



MANATEE COUNTY

March 15, 2011

All Interested Bidders:

SUBJECT: IFB #11-0579-OV / Downtown Bradenton Transit Station
Location: 601 13th Street West, Bradenton, FL
(Manatee County)

ADDENDUM #2

Bidders are hereby notified that this Addendum shall be acknowledged on page 00300-1 of the attached Revised Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

Bidders Note: Additional questions shall not be accepted at this time as the stated deadline of **March 4, 2011** has lapsed. This deadline has been established to maintain fair treatment of all potential bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve.

Bid Opening date has been revised as follows:

Bid Opening date has been Revised:

From: March 17, 2011 at 2:00 PM

To: March 23, 2011 at 2:00 PM

Location: Manatee County Administration Building, 1112 Manatee Avenue West, Suite 803, Purchasing Division, Bradenton, FL 34205.

Attachments:

- SchenkelShultz Architecture memorandum dated March 15, 2011 responding to contractors questions received via email through March 4, 2011. **76 PDF attachments are made a part of this Addendum No. 2**

Financial Management Department – Purchasing Division
1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205
Phone: 941-749-3055 – Fax: 941-743-3034
www.myanatee.org

LARRY BUSTLE * MICHAEL GALLEN * JOHN R. CHAPPIE * ROBIN DISABATINO * DONNA G. HAYES * CAROL WHITMORE * JOE McCLASH
District 1 District 2 District 3 District 4 District 5 District 6 District 7

March 15, 2011
IFB #11-0579-OV / Downtown Bradenton Transit Station
Location: 601 13th Street West, Bradenton, FL (Manatee County)
Addendum #2
Page 2

Bidders Note:

- Revised Bid Forms – Pages 00300-1 through 00300-5 (Bid A and Bid B)
(Including Subcontractor's Bid Forms Bid A and Bid B) (5 Total Pages)

Bids shall be submitted on the attached revised Bid Forms noted as Addendum No. 2. Bidders must fully complete all pages of the Bid Forms for both Bid A and Bid B, Subcontractor's Bid A, and Subcontractor's Bid B. Bid Forms must be executed by an authorized signatory who has the legal authority to make the offer and bind the company. Bidders must fully comply with all specifications, terms and conditions.

Question : Which labor rate shall be used for the electricians? There are 2 categories with no clear distinction.

Answer: Reference the Wage Determination General Decision Number: FL100123 dated 10/08/2010 FL 123 which was made a part of the original Invitation for Bid:

State:	Florida
Construction Type:	Building
County:	Manatee County in Florida

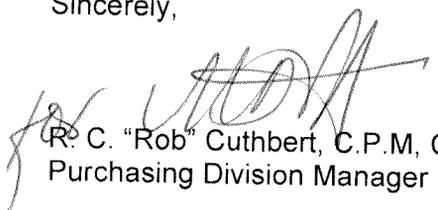
The Electrician Rate of \$22.07 / Fringes: 34%+\$0.22 shall be utilized.

If you have submitted a bid prior to receiving this addendum, you may request in writing that your original, sealed bid be returned to your firm. All sealed bids received will be opened on the date stated.

END OF ADDENDUM #2

Bids will be received at the **Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205** until **2:00 P.M. on March 23, 2011.**

Sincerely,


R. C. "Rob" Cuthbert, C.P.M, CPPO
Purchasing Division Manager

Ov/ Attachments (5 Total Pages)

**BID FORM – IFB #11-0579-OV
SECTION 00300 (Addendum No. 2 / 3/15/2011)**

**For: Downtown Bradenton Transit Station, Manatee County, FL
Location: 601 13th Street West, Bradenton, FL**

TOTAL BID PRICE "A": \$ _____
Based on a Completion Time of <u>300</u> calendar days
TOTAL BID PRICE "B": \$ _____
Based on a Completion Time of <u>270</u> calendar days

Two schedules for Completion of the Work shall be considered. Each bid for completion by the specified stated time shall be offered as a separate "Total Bid Price". The County has the sole authority to select the bid based on the Completion Time which is the best interest of the County. Only one award shall be made.

We, the undersigned, hereby declare that we have carefully reviewed the bid documents, and with full knowledge and understanding of the aforementioned herewith submit this bid, meeting each and every specification, term, and condition contained in the Invitation for Bids.

We understand that the bid technical specifications, terms, and conditions in their entirety shall be made a part of any agreement or contract between Manatee County and the successful bidder. Failure to comply shall result in contract default, whereupon, the defaulting contractor shall be required to pay for any and all re-procurement costs, damages, and attorney fees as incurred by the County.

Communications concerning this Bid shall be addressed as follows:

Person's Name: _____

Address: _____ Phone: _____

Date: _____ FLContractorLicense# _____

Bidder is a WBE/MBE Vendor? _____ Certification _____

COMPANY'S NAME: _____

AUTHORIZED SIGNATURE(S): _____

Name and Title of Above Signer(s) _____

CO. MAILING ADDRESS: _____

STATE OF INCORPORATION _____ (if applicable)

TELEPHONE: () _____ FAX: () _____

Email address: _____

Acknowledge Addendum No. _____ Dated: _____ Acknowledge Addendum No. _____ Dated _____

SIGN AND CONFIRM DATE OF PROJECT VISIT: _____ DATE: _____

BID FORM / Addendum No. 2 (3/15/2011)

(Submit in Triplicate)
SECTION 00300

BID "A"
**Downtown Bradenton Transit Station / 601 13th Street West Bradenton, Manatee
County, FL**

Based on a Completion time of 300 Calendar Days

ITEM NO.	DESCRIPTION	EST. QTY.	U/M	UNIT PRICE	EXTENDED PRICE
1	Mobilization / Demobilization	1	LS	\$	\$
2	Temporary Erosion Control	1	LS	\$	\$
3	Site Work - complete	1	LS	\$	\$
4	Art Wall - Screen	1	LS	\$	\$
5	Landscape and Irrigation	1	LS	\$	\$
6	Building - complete	1	LS	\$	\$
7	Art Allowance	1	LS	\$160,000.00	\$160,000.00
8	Art Allowance Implementation and Associated Cost	1	LS	\$	\$
9	DISCRETIONARY WORK				\$100,000.00
TOTAL PRICE Bid "A" - Based on Completion Time of <u>300</u> Calendar Days					\$

Downtown Bradenton Transit Station / 601 13th Street West, Bradenton, FL

10	Removal / Replacement of Hazardous Material (Addendum No. 2)	6	Cy	\$	\$
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Bidders: Bid No. 10: (Addendum No. 2)*** Hazardous Material Removal/Replacement: Price shall be provided to owner and shall **NOT** be a part of the total bid. This bid item is reserved to be used if any hazardous materials are discovered at the site and need to be mitigated in order to complete the Work per drawings and specifications (**Reference Measurement, Payment and Completion Section which is a part of Addendum No. 2**).

BIDDER: _____

AUTHORIZED
SIGNATURE: _____

Bid "A"
Addendum #2

BID FORM / SUBCONTRACTOR PERCENTAGE

(Submit in Triplicate)

SECTION 00300 (Addendum No. 2 - 3/15/2011)

BID "A"

**Downtown Bradenton Transit Station / 601 13th Street West Bradenton,
Manatee County, FL**

Based on a Completion time of 300 Calendar Days

ITEM NO.	DESCRIPTION	SUBCONTRACTOR		DESCRIPTION OF WORK BY SUBCONTRACTOR
		%	MBE/WBE	
1	Mobilization / Demobilization			
2	Temporary Erosion Control			
3	Site Work - complete			
4	Art Wall - Screen			
5	Landscape and Irrigation			
6	Building - complete			

This is a duplication of the bid items where the Bidder shall state the percentage of work (of each item listed) and a description of the work which shall be performed by a subcontractor.

	Removal of Hazardous Material			
<p>Bidders: Hazardous Material Removal: Price shall be provided to owner and shall NOT be a part of the total bid. This bid item is reserved to be used if any hazardous materials are discovered at the site and need to be mitigated in order to complete the Work per drawings and specifications (Reference Measurement, Payment and Completion in Specifications Section).</p>				

BIDDER: _____

AUTHORIZED
SIGNATURE: _____

Bid "A"
Addendum #2

00300-3

BID FORM / Addendum No. 2 (3/15/2011)

(Submit in Triplicate)
SECTION 00300

BID "B"

**Downtown Bradenton Transit Station / 601 13th Street West Bradenton, Manatee
County, FL**

Based on a Completion time of 270 Calendar Days

ITEM NO.	DESCRIPTION	EST. QTY.	U/M	UNIT PRICE	EXTENDED PRICE
1	Mobilization / Demobilization	1	LS	\$	\$
2	Temporary Erosion Control	1	LS	\$	\$
3	Site Work - complete	1	LS	\$	\$
4	Art Wall - Screen	1	LS	\$	\$
5	Landscape and Irrigation	1	LS	\$	\$
6	Building - complete	1	LS	\$	\$
7	Art Allowance	1	LS	\$160,000.00	\$160,000.00
8	Art Allowance Implementation and Associated Cost	1	LS	\$	\$
9	DISCRETIONARY WORK				\$100,000.00
TOTAL PRICE Bid "B" - Based on Completion Time of 270 Calendar Days					\$
Downtown Bradenton Transit Station / 601 13th Street West, Bradenton, FL					
10	Removal / Replacement of Hazardous Material (Addendum No. 2)	6	Cy	\$	\$

Bidders: Bid No. 10: (Addendum No. 2)*** Hazardous Material Removal/Replacement: Price shall be provided to owner and shall **NOT** be a part of the total bid. This bid item is reserved to be used if any hazardous materials are discovered at the site and need to be mitigated in order to complete the Work per drawings and specifications (Reference Measurement, Payment and Completion Section which is a Part of Addendum No. 2).

BIDDER: _____

AUTHORIZED
SIGNATURE: _____

Bid "B"
Addendum #2

00300-4

BID FORM / SUBCONTRACTOR PERCENTAGE

(Submit in Triplicate)

SECTION 00300 (Addendum No. 2 - 3/15/2011)

BID "B"

**Downtown Bradenton Transit Station / 601 13th Street West Bradenton,
Manatee County, FL**

Based on a Completion time of 270 Calendar Days

ITEM NO.	DESCRIPTION	SUBCONTRACTOR		DESCRIPTION OF WORK BY SUBCONTRACTOR
		%	MBE/WBE	
1	Mobilization / Demobilization			
2	Temporary Erosion Control			
3	Site Work - complete			
4	Art Wall - Screen			
5	Landscape and Irrigation			
6	Building - complete			

This is a duplication of the bid items where the Bidder shall state the percentage of work (of each item listed) and a description of the work which shall be performed by a subcontractor.

	Removal of Hazardous Material			
<p>Bidders: Hazardous Material Removal: Price shall be provided to owner and shall NOT be a part of the total bid. This bid item is reserved to be used if any hazardous materials are discovered at the site and need to be mitigated in order to complete the Work per drawings and specifications (Reference Measurement, Payment and Completion in Specifications Section).</p>				

BIDDER: _____

AUTHORIZED
SIGNATURE: _____

Bid "B"
Addendum #2

00300-5

PROJECT NAME: DOWNTOWN BRADENTON TRANSIT STATION

Manatee County

ADDENDUM NUMBER 2

Date of Issue: March 15, 2011

Bidders are hereby notified that this Addendum shall be acknowledged on the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete. The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

Attachments:

- Request for Substitutions (attachment 1, 2, 3, 4, 5, 6, 7, 8, and 9)
- Buy America Form.
- Lobbying Form.
- Revised Structural sheets S-2.1, S-3.1, and S-5.1.
- Interior Signage Plan.
- Suspension and Debarment Form.
- Disadvantage Business Enterprise Description.
- Revised A803.
- Revised specification sections 09 91 00 PAINTING and 00 80 00 MEASURE PAYMENT AND COMPLETION.

