

**INVITATION TO BID
2020-L
COLUMBIA COUNTY WOMEN'S CLUB RENOVATIONS**

The Columbia County Board of County Commissioners will receive sealed bids in the office of the County Manager, 135 NE Hernando Avenue, Suite 203, Lake City, FL 32055 until **2:00 PM** on **May 19, 2020**.

The Columbia County Women's Club is located at 655 NE Martin Luther King Street, Lake City, FL 32055. There will be a mandatory pre-bid meeting held at the project site at 2:00 PM on May 05, 2020.

Specifications and bid forms may be obtained from the County's website at: <http://www.columbiacountyfla.com/PurchasingBids.asp>. Deadline for questions regarding specifications and/or bid documents must be received before 2:00 pm on May 12, 2020.

GENERAL INSTRUCTIONS TO BIDDERS

These instructions will bind bidders and conditions herein set forth, except as specifically qualified in special bid and contract terms issued with any individual bid.

1. The following criteria are used in determining low responsible bidder:
 - A. The ability, capacity and skill of bidder to perform required service.
 - B. Whether the bidder can perform service promptly or within specified time.
 - C. The character, integrity, reputation, judgment, experience and efficiency of bidder.
 - D. The performance of previous contracts with Columbia County.
 - E. The suitability of equipment or material or county use.
 - F. The ability of bidder to provide future maintenance
2. Payment Terms are net (30) unless otherwise specified. Favorable terms, discounts, may be offered and will be considered in determining low bids if they are deemed by Purchasing Department to be advantageous to the County.
3. All bids should be tabulated, totaled and checked for accuracy. All blanks on Bid Proposal sheet shall be filled in and unit price will prevail in case of errors.
4. All requested information shall be included in the envelope. All desired information must be included for your bid to receive full consideration.
5. If anything on the bid request is not clear, you should contact the Purchasing Director immediately.
6. A bidders list is available at the Purchasing Office.
7. Quote all prices F.O.B. our warehouse or as specified in bid documents.
8. Each proposal shall be clearly marked on the outside of the envelope including Fed Ex, UPS or other delivery service envelopes, as a sealed bid. The name of the item being bid shall be shown on the outside in full.
9. No responsibility shall attach to any County representative or employee for the premature opening of bids not properly addressed or identified.
10. If only one (1) bid is received, the bid may be rejected and re-advertised or accepted if determined to be in the County's best interest.
11. Bids received late will not be accepted, and the County will not be responsible for late mail delivery.

12. Telephone, email, and facsimile bids will not be acceptable in formal bid openings (sealed bids). Should a bid be misplaced by the County and found later, it will be considered. Any bidder may request and shall receive a receipt showing the day and time any bid is delivered to the appropriate office of the County from the personnel thereof.
13. Bids requiring bid bonds will not be accepted if bond is not enclosed. Cash or certified check will be accepted in lieu of bond except on construction projects where cost exceeds \$40,000.
14. All bidders must be recognized dealers in the materials or equipment specified and is qualified to advise in their application or use. A bidder at any time requested must satisfy the Purchasing Department and the County Manager that he/she has the requisite organization, capital, plant, stock ability and experience to satisfactorily execute the contract in accordance with the provisions of the contract in which he is interested.
15. Any alterations, erasures, additions, or admissions of required information or any changes to specifications or bidding schedule are done at the risk of the bidder. Any bid will be rejected that has a substantial variation, that is; a variation that affects price, quantity, and quality or delivery date (when delivery is required by a specific time).
16. When requested, samples will be furnished to the County free of expense, properly marked for identification and accompanied by a list where there is more than one (1) sample. The County reserves the right to mutilate or destroy any sample submitted whenever it may be to the best interest of the County to do so for the purpose of testing.
17. The County will reject any material, supplies or equipment that did not meet the specifications, even though the bidder lists the trade names or names of such material on the bid or price quotation form.
18. The unauthorized use of patented articles is done entirely at the risk of the successful bidder.
19. The ESTIMATED QUANTITY given in the specifications or advertisements is for the purpose of bidding only. The County may purchase more or less than the estimated quantity, and the vendor must not assume that such estimated quantity is part of the contract.
20. Only the latest model equipment as evidenced by the manufacture's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. The equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specification, all equipment catalogued by the manufacturer as standard or required by the State of Florida shall be furnished with the equipment. Where required by the State of Florida Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Florida Department of Revenue.

21. Prospective bidders are required to examine the location of the proposed work or delivery and determine, in their own way, the difficulties, which are likely to be encountered in the prosecution of the same.
22. All materials, equipment and supplies shall be subject to rigid inspection, under the immediate supervision of the Purchasing Department, its designee and /or the department to which they are delivered. If defective material, equipment, or supplies are discovered, the contractor, upon being instructed by the Purchasing Department or designee, shall remove or make good such material, equipment, or supplies without extra compensation. It is expressly understood and agreed that the inspection of materials by the County will in no way lessen the responsibility of the Contractor or release him/her from obligation to perform and deliver to the County sound and satisfactory materials, equipment, or supplies. The Contractor agrees to pay the costs of all tests upon defective material, equipment, or supplies or allow the costs to be deducted from any monies due him from the County.
23. Unless otherwise specified by the Purchasing Department, all materials, supplies, or equipment quoted herein shall be delivered within thirty (30) days from the day of notification or exceptions noted on bid sheets.
24. A contract will not be awarded to any corporation, firm, or individual who is, from any cause, in arrears to the County or who has failed in former contracts with the County to perform work satisfactorily, either to the character of the work, fulfillment or guarantee, or time consumed in completing the work.
25. Reasonable grounds for supposing that any bidder is interested in more than one proposal for the same item will be considered sufficient cause for rejection of all proposals in which he is interested.
26. Submitting a proposal when the bidder intends to sublet the contract may be a cause for rejection of bids or cancellation of the contract by the County Manager.
27. Unless otherwise specified, the County reserves the right to award each items separately or on a lump sum basis whichever is in the best interest of the County.
28. The County reserves the right to reject any and/or all quotations, to waive any minor discrepancies in the bids for all bidders equally, quotations, or specifications, when deemed to be in the best interest of the County and also to purchase any part, all or none of the materials, supplies, or equipment specified.
29. Failure of the bidder to sign the bid or have the signature of an authorized representative or agent on the bid proposal in the space provided will be cause for rejection of the bid. Signature must be written in ink. Typewritten or printed signatures will not be acceptable.
30. Any bidder may withdraw his/her bid at any time before the time set for the opening of the bids. No bid may be withdrawn in the thirty (30) day period after bids are opened.

