



FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES  
COMMISSIONER ADAM H. PUTNAM

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December 16, 2015

**ADDENDUM 1**

**TO:** Vendors

**FROM:** Vianka Colin, Purchasing Director

**RE: INVITATION TO BID ITB/FFS-15/16-48  
ADDITION AND REMODEL PROJECT AT THE ADMINISTRATION BUILDING OF THE  
CALOOSAHATCHEE FORESTRY STATION**

This addendum is to provide all potential bidders with changes and additional information in reference to Invitation To Bid number ITB/FFS-15/16-48. **Deletions are struck through, and additions are highlighted.**

**BID OPENING**

**The bid opening will be at 2:00 p.m. on ~~December 23, 2015~~ January 8, 2016.** The location of the bid opening is the Florida Department of Agriculture and Consumer Services, Bureau of General Services, 407 S. Calhoun Street, Mayo Building, Room SB-8, Tallahassee, Florida 32399-0800.

**The cut-off date for questions to be submitted will be ~~December 15, 2015~~ December 23, 2015.**

**Questions / Answers**

**1. Will HVAC details be provided, and who will seal mechanical plans?**

*Contractor shall design and estimate HVAC system for the new structure under consideration. Contractor shall submit design with specifications. Forestry's permitting agent, NOVA Engineering, will certify and seal design of system.*

**2. Exterior electrical connection of main power feed location.**

*Current location of exterior electrical panel shall be located on the rear exterior wall of the new proposed structure to meet electrical code.*

**3. Construction material and specification details omitted.**

*See Exhibit I.*

**4. Would any materials from demolition be salvaged?**

*No...All materials, debris generated on this project, shall be removed by contractor.*

**5. Asbestos survey and permitting required.**

*All asbestos surveys required for this project have been completed by the Department and are not part of this project scope. All permitting regarding this project will be the sole responsibility of the Department, through Department's outside permitting agent NOVA Engineering. All permitting, sealing of plans/specifications to include inspections will be the sole responsibility of NOVA Engineering.*

**6. Staging of materials.**

*At least one (1) week before materials arrive, contractor shall coordinate with the local site contact on the specific location where materials can be stored on site to avoid traffic issues with entry and exit from site.*

**7. Tree removal.**

*Contractor shall be responsible of removing one (1) tree and one (1) shrub found within the proposed construction site. The removal shall include tree, stump with root system and any other associated fees.*

**8. Civil engineering required.**

*All civil engineering with associated approvals and inspections will be through NOVA Engineering only; the Department shall coordinate this process.*

**9. Alterations to proposed building plans or specifications - it was requested that if a contractor proposed a revision or alteration regarding construction methods, material or design, could this revision be forwarded for consideration?**

*The Department reserves the right to award to the lowest responsive bidder based upon the **firm fixed total price for the project** as specified herein. Any alterations or revisions during the project shall be handled through a change order request.*

**10. Is Builder's Risk Insurance required for just addition, or do we include the existing structure?**

*Builder's risk insurance shall include the existing structure as well as the proposed addition.*

**11. Are there specifications for plumbing, electric and HVAC?**

*See Exhibit I.*

**12. Is there a finish schedule?**

*See sheet A-1.*

**13. Is there an electrical plan?**

*There is an electrical plan that does not include a riser and panel schedule. This shall be provided by the contractor.*

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**14. Is there a structural plan for framing?**

*See sheet A-7.*

**15. Will the bathrooms require hand dryers?**

No.