Request for Substitutions:

- All Steel Consultants Inc. - ACCEPTED
- GC Graphic Communications – ACCEPTED
- GC Graphic Communications - ACCEPTED
- Mullet's Aluminum Products, Inc. (exterior grating and screen) – ACCEPTED FOR BIDDING (more info req. from manuf. to assure compliance with the original design).
- Magee Sign Services –ACCEPTED
- Mullet's Aluminum Products, Inc. (Aluminum Railing) – NOT ACCEPTED
- Mullet's Aluminum Products, Inc. (Aluminum Walkway Canopy) – NOT ACCEPTED
- Best Rolling Doors - NOT ACCEPTED
- Berridge Manufacturing - NOT ACCEPTED
- Daybar Industries - NOT ACCEPTED

Clarifications:

Clarification 1: Base of Design for the aluminum fence for the median, bike rack, decorative fence next to the art walls, and the pipe art attached to the aluminum grating at the back of the art wall is:

Custom Metal Specialties, Inc.

3921 69th Avenue N

Pinellas Park, FL 33781

(727) 522-3986 Office

(727) 522-3852 Fax

cspecial@tampabay.rr.com

Already specified manufacturers are approved equal.

*Design team feels that adequate information is present on the drawings for accurate bid.

Clarification 2: On Electrical Drawing Sheet E503, Electrical Riser: Feeder label number two should be labeled feeder number one (see Feeder Schedule same sheet)l. Two runs of 250MCM copper conductor are required from the utility point of service to the line side of Panelboard 'A'.

Clarification 3: Please see revised A803 for added detail #8. Detail #8 is a typical rake details at ALL metal roof conditions (high roof at the building, bus shelters, and art walls). This detail does not apply to aluminum roof conditions.

Questions:

Question 1: Confirm that the existing bank drive through lane can be used as access to install the aluminum grating at the back side of the art walls.

Answer: County has reached an agreement with the Bank owner for construction access to the property for the above mentioned construction task. Contractor shall produce a schedule pertaining to the needed access and coordinate that schedule directly with the owner. Owner will coordinate the request with the property management for the Bank property. Contractor shall propose and adhere to a minimal disruption to the adjacent property and shall not damage or disrupt the use of the adjacent property.

Question 2: Provide a section detail showing the dimension for the foundation and roof overhang for the bus shelters, art walls and building in relation to the east R/W Line, since it appears there is insufficient space to build these structures.

Answer: Eastern most wall of the building is 10" west of the R/W line. Eastern face of the art wall cast in place column is 8" west of the R/W line. Eastern most face of the cast in place column of the bus shelters is 14" west of the R/W line. See structural drawings to foundation relationship to the above ground structural elements referenced above in this answer. Building section is B-B/S-1.3, art wall sections is A-A/S-3.1, and bus canopy section is A-A/S-2.1.

Question 3: Confirm that there is no requirement to close off the gable ends of the high roof area above the building. It should be noted that the soffit areas per Detail 2/A711 are enclosed with perforated metal.

Answer: Gable ends of the high roof shall be closed off using the same perforated metal as the soffit. See sections 1 and 2 on A711.

Question 4: Provide clarification for the different shaded patterns for the concrete pavement and walkways shown on Sheets C104, C105, and C112. Per Sheet C104, there are certain areas specifically identified as stamped concrete.

Answer: Please see A011 for the pattern and Specifications for remaining information.

Question 5: Verify the exterior sign requirement for the north pergola, since it appears that there is a sign "Downtown Bradenton Station" on each side as shown per Elevation 4 and 5 on Sheet A601. Should the base bid include two signs for the north pergola?

Answer: Base bid should include only 1 sign for the north pergola (on the north end of the pergola). Drawing 5/A601 should have the sign drawn from the back for reference only. Please price only one sign for the north pergola.

Question 6: Provide attachment details for the aluminum handrail for the benches per 10/A802, since none are shown.

Answer: Attachment shall be made with two (2) 1/4" diameter stainless steel carriage bolts with stainless steel flat washers and stainless steel locknuts with nylon inserts. Aluminum pipe shall have welded, ground smooth, attachment plate at each end of the hand rest pipe with the pre drilled bolt holes. Each attachment plate shall be 1.5" wide, 3" long made out of 1/4" flat bar aluminum (match pipe). Attach in a similar fashion as wood to the metal support of the bench. See 1/A712 for reference.

Question 7: Clarify the glazing requirements for the Transaction Window A1, since Paragraph 2.2(C), Section 085115 specifies 1" polycarbonate, whereas 15/A801 shows 9/16" laminated glass.

Answer: Please use 1" polycarbonate as this system needs to be bullet proof assembly per our specifications.

Question 8: Confirm that the ticket and change machine at Room 1-103 as shown on Sheet A101 is by others.

Answer: Owner shall provide ticket and change machine. Contractor shall install per manufacturer's guidelines and specifications. Please include in Bid Item #6.

Question 9: Provide the finishes for Room 1-103, since they are not shown on Sheet A103.

Answer: Floor shall be sealed concrete per our drawing A301. Walls shall be painted block. Please make sure you price block filler and epoxy paint for the interior cmu walls. See sections 04 22 00 and 09 91 00 for more info.

Question 10: Confirm that no fire extinguishers are required, since none are shown.

Answer: Please provide one wall hung class B fire extinguisher. Provide wall bracket and place on west wall of the data closet (room 1-102A). Include in Bid item #6.

Question 11: Will the owner provide additional off site property near the project for the contractor to use for the office trailer, workman parking, material storage, etc? If so, where is this additional space located in relation to the site? If off site space is not available, confirm that the contractor will not be required to provide the 12' X 40' minimum office trailer, per Paragraph 1.3(B) 1, Section 015000.

Answer: No additional storage or parking space will be provided by the Owner. Contractor can choose to provide a smaller office trailer, minimum size shall be 12'x24'. See addendum No.1 for eliminated requirements for trailer space and accommodations within the trailer for architect and owner representative.

Question 12: Provide additional manufacturers for the site furnishings shown on Sheet A102, since the specified products are not readily available in the United States.

Answer: Please price the site furniture per drawings in order to obtain fair and equivalent bid for all contractors. If owner chooses to value engineer the site furniture and replace with other manufacturer, these adjustments shall be made after the award of the contract. Contractor shall provide a schedule of values listing site furniture as a line item.

Question 13: Verify that the allowance amounts per Bid Item # 7 and Bid Item # 9 include the contractor's bond, and insurance costs, as well as markup.

Answer: Insurance shall be in accordance with Article 14, Insurance. Bonds shall be in accordance with IFB Article 16, Performance and Payment Bonds. Costs of the Insurance and Bonds shall be in accordance with Bid Item No.1, Measurement, Payment and Completion, Section 00 80 00 - 2 of the Specifications. Any markup related to Bid Item No. 7 shall be included in Bid item No. 8, reference Addendum No. 1. Bid Item No. 9, is for Discretionary Work as described in IFB Article D.07, Discretionary Work and Measurement, Payment and Completion, Section 00 80 00-2 of the Specifications.

Question 14: In order to develop an accurate per cubic yard estimate for Bid Item # 10, a more complete description of the hazardous materials that may be discovered must be provided, since the cost can vary greatly depending on the type of contamination and the quantity of the materials to be removed and replace. For example, the cost to remove, dispose of and replace one cubic yard of contaminated soil would be quite large, since all of the expenses associated with mobilization and equipment would have to be included, whereas the cost per cubic yard to remove, dispose of and replace several hundred cubic yards would be significantly less. More importantly, how should the contractor price out the additional on site overhead costs associated with the additional time necessary to remove hazardous material?

Answer: Contractor shall price Class 9 material removal. Contractor shall price 6 cy for material, equipment, time and overhead as well as material replacement. See bid form item #10.

SCHENKELSHULTZ

ARCHITECTURE

Question 15: Confirm that Pest Control (during construction) per Section 017415 and Construction Waste Management per Section 017419 are not applicable, since this is an unusual and expensive requirement for this type of project.

Answer: Both requirements shall be part of the project. Contractor shall provide a line item for each in the schedule of values under Bid item #1.

Question 16: Since the project is located in a downtown urban environment, should the 8' temporary chain link construction fence per Paragraph 1.20, Section 015000 include visual screening?

Answer: Yes.

Question 17: Provide additional information and details for Bid Item # 8 - Art Allowance Implementation and Associated Costs, so the contractors can develop an accurate estimate for the cost of installation related to the art walls. In addition, confirm that all materials related to the art allowance, including fasteners, adhesives, grout, sealers, etc., will be provided by others per Bid Item # 7 and the contractor should not include any material cost in Bid Item # 8.

Answer: For description of bid item #8 please see addendum No.1. Material for installation of the tile art shall be part of the allowance, however, contractor shall price installation cost and all associated equipment/tools required for installation in bid item # 8.

Question 18: Verify the length/term for the project warranty, since Paragraph C.07, Section 00030 specifies "a minimum period of three (3) years, unless otherwise specified". It should be noted that certain sections of the technical specifications include the standard one year warranty and Paragraph 2.3(B), of Section 016000 specifically refers to a period of one year.

Answer: Please comply with Section 01 60 00 in regards to the warranty period. Warranty shall be 1 year per specification section 01 60 00.

Question 19: Confirm that the contractor will not be required to provide the two 8' X 8' signs per Paragraph 1.5, Section 015000.

Answer: Contractor shall provide only one construction sign. Coordinate with owner for sign location.

Question 20: Sheet s-3.1 art wall section a-a calls for steel grating screen. Sheet a601,a602,spec 06 20 00-3 call for aluminum.

Answer: Structural Drawing has been revised to read Aluminum Grating. Please see revised S-3.1 for more info.

Question 21: Confirm that the owner will not require a full time on site project coordinator, per Paragraph 1.15(A), Section 011100 or a full time safety person per Paragraph 1.8(A) 7, Section 015000. Also, verify that the full time on site project superintendent is acceptable to fulfill the role of both coordination and safety.

Answer: Full time on site project superintendent can fulfill the role of both.

Question 22: Confirm that the owner will provide all quality control material testing and inspections for the entire project.

Answer: All quality control testing and inspections shall be the responsibility of the general contractor.

Question 23: Confirm that the contractor will not be required to provide an office area or furnishings for the owner's representative as outlined per Paragraph 1.3(B) 4, Section 015000.

Answer: Please see addendum No.1 for answer to this question.

Question 24: Confirm that all cost and/or fees, if any associated with the utilities for the project, including water, sanitary sewer, storm drainage, electrical, phone/data service, shall be paid by others. If not, the owner should establish an allowance since these costs cannot be accurately determined prior to the bid date.

Answer: All above mentioned cost shall be the responsibility of the General Contractor.

Question 25: Confirm that the standard AIA forms for the Bid Bond and the Payment/Performance Bonds shall be utilized. If not, provide copies of the specific bond forms to be used.

Answer: Standard AIA form may be utilized for the Bid Bond and for the Payment/Performance Bonds.

Question 26: Confirm that all permit cost and/or fees if any associated with the entire project, including the local building department, fire marshal, DOT, DEP, SWFWMD, etc., shall be paid by others. If not, the owner should establish an allowance since these costs cannot be accurately determined prior to the bid date.

Answer: Following items have been paid for: DOT permit, SWFWMD permit, City of Bradenton utility and building permit. All other fees shall be the responsibility of the General Contractor.

Question 27: Confirm which form is to be used for Trench Safety, since the specification includes different forms in both Section 00300 and Section 004320.

Answer: Please use the one in spec section 00300.

Question 28: Will the local utility be responsible for the relocation of the light poles?

Answer: General Contractor shall be responsible for existing light pole demolition. Contractor shall coordinate with FPL for the re-location.

Question 29: At what height do the security cameras need to be installed?

Answer: Final installation height shall be coordinated via submittal. Additional coordination between the architectural components and security drawings shall be necessary prior to approval of any camera/security components installation. No exterior security equipment or conduit for the equipment shall be installed or approved without the submittal and approval by the architect. Approximate locations are depicted on the drawings for bidding purposes. Final locations/heights shall be coordinated via submittals/shop drawings.

Question 30: Is the western red cedar wood at the bench required to receive a field finish or left natural?

Answer: Western Red Cedar shall be left natural with a clear sealer on all surfaces.

Question 31: A011 Keynote 2 says see A201 for more information on the Bike Rack and there is no additional information on A201. 2/A101 has a bike rack detail, but none of the components are identified. Should references be to Details 3, 4, 5&6/A602 and 7/A803?

Answer: Yes.