31. It is mutually understood and agreed that if at any time the Purchasing Department or designee shall be of the opinion that the contract or any part thereof is unnecessarily delayed or that the rate of progress or delivery is unsatisfactory, or that the contractor is willfully violating any of the conditions or covenants of the agreement, or executing the same in bad faith, the Purchasing Department or his designee shall have the power to notify the aforesaid contractor of the nature of the complaint. Notification shall constitute delivery of notice, or letter to address given in the proposal. If after three (3) working days of notification the conditions are not corrected to the satisfaction of the Purchasing Director, he/she shall thereupon have the power to take whatever action deemed necessary to complete the work or delivery herein described, or any part thereof, and the expense thereof, so charged, shall be deducted from any paid by the County out of such monies as may become due to the said contractor, under and by virtue of this agreement. In case such expense shall exceed the last said sum, then and in that event, the bondsman or the contractor, his executors, administrators, successors, or assigns, shall pay the amounts of such excess to the County on notice made by the Purchasing Department or designee of the excess due.
32. If the bidder proposes to furnish any item of foreign make or product, he/she shall write "foreign" together with the name of the originating country opposite such item on a proposal.
33. Any complaint from bidders relative to the invitation to bid or attached specifications shall be made prior to the time of opening bids; otherwise, the bidder waives any such complaint.
34. Contracts may be cancelled by the County with or without cause on thirty (30) days advance written notice.
35. All contractors submitting bids for road projects in excess of \$150,000 must be pre-qualified with the Florida Department of Transportation and shall provide proof of such qualification upon request.
36. Any bidder affected adversely by an intended decision with respect to the award of any bid, shall file with the Purchasing Department for Columbia County, a written notice of intent to file a protest not later than seventy-two (72) hours (excluding Saturdays, Sundays and legal holidays), after the posting of the bid tabulation. Protest procedures may be obtained in the Purchasing Department.
37. A person or affiliate who has been placed on the convicted vendor's list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to Columbia County, may not submit a bid on a contract with Columbia County for the construction or repair of a public building or public work, may not submit bids on leases of real property to Columbia County, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with Columbia County, and may not transact business with Columbia County for a period of 36 months from the date of being placed on the convicted vendor list.

38. Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;
 - A. all persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
 - B. all persons, including subcontractors, assigned by the Vendor/Contractor to perform work pursuant to the contract with the County.
39. Contractor shall register online at <http://www.columbiacountyfla.com/PurchasingBids.asp> for this specific project. All addendums are delivered via email through this website, and it is the contractor's responsibility to ensure all addendums are used in the bid submittal.
40. Any existing materials demolished within County right of way may be retained by Columbia County.

SCOPE OF WORK

The County is soliciting bids for renovations to the Columbia County Women's Club. This renovation is extensive. The work includes, but are not limited to, electrical, HVAC, flooring, and paint.

MAIN AREA

1. Remove wood trim
2. Recess electrical conduit (existing) against block wall
3. Install 5/8" sheetrock over existing paneling with orange peel textured finish and paint
4. Install 1/4" bead board wainscot over finished drywall with cap molding 40" from floor (natural stain finish)
5. Install acoustical ceiling at appropriate height using specified material
6. Remove ceiling fans and replace lights with LED light fixtures
7. Make necessary modifications and trim existing doors accordingly
8. Repaint bathrooms on south end of bldg.
9. Replace doors going into kitchen and bathrooms
10. Replace door to storage room
11. Install additional outlets on south end of bldg. (2)
12. Install 4" vinyl cove base

STAGE AREA

1. Remove existing texture on ceiling, repair and repaint.
2. If possible, construct false beam at transition
3. Install and finish drywall over paneling
4. Remove existing paneling on stage front and replace with new wainscot material
5. Hall bathroom; remove existing fixtures and repair floor and paint with specified floor paint
6. Replace flooring with specified floor covering
7. Replace existing light fixture with new LED fixture

KITCHEN

1. Replace cabinets and counter tops with solid wood product
2. Replace flooring with specified product
3. Repair and paint walls and ceiling
4. Replace door from stage end (slab only)
5. Replace light fixtures with LED fixtures
6. Remove existing shelving

MAIN OFFICE

1. Repair and paint walls
2. Replace fixtures and paint bathroom
3. Replace A/C unit

HALLWAY

1. Repair exterior door
2. Replace toilet in hall bathroom

NOTES

1. **Electrical**
 - a. Replace all receptacles, switches and covers
2. **Lighting**
 - a. TamLite LED Tube wrap around 4ft or 2ft or similar product
 - b. Topaz LED flat panels F-L24/45/CTS/D/BL or similar product
3. **Acoustical Ceiling**
 - a. White, Armstrong #1729 2x4 Hi-Humid tile
4. **Flooring**
 - a. Minimum 20 year residential 10 year commercial vinyl plank flooring
5. **HVAC**
 - a. Reseal duct work on package unit outside
 - b. Extend supply duct in main area to acoustical ceiling and install new supply grills
 - c. Replace wall A/C unit in Office
6. **Cabinets**
 - a. All cabinets to be solid wood material (not particle board) and tops to be laminate with rolled edges and backsplash
7. **Floor Paint**
 - a. SW ArmorSeal Heavy Duty Floor Coatings (gray)
 - b. Other paint colors to be selected at a later date

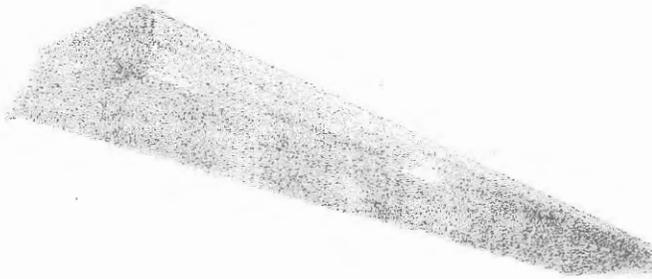
DEVAN

20-Year Residential / 10-Year Light Commercial Wear Limited Warranty
6" x 36" x .080" (8mil wl) • 152.4mm x 914.4mm x 2.0mm (0.20mm wl)
18 pieces per carton • 27 ft.²/carton • 2.51 m²/carton • 108 cartons per pallet
Square Edge