**To the extent this addendum gives rise to a protest, failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, shall constitute a waiver of proceedings under Chapter 120, Florida Statutes. All other terms, conditions and specifications of this Invitation to Bid will remain the same. If you have any questions regarding this addendum, please feel free to contact this office at (850) 617-7181.**

# SPECIFICATIONS

FOR

## CALOOSAHATCHEE FORESTRY STATION

10941 Palm Beach Blvd., Fort Myers, Florida

## ADMINISTRATION OFFICE ADDITION & ADA BATHROOM RENOVATION

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**STATE OF FLORIDA**  
**DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES**  
ADAM H. PUTNAM, COMMISSIONER



**FLORIDA FOREST SERVICE**  
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Specifications For:  
Caloosahatchee Forestry Station  
Administration Office Addition  
and ADA Bathroom Renovation  
10941 Palm Beach Blvd., Fort Myers, Florida

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**DIVISION 01 – GENERAL REQUIREMENTS**

**SECTION 01001 – ENUMERATION OF THE CONTRACT DOCUMENTS**

**Administration Building**

| <u>Sheet</u> | <u>Title</u> | <u>Content</u>  |
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**PERMIT ATTACHMENTS: CONTRACTOR TO PROVIDE WITH PERMIT APPLICATION DOCUMENTS**

1. (FBC-B) Chapter 13, Energy Calculations – TO BE PROVIDED BY MECHANICAL SUB-CONTRACTOR WITH PERMIT APPLICATION
2. (NEC – General Branch-Circuit, Feeder & Service load calculation verification – TO BE PROVIDED BY ELECTRICAL SUB-CONTRACTOR WITH PERMIT APPLICATION

**End of Attachments to Drawings**

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**SECTION 01002 - SAFETY ON SITE**

- Contractor shall post and/or provide product safety information on site at all times.
- Contractor shall use only qualified, experienced sub-contractors & workers.
- Contractor shall protect the public from the work with adequate barriers and signs.
- Contractor shall protect designated natural site features from the work with adequate barriers.
- Contractor shall follow plans, specifications and all regulatory agency requirements.
- Contractor and sub-contractors shall leave the site clean, properly store equipment and remove respective construction waste debris from the site daily.

**SECTION 01010 - SUMMARY OF THE WORK**

1. Work shall consist Site Improvements and Construction of 1 new structure and a bathroom renovation as follows:
  - a. **Administration Office Addition** Consisting of a 1,167 sq.ft., one story wood frame "Type V-B" structure containing 6 offices, an ADA bathroom, and a kitchen.
  - b.. **Administration Office ADA bathroom:** An approximately 7' x 7' ADA bathroom renovation
2. All work shall to be done in accordance with applicable federal, state and local laws, ordinances, rules, regulations, codes, standards and manufactures recommendations.
3. Contractor shall notify Department/architect in writing of any discrepancies on inconsistencies for clarification and determination
4. Contractor shall verify dimensions and conditions prior to start of construction.
5. Contractor shall review and submit for approval (3) sets of manufacturer submittal drawings, samples, etc. within fifteen (15) working days of notice to proceed. Late submittals of drawings, samples, etc. shall be received a minimum of fifteen (15) working days prior to proposed material order dates.
6. Contractor shall make no change without written approval from the Department/architect.
7. Manufactures listed are descriptive not restrictive. The contractor may submit for approval other manufacturer products, after determining to her/his satisfaction they meet or exceed the applicable specification.
8. Contractor shall provide three (3), properly identified to the project, 3-ring binders containing all manufacture equipment warranties, written guaranties, operating instructions, maintenance recommendations and all other contractor and/or sub-contractor material and/or workmanship warranties or guaranties.

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**SECTION 01011 – CODE REVIEW SUMMARIES – OFFICE ADDITION**

**1. FLORIDA BUILDING CODE “BUILDING” (FBC-B):**

**CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION**

**SECTION 304 – BUSINESS GROUP B**

304.1 Business Group B occupancy includes, among others, the use of a building or structure or a portion thereof, for office, professional service-type transactions, including storage of records and accounts.

Table 1004.1.        1. Maximum floor area allowances 100sf per occupant.

Section 1014.3        Common path of egress travel:

Exceptions:        2. When the tenant space in Group “B” occupancies has an occupancy load of not more than 30 and the length of travel shall not be more than 100 feet.

Section 1015.1 Exits or exit access doorways required:

Two exit or exit access doorways from any space shall be provided when one of following conditions exists:

1. The occupancy load exceeds (Table 1015.1) 49 occupants.
2. The common path of egress travel exceeds the limitations of Section 1014.3.