Question 32: A601 & A602 Elevations identify Canopies at the Art Wall locations as "E-1" Standing Seam Metal Roof. 1/A501 identifies these as "Aluminum Canopies. A-A/S3.1 identifies S.S. Metal Roof Panels along with C/S1.2. Please clarify the material selection for these canopies.

Answer: Canopy at the art walls shall be standing seam metal roof. A501 should read standing seam metal roof instead of aluminum canopy for all art wall locations. Metal roof at the art walls shall match the metal roof of the bus shelters.

Question 33: 5A601 indicates an E-15 Canopy section with a combination column/cantilever roof beam. What is the material and size (post/beam)?

Answer: Post and Beam are aluminum. Columns are 6" wide by 10" long. This is a pre-engineered system per our specifications. Beam shall be tapered and engineered for the designed spans.

Question 34: 10/A802 Bench Detail calls for 2"x 2" Steel Tube Framing 4 per bench. 1/A712 Section Thru Bus Canopy calls for 2"x 2" Steel Tube Framing 3 per bench. 4/A201 Bench Enlarged Plan shows four (4 ea.) and says "Tube Steel See Structural Drawings", but there does not appear to be any details for this typical condition on the Structural Drawings. Please advise.

Answer: Each bench shall have 4 steel tube framing elements. Please see revised structural drawings for connections (S2.1 B&C). Drawing 1/A712 should read 4 instead of 3 per bench.

Question 35: Please provide clarification for any building related signage (restrooms,ada).

Answer: Standard Restrooms and ADA Code signage shall be part of this project. See attachment referenced as "Interior Signage Plan.

Question 36: Specification Section 105113 Metal Lockers appears in the Table of Contents, but there is no Specification and no lockers are shown on the drawings. Please verify no lockers are required.

Answer: No lockers shall be required for this project. TOC should not have metal lockers listed.

Question 37: Provide additional information and specific details as to the intent of "be green", per Paragraph 8.21 of Section 00010, since the contractor is required to outline our "ability to meet the goal of environmental sustainability". What is the goal?

Answer: There is no goal requirement. Contractors are asked to reply to their "initiative" in the Contractor's Questionnaire on page 00430-4.

Question 38: Drawing A001 "M" Type walls are noted to extend to underside of structure. Sections show some interior "M" type walls only extending above ceiling. Please clarify.

Answer: Only "M" type walls that are not required to extend to underside of structure are interior walls between the Woman's Restroom 1-101A and Men's Restroom 1-101B. They are 4" cmu chase walls and two segments of an 8" cmu wall adjacent to the drinking fountain.

Question 39: Drawing AOII Keyed Note 2 references more information on the Bike Racks on sheet A201. Information is not present. Is Detail 7 on A803 intended to represent the Bike Racks on A101?

Answer: Please see details 3, 4, 5&6/A602 and 7/A803 for Bike Rack information.

Question 40: Drawing A501 Ref. the Aluminum Canopies shown on Roof Plan - Site. Are these the same as the "ditt-deck" reference on S1.1? Please advise specific lengths and width of these independent sections.

Answer: The only area of "dit-deck" aluminum canopy is between the building and the north bus canopy. Columns are 10'-0" on center. Please note that some are "wet" columns and beams.

Question 41: Verify that the sidewalk along the length of the west R/W Line can be closed off during construction.

Answer: Yes it will be closed.

Question 42: Verify that the existing trees will be trimmed back by others that overhang the bank drive through lane and interfere with the new bus shelters and art walls.

Answer: Existing trees are not going to interfere with the new bus shelters or art walls.

Question 43: Provide the thickness of the concrete for the area around the backflow enclosure and bike rack, since Section C-C on Sheet C109 and D-D on Sheet C110 does not show this information.

Answer: See BFP detail on sheet C108. Sidewalk around bike rack will need to match all other sidewalk thickness. Sections on Sheets C109, C110, and C111 contain sidewalk thickness at all locations.

Question 44: Verify that there are no joint sealant requirement for the concrete pavement, sidewalks, concrete median, and concrete curbs, since none is shown per the civil or architectural details.

Answer: No Joint Sealant specified.

Question 45: Provide clarification regarding the note on Sheet C103 that states "contractor to phase construction to minimize impact on parking lot access", since the work as currently designed makes this requirement cost prohibitive. If access is to be maintained to this parking lot, provide a phasing plan that shows how the road work, including the maintenance of traffic will be constructed.

Answer: "Minimize" is the key word. If the work around the access is completed and the driveway is safe to utilize then it should be reopened. There are no specifics on "phasing" the work to get the access opened within any specific time line.

Question 46: L103 Note 4.11 addresses Guying and Staking of plants & trees. The specified trees will be planted in "Petersen" pre-cast planters (Model RP60X24). This planter will not accommodate "normal" staking details. If staking is required by the contractor please provide and acceptable staking detail for the trees in the Petersen Planters.

Answer: Contractor shall price normal staking details to be attached to the inside of the planter with tapcons. Contractor shall price a custom metal attachment to hold the bottom of each stake with wings to be attached to the inside of the planter with tapcons. Contractor shall make this a line item amount in the schedule of values. Contractor shall submit a shop drawing for the proposed attachment of the stake to the inside of the planter for architect to review and approve.

Question 47: Drawing CI03 Extent of demolition quantities noted seem to only go to the R/W Line. Please confirm the intent for the demolition scope is to only go to the R/W line and not demo the entire sidewalk.

Answer: R/W line is the limit, nothing outside of R/W.

Question 48: Drawing C109-1II Sections on these sheets make multiple reference to 6" integral curbs. The only curb section shown is a Type D curb. Please confirm these curbs are to be Type D curb.

Answer: Type D Curb, per FDOT index 300/MC standards.

Question 49: Drawing L101 Please confirm that the trees shown "off the project site" and not specifically scheduled are not included in the project scope.

Answer: Offsite trees are not included in the project scope.

Question 50: Provide connection details for the south pergola to the precast at the art wall, since they are not shown on Sheet S-4.1.

Answer: See detail A/S-5.1.

Question 51: Provide a detail for the 2" X 2" tube steel support system for the cedar slats, since they are not shown on the structural drawings per the notes on Sheet A201 and A601. Also provide details for attaching the tube steel to the concrete columns and steel roof structure.

Answer: See details B & C/S-2.1.

Question 52: Drawing A201, Detail 4, bench Enlarged Plan indicates tube steel is required to attach the wood slats. The detail refers you to the structural drawings for the tubing. However, the structural drawings do not show the steel tubing. Please provide tubing size and attachment details.

Answer: See details B & C/S-2.1.

Question 53: Per specification section 09 91 00 Painting, the exterior painting schedule for ferrous metals includes primer, intermediate and finish top coats. Please clarify if the structural steel elements are to be shop primed by the structural steel contractors.

Answer: Yes, structural steel members are to be shop primed by the fabricator.

Question 54: If the structural steel elements are to be shop primed per specification section 05 12 00 Structural Steel, please clarify if the shop primer specified (sections 2.1 and 2.2) are compatible with the finish coats specified in specification section 09 91 00 Painting.

Answer: Specification section 05 12 00 is only for performance of steel preparation & shop priming but the contractor should use the materials specified in the paint specification section 09 91 00.

Question 55: Columns C2 & C3 are scheduled to be tapered on the west face (one side only) on the Column Schedule shown on S5.1 and per the Structural Details A-A/S3.1 and A-A/S2.1. Detail 6/A6.1 has a column detail indicating columns are to be tapered on three sides, but is not specific to Columns C2 or C3. Please clarify.

Answer: Only the C2 columns are to be tapered on three sides, see revised column schedule on sheet S-5.1 and details on sheet S-2.1.

Question 56: A-A/S3.1 shows an 18 x 12 C.I. P. Conc. Cap on top of the Double T Art Wall. Is there a connection of the T to the Concrete Beam (clip angles or an embedment depth of the T into the Concrete Beam)?

Answer: Stems of the pre-cast double tees shall be embedded 3" into concrete cap, see detail B/S-5.1.

Question 57: Plan Sheet S-1.1: Low roof framing plan has no details for the exhaust fan support steel. Was this overlooked or not required?

Answer: See details C & D/S-5.1 for joist reinforcing and roof support at roof mounted equipment and and openings greater than 6" in the metal roof deck.

Question 58: It appears that the irrigation controller is located in the main electrical room. However, the electrical drawings do not indicate an electrical circuit for the controller. Please advise.

Answer: Extend circuit A-28 to new irrigation controller. Provide 20amp, 120V branch circuit as typically specified. Circuit the irrigation controller ahead of the roof receptacle to avoid any future nuisance tripping of the GFI receptacle.

Question 59: The 1 line riser diagram shows a 3 phase disconnect for a single phase service. Is this correct?

Answer: Refer to Keyed Note #9 on Drawing Sheet E503.

Question 60: Please provide more details for the location and enclosures of the drivers for type FA and FB fixtures. It seems this should be decided prior to bidding so we know what is acceptable.

Answer: Refer to Lighting Fixture Schedule Note 4. All components shall be outdoor rated, weatherproof, etc. Location of driver enclosures shall be hidden from view by pedestrians standing to the west of the structures. Further information shall be given at the time of submittal. Drivers shall be adjacent to the J-boxes at the back of the art walls.

Question 61: How will the electrical conduits and boxes be secured to the top of the canopies?

Answer: Boxes are shown on architectural sections and are located on the back of the art walls. Hole shall be drilled as indicated on the sections and conduit shall supply the top fixture. From the top fixture hole shall be drilled to provide power to the bottom fixture. Only one conduit run shall be made from the box to supply both fixtures. No conduit shall be visible from underneath the canopy. Contractor shall coordinate the box location, penetration through the art wall, penetration through the canopy with electrical drawings to locate the fixtures. No penetrations shall be made until all submittals pertaining to this scope of work have been reviewed and coordinated. Jboxes can be secured to the precast walls using tapcons or other standard fasteners. All exterior components shall be waterproof.

Question 62: Please provide the type and rating of the 6" x 8" boxes called for on sheet ES102, keyed notes 1 and 5.

Answer: Refer to any of the Electrical Plan Drawing Sheets Keyed Note 6 for suggested manufacturer and catalog series description.

Question 63: Who will provide and install the AASHTO H-20 pull box shown on sheet ES102? Will that area have the asphalt removed?

Answer: Ultimately the General Contractor will be responsible for providing the H-20 pull box prior to Substantial Completion. See C103 for demolition extent for the project.

Question 64: What will the temporary electrical requirements be?

Answer: It is the responsibility of the General Contractor to determine this.

Question 65: Please provide the City of Bradenton street lighting Standard.

Answer: Refer to Drawing Sheet E501 for a series of details and Drawing Sheet E601 for detailed fixture information.

Question 66: Provide clarification as to the FTA Contract Clauses, since throughout this document "City Utilities" policies, documents, DBE program, etc. are referenced. Who is "City Utilities", since Paragraph 21 shows an address in Springfield, MO.?

Answer: Please disregard all reference to "City Utilities" this was inadvertently retained in the document. Contractor shall adhere to the terms and conditions as set forth in the Invitation for Bid (IFB) #11-0579-OV.

Question 67: Confirm which form is to be used for Public Entity Crimes, since the specification includes different forms in both Section 00491 and Section 007310.

Answer: The Contractor is required to complete the form as provided with the Invitation for Bid Package, Section 00491/ Pages 00491-4 and including 00491-5.

Question 68: Section 31 66 13 Helical Piles: The helical specifications require the torque indicator equipment to be calibrated within in 45 days of installation (1.4.7). The cost to perform the calibration is quite expensive (over \$1,000) and is currently performed on an annual basis.

Answer: Calibration of the torque indicator equipment can be within a year of the installation. Contractor shall provide the last calibration report in the submittal package that is dated within a year of the installation.

Question 69: Need more information on the screening at Art walls and aluminum structure for screen panels. Plans reference specs, none found.

Answer: Information is in the set, see section 06 20 00.

Question 70: Section 10 Has the design team verified that selected and specified materials comply with the "Buy American Act"? Section references a certification form to be included with bid that is not included.

Answer: Form is attached to this addendum. Design team has reviewed all specified materials for compliance with Buy American Act.