SURFACE

[Home \(index.php\) \ Surface \(index.php?v=cat|A|3\)](#)

[Return to Product Listing \(index.php?v=cat|A|3\)](#)



LED Tube WLSLED Wraparound 4'

LED Wraparound | Series: WLSLEDT |
WLSLEDT4-18D2L840

The WLSLEDT wraparound's clean and shallow fixture design makes it ideal for general illumination of areas such as hallways/corridors, commercial, education and office buildings. The LEDT Series offered by Tamlite Fluorescent are designed and UL listed to work with LED tubes. They have been converted to allow for 4ft 18 Watt and 2ft 9 Watt Direct Bypass LED Tubes. The LEDT Series is designed to reduce contractor installation time by adding the tubes at the factory while still keeping the UL Listing of the fixture.



[INTERACTIVE SPEC SHEET \(/SPEC_SHEETS/WLSLEDT-26\)](#)

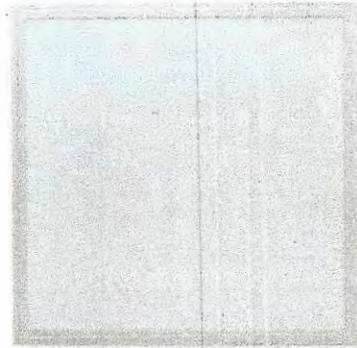
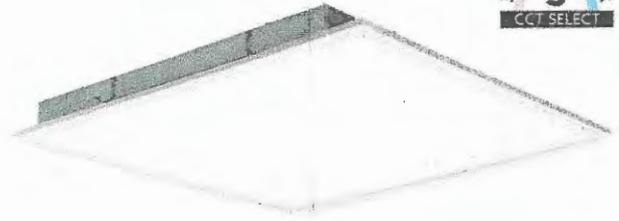
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4 bulb light. WLS Led T4 D4
2 bulb light. WLS led T4 D2



F-L24/45/CTS/D/BL

LED Flat Panels CCT SELECTABLE



Three Color Temperatures, One Low-Profile Panel

Topaz's successful line of flat panel luminaires now includes CCT selectable models for even more versatile applications. These luminaires are lighter weight and offer improved light distribution while maintaining the highest reliability and performance. Featuring a low-profile design, these panels are rated for insulated and non-insulated ceiling applications and are ideal for both new and remodel projects. Precision optics provide uniform light distribution and glare-free conditions for offices, healthcare facilities, and other commercial applications. With a 50,000 hour functional life, these fixtures are a low maintenance way to save labor and utility costs.

FEATURES

- 3 CCT Selectable switch: 3500K, 4000K and 5000K
- Low profile design, lightweight construction and easy to install
- Precision optics for even and smooth light distribution
- White frame, steel housing, PMMA optical lens
- T-grid drop ceiling, suspension, and surface mount
- For use in insulated ceilings and non-insulated ceilings
- Up to 25% lighter than traditional fixtures
- High efficacy, up to 130 LPW

SUGGESTED APPLICATIONS

- New construction or remodeling of commercial facilities
- Offices, healthcare facilities, institutions and commercial applications





Job Name/Title: F-L24/45/CTS/D/BL Catalog Number _____
 Contractor: _____ Notes: _____

LED Flat Panels
CCT SELECTABLE

GENERAL SPECIFICATIONS

Input Voltage, Frequency Hz: 120-277V, 50/60Hz
Power Factor / THD %: 0.9, <20%
Dimmable: Dimming range 100% to 10% with 0-10V dimmer¹
Surge Protection Rating: L-N: 1kV; L-G: 2kV
CR: 80

Functional Life (L70): 50,000 hours
Location Rating: Damp
Ambient Operating Temperature: -10°F to 110°F
IC Rated
Mounting Options: T-grid drop ceiling, suspension, and surface mount

ITEM SPECIFICATIONS / ORDER INFO

Catalog Number	Order Code	UPC	Lumens	Watts	Input Amps	CCT	Beam Angle	DLC ID
F-L14/30/CTS/D/BL-86	74325	751338035126	3,300	30W	0.247A	3500K 4000K 5000K	120°	PLRS0B67K7P7 ²
F-L22/35/CTS/D/BL-86	74326	751338035133	4,550	35W	0.306A	3500K 4000K 5000K	120°	PLOBVZ7AR8C8
F-L24/45/CTS/D/BL-86	74327	751338035140	5,850	45W	0.365A	3500K 4000K 5000K	120°	PL8GUWX926SJ

* →

NOMENCLATURE

Example: **F-L22/35/CTS/D/BL-86**
F-L = Fixture LED / **22** = 2' x 2' Panel Size / **30** = 30 Watts / **CTS / D** = Dimmable / **BL** = Backlit
24 = 2' x 4' Panel Size / **35** = 35 Watts / **CTS** = 3500K | 4000K | 5000K
45 = 45 Watts

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Order Code	UPC	Description
F-L14/FRAME-87	70279	751338035454	1' x 4' Surface Mount Frame Kit
F-L22/FRAME-87	70280	751338035461	2' x 2' Surface Mount Frame Kit
F-L24/FRAME-87	70281	751338035478	2' x 4' Surface Mount Frame Kit
F-L14/FLANGE-87	70276	751338035416	1' x 4' Sheetrock Flange Kit
F-L22/FLANGE-87	70277	751338035423	2' x 2' Sheetrock Flange Kit
F-L24/FLANGE-87	70278	751338035447	2' x 4' Sheetrock Flange Kit
F-L22/CABLE/BL-87	70282	751338036017	2' x 2' Suspended Mount Cable Kit
F-L24/CABLE/BL-87	70283	751338036031	1' x 4', 2' x 4' Suspended Mount Cable Kit

ENERGY SAVINGS

Catalog Number	LED Watts	Fluorescent Replacement Watts	Watts Saved	Yearly Savings	5 Year Savings
Based on 12 hours/day and .11¢/kwhr					
F-L14/30/CTS/D/BL-86	30W	2X 32W T8	30W	\$14	\$72
F-L22/35/CTS/D/BL-86	35W	3X 32W T8	55W	\$26	\$132
F-L24/45/CTS/D/BL-86	45W	3X 32W T8	45W	\$22	\$108

NOTES:

¹ Dimming with standard 0-10V control system or wall dimmers such as Leviton IP710, DS710 or Lutron DVSTV. Dimming complies with IEC60929 Annex E, fixture may not be compatible with all dimmers. Visit www.topaz-usa.com for up-to-date dimmer compatibility information.