Section 1017.1 Corridors construction shall be fire rated.

Exceptions:        4. A fire-resistance rating is not required for corridors in an occupancy in Group “B” (business) which is a space requiring only a single means of egress complying with section 1015.1.

**2. FLORIDA BUILDING CODE “MECHANICAL” (FBC – M):**

Section 601.2 Air movement in egress elements:

Exceptions:        1. Toilet rooms & janitor closets, corridors may provide makeup air for exhaust systems.

----- End of FBC- B & M Code Review -----



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**DIVISION 02 – BUILDING SITE WORK**

**SECTION 02010 – SITE CONDITIONS**

1. Finished site grading shall be finished to one (6”) inches min. and (1’-0”) foot max. below floor elevations except as indicated at entry and exit access locations. See Civil Engineering documents, reports, Including Structural Analysis, Soils Analysis, Foundation Recommendations and Soils Preparation Recommendations.
2. Contractor shall provide clean compacted foundation fill base pads where required.
3. Contractor shall provide final grading and landscape ground covering for prevention of erosion within ten (10’-0”) feet of the new Administration building upon its completion..
4. Contractor is responsible for the repair of any disrupted or damaged areas of the surrounding site that may be caused by construction activities.

**SECTION 02930 – LANDSCAPING**

1. Fencing, landscape design and/or site work not included in this contract.

**DIVISION 03 – CONCRETE**

**SECTION 03250 – CONCRETE ACCESSORIES**

1. Provide 5/8” Dia. Pro-bolts embedded 7” min. into slab where indicated on foundation drawings, max 4’ on centers.
2. Provide #5 deformed reinforcing foundation steel embedded 18” into new footing and 18” epoxied into existing footing.
3. See drawings for special anchoring requirements.
4. Provide #5 deformed reinforcing foundation steel in accordance with drawings.
5. Provide 3” min. cover for steel bars in concrete cast against earth.
6. Provide pipe sleeves for conduit and pipes where required by code.
7. Provide 6x6 – W1.4x W1.4 wire matt in slabs.
8. Provide 6 mil polyethylene vapor barrier under slab: Lap joints 6” min.

**SECTION 03300 – CONCRETE FOUNDATIONS**

1. Field Experience standard foundation mix to 3,000 PSI at 28 days. Slump for footings 2-4”:  
for slab on grade, 3-5”.
2. Float and trowel finish slab to receive finish floor materials.
3. Maximum slab tolerance to 1/8” in 10’ (ft). Slope open paved areas 1” in 50’ to drain.

**DIVISION 4 – MASONRY (NOT USED)**

**DIVISION 5 – METAL (NOT USED)**

**DIVISION 6 - CARPENTRY**

**SECTION 06050 – FASTENERS & ADHESIVES**

1. Exposed fasteners shall be hot-dipped galvanized or triple zinc coated.
2. Wood connectors shall be Simpson strong-tie connectors (1-800-999-5099) in accordance with the manufacturers intended purpose and design load strength.
3. See the Florida Building Code, plans, specifications and/or manufacturer recommendations for specific fastener and/or anchor types.

**SECTION 06112 – FRAMING & SHEATHING – Administration Building**

1. Material to be S4S and grade stamped as per PS-20, latest edition.
2. Materials shall be No. 2 S.Y.P. for all plates, beams and headers.
3. Studs shall be No. 2 fir or western pine.

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4. Lumber in contact with concrete or earth shall be pressure-treated with womanized - hickson timber protection or other arsenic-free system.
5. 4" thick or less = 0.25 PCF retention,
6. 4" thick or more = 0.40 PCF retention.
7. Treat all field cuts with *copper naphthenate solution* as per AWWPA M4.
8. Nailing pattern for sheathing, roof and walls 5/8" OSB shall be 8b commons @ 4" O.C edges and 12" O.C. interior.