Question 71: Please clarify acceptable DBE classifications. This paragraph, Article A.28 MBE/WBE references The State of Florida, Office of Supplier Diversity, MBE/WBE certifications. Other paragraphs (Federal Transit Administration; Section 9) reference Federal definition per 49 CFR 26 as further defined by the Small Business Administration. Since these are two separate programs, please clarify which definition is intended.

Answer: Article A.28 of the Invitation for Bid (IFB) is intended to provide a "How To" process for certification. This project, which is funded by the Federal Transit Administration and FDOT requires that all necessary and reasonable steps be taken to ensure that FDOT Certified Disadvantaged Business Enterprises, as defined in 49 CFR Part 26 and DOT Rule Chapter 14-78, have the opportunity to participate in, compete for and perform subcontracts; are not discriminated on the basis of age, race, color, religion, national origin, sex or disability in the award and performance of FDOT assisted contracts.

Question 72: C.05 Payment states that the Contractor agrees to furnish affidavits stating subcontractors have been paid on the project for work covered on the application. Is it the intent of the County that the Contractor is required to pay the subcontracts prior to the Contractor being paid? Or is the affidavit required on the second subcontractor pay application for work performed by a subcontractor stating they had been paid for there previous pay application or there 1st pay application request?

Answer: Form PMD-10, Final Reconciliation, Warranty Period Declaration and Contractor's Affidavit is provided to the contractor upon near completion of the project. Contractor is then required to complete the Affidavit stating that all required payments including payments to laborers, materialmen, suppliers, subcontractors, etc... have been paid in full. Notarization of the Affidavit is a requirement.

Question 73: Our firm is a newly formed general contracting company (one year old) that is certified through both the Florida Office of Supplier Diversity and the Small Business Administration as a "Disadvantaged Business Enterprise". We are headquartered in Pinellas County and one of our principals resides in Manatee County. Our qualifying agent(s) have in excess of forty-five (45) years of experience. We have ample bonding capacity to perform this project and we have outstanding and verifiable experience on similar past projects. Does the

SCHENKELSHULTZ
ARCHITECTURE

"Contractor shall have a minimum of three (3) years experience." requirement preclude us from consideration for this project?

Answer: Minimum of three (3) years of experience is required thus precluding all firms without that minimum experience to bid the project.

Above concludes Addendum No.2,



Dražen Ahmedić, AIA
Associate
SSA project #0920818

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SECTION 00 80 00
MEASUREMENT, PAYMENT AND COMPLETION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies The scope of this section of the Contract Documents is to further define the items included in each Bid Item in the Bid Form section of the Contract Documents. Payment will be made based on the specified items included in the description in this section for each bid item.
- B. All contract prices included in the Bid Form section will be full compensation for all shop drawings, working drawings, labor, materials, tools, equipment and incidentals necessary to complete the construction as shown on the Drawings and/or as specified in the Contract Documents to be performed under this Contract. Actual quantities of each item bid on a unit price basis will be determined upon completion of the construction in the manner set up for each item in this section of the Specifications. Payment for all items listed in the Bid Form will constitute full compensation for all work shown and/or specified to be performed under this Contract.
- C. The quantities shown are approximate and are given only as a basis of calculation upon which the award of the Contract is to be made. The Owner/Engineer docs not assume any responsibility for the final quantities, nor shall the Contractor claim misunderstanding because of such estimate of quantities Final payment will be made only for satisfactorily completed quantity of each item.
- D. No payment will be made for work constructed outside the authorized limits of work.
- E. Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.
- F. Where payment for items is shown to be paid for on a lump sum basis, no separate payment will be made for any item of work required to complete the lump sum items. Lump sum contracts shall be complete, tested and fully operable prior to request for final payment. Contractor may be required to provide a break-down of the lump sum totals.

1.3 UNIT PRICE

- A. Separate payment will be made for the items of work described herein and listed on the Bid Form. Any related work not specifically listed, but required tor satisfactory completion of the work shall be considered to be included in the scope of the appropriate listed work items.

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- B. No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work. Final payments shall not be requested by the Contractor or made by the Owner until as-built (record) drawings have been submitted and approved by the Engineer. Items listed below shall be included in the scope of work associated with appropriate bid item numbers as indicated.
1. Shop Drawings, Working Drawings. (bid item 3,4,5, and 6)
 2. Clearing, grubbing and grading except as hereinafter specified. (bid item 3)
 3. Trench excavation, including necessary pavement removal and rock removal, except as otherwise specified. (bid item 3,5, and 6)
 4. Dewatering and disposal of surplus water. (bid item 3,5, and 6)
 5. Structural fill, backfill, and grading. (bid item 3,5, and 6)
 6. Replacement of unpaved roadways, and shrubbery plots. (bid item 3 and 5)
 7. Cleanup and miscellaneous work. (bid item 1)
 8. Foundation and borrow materials, except as hereinafter specified. (bid item 3,5, and 6)
 9. Testing and placing system in operation. (bid item 3,5, and 6)
 10. Any material and equipment required to be installed and utilized for the tests. (bid item 3,5, and 6)
 11. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work, unless otherwise shown. (bid item 3)
 12. Maintaining the existing quality of service during construction. (bid item 1)
 13. Maintaining or detouring of traffic. (bid item 1)
 14. Appurtenant work as required for a complete and operable system. (bid item 1)
 15. Seeding and hydromulching. (bid item 5)
 16. As-built Record Drawings. (bid item 3,4,5, and 6)

1.4 BID ITEM DESCRIPTIONS

- A. Bid Items are described in a greater detail below. Partial progress payments shall be submitted per our specifications.

Bid Item No. 1: MOBILIZATION

MOBILIZATION/DEMOBILIZATION shall be paid for at a lump sum price. The contract lump sum price paid for MOBILIZATION/DEMOBILIZATION shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work in this category. MOBILIZATION shall include but not be limited to: obtaining bonds, insurance and financing, movement of equipment, materials and personnel, supervision, field office, certificates, permits, submittals, utilities, site maintenance, cleanup and miscellaneous work, dust control, maintaining or detouring of traffic, maintaining the existing quality of service during construction, appurtenant work as required for a complete and operable system, waste management, pest control, and all other work incidental to the contract per drawings and specifications. The cost for MOBILIZATION/DEMOBILIZATION shall not exceed five (5) percent of the total bid.

Bid Item No. 2: TEMPORARY EROSION CONTROL

TEMPORARY EROSION CONTROL shall be paid for at a lump sum price. The contract lump sum price paid for TEMPORARY EROSION CONTROL shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals to install, maintain, and remove all required TEMPORARY EROSION CONTROL, including drainage inlet protection, fiber rolls, erosion control fencing, tree protection, construction

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entrances, and any other temporary erosion control measures as may be required by the Project permits or permitting agencies, as shown on the plans, as specified herein, and as directed by the Architect.

Bid Item No. 3: SITE WORK - COMPLETE

Payment for all work under SITE WORK - COMPLETE shall be paid for at a lump sum price. The contract price paid for SITE WORK - COMPLETE shall include all work and materials per plans and specifications. Sum shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in SITE WORK - COMPLETE. This sum shall be inclusive of entire project scope per plans and specifications for materials, installation/labor, storage, replacement of unpaved roadways, shrubbery plots, trench excavation, including necessary pavement removal and rock removal maintenance, and all other aspects of work associated with SITE WORK - COMPLETE. Scope shall include but not be limited to: excavation, foundation and borrow materials, fences, gates, clearing, grubbing and grading and miscellaneous concrete. Scope shall also include shop drawings, working drawings, and record drawings as they pertain to site construction. Dewatering and disposal of surplus water as well as structural fill, backfill, and testing and placing system in operation as well as material and equipment required to be installed and utilized for the tests shall also be included in the scope of work. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work shall be part of this bid item. Scope shall include but not be limited to: art walls, walkway canopy, backflow enclosure, pergolas, bike rack, median fence, fence, site concrete and asphalt, drainage and piping, site lights, FPL pole guy anchor and associated work with electrical connection modifications, and all other items not covered by bid item # 6. This section shall also include zero lot line construction excavation for art walls per specifications and demolition. See drawings and specifications for complete scope of work.

Bid Item No. 4: ART WALL - SCREEN

Payment for all work under ART WALL - SCREEN shall be paid for at a lump sum price. The contract price paid for ART WALL - SCREEN shall include all work and materials per plans and specifications. Sum shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in ART WALL - SCREEN. This sum shall be inclusive of entire project scope per plans and specifications for materials, installation/labor, storage, maintenance, testing and all other aspects of work associated with ART WALL - SCREEN. Scope shall include but not be limited to: aluminum grating, all attachments for grating, insect screen, pipe shapes attached to grating, and all miscellaneous attachments for art wall structures. This bid item shall include all components and labor for metal screen attached to the back of the concrete art walls, shop drawings, working drawings, and as built record drawings. See drawings and specifications for complete scope of work.

Bid Item No. 5: LANDSCAPE AND IRRIGATION

Payment for all work under LANDSCAPE AND IRRIGATION shall be paid for at a lump sum price. The contract price paid for LANDSCAPE AND IRRIGATION shall include all work and materials per plans and specifications. Sum shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in LANDSCAPE AND IRRIGATION. This sum shall be inclusive of entire project scope per plans and specifications for materials, installation/labor, storage, seeding and hydromulching, maintenance, testing and placing system in operation as well as material and equipment required to be installed and utilized for the tests and all other aspects of work associated with LANDSCAPE AND IRRIGATION. Scope shall also include shop

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drawings, working drawings, trench excavation, including necessary pavement removal and rock removal and record drawings as they pertain to landscape and irrigation construction. Dewatering and disposal of surplus water as well as replacement of unpaved roadways, and shrubbery plots shall also be included in the scope of work. See drawings and specifications for complete scope of work.

Bid Item No. 6: BUILDING – COMPLETE

Payment for all work under BUILDING - COMPLETE shall be paid for at a lump sum price. The contract price paid for BUILDING - COMPLETE shall include all work and materials per plans and specifications. Sum shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in BUILDING - COMPLETE. This sum shall be inclusive of entire project scope per plans and specifications for material removal, labor, clean up, and all other aspects of work associated with BUILDING – COMPLETE. Scope shall include but not be limited to: all building systems and components as described in drawings and specifications, foundation and borrow materials, testing and placing system in operation as well as material and equipment required to be installed and utilized for the tests, building signage, fire extinguisher, exterior envelope, roof, installation of ticket and change machine, all interior components, painting, finishes, casework, and all other scope not covered by other bid sections. Scope shall also include shop drawings, working drawings, trench excavation, including necessary pavement removal and rock removal and record drawings as they pertain to building construction. Structural fill, backfill, and grading shall also be included in this bid item. Scope shall also include south pergola signage, bus shelters (5), and all zero lot line excavation components associated with this section. See drawings and specifications for complete scope of work.

Bid Item No. 7: ART ALLOWANCE

Payment for all work under ART ALLOWANCE shall be paid for at a lump sum price. The contract price paid for ART ALLOWANCE shall include all work and materials per plans and specifications. Sum shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in ART ALLOWANCE. This sum shall be inclusive of entire scope per plans and specifications for material, manufacturing labor, delivery, storage of material, and all other aspects of work associated with ART ALLOWANCE. Scope shall include but not be limited to: material, artist design fee, and delivery. This bid item shall encompass all items necessary to successfully execute production and delivery of the art for the art walls. Owner and Architect have selected the artist and have negotiated artist fee. Contractor's installation cost, implementation of the contract with the selected artist, and general conditions associated with this bid item shall be priced in bid item #8. See drawings and specifications for complete scope of work.

Bid Item No. 8: ART ALLOWANCE IMPLEMENTATION AND ASSOCIATED COST

Payment for all work under ART ALLOWANCE IMPLEMENTATION AND ASSOCIATED COST shall be paid for at a lump sum price. The contract price paid for ART ALLOWANCE IMPLEMENTATION AND ASSOCIATED COST shall include all work and materials per plans and specifications. Sum shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in ART ALLOWANCE IMPLEMENTATION AND ASSOCIATED COST. This sum shall be inclusive of entire scope per plans and specifications for material, labor, as built drawings, clean up, installation, and all other aspects of work associated with ART ALLOWANCE IMPLEMENTATION AND ASSOCIATED COST. Scope shall include but not be limited to: Contractor's overhead, general conditions, installation fee, management

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fee, and time associated with managing a contract with a selected artist. Contractor shall contract with the selected artist and complete the scope of work for ordering and installing of tile art per direction determined by the Owner and Architect. Commissioned art shall be translated into tile and ordered by the Contractor. Contractor shall manage the manufacturing process, install the product per manufacturer's specifications and Architects direction. See drawings and specifications for complete scope of work.