² 1' x 4' Panel is DLC standard listed.

Specifications subject to change without prior notice. Replacement wattage shown depends on application and fixture.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING: Some products included in this specification sheet may be subject to the warning requirements of California's Proposition 65. Please refer to your product packaging for more information.
 January 2020



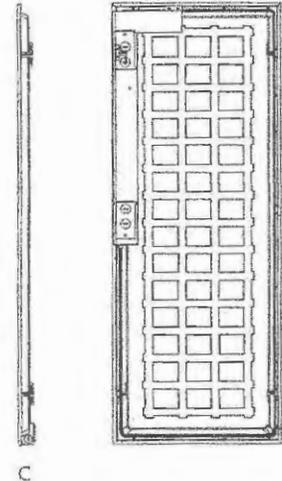
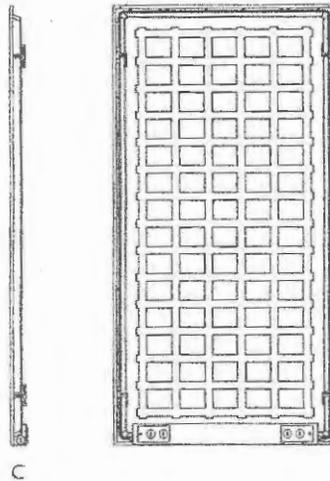
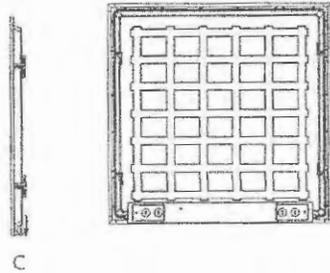
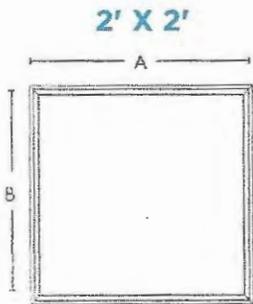
Job Name/Title: _____ Catalog Number _____

Contractor: _____ Notes: _____

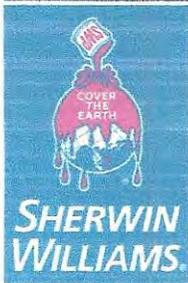
LED Flat Panels
CCT SELECTABLE

PRODUCT DIMENSIONS / LINE DRAWINGS

Catalog Number	Length (A)	Width (B)	Depth (C)	Weight
F-L14/30/CTS/D/BL-86	11.9"	47.8"	1.6"	5.0 Lbs.
F-L22/35/CTS/D/BL-86	23.7"	23.7"	1.5"	4.9 Lbs.
F-L24/45/CTS/D/BL-86	23.7"	47.7"	1.5"	8.6 Lbs.



January 2020



ArmorSeal
Heavy
Duty Floor
Coatings

100% ACRYLIC WATER BASED FLOOR COATING

ARMORSEAL®
TREAD-PLEX™

B90 SERIES

Revised: August 12, 2019

PRODUCT INFORMATION

8.12

PRODUCT DESCRIPTION

ARMORSEAL TREAD-PLEX is a general purpose, interior/exterior, 100% acrylic, low odor, waterborne floor coating. This dries rapidly to a tough, alkali resistant finish which will withstand hard wear, abrasion, grease, oils, and cleaning equipment.

- One component
- Fast dry
- Slip resistant properties
- Abrasion resistant
- Outstanding application properties
- Water clean up

PRODUCT CHARACTERISTICS

Finish:	Semi-Gloss
Color:	Wide variety of colors available
Volume Solids:	43% ± 2%, may vary by color
Weight Solids:	55% ± 2%, may vary by color
VOC (EPA Method 24):	<100 g/L; .83 lb/gal

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	3.5 (88)	4.5 (112)
Dry mils (microns)	1.5 (40)	2.0 (50)
~Coverage sq ft/gal (m²/L)	345 (8.4)	460 (11.3)
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	688 (16.8)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 4.0 mils wet (100 microns):

	@ 55°F/13°C	@ 77°F/25°C	@ 100°F/38°C
		50% RH	
To touch:	45 minutes	30 minutes	10 minutes
To recoat:	6 hours	4 hours	30 minutes
Foot traffic:	18 hours	8 hours	1 hour
Heavy traffic:	24 hours	18 hours	6 hours
To cure:	7 days	7 days	7 days

Drying time is temperature, humidity, and film thickness dependent.

Shelf Life:	24 months, unopened Store indoors at 50°F (10°C) to 100°F (38°C)
Flash Point:	>200°F (93°C), PMCC
Reducer/Clean Up:	Water

RECOMMENDED USES

For use over prepared concrete and wood floors, steps, stairwells, aisleways, or previously painted floor surfaces in sound condition.

- Laboratories
- Light assembly and production areas
- Hospitals
- Industrial/commercial office areas
- Helipads
- Not recommended for areas subject to hot tire pickup
- Meets ADA requirements for Slip Resistance for floors
- Suitable for use in USDA inspected facilities

PERFORMANCE CHARACTERISTICS

Substrate*: Concrete

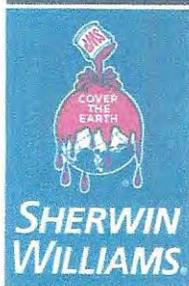
Surface Preparation*: Clean, dry, sound

System Tested*:

2 cts: ArmorSeal Tread-Plex @ 4.0 mils (100 microns) dft
 *unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	No more than 37 mg loss
Adhesion	ASTM D4541; ASTM D3359	702 psi (ASTM D4541); 5A (ASTM D3359)
Direct Impact Resistance, on steel	ASTM D2794	30 in. lb.
Dry Heat Resistance	ASTM D2485	150°F (66°C), intermittent at 200°F (93°C)
Flexibility	ASTM D522, 180° bend, 1/8" mandrel	Passes
Humidity Resistance	ASTM D4585, 500 hours	Rating 10 per ASTM D714 for blistering
Pencil Hardness	ASTM D3363	F
Scrub Resistance (3 mils dft)	ASTM D2486, Section 8	Passes 1000 cycles minimum
Slip Resistance, Floors	ASTM C1028**, .60 Minimum Static Coefficient of Friction	Passes wet and dry, with and without SharkGrip Additive
Wet Adhesion (one coat @ 2.0 mils dft)	TT-P-1511A, 6000 cycles	Passes

**Test method withdrawn in 2014 without replacement



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100% ACRYLIC WATER BASED FLOOR COATING

ARMORSEAL®
TREAD-PLEX™

B90 SERIES

Revised: August 12, 2019

APPLICATION BULLETIN

8.12

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly with low speed power agitation prior to use. Avoid vigorous agitation. Make certain no pigment remains on bottom of can.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	3.5 (88)	4.5 (112)
Dry mils (microns)	1.5 (40)	2.0 (50)
~Coverage sq ft/gal (m ² /L)	345 (8.4)	460 (11.3)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	688 (16.8)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 4.0 mils wet (100 microns):

	@ 55°F/13°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	45 minutes	30 minutes	10 minutes
To recoat:	6 hours	4 hours	30 minutes
Foot traffic:	18 hours	8 hours	1 hour
Heavy traffic:	24 hours	18 hours	6 hours
To cure:	7 days	7 days	7 days

Drying time is temperature, humidity, and film thickness dependent.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

PERFORMANCE TIPS

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

This product is not slip resistant where moisture, water, grease, or other liquids may be present.

Anti-slip additives, such as H&C SharkGrip®, may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish.

Refer to Product Information sheet for additional performance characteristics and properties.

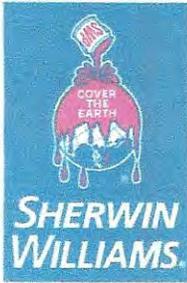
SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



ArmorSeal
Heavy
Duty Floor
Coatings

100% ACRYLIC WATER BASED FLOOR COATING

ARMORSEAL®
TREAD-PLEX™

B90 SERIES

Revised: August 12, 2019

APPLICATION BULLETIN

8.12

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Do not use hydrocarbon solvent for cleaning.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

Follow the standard methods listed below when applicable:

- ASTM D4258 Standard Practice for Cleaning Concrete.
- ASTM D4259 Standard Practice for Abrading Concrete.
- ASTM D4260 Standard Practice for Etching Concrete.
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
- SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
- ICRI No. 310.2R Concrete Surface Preparation.

Wood

Surface must be clean, dry and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile. Prime with recommended primer and paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

Previously Painted Surfaces

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE
White Metal	Sa 3	SP 5	1
Near White Metal	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	SP 2	-
Pitted & Rusted	D St 2	SP 3	-
Rusted	C St 3	SP 3	-
Power Tool Cleaning	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum
 (air, surface, and material)
 At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean UpWater

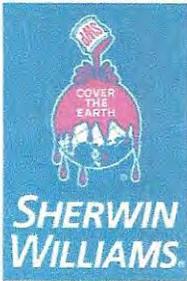
Brush

Brush.....Nylon/Polyester
 Reduction.....As needed up to 6% by volume

Roller

Cover 1/4"-3/8" woven with solvent resistant core
 Reduction.....As needed up to 6% by volume

If specific application equipment is not listed above, equivalent equipment may be substituted.



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PRODUCT INFORMATION

8.12

RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
Concrete Floors:		
2 cts. ArmorSeal Tread-Plex	1.5-2.0	(40-50)
Wood Floors:		
2 cts. ArmorSeal Tread-Plex	1.5-2.0	(40-50)
Previously Painted Floors in Sound Condition:		
1-2 cts. ArmorSeal Tread-Plex	1.5-2.0	(40-50)

The systems listed above are representative of the product's use, other systems may be appropriate.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:
 Concrete Floors: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3

Wood Floors: Clean, smooth, dust free

Do not use hydrocarbon solvents for cleaning

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE
White Metal	Sa 3	SP 5	1
Near White Metal	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted Pitted & Rusted	SP 2 SP 2	- -
Power Tool Cleaning	Rusted Pitted & Rusted	SP 3 SP 3	- -

TINTING

Do not tint package colors. Pastel and Ultradeep bases tint at 100% strength with EnviroToner, BAC, or CCE. Better performance will be achieved with Envirotoners. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum (air, surface, and material)
 At least 5°F (2.8°C) above dew point
 Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging: 1 gallon (3.78L) and 5 gallon (18.9L) containers
 Weight: 10.7 ± 0.2 lb/gal ; 1.3 Kg/L, may vary by color

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DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.