**SECTION 06193 - Plate Connected Wood Trusses**

1. Follow Truss Plate Institute "handling, installing and bracing trusses" ANSI/TPI 1-2014 handbook.
2. Manufacturer shall provide four (4) shop drawings signed and sealed by a Florida registered structural engineer for review.
3. Trusses shall be designed to meet site specific required wind loads and conditions.

**SECTION 06200 – FINISH CARPENTRY**

Exterior corners, windows, doors, fascias, soffits eaves gables and horizontal band boards shall be James Hardie Co. trim and installed in accordance with manufacturer's instructions.

**DIVISION 7 – THERMAL & MOISTURE PROTECTION**

**SECTION 07460 – SOFFITS AND SIDING – TRAINING CENTER**

1. 5/16" fiber-cement board by James Hardie Co.
2. Flame-spread rating = 0
3. Smoke-developed rating = 5 (ASTM E 84) min. to corner = 2"
4. Pre-drill for galvanized 4D common nails, 1 1/2" long 6" O.C.
5. Nailing edge distance = 3/8" min.
6. 5/16" fiber-cement vertical siding by James Hardie Co. to be installed in accordance with manufacturer's instructions.

**SECTION 07611 – METAL ROOFING – TRAINING CENTER**

1. Metal roofing shall be seam-lock as manufactured by Semco, Inc. or approved equal.  
Roofing Panels shall meet the following specification:

|                        |  |
|------------------------|--|
| <b>Application:</b>    | <b>Commercial</b>  |
| <b>Features:</b>       | <b>Mechanically seamed, concealed fastener panel</b>           |
| <b>Coverage:</b>       | <b>16" wide panel coverage, 2" rib height</b>                  |
| <b>Slope:</b>          | <b>Minimum 1/2" in 12</b>                                      |
| <b>Substrate:</b>      | <b>24 Ga. Galvalume steel sheet (or Aluminum as alternate)</b> |
| <b>Finish Options:</b> | <b>Forest Green</b>  |
| <b>Warranty:</b>       | <b>25 year panel, 40 year finish warranty</b>                  |

2. Fastenings and closers shall be as recommended by the manufacturer.
3. Roof penetrations shall be flashed using "Dektite" or approved equal.
4. Accessories shall be manufactured by roofing manufacturer and shall include but not necessarily limited to the following:
  - a. Eave drips
  - b. Gutter
  - c. Downspouts
  - d. Gable/rake flashing
  - e. Continuous butyl tape seal

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**SECTION 07620 – SHEET METAL FLASHING & TRIM**

1. Provide Galv. Flashing Cap at exterior Window, Door, & exposed horizontal James Hardie trim. Color to be selected by owner.

**DIVISION 8 – DOORS & WINDOWS**

**SECTION 08110 - STEEL DOORS AND FRAMES**

**PART 1 GENERAL**

**1.1 SUBMITTALS**

- A. Product Data: Three (3) sets of manufacturer's data sheets and specifications. Include schedule identifying each unit, with door marks or numbers referencing drawings. Show layout, profiles, product components, anchorages Installation and manufacturer's printed installation instructions.
- B. Certificates: Product certificates signed by the manufacturer certifying material compliance with ANSI A250.8, specified performance characteristics and criteria and physical requirements.

**1.2 QUALITY ASSURANCE**

- A. All products shall conform to the requirements of ANSI A250.8, "SDI 100 Recommended Specifications for Standard Steel Doors and Frames".
- B. Acoustical Doors shall have a min. Sound Transmission Classification (STC) Rating of 38.
- C. Insulated Doors shall have: Shall have a "U Factor" of 0.13 for a Polystyrene core.

**1.3 DELIVERY, STORAGE, AND HANDLING**

- A. Store all materials under cover. Avoid use of non-vented plastic or canvas shelters to prevent forming of humidity chambers that cause rust.
- B. Provide 1/4 inch spacing between doors to provide air circulation.

**1.4 PRODUCTS**

**1.5 MANUFACTURERS**

- 1.6** Acceptable Manufacturer: Republic Doors and Frames or similar in design and construction.