Bid Item No. 9: DISCRETIONARY WORK

Payment for all work under DISCRETIONARY WORK shall be made only at the Owner's discretion in order to satisfactorily complete the project in accordance with the Plans and Specifications.

Bid Item No. 10: HAZARDOUS MATERIAL REMOVAL

HAZARDOUS MATERIAL REMOVAL price shall be provided to the owner and shall not be part of the total bid price. This bid item is reserved to be used if any hazardous materials are discovered at the site and need to be mitigated in order to complete the Work per drawings and specifications. Contractor shall price 6 cubic yard or hazardous material removal and replacement of that material with a healthy material as needed to complete the Work as drawn and specified. Contractor shall price all work associated with removal and replacement of such material including but not limited to: all associated labor, equipment, transportation, healthy material replacement, and any associated price change in any work affected by this bid item as it pertains to completion of Work as drawn and specified. Contractor shall not add this price to the bid amount and shall use this unit price (CY) amount only if hazardous materials are discovered at the site. No work under this bid item shall be furnished without the written approval and agreement from the Owner. Contractor shall use this price for any (small or large) amount of work to be done under this bid item.

1.5 APPLICATIONS FOR PAYMENT

- A. Applications for payment shall be made at approximately 30 day intervals in accordance with the dates established in the Standard Form of Agreement Between Owner and Contractor. At least 15 days before each progress payments falls due, the Contractor shall submit to the Architect, in quintuplet, an itemized Application for Payment, supported by such data sustaining the Contractor's right to payment as the Owner, or the Architect may require. The form of Application for Payment shall be AIA Document G702 - Application and Certification for Payment, supported by AIA Document G703 - Continuation Sheet. No other forms of Application for Payment will be acceptable. Continuation Sheet G703 shall be prepared the same as in the Schedule of Values submitted by the Contractor. Contractor's payment will be made within twenty-five (25) days after the Contractor's payment application is approved by the County.
- B. Contractor shall submit with each monthly Application for Payment, 1) an affidavit that payrolls, bills for materials and equipment, and other indeptness connected with the Work for which the previous Application, was submitted and the Owner or his property might in any way be responsible, have been paid or otherwise satisfied, and 2) release or waivers of liens arising out of the Contract from each Subcontractor, materialmen, supplier, and laborer of the Contractor in the form of Partial Lien Waiver provided with the Contract Documents or such other form as may be approved by the Architect and Owner, and 3) County of Manatee Claims Form available from the city/county Clerk's office.

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- C. For Schedule of Values requirements please see section 01 33 00.
- D. Unless otherwise indicated in Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site. If previously agreed upon by the Owner, payments may similarly be made for materials and equipment stored off the site at a location previously agreed upon in writing. Contractor shall comply with all conditions of off site storage agreement as indicated by the Owner prior to proceeding with arrangements for such conditions. Payment to Contractor for materials stored off site is discouraged. Where circumstances indicate that the Owner's best interest is served by off-site storage, the Contractor shall make written request to the Architect for approval to include such material costs in his next progress payment. The Contractor's request shall include the following information:
1. A list of the fabricated materials consigned to the project (which shall be clearly identified), giving the place of storage, together with copies of invoices and reasons why materials cannot be delivered to the site.
 2. Certification that items have been tagged for delivery to the project and that they will not be used for another purpose.
 3. A letter from the Bonding Company indicating agreement to the arrangements and that payment to the Contractor shall not relieve either party or their responsibility to complete the facility.
 4. Evidence of adequate insurance covering the material in storage, which shall name the Owner as additionally insured.
 5. Costs incurred by the Architect to inspect material in off-site storage shall be paid by the Contractor.
 6. Subsequent pay requests shall itemize the materials and their cost which were approved on previous pay requests and remain in off-site storage
- E. The Contractor warrants the title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment and is free and clear of all liens and encumbrances. The Contractor will indemnify the Owner and the Owner's property from any liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors or their Sub-subcontractors, regardless of tier, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials, equipment, services or supplies relating to the Work, and from all cost and expenses, including attorneys' and consultants' fees incurred by the Owner in evaluating or defending against such liens, claims, security interests or encumbrances. Partial payments to the Contractor for labor performed under either a unit or lump sum price Contract shall be made at the rate of 90 percent (90%) of the Contract Sum.
- F. When the payment is made on account of materials or equipment not yet incorporated into the Project, such materials and equipment will become the property of the Owner; provided that if such materials or equipment are stolen, destroyed, or damaged before being fully incorporated into the Project, the Contractor will be required to replace them at its own expense, if not covered by builder's risk policy.
- G. A retainage of 2.5% of the total contract amount shall be withheld from payments after 75% completion of the Work. Upon substantial completion, this retainage shall be

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reduced to 1% of the total contract amount plus such amount as the Owner may reasonably deem necessary to repair, replace, complete or correct any damaged, defective, incorrect or incomplete work. Upon final acceptance, the remaining retainage shall be included in the final payment.

1.6 CERTIFICATES FOR PAYMENT

- A. The Architect will, within fifteen days, after receipt of the Contractor's Application for Payment, either issue to the owner a Certificate for Payment, with a copy to the Contractor, for such amounts as the Architect deems is properly due, or notify the Contractor and the Owner of the Architect's reason for withholding certification in whole or in part as provided in paragraph .1, section 3 of ARTICLE 6.
- B. The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment that to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated on the Application for Payment. The issuance of a Certificate for Payment will not be a representation that the Architect has (a) made exhaustive or continuous on site inspections to check the quality or quantity of the Work, (b) reviewed construction means, methods, techniques, sequences or procedures, (c) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (d) made examination to ascertain how or for what purpose the Contractor has used the money previously paid on account of the Contract Sum.

1.7 DECISIONS TO WITHHOLD CERTIFICATION

- A. The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in Architect's opinion the representation to the Owner required by the above section can not be made. If an Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as indicated above. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in specifications and because of:
 1. The Contractor is in default of the performance of any of its obligations under the Contract Documents, including, but not limited to: failure to provide sufficient skilled workers; work, including equipment or materials, which is defective or otherwise does not conform to the Contract Documents; failure to conform to the Project Time Schedule; or failure to follow the directions of or instructions from the Architect or Owner.

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2. The Contractor is in default of the performance of any of its obligations under another Contract, which it has with the Owner.
 3. The filing of the third party claims or reasonable evidence that third party claims have been or will be filed.
 4. The Work has not proceeded to the extent set forth in the Application for Payment.
 5. Representations made by the Contractor are untrue.
 6. The failure of the Contractor to make payments to its Subcontractors, materialmen, or laborers.
 7. Damage to the Owner's property or the property of another Contractor or person.
 8. The determination by the Architect that there is a substantial possibility that the Work cannot be completed for the unpaid balance of the Contract Sum.
 9. Liens filed or reasonable evidence indicating the probable filing of such liens with respect to the Project.
- B. When the above reasons for withholding certifications are removed, certification will be made for the amounts previously withheld. If the Owner makes payments by joint check, the Owner shall notify the Architect in order to reflect such payments on the next Certification for Payment.
- C. Contractor's application for a payment shall reflect an equal percentage amount (within 2-3 percent) for labor and materials for Work completed. The Architect may adjust applications where labor exceeds materials or where materials exceed labor quantities in the Work completed columns.
- D. If the Contractor disputes a determination by the Architect with regard to Certificate of Payment, and during any related dispute resolution, litigation, or other proceeding, the Contractor nevertheless shall continue to execute the Work as described in the Contract Documents.

1.8 PROGRESS PAYMENTS

- A. After issuance of Certificate for Payment, Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall notify the Architect.
- B. The Contractor shall pay each Subcontractor no later than seven days after receipt of payment from the Owner the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall require each Subcontractor to make payments to Sub-subcontractors in a similar manner.
- C. The Owner has the right to request written evidence that the Contractor has paid all Subcontractors and material and equipment suppliers amounts paid by the Owner to the Contractor. If the Contractor does not provide adequate evidence within seven days,

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Owner shall have the right to contact the Subcontractors and obtain the information required. Neither an Owner or Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law. Payments to material and equipment suppliers shall follow similar rules as stated above.

- D. A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work.

1.9 FAILURE OF PAYMENT

- A. If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within fourteen days after receipt, or if the Owner does not pay the contractor within fourteen days after the date established in the Contract the amount certified by the Architect the Contractor may upon fourteen additional days of written notice to the Owner and Architect stop the Work until payment of the owed amount is received. The Contract time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable cost of shut down, delay, start up, plus interest as provided for in the Contract.

1.10 SUBSTANTIAL COMPLETION

- A. Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents and when all required occupancy permits, if any, have been issued so that the Owner can occupy or utilize the Work for its intended use.
- B. When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work. The time fixed by the Architect for the completion of all items on the list accompanying the Certificate of Substantial Completion shall not be greater than 30 days. The Contractor shall complete items on the list within such 30 day period. If the Contractor fails to do so, the Owner in its discretion may perform the Work by itself or others and the cost thereof shall be charged against the Contractor. If more than one inspection by the Architect for the purpose of evaluating corrected work is required by the subject list of items to be completed or corrected, it will be performed at the Contractor's expense.
- C. Upon the receipt of the Contractor's list, the Architect will make an inspection and designate the Work qualified to be substantially complete. If any Work on the list or any additional Work required for utilization of the Work by the Owner is incomplete or not correct, the Contractor shall complete such Work before issuance of the Certificate of Substantial Completion. In such case the Contractor shall submit a request for another inspection by the Architect upon completion of the Work required for Substantial Completion.
- D. At the time the Architect commences the Substantial Completion Inspection, if the

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Architect discovers excessive additional items requiring completion or correction, the Architect may decline to continue the inspection, instructing the Contractor as to the general classification of deficiencies which must be corrected before the Architect will resume the Substantial Completion Inspection. If the Contractor fails to pursue the Work so as to make it ready for Substantial Completion Inspection in a timely fashion, the Architect shall, after notifying the Contractor, conduct inspections and develop a list of items to be completed or corrected. This list of items shall be furnished to the Contractor who shall proceed to correct such items within 7 days. The Architect will conduct additional inspections. The Architect will involve the Owner for 1) The cost of inspections between the termination of the initial Substantial Completion Inspection and the commencement of the satisfactory Substantial Completion Inspection, 2) The cost of

inspection or review after the 7 day period established for the completion of the list by the Contractor. The Contractor shall reimburse the Owner for such cost, and the Owner may offset the amounts payable to the Architect for such services from the amounts due the Contractor under the Contract Documents.

- E. When the Work is designated portion thereof is substantially complete, the Architect shall prepare a Certificate of Substantial Completion that shall establish the date of Substantial completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the determine the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.
- F. The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon acceptance, the Owner shall make payment of retainage applying to such Work or designated portion thereof.
- G. The Contractor shall fully complete all Work under its Contract within thirty (30) days of receiving a Certificate of Substantial Completion with attached list of items required to be completed or corrected. Failure to do so may serve as cause for the Owner to declare the Contractor in default and terminate the Contractor pursuant to ARTICLE 10 of these Supplementary General Conditions.

1.11 PARTIAL OCCUPANCY OR USE

- A. Owner shall have an option for partial occupancy or use upon a written agreement between the Contractor and Owner to determine the responsibilities of each party. Partial occupancy does not constitute acceptance of Work not complying with the requirements of the Contract Documents.
- B. Immediately prior to such partial occupancy or use, Owner, Architect, and Contractor shall inspect the area to be occupied to record the conditions of the Work.
- C. Agreements as to the acceptance of the Work not complying with the requirements of the Contract Documents shall be in writing.

