sample & Plan	Initial Failure	The Contract of the Contract o
Identifler	Loád (lbf)	Roof Area		Identifier	Load (lbf)	Roof Area
1	202	C		26		
2	284	C		27	!	
3	203	С		28		
4	164	С		29		
5	220	P		30		
6	243	P		31		
7	226	P		32		
8	209	P		33		
9	209	F	Ì	34		
10	221	F		35		
11	279	F	Ì	36		
12	283	F		37		
13	227	F		38	·	
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^{*} See Section 8 of Test Protocol TAS 105

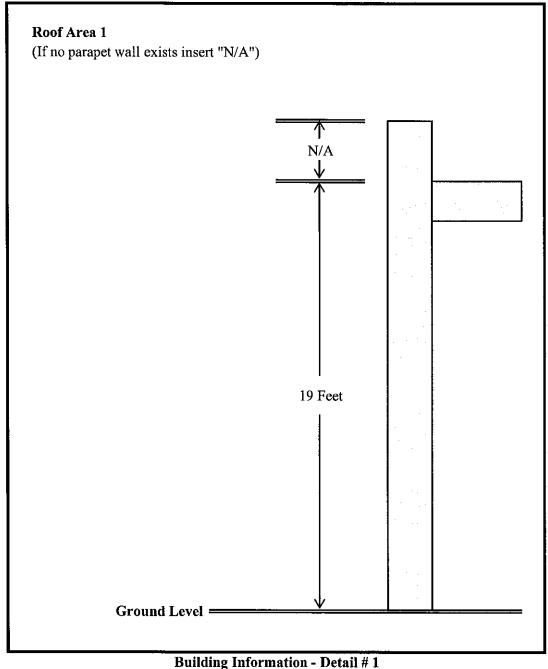
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)



Mean Failure Load	F=	228.46	lbf
Sample Standard Deviation	Sf=	35.62	lbf
Minimum Characteristic Resistance Force	F'= _	215.45	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.



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CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB
WITHIN 5% OF	ARDS USED ARE ALSO TRACEAR	OAD AND WITHIN 10% OF AND 2,000 LB	A TEST LOAD BETWEEN
STANDARDS CALIBR	RATION DATE:	11/23/2017	
FLORIDA STATE CER	RTIFICATION NO.:	137	

CARDINAL • DETECTO





Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: September 27, 2019

Job Order # 19R645

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Studio 18

1101 Poinciana Drive (base sheet) Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 09/26/2019 our field representative visited the referenced site and conducted thirteen (13) field withdrawal resistance tests on the OMG 1.8" Twin-Lock base sheet fasteners into the lightweight insulating concrete (LWIC). All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following: Field Withdrawal Resistance Test Results Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

General Information:

	Job Name:	Studio 18	
	Job Address:	1101 Poin	ciana Drive (base sheet)
		Pembroke	Pines, FL 33024
	Contact Individuat jobsite (if an		Desharnais
Testin	g Agency / Equ	ıipment In	formation:
Note:			edges that all testing has been conducted and results have ace with Florida Building Code Test Protocol TAS-105
	Testing Agenc	y Name:	Federal Engineering & Testing Inc.
	Company Add	ress:	3370 NE 5th Avenue, Oakland Park, FL 33334
	Company Tele	phone:	(954) 784-2941
	Company Fax:		(954) 784-7875
	Representative	Name:	Mr. Keith LeBlanc P.E.
	Representative	Title:	Professional Engineer
	Signature:		Kult Les la
			ne del
	Testing Appara	atus:	Comten Industries Fastener Tester Model DFG2W2000

Building / Roof System Information:	Area Number:	l	
	Roof Area Height	19	ft.
	Roof Area Length	140	ft.
	Second Largest Dimension	60	ft.
	Total Roof Area	8400	ft²
		84	sq
	Perimeter Area(See RAS 117)	2256	ft²
Building / Roof System Information:	Area Number:		<u> </u>
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension	<u>.</u>	ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area (See RAS 117)		<u> </u>
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area		ft²

(See RAS 117)



Field Withdrawal Resistance Recording Sheet

☐ Me ☐ And ☐ Wo ☐ Me	ulation embrane chor or Baseshe oodblocking stal Profiles sistance Verific	ation Only	Area Number (Refer to deck dimenser Fastener Type: Fastener Manuf Predrilled: Yes If Yes, Drill Bit Hole Depth:	1.8" Twin- 1.8" Twin- Facturer: OM Solution No value Size: N/A	Lock IG
Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area	Transplacification of providers are a construction of the	Initial Failure Load (lbf)	Roof Area
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2	284	С	27		
3	203	С	28		
4	164	C	29	···	
5	220	P	30		
6	243	P	31		
7	226	P	32		
8	209	P	33		
9	209	F	34		-"
10	221	F	35		
11	279	F	36		
12	283	F	37		
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^{*} See Section 8 of Test Protocol TAS 105

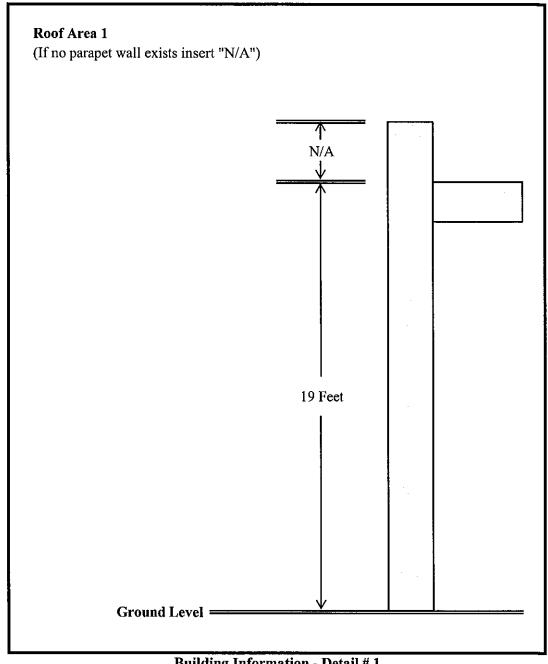
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)



Mean Failure Load	F=	228.46	lbf
Sample Standard Deviation	Sf=	35.62	lbf
Minimum Characteristic Resistance Force	F'=	215.45	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.



Building Information - Detail #1

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CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB

THIS DOCUMENT CERTIFIES THAT THE ABOVE INSTRUMENT HAS BEEN TESTED AND FOUND TO BE WITHIN 5% OF THE FIRST 500 LB. OF A TEST LOAD AND WITHIN 10% OF A TEST LOAD BETWEEN 501 LB AND 2,000 LB

THE STANDARDS USED ARE ALSO TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).

11/23/2017
137







Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: October 4, 2019

Job Order # 19R652

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Bright Beginnings 901 NW 129th Ave Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 10/03/2019 our field representative visited the referenced site and conducted ten (10) field withdrawal resistance tests on the Drill Tech #14 screw fasteners into the steel roof deck. All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following: Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

General Information:

	Job Name:	Bright Beg	ginnings						
	Job Address:	901 NW 1	29th Ave						
		Pembroke	Pines, FL 33024						
	Contact Indivi at jobsite (if a		Desharnais						
Testin	g Agency / Equ	uipment In	formation:						
Note:	The undersigned acknowledges that all testing has been conducted and results have been reported in compliance with Florida Building Code Test Protocol TAS-105								
	Testing Agend	y Name:	Federal Engineering & Testing Inc.						
	Company Add	lress:	3370 NE 5th Avenue, Oakland Park, FL 33334						
	Company Tele	ephone:	(954) 784-2941						
	Company Fax	:	(954) 784-7875						
	Representative	e Name:	Mr. Keith LeBlanc P.E.						
	Representative	e Title:	Professional Engineer	4					
	Signature:		Kuth Le D.						
			15/4/19						
	Testing Appar	atus:	Comten Industries Fastener Tester Model DFG2W2000	P. C.					

Gederal
Gngineering
& Gesting, Inc.

Building / Root System Information:	Area Number:	1	
	Roof Area Height	20	ft.
	Roof Area Length	120	ft.
	Second Largest Dimension	113	ft.
	Total Roof Area	11936	ft²
	_	119	sq.
	Perimeter Area	3216	ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
	_		sq.
	Perimeter Area		ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length_		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area		ft²

(See RAS 117)



Field Withdrawal Resistance Recording Sheet

☐ Me ☐ And ☐ Wo ☐ Me	ulation mbrane chor or Baseshe odblocking tal Profiles sistance Verific	ation Only	drill is high	Area Number 1 (Refer to deck dimensions on Page No. 2) Fastener Type: #14 Screw Fastener Manufacturer: Drill Tech Predrilled: Yes No If Yes, Drill Bit Size: N/A "diameter Hole Depth: N/A						
Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area	(3) (4) (4)	Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area				
1	420	С		26						
2	369	С	-	27						
3	439	С	ĺľ	28						
4	530	C	1 [29						
5	592	P		30	,					
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* See Section 8 of Test Protocol TAS 105