**1.7 MATERIALS**

- A. Uncoated Steel Sheet: Cold rolled commercial steel sheet complying with ASTM A 366/A 366M.

**1.8 EXTERIOR DOORS CONSTRUCTION**

- A. Doors: Full flush
  1. Thickness: 1-3/4 inches.
    - a. ANSI Level 3, Model 1; 16 gage faces, visible edge seams.
  2. Face Material: Galvannealed steel sheet.
  3. Insulated Doors: Insulated; U-value of 0.13, polystyrene core.
    - a. Core: Doors fabricated by laminating panels to core and the complete unit closed with steel perimeter channels, projection welded to the face sheets.
  4. Steel Stiffened Doors: Steel reinforced with minimum 22 gage hat shaped stiffeners welded to the inside of each face sheet at maximum of 6 inches on center, with mineral wool filling spaces between stiffeners.
- B. Door Reinforcements:
  1. Top and Bottom Channels: 16 gage steel, projection welded to both face sheets at a maximum of 2-1/2 inches on center.
    - a. For exterior Doors fill top channel with epoxy and grind smooth.
  2. Hinge Reinforcement: Hinge reinforcing channel shall be projection welded to both face sheets at a maximum of 5 inches on center.
    - a. 1-3/4 inch thick reinforced with continuous 11 gage channel with 10 gage reinforcements located at each hinge preparation.
  3. Lock Reinforcing Channel: Continuous 16 gage channel, with tapped holes extruded to

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14 gage. Channel shall be welded to both face sheets at a maximum of 5 inches on center.

4. Closer Reinforcement: 12 gage box type reinforcement, 18 inches long.
5. Labeled by UL, or other agency acceptable to the authorities having jurisdiction.

**1.9 FRAMES CONSTRUCTION**

- A. Frames: Formed steel sheet, with 2 inch wide face jambs and heads unless otherwise indicated; complying with ANSI A250.8.
  1. Frame Depth: Adjustable within 2 inches of nominal depth.
  2. ANSI Level 1 Doors: 18 gage frames.
  3. ANSI Level 2 Doors: 16 gage frames.
  4. Material: Galvannealed steel sheet.
  5. Corners: Mitered; knockdown type.
  6. Provide 3 silencers for single doors, 2 silencers on head of frame for pairs of doors.
  7. Finish: Factory prime finish.
- B. Reinforcements for 1-3/4 Inch Frames:
  1. Hinge Reinforcements: 9 gage.
  2. Strike Reinforcement: 10 gage.
  3. Closer Reinforcements: 12 gage.
- C. Frame Anchors: Minimum of six wall anchors and two base anchors.

**1.10 FACTORY FINISH**

- A. All doors and frames shall be cleaned and finished in accordance with ANSI A250.10.

**PART 2 EXECUTION**

**2.1 EXAMINATION**

- A. Before beginning installation, verify that substrate conditions previously installed are acceptable for installation of doors and frames in accordance with manufacturer's installation instructions and technical bulletins.

**2.2 INSTALLATION**

- A. Install frames plumb, level, rigid and in true alignment in accordance with ANSI A250.11, "Recommended Erection Instructions for Steel Frames" and ANSI A115.IG, "Installation Guide for Doors and Hardware".
- B. All frames shall be fastened to the adjacent structure to retain their position and stability. Drywall slip-on frames shall be installed in prepared wall openings, and use pressure type and sill anchors to maintain stability.
- C. Install doors to maintain alignment with frames to achieve maximum operational effectiveness and appearance. Adjust and shim to assure proper clearances.
- D. Install hardware in accordance with the hardware manufacturer's recommendations and templates. ANSI A115.IG, "Installation Guide for Doors and Hardware" shall be consulted for other pertinent information.