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1.12 FINAL COMPLETION AND FINAL PAYMENT

- A. Upon receipt of Contractor's written notice that the Work is ready for final inspection and upon receipt of the final Application for Payment the Architect shall timely make such inspection determine if the Work is acceptable per Contract Documents. If the Work is acceptable, the Architect shall issue a final Certificate for Payment stating that to the Architect's best knowledge and presented information the work has been completed in accordance to the Contract Documents.
- B. Final payment and all remaining retainage shall become due only when the following items are submitted to the Architect:
1. An Affidavit that all payrolls, bills for all items connected with the Work, and any other indebtedness have been paid (less amount owed by the final Payment and retainage withheld by the Owner).
 2. Evidence in writing or a certificate that the required insurance by the Contract Documents will not be canceled or that the insurance will not expire until at least thirty (30) days written notice has been given to the Owner.
 3. Written notice that the Contractor knows of no potential reasons that the insurance will not be renewable to fulfill the Contract Document requirements.
 4. Consent of surety to final payment.
 5. Any other documents, releases and waivers of liens, claims, receipts, copies of the expenditure, or any other items required by the Owner to assure no legal problems shall follow the Completion of the Contract. If a subcontractor refuses to furnish such a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unresolved for the Owner after the payments have been made, the Contractor shall refund the Owner all money associated with resolution of such lien including all costs and reasonable attorney's fees.
- C. The Contractor shall furnish such evidence as may be necessary to show that any out-of-state subcontractor or supplier has fully met the requirements of payment of taxes as established in any law of the State or local subdivision thereof which may be in effect at the time of final payment. The Owner will require the submission of such proof or evidence before final payment will be approved or made. The following must be submitted to the Architect before approval of final payment:
1. Affidavit of payment as required under this Paragraph shall be in the form of AIA Document G706 - Contractor's Affidavit of Payment of Debt and Claims.
 2. Release of liens as required under this Paragraph shall be in the form of AIA Documents G706A - Contractor's Affidavit of Release of Liens, or as may otherwise be reasonably requested or required to comply with Indiana law.

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3. Consent of Surety as required under this Paragraph shall be in the form of AIA Document G707 - Consent of Surety Company to Final Payment.
 4. Submit releases and final unconditional waivers of lien from major subcontractor and supplier.
 5. Submit certification stating that no materials containing asbestos were incorporated into the Work.
 6. Submit certification that all punch list items have been completed.
- D. If upon Substantial Completion final completion is delayed through no fault of the Contractor or by issuance of change orders adjusting/affecting the final completion date and if the Architect confirms the conditions be eligible for payment for Work completed without termination of the Contract. Final Payment, constituting the unpaid balance of the Contract Sum, shall be paid to the Contractor in full, including retainage , no less than 61 days following the date of Substantial Completion. If at that time there are remaining uncompleted items, an amount equal to 200 percent of the value of each item as determined by the Architect shall be withheld until said items are completed, and a Final Certificate of Payment issued by the Architect.
- E. Making of the final payment shall constitute a waiver of claims by the Owner except those arising from liens, claims, security interest, failure to comply with the Contract Documents or terms of special warranties.

1.13 REQUEST FOR PAYMENT

- A. Submit Applications for Payment to the Project Manager or as directed at the pre-construct i on meeting, in accordance with the schedule established by Conditions of the Contract and Agreement between Owner and Contractor.
- B. Submit payment requests in the form provided by the Owner with itemized data typed in accordance with the Bid Form .
- C. Provide construction photographs in accordance with Contract Documents.
- D. Submit Applications for Payment to the Project Manager or as directed at the pre-construct i on meeting, in accordance with the schedule established by Conditions of the Contract and Agreement between Owner and Contractor.
- E. Submit three (3) copies of each application; all signed and certified by the Contractor. .

1.14 SUBSTANTIATING DATA FOR PROGRESS PAYMENTS

- A. When the Owner or the Engineer requires substantiating data, Contractor shall submit suitable information with a cover letter.
- B. Submit one copy of data and cover letter for each copy of application.

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PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 00 80 00

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SECTION 09 91 00
PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide labor, materials, and equipment necessary for complete painting and finishing work as detailed on the Drawings and as specified herein, of surfaces as scheduled throughout the building.
- B. The type of material to be used and the number of coats to be applied are listed in the "Painting Schedule" in Part 3 of this Section. Also, refer to Room Finish Schedule and Finish Plans.
- C. The term "paint" as used herein, includes enamels, paints, sealers, stains, fillers, emulsions, and other coatings, whether used as prime, intermediate, or finish coats.
- D. The Architect shall not be limited in the number of colors selected for single space or for the complete Project.
- E. The intent is to provide a finished building, interior and exterior, whether or not specifically indicated. Some items may not be specifically indicated to be painted, however, all items shall be finished as directed by the Architect.

1.2 SUBMITTALS

- A. Materials List: Prior to the start of work and before paint materials are delivered to the site, submit a list of materials proposed and the equivalent specified item proposed.
 - 1. This shall in no way be construed as permitting substitution of materials for those specified or approved for this Work by the Architect.
- B. Color Chip Catalog: Provide a current color chip catalog from which colors may be selected. Manufacturers may fulfill this requirement by updating that Architect's office catalog.
- C. Stain Samples: Submit sample of specified wood species with selected stain applied to specified wood types to Architect for approval. Resubmit additional samples as necessary to obtain color desired by Architect.
- D. Manufacturer's Recommendations: In each case where material proposed is not the material specified or specifically described as an acceptable manufacturer, submit for review the current recommended method of application published by the manufacturer.
- E. Certification: Submit written certification from each coating manufacturer attesting that coatings provided under this specification section are specifically formulated and manufactured for the environmental conditions encountered in the State of Florida subtropical regions including factory mixed mildewcides and fungicides of type and quantity to inhibit fungus and mildew growth. Further certify that mildewcides and fungicides do not contain compounds of mercury, lead or other heavy metals.

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- F. Material Safety Data Sheets: Submit Material Safety Data Sheets (MSDS) for each coating product. In hazardous ingredient section of the MSDS form, write in type and quantity of mildewcide incorporated in the coating specified.

1.3 QUALITY ASSURANCE

- A. **Qualifications of Painters:** Use only qualified journeyman painters for the mixing and application of paint on exposed surfaces. If installed painting is rejected, no allowance will be made for lack of mechanics skill.
- B. **Codes and Standards:** In addition to complying with pertinent codes and regulations, comply with "Standard (Type 1)" as defined by the Painting and Decorating Contractors of America in their "Modern Guide to Paint Specifications," current edition.

1.4 FIELD QUALITY CONTROL

- A. Painting Contractor shall completely paint and finish one complete room according to the Specifications, as designated by Architect, which will be used as quality standard for remainder of Project.

1.5 PRODUCT HANDLING

- A. **Delivery:** Deliver paint materials to the job site in their original unopened containers with labels intact and legible at time of use.
- B. **Protection**
 - 1. Store only the approved materials at the job site and store only in a suitable and designated area restricted to the storage of paint materials and related equipment.
 - 2. Use means necessary to ensure the safe storage and use of paint materials and the prompt and safe disposal of waste.
 - 3. Use means necessary to protect paint materials before, during, and after application and to protect the installed work and materials of other trades.

1.6 EXTRA STOCK

- A. Upon completion of this portion of the Work, deliver to the Owner an extra stock of paint consisting of five gallons of each color used in each coating material used, with such extra stock tightly sealed in clearly labeled containers.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Conform to State and local V.O.C. (Volatile Organic Compound) Regulations. Notify Architect in writing if variations to Specifications are required.

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- B. Do not apply materials when the surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- C. Do not apply exterior coating during rain, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
 - 1. Painting may be continued during inclement weather if areas and surfaces to be painted are enclosed and heated within temperature limits specified by paint manufacturer during application and drying periods.

PART 2 - PRODUCTS

2.1 PAINTING MATERIALS MANUFACTURER

- A. Painting materials shall be the products of the following manufacturers, specified as the type, function, and quality of products to be provided. Paint materials and specification numbers listed herein, unless otherwise designated, are the products of Sherwin-Williams and Tnemec Company, Inc and require no further approval as to manufacturer or catalog number.
- B. Products of the following manufacturers are acceptable as equal to Sherwin-Williams Paint Company, providing their products equal or exceed the quality specified, and the material types and composition are the same; and subject to approval by the Architect of the materials list required to be submitted under preceding Part 1 of this Section.
 - 1. Porter Paint, Louisville, Kentucky
 - 2. Glidden, Cleveland, Ohio
 - 3. ICI Devco, Cleveland, Ohio
 - 4. MAB Paints, M.A. Bruder & Sons, Inc., Broomall, Pennsylvania
 - 5. Benjamin Moore & Company, Montvale, New Jersey
- C. Products of the following manufacturers are acceptable as equal to Tnemec, providing their products equal or exceed the quality specified.
 - 1. Induron Protective Coatings, Birmingham, Alabama.
 - 2. Ameron Protective Coatings Group, Brea, California.
 - 3. PPG
 - 4. Sherwin-Williams

2.2 COMPATIBILITY

- A. Paint materials selected for coating systems for each type of surface shall be the product of a single manufacturer.
- B. Paint materials and equipment shall be compatible in use; finish coats shall be compatible with prime coats; prime coats shall be compatible with the surface to be coated; tools and equipment shall be compatible with the coating to be applied.

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- C. Thinners, when used, shall be only those thinners recommended for that purpose by the manufacturer of the material to be thinned.

2.3 ACCEPTANCE OF SPECIFICATIONS

- A. By submitting a proposal, the Contractor has reviewed the bidding documents with the painting subcontractor and accepts the Specifications as sufficient to produce approved painting results. If the painting subcontractor contends that the materials or number of coats specified will not produce satisfactory results, he shall so notify the Architect directly or indirectly through a Bidding Contractor 10 days prior to receipt of bids for proper action.

2.4 MATERIALS

- A. Coatings: Ready mixed, except field catalyzed coatings. Prepare pigments:
 - 1. To a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
 - 2. For good flow and brushing properties.
 - 3. Capable of drying or curing free of streaks or sags.
- B. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified; commercial quality.
- C. Mildew Resistance: Provide coatings which are formulated and mixed at the point of manufacture with mildewcides and fungicides to inhibit growth of mildew as encountered in the subtropical regions of the State of Florida. Mildewcides and fungicides containing compounds of mercury, lead or other heavy metals are not acceptable.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine areas and conditions under which painting work is to be applied and notify the Architect in writing of conditions detrimental to proper and timely completion of work. Do not proceed with work until unsatisfactory conditions have been corrected.
- B. Starting of painting work will be constructed as Applicator's acceptance of surfaces and conditions within any particular area.
- C. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to formation of a durable paint surface.
- D. Test shop applied primers for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the maximums as recommended, for the types of coatings to be used, by the manufacturer.

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3.2 SURFACE PREPARATION

A. General

1. Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions, and as herein specified, for each particular substrate condition.
2. Remove hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish painted or provide surface applied protection prior to surface preparation and painting operations; remove, if necessary, for complete painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.
3. Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program cleaning and painting so that contaminates from cleaning process will not fall onto wet, newly painted surfaces.

B. Cementitious Materials

1. Prepare cementitious surfaces of concrete, concrete block, and cement plaster to be painted by removing efflorescence, chalk, dirt, grease, oils, and by roughening as required to remove glaze.
2. Determine alkalinity and moisture content of surfaces to be painted by performing appropriate tests. If surfaces are found to be sufficiently alkaline to cause blistering and burning of finish paint, correct this condition before application of paint. Do not paint over surfaces where moisture content exceeds that permitted in manufacturer's printed directions.
3. Clean concrete floor surfaces scheduled to be painted with a commercial solution of muriatic acid or other etching cleaner. Flush floor with clean water to neutralize acid and allow to dry before painting.

C. Ferrous Metals

1. Clean ferrous surfaces, which are not galvanized or shop coated, of oil, grease, dirt, loose mill scale, and other foreign substances by solvent or mechanical cleaning.
2. Touch-up shop applied prime coats wherever damaged or bare, where required by other Sections or these Specifications. Clean and touch-up with same type shop primer.

D. Galvanized Surfaces: Clean free of oil and surface contaminates with non-petroleum based solvent.

E. Aluminum Surfaces: Remove surface contamination by steam or high pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.