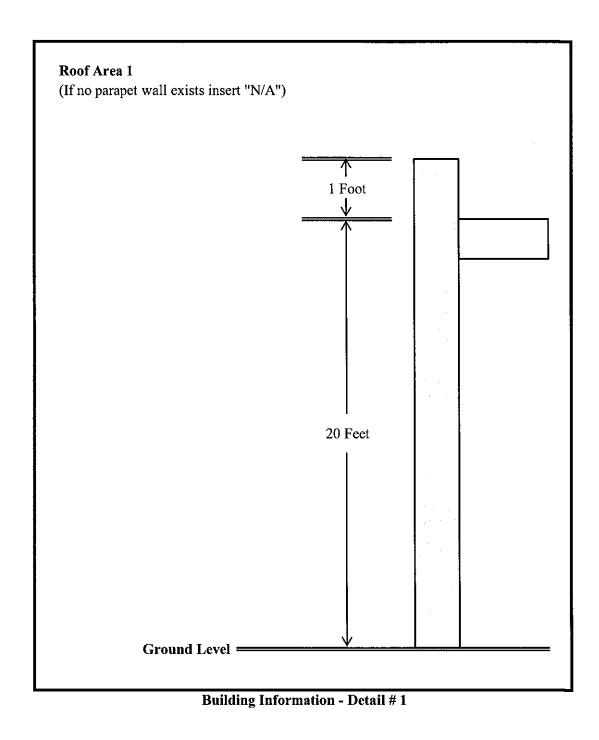
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)

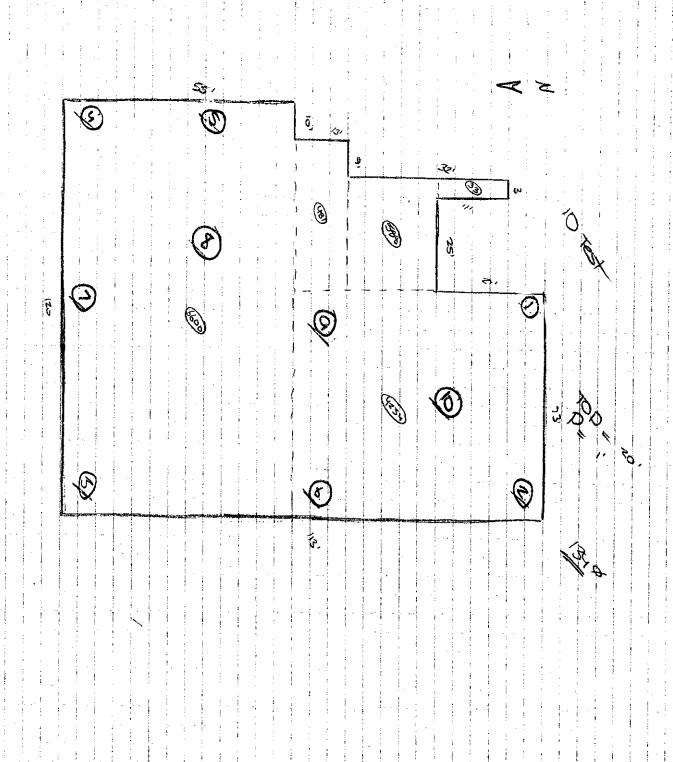


Mean Failure Load	F=	473.50	lbf
Sample Standard Deviation	Sf=	62.91	lbf
Minimum Characteristic Resistance Force	F'=	455.58	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.







F	r	C	0	lı	u	CI	ts	(S	9	Se	ol	u	t	ic)1	n.	S.	f	o	r	t	b	e	1	V	e	įį	gi	b	i	n	g	1	n	c	lı	is	it	r	V
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CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050							
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19							
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019							
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT							
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB							
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB							
THIS DOCUMENT CERTIFIES THAT THE ABOVE INSTRUMENT HAS BEEN TESTED AND FOUND TO BE WITHIN 5% OF THE FIRST 500 LB. OF A TEST LOAD AND WITHIN 10% OF A TEST LOAD BETWEEN 501 LB AND 2,000 LB THE STANDARDS USED ARE ALSO TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).										
STANDARDS CALIBR	RATION DATE:	11/23/2017								
FLORIDA STATE CER	RTIFICATION NO.:	137								

CARDINAL • DETECTO





Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: October 4, 2019

Job Order # 19R652

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

Bright Beginnings 901 NW 129th Ave Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 10/03/2019 our field representative visited the referenced site and conducted ten (10) field withdrawal resistance tests on the Drill Tech #14 screw fasteners into the steel roof deck. All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following:

Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

General Information:

Job Name:	Bright Beg	ginnings						
Job Address:	901 NW 1	29th Ave						
	Pembroke	e Pines, FL 33024						
		Desharnais						
g Agency / Equ	uipment In	formation:						
The undersigned acknowledges that all testing has been conducted and results have been reported in compliance with Florida Building Code Test Protocol TAS-105								
Testing Agend	cy Name:	Federal Engineering & Testing Inc.						
Company Add	dress:	3370 NE 5th Avenue, Oakland Park, FL 33334						
Company Tele	ephone:	(954) 784-2941						
Company Fax	:	(954) 784-7875						
Representative	e Name:	Mr. Keith LeBlanc P.E.						
Representative	e Title:	Professional Engineer						
Signature:		Kertt Le D						
		10/4/15						
Testing Appar	ratus:	Comten Industries Fastener Tester Model DFG2W2000						
	Contact Individual jobsite (if a state of a	Job Address: 901 NW 1 Pembroke Contact Individual at jobsite (if any) Matt I Graph Agency / Equipment In The undersigned acknowless been reported in compliant Testing Agency Name: Company Address: Company Telephone: Company Fax: Representative Name: Representative Title:						



Area Number:	ı	<u></u>
Roof Area Height	20	ft.
Roof Area Length	120	ft.
Second Largest Dimension	113	ft.
Total Roof Area	11936	ft²
_	119	sq.
Perimeter Area	3216	ft²
Area Number:		
Roof Area Height		ft.
Roof Area Length		ft.
Second Largest Dimension		ft.
Total Roof Area		ft²
		sq.
Perimeter Area(See RAS 117)		ft²
Area Number:		
Roof Area Height		ft.
Roof Area Length		ft.
Second Largest Dimension		ft.
Total Roof Area		ft²
<u></u>		sq.
Perimeter Area		ft²
	Roof Area Height Roof Area Length Second Largest Dimension Total Roof Area Perimeter Area (See RAS 117) Area Number: Roof Area Length Second Largest Dimension Total Roof Area Perimeter Area (See RAS 117) Area Number: Roof Area Height Roof Area Height Second Largest Dimension Total Roof Area Length Second Largest Dimension	Roof Area Height

(See RAS 117)



Field Withdrawal Resistance Recording Sheet

☐ Me ☐ And ☐ Wo ☐ Me	ulation mbrane chor or Baseshe oodblocking tal Profiles sistance Verific	ation Only	(Refer to Fasten Fasten Predri If Yes Hole I	Area Number 1 (Refer to deck dimensions on Page No. 2) Fastener Type: #14 Screw Fastener Manufacturer: Drill Tech Predrilled: Yes No If Yes, Drill Bit Size: N/A "diameter Hole Depth: N/A rill is high tolerance include range in 1/1000" tolerance)						
Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area	Sample d Identi		Initial Failure Load (lbf)	Roof Area				
1	420	С	26	5						
2	369	С	27	7						
3	439	С	28	3						
4	530	С	29)						
5	592	P	30)						
6	470	P	31							
7	439	P	32	2						
8	520	F	33	3						
9	479	F	34	1						
10	477	F	35	5						
11		ii ii	36	5						
12			37	7						
13			38	3						
14			39)						
15			40)						
16			41	1						
17			42	2						
18			43	3						
19			44	4						
20			45	5						
21			40	5						
22			47	7						
23			48	3						
24			49	9						
25			5()						
Is the f If yes, Speed	= =	riller? ✓ Yestool used for fastendiable rpm's		Cordle	ss Drill					

^{*} See Section 8 of Test Protocol TAS 105

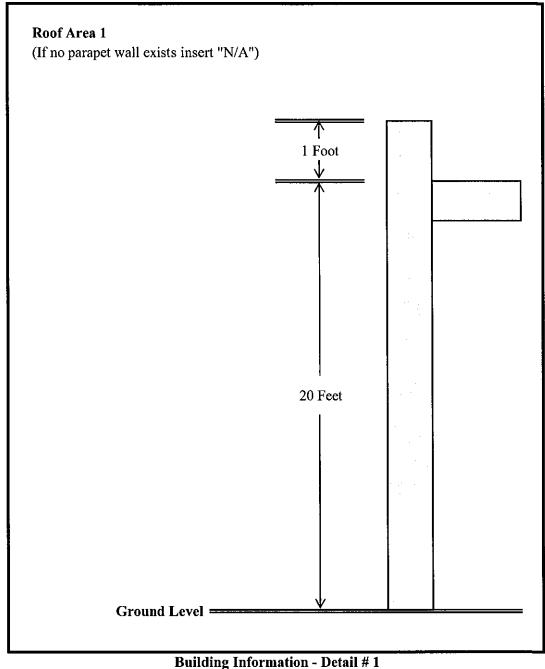
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)

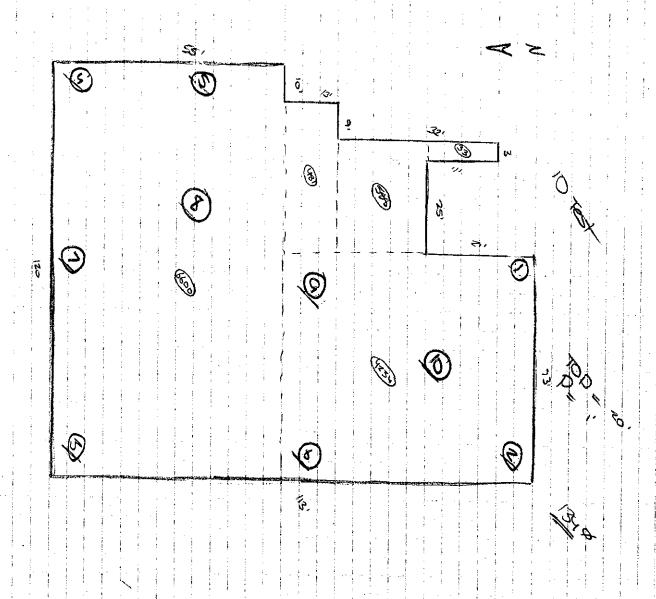


Mean Failure Load	F=	473.50	lbf
Sample Standard Deviation	Sf=	62.91	lbf
Minimum Characteristic Resistance Force	F'=	455.58	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.