**2.3 CLEARANCES**

- A. Clearance between the door and frame head and jambs for both single swing and pairs of doors shall be 1/8 inch.
- B. Clearance between the meeting edges of pairs of doors shall be 3/16 inch plus or minus 1/16 inch. For fire rated applications, the clearance between the meeting edges of pairs of doors shall be 1/8 inch plus or minus 1/16 inch.
- C. Bottom clearance shall be 3/4 inch.
- D. The clearance between the door face and door stop shall be 1/16 inch to 1/8 inch.
- E. All clearances shall be, unless otherwise specified, subject to a tolerance of plus or minus 1/32 inch.

**2.4 ADJUSTING AND CLEANING**

- A. Adjust doors for free swing without binding.

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- B. Adjust hinge sets, locksets, and other hardware. Lubricate using a suitable lubricant compatible with door and frame coatings.  
Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions before owner's acceptance.

**2.5 PROTECTION**

- A. Protect installed products and finished surfaces from damage during construction.

**SECTION 08140 – INTERIOR DOORS- Training Center**

1. Interior doors shall be solid core with birch veneer in an 18 ga. metal frame.

**SECTION 08210 – EXTERIOR DOOR UNITS – Training Center**

1. Exterior insulated door and frame units shall be equal to Republic Doors & Frame a. 1-3/4" DL Series Embossed Insulated 16ga Doors & Frames package. See door schedule on plans for sizes.

**SECTION 08710 – DOOR HARDWARE**

1. Shall be equal to Schlage "D" series. Provide individual location keying schedule with submittals.

**SECTION 085113 - ALUMINUM WINDOWS**

**PART 3**

GENERAL

1)SECTION REQUIREMENTS

- b.Submittals: Product Data, **color Samples.**

**PART 4**

PRODUCTS

1.MANUFACTURERS

- a.**Manufacturers:** Subject to compliance with requirements, **available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:**

- 1)Sunshine Windows Mfg., Inc.

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## 2. PERFORMANCE REQUIREMENTS

a.Product Standard: AAMA/WDMA/CSA 101/I.S.2/A440.

1)Window Certification: Miami-Dade County Product Control Approval certified with label attached to each window.

b.Windborne-Debris Resistance: Windows pass **enhanced**-protection testing requirements for 160 MPH.

## 3.ALUMINUM WINDOWS

a.Window Types: **As indicated on Drawings.**

1) Outswing Aluminum Casement Window-L.M.I.

b.Construction: Provide units with a concealed, thermal break.

c.Finish: **Fluoropolymer two-coat coating system complying with AAMA 2604.**

d.Trim: Provide indicated trim, matching material and finish of frame members. Delete first paragraph below if no bow or bay window units are required.

e.Equip units with **aluminum** mesh insect screens at operable sashes.

f.Glaze units with **clear, low-E-coated, argon-filled**, sealed insulating glass.

## PART 5 EXECUTION

### 1.INSTALLATION

a.Set units level, plumb, and true to line, without warp or rack of frames and panels. Provide proper support and anchor securely in place.

b.For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E 2112.

c.Set sill members in bed of sealant or with gaskets, as indicated, to provide weather tight construction.

d.Adjust operating panels, screens, and hardware to provide a tight fit at contact points and weather stripping for smooth operation and weather tight closure. Lubricate hardware and moving parts.

e.Clean glass and aluminum surfaces immediately after installing windows. Remove nonpermanent labels from glass surfaces.

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**DIVISION 9 – FINISHES**

**SECTION 09100 – DRYWALL**

1. Training Center ceilings shall be 5/8" drywall, light knock-down finish, satin paint, color by Architect.
2. Training Center walls to be 1/2" drywall, light knock-down finish, painted, semi-gloss paint, color by Architect.