RES

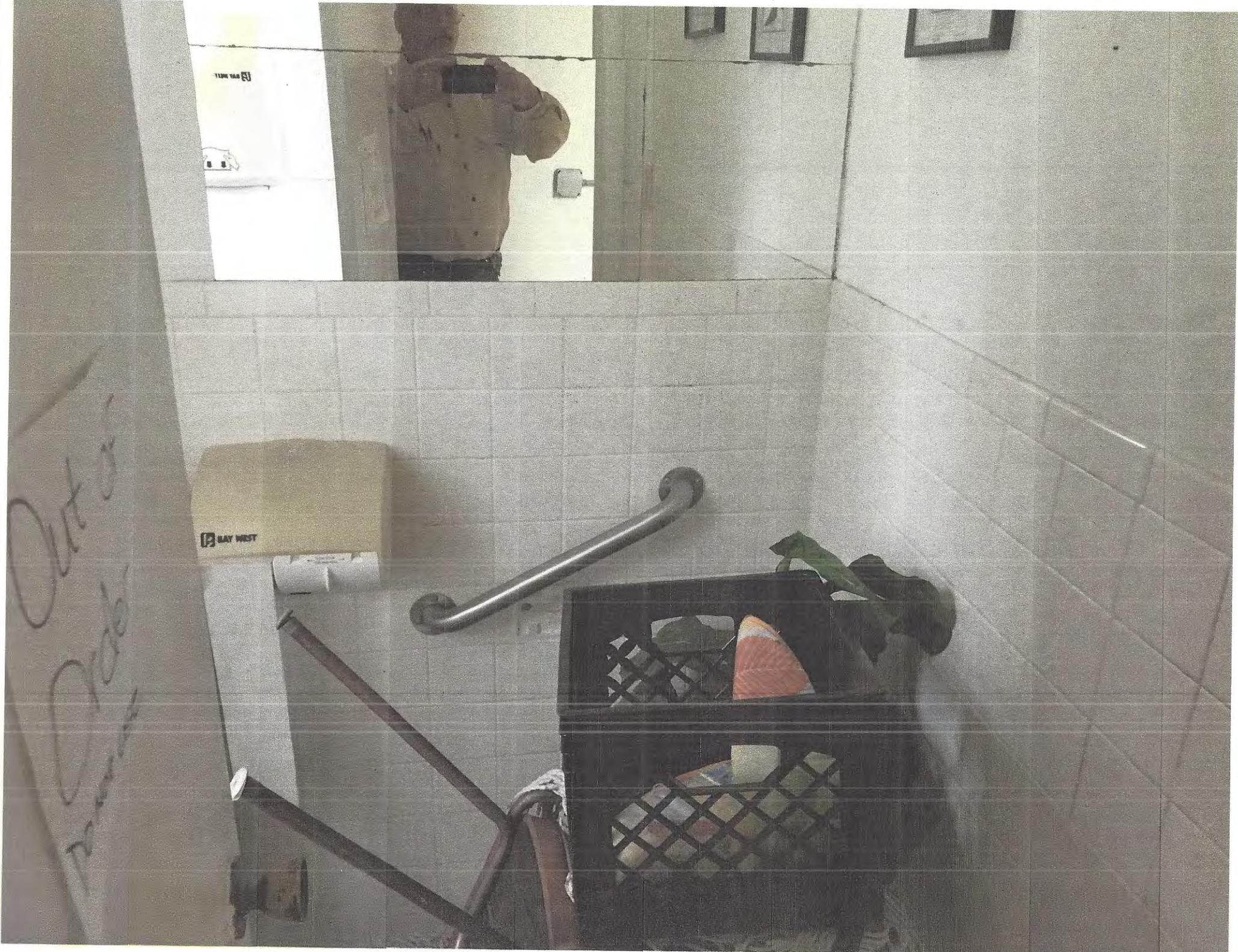












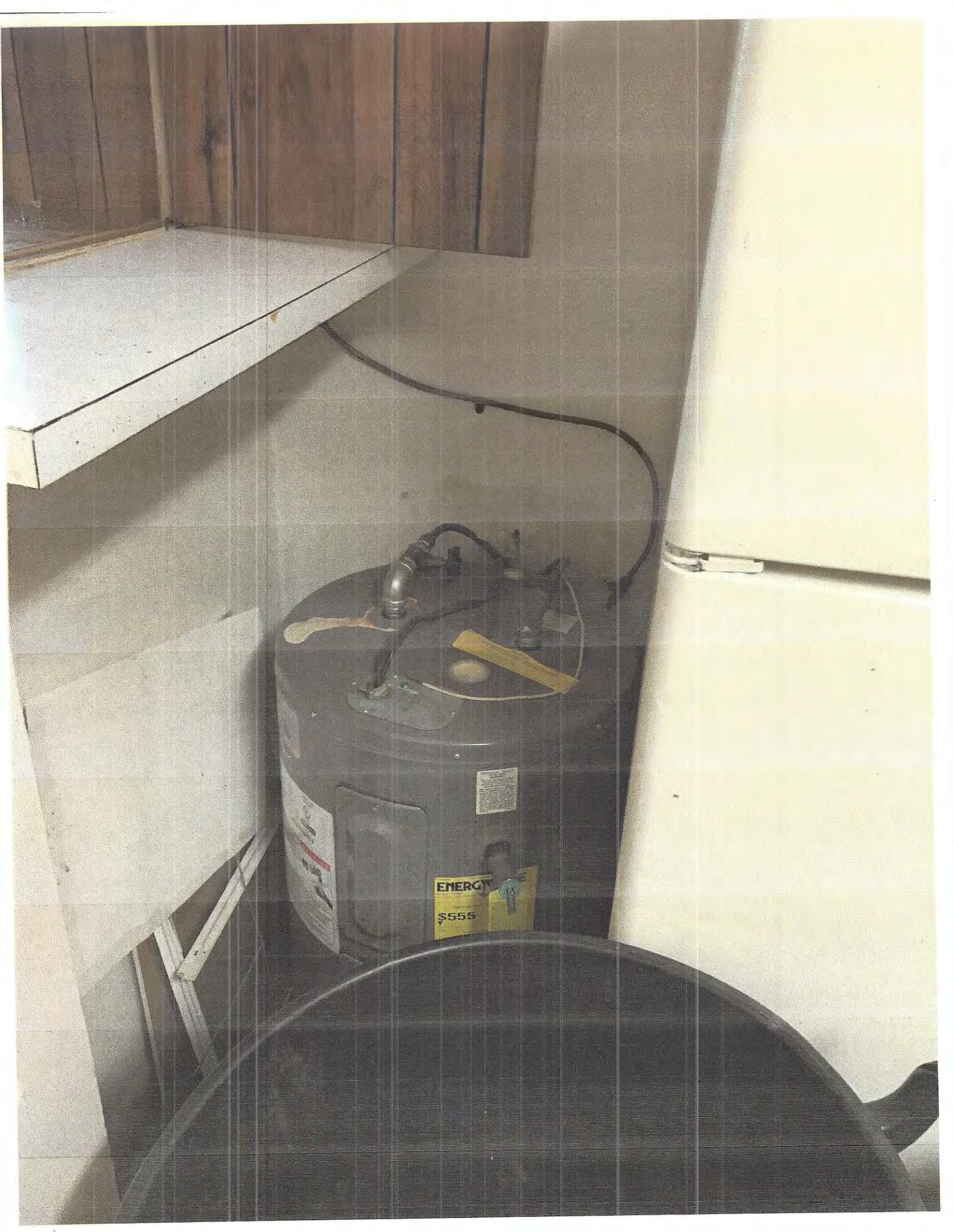
Out of Order
Maintenance

RAY WEST

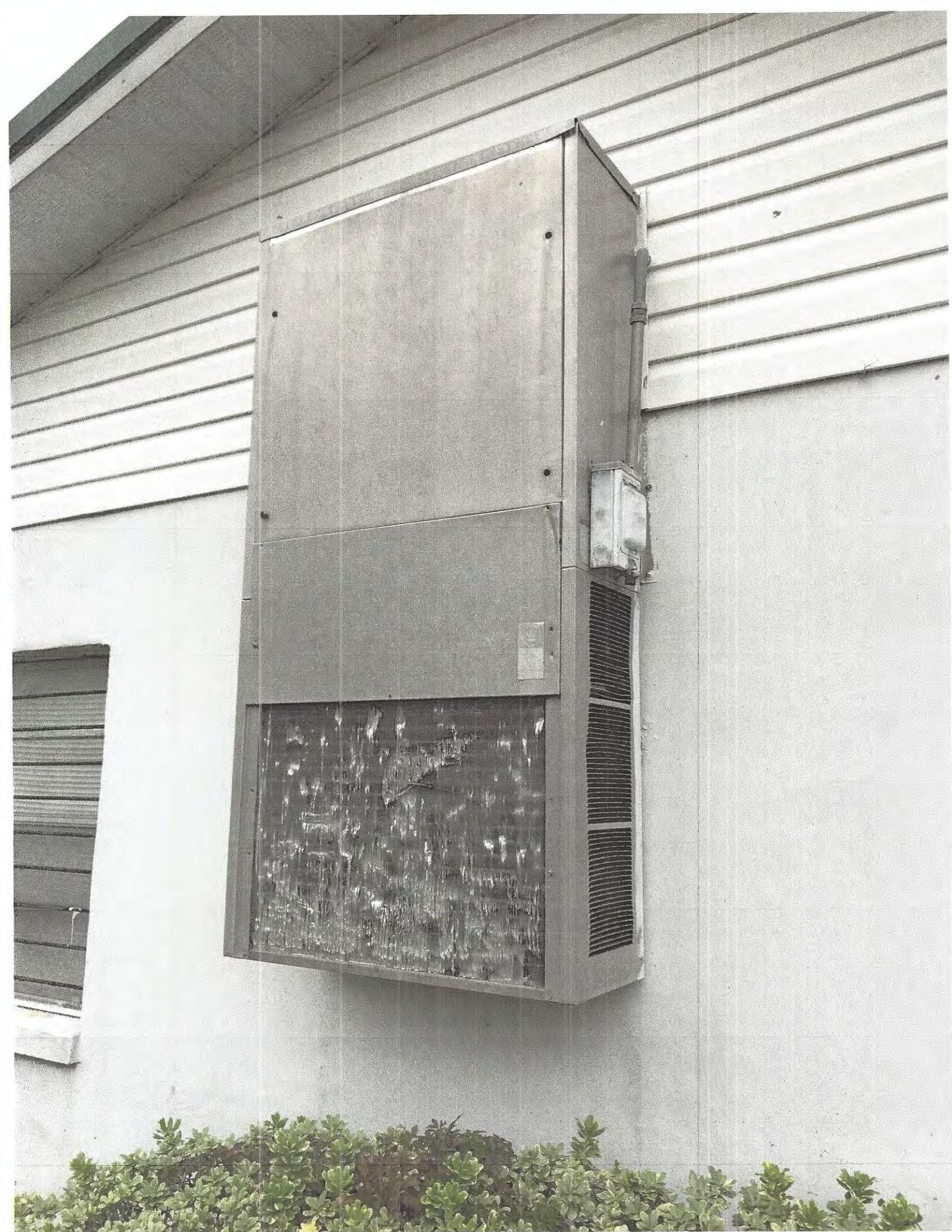
RAY WEST







ENERGY
\$555



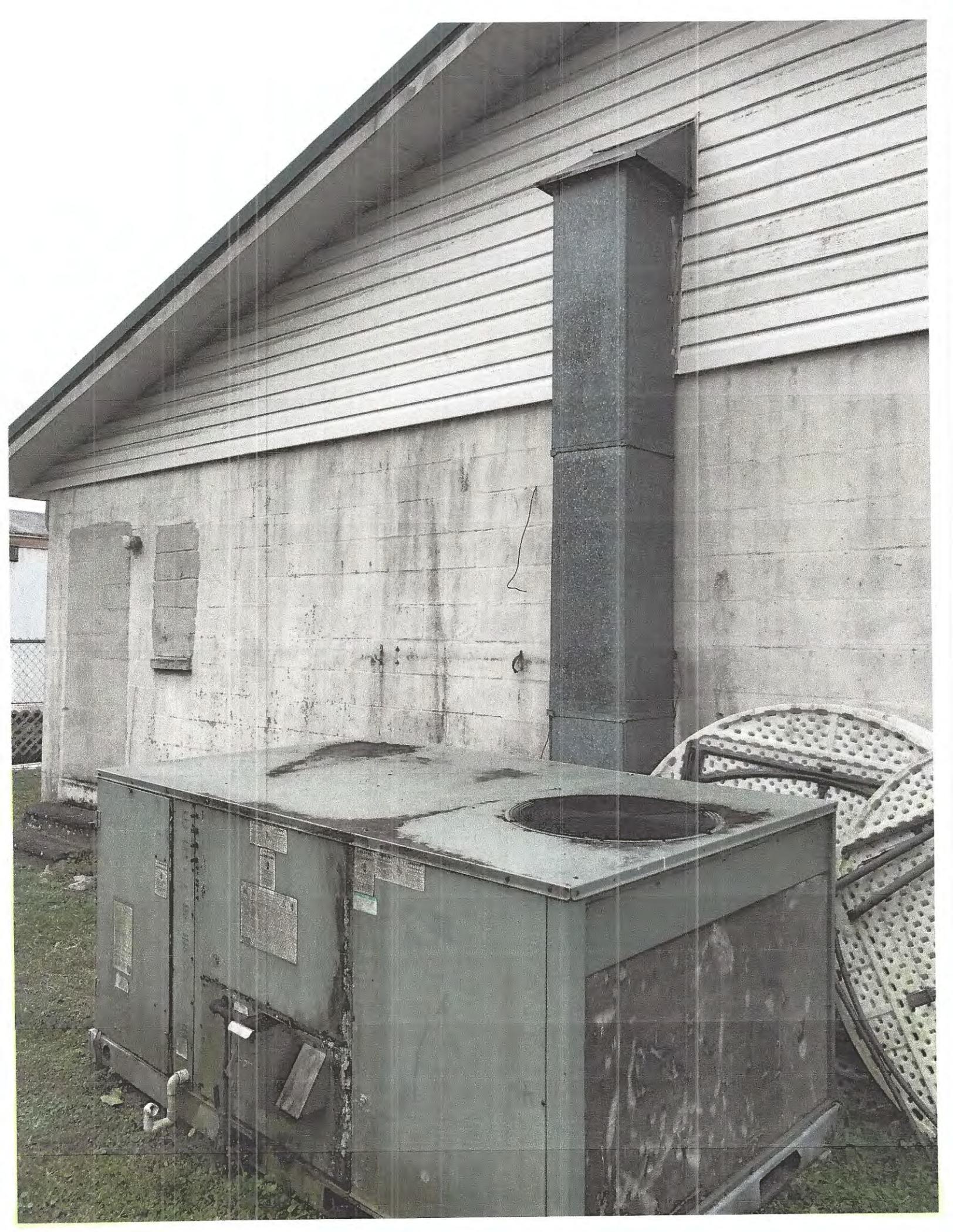


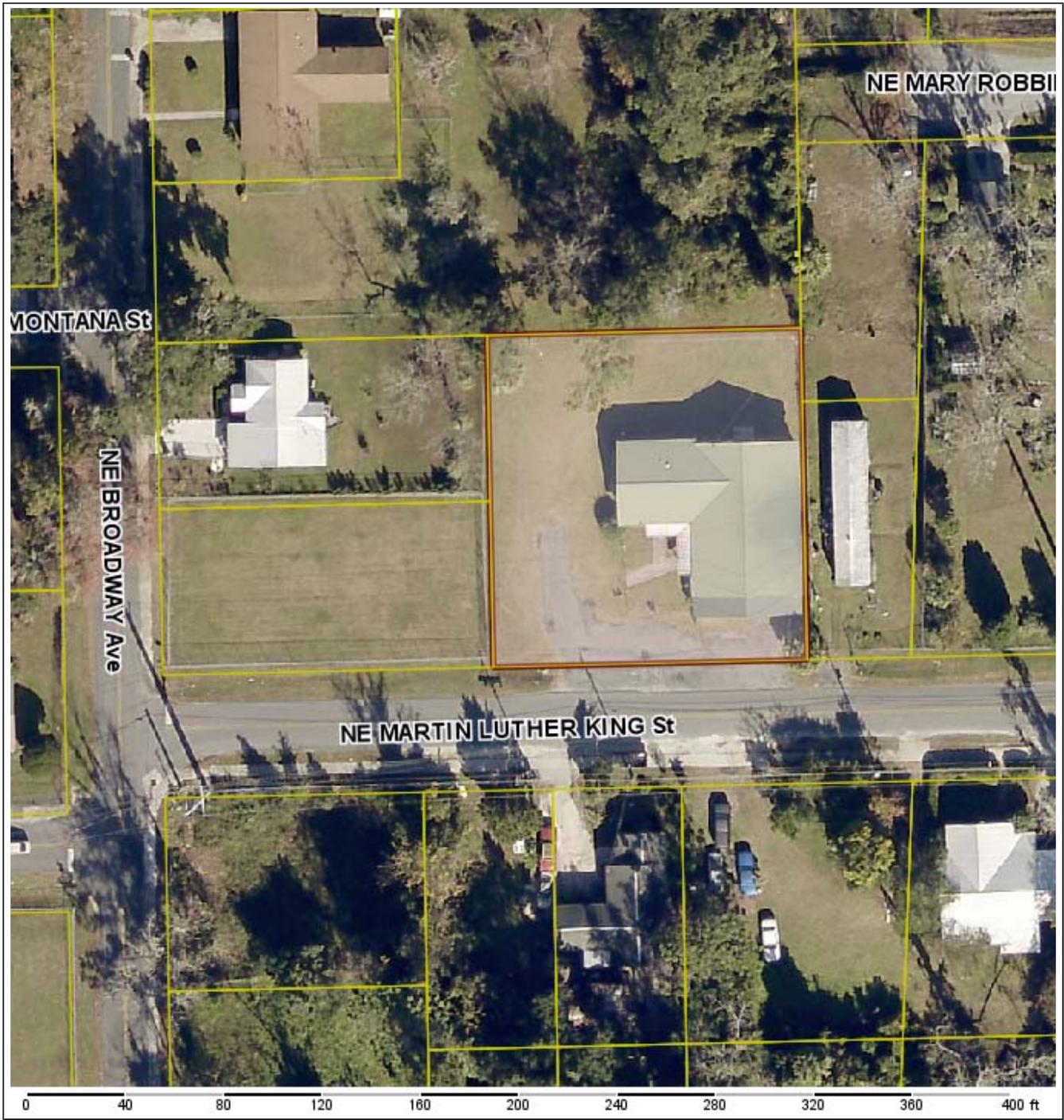












BID FORM

Bids must be received in the Office of the Board of County Commissioners, Columbia County, 135 NE Hernando Avenue, Room 203, Lake City, FL, 32055 no later than 2:00 P.M., on May 19, 2020. Columbia County reserves the right to reject any and/or all bids and to accept the bid in the county's best interest, bid F.O.B., Columbia County, Florida.

Total Bid Price \$ _____

I certify that this bid meets or exceeds the County specifications and that the undersigned bidder declares that I have carefully examined the specifications, term and conditions of this bid, and I am thoroughly familiar with its provisions. The undersigned bidder further declares that he/she has not divulged, discussed or compared his bid with any other bidders and has not colluded with any other bidders or parties to a bid whatsoever for any fraudulent purpose.

COMPANY: _____ DATE: _____

ADDRESS: _____

PHONE NO: _____

EMAIL: _____

SIGNATURE: _____

PRINT NAME/TITLE: _____