NTS - Job Address - City, State



Products & Solutions for the Weighing Industry
Miami Branch Office • Sales, Service, Rentals

CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050		
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19		
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019		
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT		
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB		
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB		
THIS DOCUMENT CERTIFIES THAT THE ABOVE INSTRUMENT HAS BEEN TESTED AND FOUND TO BE WITHIN 5% OF THE FIRST 500 LB. OF A TEST LOAD AND WITHIN 10% OF A TEST LOAD BETWEEN 501 LB AND 2,000 LB THE STANDARDS USED ARE ALSO TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).					
STANDARDS CALIBRATION DATE: 11/23/2017					
FLORIDA STATE CERTIFICATION NO.: 137					

CARDINAL • DETECTO





Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: October 3, 2019

Job Order # 19R651

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

FSU Charter School 601 SW 172nd Ave Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 10/02/2019 our field representative visited the referenced site and conducted sixteen (16) field withdrawal resistance tests on the Mule-Hide #14 screw fasteners into the steel roof deck. All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following: Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

Gener	al Information	n:		
	Job Name: FSU Charter School			
	Job Address: 601 SW 172nd Ave			
Pembroke Pines, FL 33024 Contact Individual at jobsite (if any) Matt Desharnais			Pines, FL 33024	
			Desharnais	
Testin	g Agency / Eq	uipment Ir	nformation:	
Note:	The undersigned acknowledges that all testing has been conducted and results have been reported in compliance with Florida Building Code Test Protocol TAS-105			
	Testing Agend	cy Name:	Federal Engineering & Testing Inc.	
	Company Add	dress:	3370 NE 5th Avenue, Oakland Park, FL 33334	
	Company Tele	ephone:	(954) 784-2941	
	Company Fax	:	(954) 784-7875	
	Representativ	e Name:	Mr. Keith LeBlanc P.E.	
	Representative	e Title:	Professional Engineer	
	Signature:		Kutt Sel C.	
	Testing Appar	ratus:	Comten Industries Fastener Tester Model DFG2W2000	

Pederal
Ingineering
Sesting, Inc.

Building / Root System Information:	Area Number:	l	
	Roof Area Height	30	ft.
	Roof Area Length	253	ft.
	Second Largest Dimension	66	ft.
	Total Roof Area	17274	ft²
		173	sq.
	Perimeter Area(See RAS 117)	4704	ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area(See RAS 117)	· · · · · · · · · · · · · · · · · · ·	ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area (See RAS 117)		ft²



Field Withdrawal Resistance Recording Sheet

Component to be secured: Insulation Membrane Anchor or Basesheet Woodblocking Metal Profiles Resistance Verification Only				Area Number (Refer to deck dimer Fastener Type: Fastener Manu Predrilled: Ye If Yes, Drill Bi Hole Depth:	#14 Screws facturer: Mu s No it Size: N/A N/A	le-Hide
Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area		Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area
1	429	С	Ī	26		
2	563	С		27		
3	609	С		28		
4	510	С		29		
5	496	С	ſ	30		
6	360	С		31		
7	582	P		32		
8	520	P	ĺ	33		
9	512	P		34		
10	498	P		35		
11	726	P	<u> </u>	36		
12	605	F		37		
13	598	F		38		
14	469	F		39		
15	467	F		40		
16	571	F		41		
17	-			42		
18				43		
19				44		
20				45	-	
21				46		
22				47		
23				48		
24				49		
25		·-		50		
Is the far If yes, I Speed o	allation Information Informati	riller?		☐ No ation: <u>Cordles</u>	ss Drill	

^{*} See Section 8 of Test Protocol TAS 105

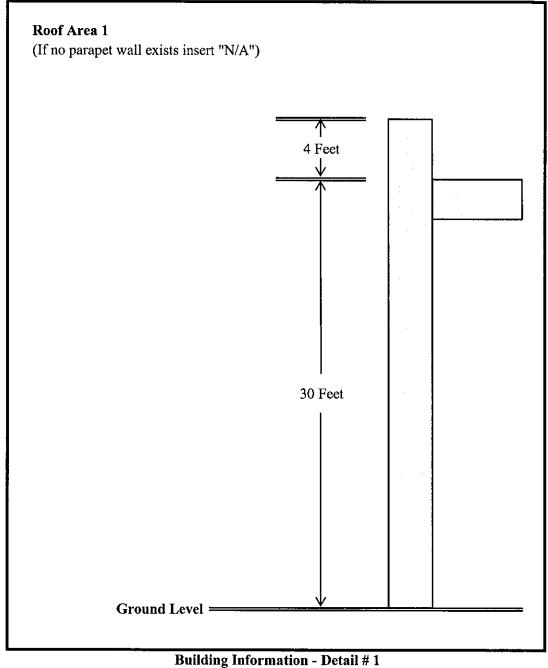
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)



Mean Failure Load	F=	532.19	lbf
Sample Standard Deviation	Sf=	85.67	lbf
Minimum Characteristic Resistance Force	F'=	512.47	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.







	& Solutions for		
Miami Br	ranch Office • \$	Sales, Service	, Rentals

CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050	
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19	
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019	
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT	
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB	
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB	
THIS DOCUMENT CERTIFIES THAT THE ABOVE INSTRUMENT HAS BEEN TESTED AND FOUND TO BE WITHIN 5% OF THE FIRST 500 LB. OF A TEST LOAD AND WITHIN 10% OF A TEST LOAD BETWEEN 501 LB AND 2,000 LB				
THE STANDARDS USED ARE ALSO TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).				
STANDARDS CALIBR	ATION DATE:	11/23/2017		
FLORIDA STATE CER	RTIFICATION NO.:	137		

CARDINAL • DETECTO





Phone: 954-784-2941 E-Fax: 954-784-7875 admin@fed-eng.com www.fed-eng.com

Environmental | Geotechnical | Materials Testing | Roof Testing | Inspections | GPR

Dated: October 3, 2019

Job Order # 19R651

City of Pembroke Pines

8300 South Palm Drive Pembroke Pines, FL 33024 Attn: Matt Desharnais

RE:

Field Withdrawal Resistance Test

FSU Charter School 601 SW 172nd Ave Pembroke Pines, FL 33024

Dear: Sirs:

Pursuant to your request, Federal Engineering & Testing, Inc. (FE&T) has performed a field withdrawal resistance test in compliance with Testing Application Standard TAS-105 and the Florida Building Code High Velocity Hurricane Zone at the above referenced site. The purpose of our test was to determine the uplift capacity of the mechanical fasteners at the above referenced project. FE&T is a Miami Dade Certified Testing Laboratory (Certification #18-1105.02).

On 10/02/2019 our field representative visited the referenced site and conducted sixteen (16) field withdrawal resistance tests on the Mule-Hide #14 screw fasteners into the steel roof deck. All tests were found in compliance with the Florida Building Code and TAS-105. See attached copies of TAS-105 forms with test results.

The test results presented reflect the condition of the roof system at the time of the test. These results are time and sample dependent since roof conditions are continuously changing due to exposure to the elements. All tests were conducted according to the Florida Building Code Test Protocol TAS-105 using a calibrated Comten Industries Fastener Tester Model No.DFG 2W2000 (see attached calibration).

FE&T is an independent third party providing un-biased testing information and results. FE&T is not affiliated with our client nor do we have any financial interest in the project or determination of the test results.

Federal Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,

Keith LeBlanc, P.E.

Federal Engineering and Testing, Inc.

Florida Reg. Number 59394

Certificate of Authorization # 5471

Miami-Dade County Certification # 18-1105.02

Attachments include the following: Field Withdrawal Resistance Test Results

Field Sketch

Comten Calibration



Florida Building Code Test Protocol TAS-105 Building Code Compliance Office

Testing Application Standard TAS 105-11

Field Withdrawal Resistance Test Results

General Information:				
	Job Name: FSU Charter School			
	Job Address:	ress: 601 SW 172nd Ave		
		Pembroke Pines, FL 33024		
	Contact Individual at jobsite (if any) Matt Desharnais			
Testin	g Agency / Equ	uipment In	formation:	
Note: The undersigned acknowledges that all testing has been cobeen reported in compliance with Florida Building Code?				
	Testing Agence	cy Name:	Federal Engineering & Testing Inc.	
	Company Add	dress:	3370 NE 5th Avenue, Oakland Park, FL 33334	
	Company Tele	ephone:	(954) 784-2941	
	Company Fax	:	(954) 784-7875	
	Representative	e Name:	Mr. Keith LeBlanc P.E.	
	Representative	e Title:	Professional Engineer	
	Signature:		Latt Les L	
			10/3/19	
	Testing Appar	ratus:	Comten Industries Fastener Tester Model DFG2W2000	