**SECTION 09300 – FLOORING**

**CARPETING**

1. Carpeting shall be Bigelow Commercial or similar in design and construction.

Carpeting shall be tested for and in accordance with:

|                        |                                 |
|------------------------|---------------------------------|
| Flammability:          | ASTM E 648, Class 1 (Glue Down) |
| Smoke Density:         | ASTM E 662, Less than 450       |
| Static Properties:     | AATCC-134, Under 3.5 KV         |
| Carpeting Description: | Bigelow Commercial              |
| Product Type:          | Broadloom                       |
| Construction:          | Tufted                          |
| Surface:               | Level Heathered Loop            |
| Fiber Type:            | Colorstrand SD Nylon            |
| Guage:                 | 1/10 (39.37 rows per 10 cm)     |
| Pile Weight:           | 28.0 oz. per. sq. yd.           |
| Pile Thickness:        | .137"                           |
| Stitches Per inch:     | 11.0                            |
| Dye Method:            | Solution Dyed                   |
| Protective Method:     | Sentry Plus                     |
| Density:               | 7,358                           |
| Weight Density:        | 206,024                         |
| Primary Backing:       | Woven Polypropylene             |
| Backing foundation:    | Single Primary                  |
| Secondary Backing:     | Woven Polypropylene             |
| Pattern Repeat:        | None                            |
| Width:                 | 12'                             |

Carpeting Warranties:

Lifetime Limited Wear Warranty

Lifetime Limited Colorfastness to Light

10 Year Limited Colorfastness to Atmospheric Contaminants

10 Year Sentry Plus Stain Warranty

Lifetime Static

**CERAMIC TILE**

1. Ceramic Tile shall be Daltile – (Color to be selected by Architect)

|                                 |           |        |
|---------------------------------|-----------|--------|
| Ceramic Field Floor Tile        | Mosaics   | 2"x 2" |
| Ceramic Base Built-Up Bull Nose | Stretcher | 4"x 4" |
| Ceramic Wall Tile               |           | 3"x 6" |

**DIVISION 10 – SPECIALITIES**

**SECTION 10440 – FIRE EXTINGUISHERS**

1. Fire Extinguishers shall be: Larsen's model MP10, UL rating #A4-80B/C including standard wall bracket #546.

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**DIVISION 11 – EQUIPMENT (NOT USED)**

**DIVISION 12 - FURNISHINGS (NOT USED)**

**DIVISION 13 – SPECIAL CONSTRUCTION (NOT USED)**

**DIVISION 14 – CONVEYING SYSTEMS (NOT USED)**

**DIVISION 15 – MECHANICAL**

**SECTION 15400 - PLUMBING SUPPLY & WASTE**

1. Contractor shall connect to the site utilities, including water and septic lines which will be stubbed-out by “others” within 10’-0” of the building.
2. Solid waste and vent pipe shall be PVC or CPVC plastic pipe conforming to the Florida Building Code, plumbing.
3. Solid waste pipe 3” and larger shall be sloped at a min. grade of 1/8” per foot.
4. Solid waste pipe smaller than 3” shall be sloped at a min. ¼” per foot.
5. Water supply inside buildings may be CPVC plastic piping or tubing.
6. Insulate all hot water piping installed above grade with 1” thick fiberglass sectional pipe covering with an ASJ jacket.
7. All plumbing work shall be installed in strict accordance with the current applicable “Florida Building Code, Plumbing” (FBC-P).
8. Piping installed above grade, verify hose bib thermal protection requirements.

**SECTION 15410 - PLUMBING FIXTURES**

1. General – Although Kohler, Elkay, Oasis, Ariston, Woodford and Pro-set are listed as the standard of quality other manufacturer fixtures may be submitted with manufacturer submittal documentation in advance for comparative review and approval.
2. All fixtures shall include drains, stops, faucets and other trim items required for proper installation and operation. All fixtures to be ADA compliant.
3. Water closet, elongated bowl, 1.28 gallons per flush. With elongated open front seat, seat cover, post hinges and flexible risers with stops.
4. Lavatory, vitreous china, Wall mount 18”x 22” Kohler with single lever faucet, pop-up waste, 17 gauge chromium plated 1 ¼” “P” trap, shroud and flexible riser with stops.
5. Hose bib with vacuum breaker, Woodford with ½” connection. Water Heater – Ariston 3.85 gal. 120v electric point of use with vacuum relief valve, heat trap, P & T relief valve and thermostatic expansion valve. See detail on plans for connection required.
  - a. Assembly shall meet ASHRA standard 90-1989, add 90.1B and UL standards.
  - b. Tank shall bear a 5 year warranty against defects in workmanship.
6. Contractor shall thoroughly clean all plumbing fixtures, remove all labels, and check fixtures for proper operation prior to final building acceptance.
7. Provide operational, maintenance, and spare parts data for owner’s use for all items of equipment and plumbing fixtures. Data shall be provided in triplicate in three ring binders and transmitted to owner at completion of project.