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3.3 MATERIALS PREPARATION

- A. Mix and prepare painting materials in accordance with manufacturer's direction.
- B. Store materials not in actual use in tightly covered containers. Maintain containers used in storage, mixing, and application of paint in a clean condition, free of foreign materials and residue.
- C. Stir materials before application to produce a mixture of uniform density and stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using.

3.4 APPLICATION

- A. Paint during weather conditions and Project status that will ensure the best possible results.
- B. General: Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.
 - 1. Apply additional coats when undercoats, stains, or other conditions show through final coat of paint, until paint film is of uniform finish, color, and appearance. Give special attention to insure that surfaces, including edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
 - 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Paint surfaces behind permanently-fixed equipment or furniture with prime coat only before final installation of equipment.
 - 3. Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, nonspecular black paint.
 - 4. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
 - 5. Finish exterior doors on tops, bottoms, and side edges same as exterior faces unless otherwise indicated.
 - 6. Sand lightly between each succeeding enamel or varnish coat.
- C. Scheduling Painting: Apply first coat material to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.
 - 1. Allow sufficient time between successive coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.
 - 2. Slightly vary the color of succeeding coats.
- D. Minimum Coating Thickness: Apply materials at not less than manufacturer's recommended spreading rate and as specified, to establish a total dry film thickness as indicated or, if not indicated, as recommended by the coating manufacturer.

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- E. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed to view in interior occupied spaces and exterior walls and roof. Mechanical rooms and electrical rooms are not considered occupied spaces unless specifically noted as such.
- F. Prime Coats: Apply prime coat of material which is required to be painted or finished and which has not been prime coated by others.
 - 1. Recoat primed and sealed surfaces where there is evidence of suction spots or unsealed areas in first coat, to assure a finish coat with no burn through or other defects due to insufficient sealing.
 - 2. Coordinate manufacturer's prime coats with finish coats as specified herein. If compatibility is not ascertained during the bidding period, and verification submitted with the shop drawings, then prime coat paint system as specified herein shall be applied to the item prior to finish painting as specified herein.
- G. Pigmented (Opaque), Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.
- H. Transparent (Clear) Finishes: Use multiple coats to produce glass-smooth surface film of even luster. Provide a finish free of laps, cloudiness, color irregularity, runs, brush marks, orange peel, nail holes, or other surfaces imperfections.
- I. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not in compliance with specified requirements.

3.5 CLEAN-UP AND PROTECTION

- A. Clean-Up: During progress of Work remove from site discarded paint materials, rubbish, cans, and rags at end of each work day.
- B. Upon completion of painting work clean window glass and other paint- spattered surfaces. Remove spattered paint by proper methods of washing and scraping, using care not to scratch or otherwise damage finished surfaces.
- C. Protection: Protect work of other trades, whether to be painted or not, against damage by painting and finishing work. Correct damage by cleaning, repairing or replacing and repainting, as acceptable to Architect.
- D. Provide "Wet Paint" signs as required to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work, after completion of painting operations.
- E. At the completion of Work of other trades, touch-up and restore damaged or defaced painted surfaces.

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3.6 PAINT TYPES AND NUMBER OF COATS

- A. The following painting schedules are intended to identify the type of finishes which are required for the various surfaces, and to identify the surfaces to which each finish is to be applied. Refer to Finish Schedule.
- B. To define requirements for quality, function, size, gages, textures, and color, the following list of materials designates the manufacturer's brand, types, and number of coats required; and other requirements that are to be furnished to conform to the requirements of this Project.
- C. Where specific finishes are called for on the Drawings and in the Finish Schedule by code designation, it shall specifically refer to the following identified types of coatings.
- D. The primer indicated under Material Identification is intended for the particular substrate surface specified. Where the same numbered finish is scheduled, but for another substrate, provide the proper primer compatible with substrate and the finish.
- E. Where the substrate has a compatible and satisfactory prime coat already on it, the prime coat specified for the numbered finish may be omitted. Test prime coat for compatibility before applying additional coats.

3.7 FIELD QUALITY CONTROL

- A. The right is reserved by Owner to invoke the following material testing procedure at any time, and any number of times during period of field painting:
 - 1. Engage services of an independent testing laboratory to sample paint being used. Samples of materials delivered to project site will be taken, identified and sealed, and certified in the presence of the Contractor.
 - 2. Testing laboratory will perform appropriate tests for any or all of the following characteristics: Abrasion resistance, apparent reflectivity, flexibility, washability, absorption, accelerated weathering, dry opacity, accelerated yellowness, recoating, skinning, color retention, alkali resistance and quantitative materials analysis.
- B. If test results show that material being used does not comply with specified requirements, Contractor may be directed to stop painting work, and remove non-complying paint; pay for testing; repaint surfaces coated with rejected paint; remove rejected paint from previously painted surfaces if, upon repainting with specified paint, the two coatings are non-compatible.

3.7 EXTERIOR PAINTING SCHEDULE

- A. Provide the following exterior paint systems based on Sherwin-Williams and Tnemec for substrates indicated.

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B. **Ferrous Metal:** Provide the following finish systems over exterior ferrous metal.

1. **High-Build Acrylic Polyurethane Enamel:**

- a. **Primer:** Metal primer applied at spreading rate recommended by the manufacturer.
 - 1) Tnemec: "Uni-Bond DF" Series 115
- b. **Second Coat:** Epoxy intermediate coat applied at spreading rate recommended by the manufacturer.
 - 1) Tnemec: Series 27 F.C. Typoxy
- c. **Third Coat: Semigloss,** acrylic polyurethane enamel applied at spreading rate recommended by the manufacturer.
 - 1) Tnemec: Series 1075 Endura-Shield
- d. **Surfaces:** All exterior steel scheduled to be painted, hollow metal doors and frames and all other exposed steel items as specified, indicated or required.
- e. This paint system shall be spray applied only, brush application is not allowed.

C. **Elastomeric Finish System:** Provide the following elastomeric finish system over exterior CMU

1. **Elastomeric Finish System – Modified Waterborne Acrylate**

- a. **Primer:** Self-priming.
- b. **First and Second Coats: Flat,** exterior elastomeric paint applied at spreading rate recommended by the manufacturer.
 - 1) Tnemec: Enviro-Crete Series 156
- c. Surfaces: Exterior CMU and stucco.
- d. Provide manufacturers ten (10) year warranty for this elastomeric paint system.

D. **Textured Finish:** Provide the following textured finish on exterior concrete columns:

1. Textured Coatings of America, Inc., Fort Lauderdale, Florida: TEX – COTE – STONE TEX Textured Coating. Provide a smooth finish.

- a. Surfaces: Exterior concrete columns
- b. Smooth finish.

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3.8 INTERIOR PAINTING SCHEDULE

- A. Provide the following **interior** paint systems based on **Sherwin-Williams and Tnemec** for substrates indicated:
- B. **Concrete Masonry Units:** Provide the following finish systems over interior concrete masonry block units:
1. **Acrylic-Latex Finish:**
 - a. **Block Filler:** High-performance, latex-based, block filler applied at spreading rate recommended by the manufacturer.
 - 1) Sherwin-Williams: PrepRite Block Fillere B25W25
 - b. **First and Second Coats: Semi-Gloss,** acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer.
 - 1) Sherwin-Williams: ProMar 200 Latex Semi-Gloss B31W200
 - c. Surfaces: New masonry walls, where epoxy is not indicated.
 2. **Epoxy:**
 - a. **Block Filler:** Waterborne epoxy polyamide.
 - 1) Sherwin-Williams: Epo-Flex WB Epoxy Block Filler
 - b. **First and Second Coats: Satin,** Waterborne epoxy polyamide.
 - 1) Sherwin-Williams: Water Base Epoxy B 70/ B60V25 S/G Hardener
 - c. Surfaces: New masonry walls where epoxy is indicated.
- C. **Ferrous Metal:** Provide the following finish systems over interior ferrous metal:
1. **High-Build Acrylic Polyurethane Enamel:**
 - a. **Primer:** Metal primer applied at spreading rate recommended by the manufacturer.
 - 1) Tnemec: Series 1 "Omnithane"
 - b. **Second Coat: Semi-Gloss,** acrylic polyurethane enamel applied at spreading rate recommended by the manufacturer.
 - 1) Tnemec: Series 1029

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- c. Surfaces: Hollow metal doors, frames, and railings, exposed steel joists, steel deck, steel trusses, miscellaneous steel, etc. where scheduled, noted to be painted, or exposed to view.
- d. Painting manufacturer can adjust interior steel painting system as required for the different substrates. Notify Architect in shop drawing and product data submittals. Final decision for approval is solely the Architect's.

Note: When the manufacturing of paint supplied does not require or recommend a primer, and a single coat will provide required coverage, approval from the Architect must be obtained to delete second coat; and a credit shall be due the Owner.

END OF SECTION 09 91 00

Downtown Bradenton Transit Station
Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: DOWNTOWN BRADENTON TRANSIT DATE: 2-26-11
SPECIFICATION SECTION: 552.02 ITEM(S): ALUMINUM HANDRAILS & RAILINGS
SPECIFIED MANUFACTURER: SUPERIOR ALUMINUM PRODUCTS, INC.
SPECIFIED MODEL NO.: NONE - 6063 ALUM 1/4" KYNAR FINISH
PROPOSED MANUFACTURER: ALL STEEL CONSULTANTS INC.
PROPOSED MODEL NO.: NONE - 6063 ALUM 1/4" KYNAR FINISH
REASON/S FOR MANATEE COUNTY MANUFACTURER
REQUEST FOR IN HOUSE ENGINEERING / DESIGN FOR A
SUBSTITUTION PROJECT CUSTOM HANDRAIL / RAILING
PE #65359

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

- A. Will approval affect dimensions shown on Drawings in any way? No Yes
Explain (Attach drawings if necessary): _____
- B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No Yes
Explain: NOT APPLICABLE
- C. Will approval affect the work of other trades? No Yes
Explain: _____
- D. Manufacturer's guarantees of the proposed and specified items are: Same Different
Explain: _____
- E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No Yes
Explain: DESIGNED PER SPECIFIED CRITERIA

Downtown Bradenton Transit Station
Bradenton, Florida

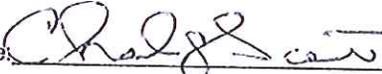
- F. Has proposed item been used locally in similar applications? No Yes
Explain: SARASOTA OPERA HOUSE. BRASS RAILING THROUGHOUT
GULFCOAST EXCELZ. RADIUS 5.0 ENTRANCE RAILING / STAIRS
- G. If approved, will the Owner receive a credit for the proposed alternate material? No Yes
Explain: _____
- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.) as the specified item? No Yes
Explain: CUSTOM ENGINEERED FOR THIS PROJECT

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Charles Scott

Firm: NDC CONSTRUCTION
Address: 1001 THIRD AVENUE WEST
BRADENTON, FL 34205

Signature:  Date: 2.1.11

FOR ARCHITECT'S USE:

Not Acceptable

No Exceptions Taken

By: 

Date: 03.08.2011

END OF SECTION 01 60 10

Downtown Bradenton Transit Station
Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: Downtown Bradenton Transit DATE: 3/1

SPECIFICATION SECTION: 10 ITEM(S): Signage

SPECIFIED MANUFACTURER: List of several signage companies

SPECIFIED MODEL NO: NA - custom

PROPOSED MANUFACTURER: NA - custom

PROPOSED MODEL NO: NA - custom - to spec for materials

REASON/S FOR _____

REQUEST FOR consideration to provide bid as signage company

SUBSTITUTION GC Graphic Communications

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

A. Will approval affect dimensions shown on Drawings in any way? No Yes _____
Explain (Attach drawings if necessary): _____

B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No _____ Yes _____
Explain: NA

C. Will approval affect the work of other trades? No Yes _____
Explain: _____

D. Manufacturer's guarantees of the proposed and specified items are: Same Different _____
Explain: _____

E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No _____ Yes
Explain: _____

Downtown Bradenton Transit Station
Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No _____ Yes
Explain: _____
- G. If approved, will the Owner receive a credit for the proposed alternate material? No ___ Yes ___
Explain: NA
- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.)
as the specified item? No _____ Yes _____
Explain: NA

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Kris A. Kay

Firm: GC Graphic Communications
Address: 4681 107th Circle N.
Clearwater, FL 33762

Signature: [Signature] Date: 3/1/11

FOR ARCHITECT'S USE:

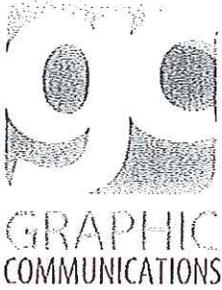
Not Acceptable _____

No Exceptions Taken

By: [Signature]

Date: 03.06.2011

END OF SECTION 01 60 10



Graphic Displays

Bid Qualifications

Technical Capability/Reliability/References - G C Displays Inc. is a 23 year old display, sign and trade show company with a 99.999% delivery rate. Simply put, we missed one delivery date in ten thousand orders.