Building / Roof System Information:	Area Number:	1	
	Roof Area Height	30	ft.
	Roof Area Length	253	ft.
	Second Largest Dimension	66	ft.
	Total Roof Area	17274	ft²
		173	sq.
	Perimeter Area (See RAS 117)	4704	ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area		ft²
Building / Roof System Information:	Area Number:		
	Roof Area Height		ft.
	Roof Area Length		ft.
	Second Largest Dimension		ft.
	Total Roof Area		ft²
			sq.
	Perimeter Area		ft²

(See RAS 117)



Field Withdrawal Resistance Recording Sheet

				5		
Component to				Area Number	1	····
☐ Inst	ulation			(Refer to deck dimer	sions on Page No. 2))
☐ Me	mbrane			Fastener Type:		3
☐ And	chor or Baseshe	eet		Fastener Manu		le-Hide
□ Wo	odblocking			Predrilled: Ye	s 🗌 No 🖸	
☐ Me	tal Profiles			If Yes, Drill Bi	t Size: N/A	"diameter
☑ Res	sistance Verifica	ation Only		Hole Depth:	N/A	
	Can Continu 0 to date	ermine number of tests (If	deill is bish	talaranaa inaluda ranga i	n 1/1000" tolerance)	
Sample & Plan Identifier	Initial Failure Löåd (lbf)	Roof Area		Sample & Plan Identifier	Initial Failure Load (lbf)	Roof Area
1	429	С	i i	26		
2	563	С		27		
3	609	С	l t	28		
4	510	C		29		
5	496	C	ĺ	30		
6	360	С	1 1	31		
7	582	P	i i	32		
8	520	P	1 1	33		
9	512	P	1 1	34		
10	498	P	1 1	35		
11	726	P	1 1	36		
12	605	F	1 1	37		
13	598	F] [38		
14	469	F		39		
15	467	F	1 [40		
16	571	F] [41		
17] [42		
18] [43		
19] [44		
20				45		
21] [46		
22] [47		
23	•			48		
24				49		
25]	50		
Is the f If yes, Speed	allation Inform Fastener a self destriction list the type of tool: Var er of tests condu	riller? ✓ Ye tool used for fasten iable rpm's		□ No lation: <u>Cordle</u>	ss Drill	

* See Section 8 of Test Protocol TAS 105

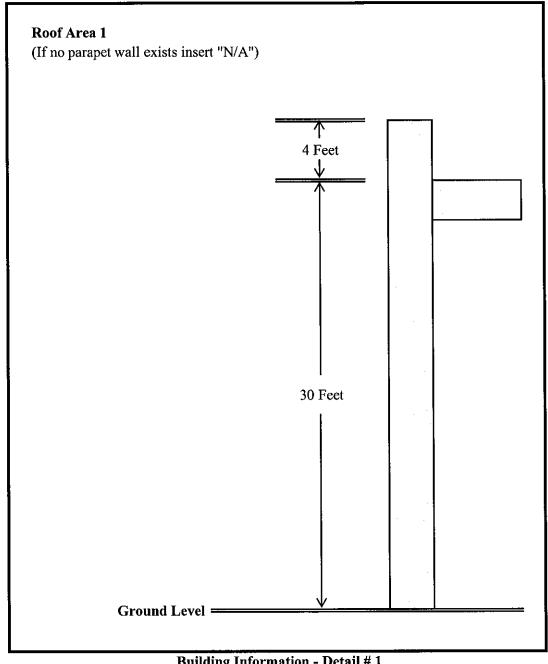
^{*} Note the locations of all tests on "Building Information" Detail #1, attached)



Mean Failure Load	F=	532.19	lbf
Sample Standard Deviation	Sf=	85.67	lbf
Minimum Characteristic Resistance Force	F'=	512.47	lbf

Notes:

- 1) Use of the results herein to determine the required number of fasteners for insulation attachment or an acceptable anchor or base sheet fastener spacing, as outlined in RAS 117, shall utilize the minimum characteristic resistance force (F'), determined in compliance with Section 9 of TAS 105. No margin of safety shall be applied to field withdrawal resistance test results determined in compliance with TAS 105.
- 2) A safety factor of 2 to 1 shall be applied to all results of laboratory testing.
- 3) The following pages shall be completed for each roof area and included with all Field Withdrawal Resistance Test Recording Sheets.



Building Information - Detail #1





Products	s & Solutions	for the	Weighing	Industry
		• • • • • •		
Miami Br	ranch Office	 Sales 	s, Service	, Rentals

CERTIFICATE OF CALIBRATION

OWNER OF ITEM:	FEDERAL ENGINEERING	REPORT NO.:	34050
SCALE TYPE:	PUSH/PULL TESTER	CALIBRATION DATE:	08/28/19
MANUFACTURER:	COMTEN / ASHCROFT	RECALIBRATION DUE:	NOVEMBER 2019
MODEL NUMBER:	DFG2W2000	TECHNICIAN:	SCOTT
SERIAL NUMBER:	2140844 / WT #1	CAPACITY:	2,000 LB
PROCEDURE USED:	TEST WEIGHT	DIVISIONS:	.1 LB
WITHIN 5% OF	ARDS USED ARE ALSO TRACEA	OAD AND WITHIN 10% OF AND 2,000 LB	A TEST LOAD BETWEEN
STANDARDS CALIBI	RATION DATE:	11/23/2017	
FLORIDA STATE CEI	RTIFICATION NO.:	137	

CARDINAL • DETECTO





DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

CertainTeed Corporation 20 Moores Road Malvern, PA 19355

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: CertainTeed Conventional Built-Up-Roof System over Lightweight Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

Steries

This NOA renews and revises NOA No. 13-0204.08 and consists of pages 1 through 10. The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY
APPROVED

NOA No.: 16-0322.19 Expiration Date: 04/28/18 Approval Date: 02/01/18

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ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Built-Up Roofing

Material: Fiberglass

Deck Type: Lightweight Concrete

Maximum Design Pressure: -52.5 psf

TRADE Names of Products Manufactured or Labeled by Applicant:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Flintglas Ply 4	36" x 164'7"; Roll weight: 40/55 lbs. (5 squares)		Fiberglass, asphalt impregnated ply sheet.
Flintglas Premium Ply 6	39 ³ / ₈ " x 164'7"; Roll weight: 40 lbs. (5 squares)	ASTM D2178, Type VI UL Type G1	Fiberglass, asphalt impregnated ply sheet.
Flintglas® MS Cap CoolStar	36" X 32'10"; Roll Weight: 78 lbs. (1 square)	ASTM D3909 UL Type G3	Asphalt impregnated and coated inorganic glass fiber surfaced with mineral granules used as the top ply in conventional built-up roof membranes. Covered with reflective CoolStar Coating.
Flintglas® MS Cap Sheet	36" X 32'10"; Roll Weight: 78 lbs. (1 square)	ASTM D3909 UL Type G3	Asphalt impregnated and coated inorganic glass fiber surfaced with mineral granules used as the top ply in conventional built-up roof membranes.
All Weather/Empire Base Sheet	36" x 65'10"; Roll weight: 86 lbs. (2 squares)	ASTM D4601 Type II	SBS modified, fiberglass reinforced base/ply sheet.
Flexiglas Base Sheet	36" x 98'9"; Roll weight: 90 lbs. (3 squares)	ASTM D4601 Type II	SBS modified, fiberglass reinforced base/ply sheet.
Flintlastic Poly SMS Base Sheet	39 ³ / ₈ " x 64' 4"; Roll weight: 90 lbs. (2 squares)	ASTM D4601 Type II	SBS modified, polyester reinforced base/ply sheet.
Glasbase Base Sheet	36" x 98'9"; Roll weight: 69 lbs. (3 squares)	ASTM D4601 Type II	Asphalt coated, fiberglass reinforced base/ply sheet.
Flintlastic Base 20	36" x 98'9"; Roll weight: 90 lbs. (3 squares)	ASTM D6163 Grade S Type I	SBS modified, fiberglass reinforced base/ply sheet.



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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	<u>Dimensions</u>	Test <u>Specification</u>	Product <u>Description</u>
Flintlastic Ultra Poly SMS Base Sheet	39 ³ / ₈ " x 32'10"	ASTM D6164 Grade S Type I	SBS modified, polyester reinforced base/ply sheet.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	<u>Manufacturer</u> (With Current NOA)
FlintBoard ISO	Polyisocyanurate foam insulation	CertainTeed Corporation
FlintBoard _H ISO	Polyisocyanurate foam insulation	CertainTeed Corporation
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC.
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
Ultra-Max	Polyisocyanurate roof insulation	RMax Operating, LLC.
Structodek High Density Fiberboard Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board	GAF
Fesco Board	Expanded perlite and fiber insulation	Johns Manville Corp.

APPROVED FASTENERS:

TABLE 3

<u>Fastener</u> <u>Number</u>	<u>Product</u> <u>Name</u>	<u>Product</u> <u>Description</u>	Dimensions	Manufacturer (With Current NOA)
1.	Trufast FM-90 Base Sheet Fastener	Base ply fastening systems for lightweight concrete decks.	2.7" x 1.7"	Altenloh, Brinck & Co. U.S., Inc.
2.	CR Assembled Base Sheet Fastener (1.7")	Fastener assembly for Base Sheet fastening only	1.125" x 1.75" 2.75" Galvalume steel stress plate	OMG, Inc.