**SECTION 15700 - HVAC**

1. **Refrigerant Piping:** Use type K hard drawn copper with silver soldered joints in accordance with ASHRAE standard #14. Insulate all piping subject to condensation with 3/8” wall flexible unicellular insulation slipped over piping with all joints sealed.



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2. **Ductwork:** Rigid, in strict accordance with SMACNA Duct Construction standards, metal and flexible for a maximum of 0.5 total SP and a maximum velocity of 1000 feet/min. velocity.
3. **Ductwork Insulation:** Wrap all ductwork with a flexible fiberglass blanket having an installed "R" value of 6.0 or greater and a vapor barrier jacket. Seal all joints in vapor barrier.
4. **Flexible Ductwork:** Flexible ductwork used for run outs to ceiling diffusers shall be Class A, type 1 flexible air duct with an insulated jacket which has an installed "r" value of 6.0. Spin-in taps, provide spin in taps with air scoop and operable damper at all trunk duct connections to diffuser run outs. Connections shall conform to SMACNA standards.
5. **Drain Piping:** Provide ¾" schedule 40 PVC drain piping with solvent welded joints for evaporator drains. Trap drain piping and extend to an approved dry well located exterior of building.
6. **Heat Pump Units:** Furnish split system heat pump units with Minimum 9.0 HPSF, 15 SEER, & 12.0 EER rating. Units shall be furnished complete and shall include an extended five (5) Year compressor warranty. Acceptable units are Trane, American Standard, Bryant, Carrier or York.
7. **Controls:** Provide low voltage heating/cooling heat pump programmable thermostat. Install control wiring in conduit and color code wiring.
8. **Submittals:** Contractor shall submit all items of equipment and materials for approval in quadruplicate prior to ordering or installing equipment or ductwork. See general sections for additional submittal requirements.

## **DIVISION 16 – ELECTRICAL**

### **SECTION 16010 - ELECTRICAL GENERAL CONDITIONS**

1. The contractor shall notify the project manager and appropriate persons within local utilities 48 hours before commencement of any work, to verify location of existing below grade pipes, cables, poles, towers, and right of ways that could be hazardous to life, limb or health.
2. This contractor will be held solely responsible for any damage as stated above.
3. Provide all labor, materials and equipment for a complete and proper operating electrical system as shown on drawings or specified herein.
4. All electrical work shall be in strict compliance with the National Electrical Code NFPA 70, ANSE, and Power Co.
5. All materials shall be new, free from defects and shall bear the "Underwriter's Laboratory" label.
6. The contractor shall thoroughly investigate site before bidding.
7. **WORKMANSHIP:** All materials and equipment shall be installed in accordance with the approved recommendation of the manufacturer and to conform to the contract documents subject to the approval of the project manager. The installation shall be accomplished by workmen skilled in the type work involved.
8. **TEMPORARY POWER:** This contractor shall make all necessary arrangements for temporary electrical construction power.
9. **CONDUIT:** Where required by local authority, wire shall run in conduit. Conduit shall be PVC.
10. **CONDUCTORS:** All conductors shall be copper.
11. **DEVICES:** Outlet, junction and switch boxes shall be code grade fiberglass. Switches shall be single pole 120 volt, "quiet type", code grade, grounded-color to be selected by project

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- manager. Receptacles shall be code grade, grounded, color to be selected by the project manager.
12. **GROUND FAULT INTERRUPTER (GFI)**: Shall be duplex receptacle G.E. # TGTR115F or square "D".