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EVIDENCE SUBMITTED:

Test Agency/Identifier	<u>Name</u>	Report	<u>Date</u>
Trinity ERD	TAS 117 (B)	3503.10.06	10/10/06
• •	TAS 117 (B)	O6490.04.07-R1	06/27/07
	TAS 117 (B)/ ASTM D6862	C8500SC.11.07	11/30/07
	TAS 114	C8370.08.08	08/19/08
	ASTM Physical Properties	C10080.09.08-R4	03/25/10
	ASTM D4601	C40050.09.12-1	09/28/12
	ASTM D3909	C44200.03.13	03/22/13
	ASTM D2178	C47250.03.14	03/26/14
	ASTM D1876	C35460.05.11-R1	05/20/15
	ASTM D3909	CTR-SC11145.09.16-	09/19/16
		2A	
	ASTM D4601	CTR-SC11145.09.16-	09/19/16
		3A	
Factory Mutual Research Corp.	FMRC 4470	J.I. #3Y8A1.AM	03/23/96
	FMRC 4454	J.I. 0D3A3.AM	04/04/97
	FMRC 4470	J.I. 1D7A4.AM	11/09/98
	FMRC 4470	J.I. 2D0A0.AM	12/23/98
Underwriters Laboratories, Inc.	UL 790	R11656	01/11/13
PRI Construction Materials	ASTM D6163	CTC-066-02-01	08/09/11
Technologies LLC	ASTM D2178	CTC-123-02-01	03/13/12
-	ASTM D4601	CTC-124-02-01	03/13/12
	ASTM D4601	CTC-127-02-01	03/13/12
Underwriters Laboratories, Inc. PRI Construction Materials	ASTM D4601 FMRC 4470 FMRC 4470 FMRC 4470 FMRC 4470 UL 790 ASTM D6163 ASTM D2178 ASTM D4601	2A CTR-SC11145.09.16- 3A J.I. #3Y8A1.AM J.I. 0D3A3.AM J.I. 1D7A4.AM J.I. 2D0A0.AM R11656 CTC-066-02-01 CTC-123-02-01 CTC-124-02-01	09/19/16 03/23/96 04/04/97 11/09/98 12/23/98 01/11/13 08/09/11 03/13/12 03/13/12



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Base Insulation Layer	Insulation Fasteners	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, ENRGY 3, Ultra-Max, H-Shield Minimum 1" thick	N/A	N/A
Structodek High Density Fiberboard Insulation Minimum ½" thick	N/A	N/A
Fesco Board or EnergyGuard TM Perlite Roof Insulation Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A
(Optional) Top Insulation Layer	Insulation Fasteners	<u>Fastener</u> <u>Density/ft²</u>

Any Insulation listed for Base Layer, above.

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional)

Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at an application rate of 20-35 lbs./sq.

Ply Sheet:

One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

Cap Sheet: (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Flood coat of hot asphalt with an application rate of 60 lbs./sq. \pm 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design

Pressure:

See fastening requirements above



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APPROVED ASSEMBLIES

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Concrecel, Mearlcrete or Elastizell Cellular Lightweight Concrete over structural concrete.

(Deck System Limitations Apply.)

System Type A: Anchor sheet mechanically fastened, one or more layer of insulation adhered with approved

asphalt.

All General and System limitations apply.

LWC Deck: Minimum 160 psi, Elastizell Lightweight Insulating Concrete is applied with an 1/8" slurry

coat followed by a 2" Star-R-Foam Gripper-HB or 1/12" Apache Holey Board. Apply a

minimum 2" thick top coat of Elastizell Lightweight Insulating concrete.

Or

Minimum 200 psi, Mearlcrete is applied with an 1/8" slurry coat followed by minimum 1-½" thick Holey Board or EPS Insulation. Followed by a minimum 2" thick top coat of

Mearlcrete or Elastizell is placed over the insulation

Or

Minimum 400 psi, Concrecel Bonding agent applied to the deck at rate 600 ft²/gal. followed by a slurry-coat of insulating concrete ¼" thick above the top flange followed by a minimum 1" think holey board and allowed to cure overnight. The following day a minimum 2 ¼" top coat Concrecel Concrete is placed. After an additional cure time of 24 hours, Concrecel

Curing Compound was roller applied at a rate of 600 ft²/gal.

Base Sheet Options: (Elastizell; Option #1) One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet,

Flintastic Base 20 or Flintlastic Poly SMS Base Sheet mechanically attached to the deck using Trufast FM-90 Base Sheet Fastener spaced 7" o.c. in the 4" side lap and 7" o.c. in two

evenly divided, staggered rows in the center of the sheet.

(Maximum Design Pressure -45 psf, See General Limitation #7.)

(Concrecel or Mearlcrete; Option #2.) One ply of All Weather/Empire Base Sheet or Glasbase Base Sheet mechanically attached to the deck using OMG CR Assembled Base Sheet Fastener (1.7") spaced 7" o.c. in the 4" side lap and 7" o.c. in two evenly divided,

staggered rows in the center of the sheet.

(Maximum Design Pressure -52.5 psf, See General Limitation #7.)

One or more layers of any of the following insulations:



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Deck Type 4: Lightweight Concrete, Non-Insulated

Deck Description: Concrecel, Mearlcrete or Elastizell Cellular Lightweight Concrete over structural concrete.

(Deck System Limitations Apply.)

System Type E: Base sheet mechanically fastened.

All General and System limitations apply.

LWC Deck: Minimum 160 psi, Elastizell Lightweight Insulating Concrete is applied with an 1/8" slurry

coat followed by a 2" Star-R-Foam Gripper-HB or 1/12" Apache Holey Board. Apply a

minimum 2" thick top coat of Elastizell Lightweight Insulating concrete.

Or

Minimum 200 psi, Mearlcrete is applied with an 1/8" slurry coat followed by minimum 1-1/2"

thick Holey Board or EPS Insulation. Followed by a minimum 2" thick top coat of

Mearlcrete or Elastizell is placed over the insulation

Or

Minimum 400 psi, Concrecel Bonding agent applied to the deck at rate 600 ft²/gal. followed by a slurry-coat of insulating concrete ¼" thick above the top flange followed by a minimum 1" think holey board and allowed to cure overnight. The following day a minimum 2 ¼" top coat Concrecel Concrete is placed. After an additional cure time of 24 hours, Concrecel

Curing Compound was roller applied at a rate of 600 ft²/gal.

Base Sheet Options: (Elastizell; Option #1) One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20 or Flintlastic Poly SMS Base Sheet mechanically attached to the deck using Trufast FM-90 Base Sheet Fastener spaced 7" o.c. in the 4" side lap and 7" o.c. in two

evenly divided, staggered rows in the center of the sheet.

(Maximum Design Pressure -45 psf, See General Limitation #7.)

(Concrecel or Mearlcrete; Option #2.) One ply of All Weather/Empire Base Sheet or Glasbase Base Sheet mechanically attached to the deck using OMG CR Assembled Base Sheet Fastener (1.7") spaced 7" o.c. in the 4" side lap and 7" o.c. in two evenly divided, staggered rows in

the center of the sheet.

(Maximum Design Pressure -52.5 psf, See General Limitation #7.)

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20,

Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a full mopping of approved

asphalt at an application rate of 20-35 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping

(**Optional**) of approved asphalt at an application rate of 20-35 lbs./sq.



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Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Flood coat of hot asphalt with an application rate of 60 lbs./sq. \pm 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design

Pressure:

See fastening requirements above



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LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

- If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field
 withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density.
 All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing
 Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect,
 or Registered Roof Consultant.
- 2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
- 3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.



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GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant
 - (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
 - (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 16-0322.19 Expiration Date: 04/28/18 Approval Date: 02/01/18

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Owens Corning Roofing and Asphalt, LLC One Owens Corning Parkway Toledo, OH 43659

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Duration®, Duration® Premium, TruDefinition® Duration®, and TruDefinition® Duration® Designer Colors Collection

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No.12-0309.01 and consists of pages 1 through 6. The submitted documentation was reviewed by Gaspar J Rodriguez.



NOA No.: 16-0425.01 Expiration Date: 07/19/21 Approval Date: 07/21/16

Page 1 of 6

ROOFING ASSEMBLY APPROVAL

Category:

Roofing

Sub-Category:

Asphalt Shingles

Materials:

Laminate

Deck Type:

Wood

SCOPE

This approves a roofing system using **Owens Corning Duration® and Duration® Premium** asphalt shingles manufactured by Owens Corning as described in Section 2 of his Notice of Acceptance.

PRODUCT DESCRIPTION

Product	Dimensions	Test Specifications	Product Description
Duration® Manufacturing Locations #1, 2	13 ¼" x 39 ³/ ₈ "	TAS 110	A heavy weight, fiberglass reinforced four tab asphalt shingle with continuous bead of sealant.
Duration® Premium; TruDefinition® Duration®; TruDefinition® Duration® Designer Colors Collection	13 ½" x 39 ³ / ₈ "	TAS 110	A heavy weight, fiberglass reinforced four tab asphalt shingle with large nail area with continuous bead of sealant.
Manufacturing Location #1, 2, 3, 4			
Duration® Manufacturing Location #1, 2, 3	13 ¼" x 39 ³ / ₈ "	TAS 110	A heavy weight, fiberglass reinforced four tab asphalt shingle with dashed bead of sealant.
Duration® Premium; TruDefinition® Duration®; TruDefinition® Duration® Designer Colors Collection	13 ¹ / ₄ " x 39 ³ / ₈ "	TAS 110	A heavy weight, fiberglass reinforced four tab asphalt shingle with dashed bead of sealant.

Manufacturing Location #1, 2, 3, 4

MANUFACTURING LOCATION

- 1. Jacksonville, FL
- 2. Memphis, TN
- 3. Savannah, GA
- 4. Irving, TX



NOA No.: 16-0425.01 Expiration Date: 07/19/21 Approval Date: 07/21/16

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EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Name/Report	<u>Date</u>
PRI Asphalt Technologies, Inc.	OCF-157-02-01	TAS 100	10/26/10
	OCF-102-02-01	TAS 100	11/12/07
	OCF-156-02-01	TAS 100	10/26/10
	OCF-163-02-01	TAS 100	12/10/10
	OCF-164-02-01	TAS 100	12/10/10
	OCF-098-02-01	TAS 100	02/22/07
	OCF-099-02-01	TAS 100	02/26/07
	OCF-102-02-01	TAS 100	11/12/07
	OCF-172-02-01	TAS 100	05/26/11
	OCF-179-02-01	TAS 100	02/02/12
Underwriters Laboratories, Inc.	07CA39536	TAS 107	11/11/07
	03NK04954	TAS 107	03/28/03
	03NK04954	TAS 107	03/11/03
	10NK13947	TAS 107	11/12/10
	11CA15662	TAS 107	05/27/11
	11NB21712	TAS 107	02/18/12
	07CA02026	ASTM D 3462	01/26/07
	12CA12180	ASTM D 3462	03/01/12

LIMITATIONS

- 1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Shall not be installed on roof mean heights in excess of 33 ft.
- 3. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

INSTALLATION

- 1. Shingles shall be installed in compliance with Roofing Application Standard RAS 115.
- 2. Flashing shall be in accordance with Roofing Application Standard RAS 115
- 3. The manufacturer shall provide clearly written application instructions.
- 4. Exposure and course layout shall be in compliance with Detail 'A', attached.
- 5. Nailing shall be in compliance with Detail 'B', attached.

LABELING

1. Shingles shall be labeled with the Miami-Dade Seal as seen below, or the wording "Miami-Dade County Product Control Approved".

MIAMI-DADE COUNTY
APPROVED



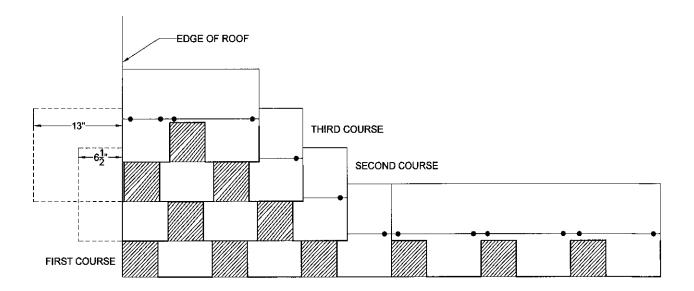
NOA No.: 16-0425.01 Expiration Date: 07/19/21 Approval Date: 07/21/16

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BUILDING PERMIT REQUIREMENTS

- 1. Application for building permit shall be accompanied by copies of the following:
 - 1.1 This Notice of Acceptance.
 - 1.2 Any other documents required by the Building Official or the applicable code in order to properly evaluate the installation of this system.

DETAIL A



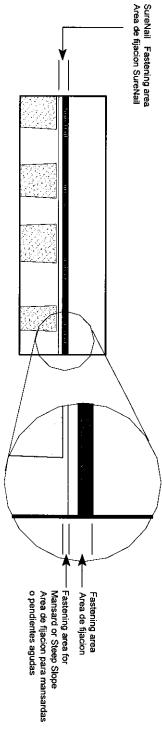


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DETAIL B
DURATION & TRUDEFINITION® DURATION®

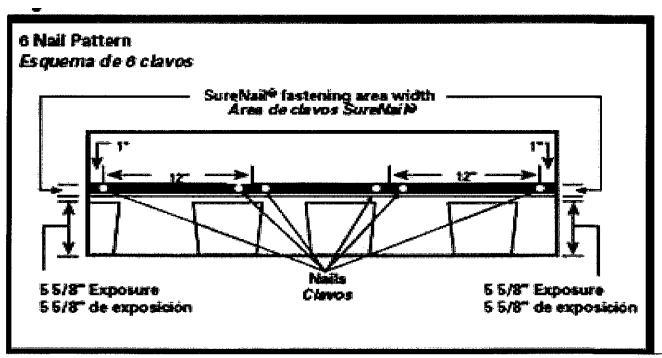
(SEALANT MAY BE CONTINUOUS OR DASHED. NOT SHOWN IN THE DETAIL DRAWINGS)



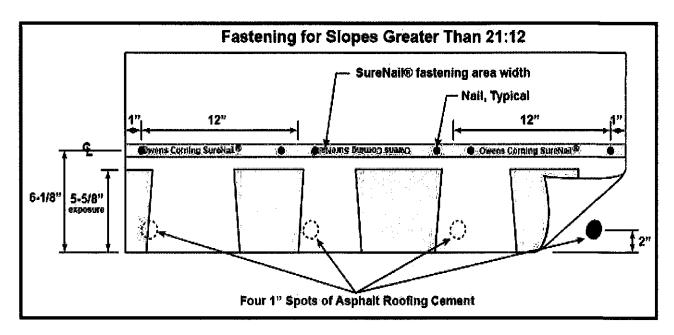


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MAXIMUM SLOPE 21:12



SLOPE GREATER THAN 21:12

END OF THIS ACCEPTANCE



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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

CertainTeed Corporation 20 Moores Road Malvern, PA 19355

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: CertainTeed Conventional Built-Up-Roof System over Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

Steries

This NOA renews NOA No. 16-0322.23 and consists of pages 1 through 23. The submitted documentation was reviewed by Alex Tigera.

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ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Built-Up Roofing

Material:FiberglassDeck Type:ConcreteMaximum Design Pressure:-355 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

		Test	Product
Product	<u>Dimensions</u>	Specification	<u>Description</u>
Black Diamond™ Base Sheet	36" x 68'7"; Roll weight: 78 lbs. (2 squares)	ASTM D 1970	Self-adhering fiberglass reinforced modified bitumen base sheet.
Flintlastic Ultra Glass SA	39 ³ / ₈ " x 33'11"	ASTM D 1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet.
Flintglas Ply 4	36" x 164'7"; Roll weight: 40/55 lbs. (5 squares)	ASTM D 2178 Type IV UL Type G1	Fiberglass, asphalt impregnated ply sheet.
Flintglas Premium Ply 6	39 ³ / ₈ " x 164'7"; Roll weight: 40 lbs. (5 squares)	ASTM D 2178, Type VI UL Type G1	Fiberglass, asphalt impregnated ply sheet.
Flintglas® MS Cap CoolStar	36" X 32'10"; Roll Weight: 78 lbs. (1 square)	ASTM D 3909 UL Type G3	Asphalt impregnated and coated inorganic glass fiber surfaced with mineral granules used as the top ply in conventional built-up roof membranes. Covered with reflective CoolStar Coating.
Flintglas® MS Cap Sheet	36" X 32'10"; Roll Weight: 78 lbs. (1 square)	ASTM D 3909 UL Type G3	Asphalt impregnated and coated inorganic glass fiber surfaced with mineral granules used as the top ply in conventional built-up roof membranes.
Yosemite® Venting Base Sheet	39 3/8" x 32'10"	ASTM D 3909 ASTM D 4897 UL Type G3	Mineral surfaced fiberglass reinforced buffer sheet.
All Weather/Empire Base Sheet	36" x 65'10"; Roll weight: 86 lbs. (2 squares)	ASTM D 4601 Type II	SBS modified, fiberglass reinforced base/ply sheet.
Flexiglas Base Sheet	36" x 98'9"; Roll weight: 90 lbs. (3 squares)	ASTM D 4601 Type II	SBS modified, fiberglass reinforced base/ply sheet.
Flintlastic Poly SMS Base Sheet	39 ³ / ₈ " x 64' 4"; Roll weight: 90 lbs. (2 squares)	ASTM D 4601 Type II	SBS modified, polyester reinforced base/ply sheet.



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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	<u>Dimensions</u>	Test Specification	Product <u>Description</u>
Glasbase Base Sheet	36" x 98'9"; Roll weight: 69 lbs. (3 squares)	ASTM D 4601 Type II	Asphalt coated, fiberglass base/ply sheet.
Flintlastic Base 20	36" x 98'9"; Roll weight: 90 lbs. (3 squares)	ASTM D 6163 Grade S Type I	SBS modified, fiberglass reinforced base/ply sheet.
Flintlastic Ultra Poly SMS Base Sheet	39 ³ / ₈ " x 32'10"	ASTM D6164 Grade S Type I	SBS modified, polyester reinforced base/ply sheet.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	<u>Manufacturer</u> (With Current NOA)
FlintBoard ISO	Polyisocyanurate foam insulation	CertainTeed Corp.
FlintBoard _H ISO	Polyisocyanurate foam insulation	CertainTeed Corp.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
Ultra-Max, Multi-Max FA-3	Polyisocyanurate roof insulation	RMax Operating, LLC.
Fesco Board	Expanded perlite and mineral fiber board	Johns Manville Corp.
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.



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APPROVED FASTENERS/ADHESIVES:

TABLE 3

<u>Fastener</u> <u>Number</u>	<u>Product</u> <u>Name</u>	<u>Product</u> <u>Description</u>	Dimensions	<u>Manufacturer</u> (With Current NOA)
1.	Dekfast DF-#14-PH3 & Deckfast DF-#15 PH3	Insulation fastener for wood, steel and concrete decks	Various	SFS Group USA
2.	Dekfast PLT-H-2-7/8	Galvalume AZ50 steel plate	2 ⁷ / ₈ " x 3 ½"	SFS Group USA
3.	Dekfast PLT-P-R-3	Polypropylene plate	3" x 3 1/4"	SFS Group USA
4.	#14 Roofgrip	Insulation fastener for concrete, steel or wood decks.	Various	OMG, Inc.
5.	3 in. Ribbed Galvalume Plate	Galvalume stress plate.	3" round	OMG, Inc.
6.	AccuTrac Plate	Galvalume stress plate.	3" square	OMG, Inc.
7.	CD-10	Insulation fastener for concrete decks.	Various	OMG, Inc.
8.	Fluted Nail	Insulation fastener	Various	OMG, Inc.
9.	OMG Plastic Plate	Polypropylene plastic plate	3" round	OMG, Inc.
10.	3 in. Round Metal Plate	Galvalume AZ50 steel plate	3" round	OMG, Inc.
11.	Trufast #14 HD Fastener	Insulation fastener for concrete decks	Various	Altenloh, Brinck & Co. U.S., Inc.
12.	Trufast 3" Metal Insulation Plate	Galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
13.	FlintFast #14	Insulation fastener for concrete decks	Various	CertainTeed Corp.
14.	FlintFast 3" Insulation Plate	Galvalume AZ50 steel plate	3" round	CertainTeed Corp.



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EVIDENCE SUBMITTED:

Test Agency/Identifier	<u>Name</u>	Report	<u>Date</u>
Trinity ERD	TAS 117 (B)	3503.10.06	10/10/06
	TAS 117 (B)	O6490.04.07-R1	06/27/07
	TAS 114	3521.07.04	10/26/07
	TAS 117 (B)/ ASTM D 6862	C8500SC.11.07	11/30/07
	TAS 114	C8370.08.08	08/19/08
	ASTM Physical Properties	C10080.09.08-R4	03/25/10
	TAS 117 (B)	C35500.02.11	02/09/11
	FM 4470 / TAS 114	3513.08.02-R1	03/17/11
	ASTM D4601	C40050.09.12-1	09/28/12
	ASTM D1970	C40050.09.12-2	09/28/12
	ASTM D3909	C44200.03.13	03/22/13
	ASTM D2178	C47250.03.14	03/26/14
	ASTM D1876, / TAS 114,	C45620.03.14	03/27/14
	/ FM 4474		
	ASTM D1876	C35460.05.11-R1	05/20/15
	ASTM D3909	CTR-SC11145.09.16-2A	09/19/16
	ASTM D3909	CTR-SC11145.09.16-2B	09/19/16
	ASTM D4601	CTR-SC11145.09.16-3A	09/19/16
	ASTM D4897	CTR-SC11145.09.16-4	09/19/16
Factory Mutual Research Corp.	FMRC 4470	J.I. #3Y8A1.AM	03/23/96
	FMRC 4454	J.I. 0D3A3.AM	04/04/97
	FMRC 4470	J.I. 2D0A0.AM	12/23/98
	FMRC 4470	J.I. 1D7A4.AM	11/09/98
Underwriters Laboratories, Inc.	UL 790	R11656	01/11/13
PRI Construction Materials			
Technologies LLC	ASTM D6163	CTC-066-02-01	08/09/11
-	ASTM D2178	CTC-123-02-01	03/13/12
	ASTM D4601	CTC-124-02-01	03/13/12
	ASTM D4601	CTC-127-02-01	03/13/12
	ASTM D6164	CTC-190-02-01	12/02/13
	ASTM D1970	CTC-199-02-01	01/22/14



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APPROVED ASSEMBLIES

Membrane Type:

BUR

Deck Type 3I:

Concrete Decks, Insulated

Deck Description:

2500 psi structural concrete or concrete plank

System Type A(1):

Anchor sheet (optional), base sheet and/or insulation adhered with approved asphalt

All General and System Limitations apply.

Anchor Sheet: (Optional)

One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20 or Glasbase Base Sheet in a spot mopping of approved asphalt, 12" diameter circles, 24" o.c. at a

rate of 12 lbs./sq. (See General Limitation #4)

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners	<u>Fastener</u>
	<u>Table 3</u>	Density/ft2
FlintBoard ISO, FlintBoard _H ISO, ACFoam-II, ENRGY 3, Ult	ra-Max, H-Shield	
Minimum 1" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum 1/2" thick	N/A	N/A
Fesco Board		
Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, (Optional) Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base

Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at

an application rate of 20-35 lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20,

Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a full mopping of approved

asphalt at an application rate of 20-35 lbs./sq.



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One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design Pressure:

-87.5 psf (See General Limitations # 9)



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Membrane Type: BUR

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(2):** Insulation adhered to deck with approved asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners Table 3	<u>Fastener</u> Density/ft²
FlintBoard ISO, FlintBoard _H ISO, ACFoam-II, ENRGY 3, Ultra-Minimum 1" thick	Max, H-Shield N/A	N/A
Top Insulation Layer	Insulation Fasteners Table 3	Fastener Density/ft²
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One or more plies of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base

Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the composite insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Ply Sheet: One or more plies of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base

Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the base sheet in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping

(Optional) of approved asphalt at an application rate of 20-35 lbs./sq.



NOA No.: 17-1003.13 Expiration Date: 05/19/23 Approval Date: 04/26/18 Page 8 of 23 Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design Pressure:

-227.5 psf (See General Limitations #9)



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Membrane Type: BUR

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type A(3):** Insulation adhered to deck with approved asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation LayerInsulation FastenersFastenerTable 3Density/ft²

FlintBoard ISO, FlintBoardH ISO, ACFoam-II, ENRGY 3, Ultra-Max, H-Shield

Minimum 1" thick N/A N/A

Top Insulation LayerInsulation FastenersFastenerTable 3Density/ft²

DensDeck, DensDeck Prime

Minimum ¼" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One or more plies of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base

Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the composite insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Ply Sheet: One or more plies of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base

Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate

of 20-35 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping

(Optional) of approved asphalt at an application rate of 20-35 lbs./sq.



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Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design Pressure:

-240 psf (See General Limitations #9)



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Membrane Type:

BUR

Deck Type 3I:

Concrete Decks, Insulated

Deck Description:

2500 psi structural concrete or concrete plank

System Type A(4):

Insulation adhered to deck with approved asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	<u>Insulation Fasteners</u>	<u>Fastener</u>
	Table 3	Density/ft ²
FlintBoard _H ISO, ENRGY-3, H-Shield		
Minimum 1.5" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet:

One or more plies of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet adhered to the fiberglass insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Ply Sheet:

One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the base sheet with approved mopping asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design

-355 psf (See General Limitations #9)

Pressure:



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Membrane Type: BUR

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(1): Base layer of insulation mechanically fastened, optional top layer adhered with approved

asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners Table 3	Fastener Density/ft²
FlintBoard _H ISO, ENRGY 3, H-Shield		
Minimum 1.4" thick	1	1:3 ft ²
	4, 7, 8	1:4 ft ²
ISO 95+ GL		
Minimum 1.4" thick	1, 11, 13	1:3 ft ²
	4, 7, 8	1:4 ft ²
Ultra-Max		
Minimum 1.5" thick	1, 4, 7, 8	1:2.9 ft ²
Fesco Board		
Minimum ¾" thick	1, 4, 11, 13	1:2 ft ²
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	1, 4, 11, 13	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
	Table 3	Density/ft ²
Any of the insulations listed for Base Layer, above.		
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.



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Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at an application rate of 20-35 lbs./sq. (See General Limitation #4)

Ply Sheet:

One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the base sheet with approved mopping asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design Pressure:

-52.5 psf (See General Limitations #9)



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(2): Base layer of insulation mechanically fastened, optional top layer adhered with approved

asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	<u>Fastener</u>
	Table 3	Density/ft ²
FlintBoard ISO, FlintBoardH ISO, ENRGY 3, ACFoam-II,	Multi-Max FA-3, H-Shield	
Minimum 1.5" thick	1, 4, 11, 13	1:1.33 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	<u>Insulation Fasteners</u> <u>Table 3</u>	<u>Fastener</u> <u>Density/ft²</u>
Fesco Board Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, (Optional) Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base

Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at

an application rate of 20-35 lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20,

Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the base sheet with approved

mopping asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping

(**Optional**) of approved asphalt at an application rate of 20-35 lbs./sq.



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Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design Pressure:

- -52.5 psf (For Fesco Board) (See General Limitation #7)
- -67.5 psf (For Structodek High Density Fiberboard Roof Insulation) (See General Limitation #7)



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type C(1):** All layers of insulation simultaneously fastened

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)	Insulation Fasteners Table 3	<u>Fastener</u> <u>Density/ft²</u>
Ultra-Max		
Minimum 1" thick	N/A	N/A
FlintBoard ISO, ACFoam-II		
Minimum 1.3" thick	N/A	N/A
FlintBoard _H ISO, ENRGY 3, H-Shield		
Minimum 1.4" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	N/A	N/A
Fesco Board		
Minimum ¾" thick	N/A	N/A

Note: All layers shall be simultaneously attached; See top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners Table 3	<u>Fastener</u> <u>Density/ft²</u>
ENRGY 3, H-Shield	,	
Minimum 1.4" thick	1	1:3 ft ²
	4, 7, 8	1:4 ft ²
ISO 95+ GL		
Minimum 1.4" thick	2	1:3 ft ²
	4, 7, 8	1:4 ft ²
Ultra-Max		
Minimum 1.5" thick	1, 4, 7, 8, 11 or 13	1:2.9 ft ²
Fesco Board		
Minimum ¾" thick	1, 4, 11 or 13	1:2 ft ²
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	1, 4, 11 or 13	1:2 ft ²



NOA No.: 17-1003.13 Expiration Date: 05/19/23 Approval Date: 04/26/18 Page 17 of 23 Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional)

Install one ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet directly over the top layer of insulation. Adhere with any approved mopping asphalt at an application rate of 20-35 lbs./sq. (See General Limitation #4)

Ply Sheet:

One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered to the base sheet with approved mopping asphalt applied within the EVT range and at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design Pressure:

-52.5 psf (See General Limitations #9)



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type C(2):** All layers of insulation simultaneously fastened

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners	<u>Fastener</u>	
	<u>(Table 3)</u>	Density/ft ²	
FlintBoard ISO, FlintBoard _H ISO, ACFoam-II, ENRGY 3, Multi-Max FA-3, H-Shield			
Minimum 1.5" thick	1, 3, 4, 11 or 13	1:1.33 ft ²	

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20,

Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a full mopping of approved

asphalt at an application rate of 20-35 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping

(**Optional**) of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing: (Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be

listed within a current NOA. Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of

approved asphalt at 60 lb./sq.

2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at

rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof

Coating.

Maximum Design

Pressure:

-52.5 psf (See General Limitation #7)



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D: All layers of insulation and base sheet simultaneously attached

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners Table 3	<u>Fastener</u> <u>Density/ft²</u>
FlintBoard ISO, FlintBoardH ISO, ACFoam-II, ENRGY 3, ENRG	Y 3 25 PSI, H-Shield	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners Table 3	<u>Fastener</u> <u>Density/ft²</u>
Fesco Board		
Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: Optional top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20,

Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Yosemite Venting

Base Sheet mechanically attached as below.

Fastening: OMG #14 Roofgrip and OMG 3 in. Ribbed Galvalume Plates, Dekfast DF-#14-PH3 fasteners

with Dekfast PLT-H-2-7/8 Plate, FlintFast #14 fasteners with FlintFast 3" Insulation Plate or Trufast #14 HD Fastener with Trufast 3" Metal Insulation Plates at a 4" side lap 6" o.c. and

two rows staggered in the center of the sheet, 6" o.c.

Ply Sheet: (Optional if Cap Sheet used) One ply of All Weather/Empire Base Sheet, Flexiglas Base

Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered in a

full mopping of approved asphalt at an application rate of 20-35 lbs./sq.



NOA No.: 17-1003.13 Expiration Date: 05/19/23 Approval Date: 04/26/18 Page 20 of 23 Cap Sheet: (Optional)

One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing:

(Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
- 2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof Coating.

Maximum Design Pressure:

-67.5 psf (See General Limitation #7)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank **System Type F:** Base sheet adhered with approved asphalt

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Sheet: Install one or more plies of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic

Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Glasbase Base Sheet directly to the concrete substrate. Adhere with any approved mopping asphalt at an application rate of 20-35 lbs./sq., or spot or strip mopped as detailed in this approval; see

General Limitation #4

Ply Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20,

Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or two or more plies of Flintglas Ply Sheet 4 or Flintglas Premium Ply 6 adhered with approved mopping asphalt

applied within the EVT range and at a rate of 20-35 lbs./sq.

Cap Sheet: One ply of Flintglas MS Cap Sheet or Flintglas MS Cap CoolStar adhered in a full mopping

(**Optional**) of approved asphalt at an application rate of 20-35 lbs./sq.

Surfacing: (Required if no cap sheet is used) Any coating, listed below, used as a surfacing, must be

listed within a current NOA. Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of

approved asphalt at 60 lb./sq.

2. A two part coating consisting of a base coat of APOC #300 Non-Fibered Emulsion at rate of 3 gal./sq.; surfaced with 1 gal./sq. APOC#212 Fibered Aluminum Roof

Coating.

Maximum Design

Pressure:

-235 psf (See General Limitation #9)



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CONCRETE DECK SYSTEM LIMITATIONS:

 If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F) value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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Chat | Bid Comments | Documents | Attachments | Items | Addendums Bid #PSPW-19-15 - Rebid Of Roof Replacements At Various City Buildings 🙀 IFB 🐠 🖇 🛭 🖸

Bid has ended.

Bid Started Dec 10, 2019 6:30:22 PM EST Notifications Report (Bidder Activity)

Bid Ended This bid closed on Jan 21, 2020 2:00:00 PM EST # of suppliers that viewed 91 **(View**)

City of Pembroke Pines, FL (view agency's bids) **Agency Information** Q & A **Ouestions & Answers**

Ouestions: 1

Q&A Deadline: Jan 7, 2020 8:30:00 PM EST

Bid Classifications Classification Codes

Required Vendor Qualifications

PP-SWORN, PP-LOCAL, PP-VOSB, PP-DRUGFREE, PP-SCRUTINIZED, PP-W9, PP-VENDORINFO, PP-EQUAL, PP-LBTR

Bid Regions Regions

Bid Contact see contact information Pre-Bid Conference(s) Dec 18, 2019 10:00:00 AM EST

Location: The meeting will start in the Public Services Conference room located at 8300 South Palm Drive, Pembroke Pines FL 33025, and

vendors will proceed to the remaining locations at the direction of the Public Services staff in attendance.

<u>Transcript</u> Attendance

lan 6, 2020 9:00:00 AM EST Attendance is optional

Location: The Public Services Department will hold an additional non-mandatory Site Visit.

Monday January 6, 2020 **Contractors must arrive by 9:00am

Location:

Pines Recreation Center North Concession Stand 7400 Pines Blvd. Pembroke Pines FL 33024

Various Site visits to other locations will be scheduled at that time.

Contractors must arrive on time in order to participate

Any questions in regards to finding the location, please contact Matt Desharnais at 954-261-7207.

<u>Transcript</u> <u>Attendance</u>

Copy Bid Click here to copy the bid and relist it as a new bid Click here to change the rules for this bid. **View Rules**

Best and Final Offer:

Approval

View Approval Flow View Approval Flow

Approval Status Approved

Bid Comments

Contract Duration One Time Purchase **Contract Renewal** Not Applicable **Prices Good for** 90 days **Budgeted Amount** \$0.00 (change)

Standard Disclaimer Bids/proposals must be submitted electronically

> Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide the necessary information on the BidSync website and upload all of the requested documents listed in the PROPOSAL REQUIREMENTS section of this solicitation. Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.

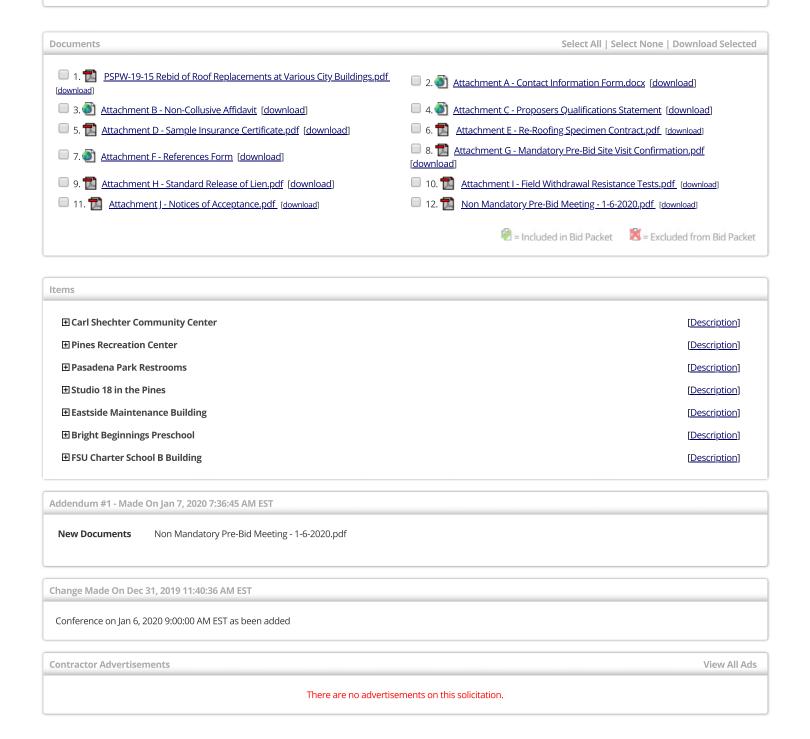
The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked \hat{a}_{tt} BID SECURITYâ (with the Solicitation Number and Title) and sent to the City of Pembroke Pines, City Clerk's Office, 4th Floor, 601 City Center Way, Pembroke Pines, FL 33025.

Bid Comments

The City of Pembroke Pines is seeking proposals from qualified firms to replace the roof at the Carl Shechter Community Center and several other city-owned facilities.



Questions? Contact a BidSync representative: 800-990-9339 or email: support@bidsync.com

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Question and Answers for Bid #PSPW-19-15 - Rebid of Roof Replacements at Various City Buildings

Create New Question Question Deadline: Jan 7, 2020 8:30:00 PM EST **Overall Bid Questions** Question 1 Site Visit request: Could you please schedule a site visit between January 6th to January 10th for the following building: Carl Shechter Community Center Pines Recreation Center FSU Charter School B Building (Submitted: Dec 29, 2019 11:27:42 AM EST) Answer The Public Services Department will hold an additional non-mandatory Site Visit. Ш Monday January 6, 2020 **Contractors must arrive by 9:00 Location: Pines Recreation Center North Concession Stand 7400 Pines Blvd. Pembroke Pines FL 33024 Various Site visits to other locations will be scheduled at that time. Contractors must arrive on time in order to participate. (Answered: Dec 30, 2019 4:45:37 PM EST) Add to Answer: Submit

Questions? Contact a BidSync representative: 800-990-9339 or email: support@bidsync.com

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