Shop Drawing Production Capacity - G C Displays Inc. has a fully staffed Graphics Department with Auto Cad and Adobe Suite capabilities.

Design/ Build Projects are a specialty of ours. Our creative team has designed and produced many custom projects across industries.

Fabrication/Delivery Capability - Our in-house fabrication shop and network of affiliated vendors have delivered on-time, installation ready materials for the past two decades.

Manpower/Multi Crew Capability - G C Displays Inc. fields crews across the United States and Canada for installs. We have the capacity to meet your needs as the production and installation volumes increase.

Installation Schedule - with twenty three years experience G C Displays Inc. Project Managers have successfully scheduled and completed innumerable jobs and tasks.

Financial Resources - The recent economic down turn has allowed G C Displays, Inc. the opportunity to flex its financial strength where other companies have faltered. We recently completed a 1.17 million dollar Branding, Sign and Technology installation in Kentucky.

Good Faith Maximization of MBE/WBE Participation - G C Displays, Inc. is proud of our women ownership. We are now a Nationally Certified WBE.

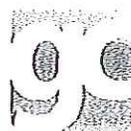
4681 - 107th Circle N., Clearwater, FL 33762

Toll Free: 800-336-7733

Local: 727-573-7733

Fax: 727-573-5535

www.gcGraphicComm.com



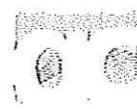
DISPLAYS

Display
Manufacturing



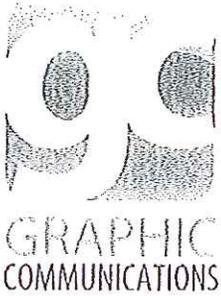
SIGNS

Sign
Manufacturing



BRANDS

Branding
Manufacturing



Organizational Information - G C Displays Inc. is a woman owned S Corporation domiciled in Florida. Our staff is over 55% women. We are organized in three divisions: Signs/Branding, Installation, Logistics and Trade Show Exhibits.

Work Classification - G C Displays Inc. is a sign and display manufacturer and installation company serving customers in the US and Canada.

Work Experience - G C Displays Inc. and our vendors have produced or installed signs, graphics, and branding elements across the US. Most recently in the Florida market, All Children's Hospital, Veterans Administration Expansion, Bay Front Medical Center, St. Anthony's and Florida Power and Light.

Bond Reference - Available upon request.

References - Available upon request.

Insurance - Available upon request.

Safety, Health and Environment - G C Displays Inc. has an active PPE and workplace safety program to ensure the health and protection of our employees and the environment.

Proposed Management Organization - This job will be directly managed by a Project Manager and Senior Salesman.

4681 - 107th Circle N., Clearwater, FL 33762

Toll Free: 800-336-7733

Local: 727-573-7733

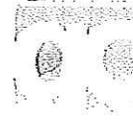
Fax: 727-573-5535

www.gcGraphicComm.com



DISPLAYS

Production, Trade
Exhibits



SIGNS

Signage, Graphics
Trade Shows



BRANDS

Branding, Graphics
Trade Shows

Downtown Bradenton Transit Station

Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: Downtown Bradenton Transit Station 0920818 DATE: 3/4/11

SPECIFICATION SECTION: 0620000 ITEM(S): Exterior Aluminum Grating and Screen

SPECIFIED MANUFACTURER: Ohio Gratings

SPECIFIED MODEL NO: 19-ADT-4 Dove Tail Grating

PROPOSED MANUFACTURER: McNichols

PROPOSED MODEL NO: Pressed Lock Bar Grating

REASON/S FOR Alternate manufacturer

REQUEST FOR Mullet's Aluminum Products, Inc.

SUBSTITUTION _____

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

- A. Will approval affect dimensions shown on Drawings in any way? No Yes _____
Explain (Attach drawings if necessary): _____
- B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No Yes _____
Explain: _____
- C. Will approval affect the work of other trades? No Yes _____
Explain: _____
- D. Manufacturer's guarantees of the proposed and specified items are: Same Different _____
Explain: _____
- E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No _____ Yes _____
Explain: _____

Downtown Bradenton Transit Station

Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No _____ Yes x
Explain: _____

- G. If approved, will the Owner receive a credit for the proposed alternate material? No x Yes _____
Explain: _____

- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.) as the specified item? No _____ Yes x
Explain: _____

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Melissa Gonzalez

Firm: Mullet's Aluminum Products, Inc.

Address: 905 Ponder Ave

Sarasota, FL 34232

Signature: Melissa Gonzalez Date: 3/4/11

FOR ARCHITECT'S USE:

Not Acceptable _____

No Exceptions Taken X

By: [Signature]

Date: 03-06-2011

(More info needed to assure product is truly equivalent to specified) Approved for Bidding Only!

END OF SECTION 01 60 10

**Not enough info provided for true comparison.*

ALUMINUM GRATING										LOAD TABLE			Caution: When designing with serrated grating these loads should be reduced by the factors called out for serrated.			
SERIES: GAL, GAL-2, GIA, GIA-2, SFT, SFT-2, GAA & GBB										Span 1-3/16" BEARING BAR CENTERS						
Bearing Bar Size		Span								Theoretical values based on f = 12,000 psi, E = 10,000,000 psi, gross section of bearing bar.					NOTE: Spans listed in shaded area produce a deflection of 1/4" or less under a uniform load of 100 pounds per square foot. This deflection is recommended as the maximum to provide pedestrian comfort.	
		1'0"	2'0"	2'6"	3'0"	3'6"	4'0"	4'6"	5'0"	5'6"	6'0"	span	Chart on Website			
1" x 1/8"	U	1684	421	269	187	137	105	83								
	D	.036	.144	.225	.324	.439	.574	.727								
	C	842	421	337	281	241	211	187								
1" x 3/16" or 1" I-bar	U	2526	632	404	281	206	158	125								
	D	.036	.144	.225	.324	.440	.576	.730								
	C	1263	632	505	421	361	316	281								
1-1/4" x 1/8"	U	2631	658	421	292	215	164	130	105	87	73					
	D	.029	.115	.180	.259	.353	.459	.583	.718	.871	1.035					
	C	1316	658	526	439	376	329	292	263	239	219					
1-1/4" x 3/16" or 1-1/4" I-bar	U	3947	987	632	439	322	247	195	158	130	110	81				
	D	.029	.115	.180	.259	.353	.461	.583	.720	.868	1.040	1.419				
	C	1974	987	789	658	564	493	439	395	359	329	282				
1-1/2" x 1/8"	U	3790	947	606	421	309	237	187	152	125	105	77				
	D	.024	.096	.150	.216	.294	.384	.486	.602	.724	.862	1.171				
	C	1895	947	758	632	541	474	421	379	345	316	271				
1-1/2" x 3/16" or 1-1/2" I-bar	U	5684	1421	909	632	464	355	281	227	188	158	116				
	D	.024	.096	.150	.216	.294	.384	.487	.599	.726	.865	1.176				
	C	2842	1421	1137	947	812	711	632	568	517	474	406				
1-3/4" x 3/16" or 1-3/4" I-bar	U	7737	1934	1238	860	632	484	382	309	256	215	158				
	D	.021	.082	.129	.185	.252	.329	.417	.514	.623	.741	1.009				
	C	3868	1934	1547	1289	1105	967	860	774	703	645	553				
2" x 3/16" or 2" I-bar	U	10106	2526	1617	1123	825	632	499	404	334	281	206				
	D	.018	.072	.113	.162	.221	.288	.364	.450	.544	.649	.881				
	C	5053	2526	2021	1684	1444	1263	1123	1011	919	842	722				
2-1/4" x 3/16" or 2-1/4" I-bar	U	12790	3197	2046	1421	1044	799	632	512	423	355	261				
	D	.016	.064	.100	.144	.196	.256	.324	.400	.484	.576	.784				
	C	6395	3197	2558	2132	1827	1599	1421	1279	1163	1066	914				
2-1/2" x 3/16" or 2-1/2" I-bar	U	15790	3947	2526	1754	1289	987	780	632	522	439	322				
	D	.014	.058	.090	.130	.176	.230	.292	.360	.436	.519	.705				
	C	7895	3947	3158	2632	2256	1974	1754	1579	1435	1316	1128				
	D	.012	.046	.072	.104	.141	.184	.233	.288	.348	.415	.565				

Note: The carrying capacity of a piece of grating subjected to a concentrated load over only a portion of its width is determined by the stiffness of both the bearing bars & the cross bars, and therefore varies with the type of grating used. To determine carrying capacity of gratings subject to such loadings, please call us for information.

CONVERSION TABLE—Aluminum TO DETERMINE LOAD FOR SERIES OTHER THAN SHOWN ABOVE—MULTIPLY TABLE VALUE BY LOAD FACTOR. NOTE: DEFLECTION UNDER FACTORED LOADS REMAINS AS SHOWN IN TABLE.

SERIES	SGAL, SGAL-2 SGIA, SGIA-2 GDD, GCC	GCM-1	GCM-2	GCM-3	GCM-4, 11SG2, 11SG4	GCM-5	GM GO	GR GO	GWH
LOAD FACTOR	1.27	2.7	2.35	1.9	1.72	1.45	1.15	1.61	.82

Downtown Bradenton Transit Station
Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: DOWNTOWN BRADENTON TRANSIT SIGNAGE DATE: 3/2/11

SPECIFICATION SECTION: A802 + A601 ITEM(S): _____

SPECIFIED MANUFACTURER: _____

SPECIFIED MODEL NO: _____

PROPOSED MANUFACTURER: MAGEE SIGN SERVICE

PROPOSED MODEL NO: _____

REASON/S FOR WE ARE A LOCAL BUSINESS WITH THE CAPABILITIES
TO FABRICATE + INSTALL PROPOSED SIGNAGE + DISPLAYS

REQUEST FOR _____

SUBSTITUTION _____

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

A. Will approval affect dimensions shown on Drawings in any way? No Yes _____
Explain (Attach drawings if necessary): _____

B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No _____ Yes _____
Explain: N/A

C. Will approval affect the work of other trades? No Yes _____
Explain: _____

D. Manufacturer's guarantees of the proposed and specified items are: Same Different _____
Explain: _____

E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No _____ Yes
Explain: _____

Downtown Bradenton Transit Station
Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No _____ Yes
Explain: _____
- G. If approved, will the Owner receive a credit for the proposed alternate material? No _____ Yes
Explain: _____
- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.) as the specified item? No _____ Yes _____
Explain: N/A : SAME MATERIALS

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: BEN BAKKER

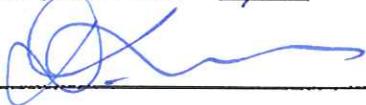
Firm: MAGEE SIGO SERVICE
Address: 1511 20TH AVE E.
PALMETTO, FL 34221

Signature:  Date: 3/2/11

FOR ARCHITECT'S USE:

Not Acceptable _____

No Exceptions Taken

By:  Date: 03.06.2011

END OF SECTION 01 60 10

Downtown Bradenton Transit Station

Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: Downtown Bradenton Transit Station 0920818 DATE: 3/3/11

SPECIFICATION SECTION: 055202 ITEM(S): Aluminum Railing

SPECIFIED MANUFACTURER: Superior, Petersen, Poma, Arch Metal Works

SPECIFIED MODEL NO: N/A

PROPOSED MANUFACTURER: Mullet's Aluminum Products, Inc.

PROPOSED MODEL NO: N/A Custom

REASON/S FOR Can provide equal product

REQUEST FOR _____

SUBSTITUTION N/A no change

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

- A. Will approval affect dimensions shown on Drawings in any way? No Yes _____
Explain (Attach drawings if necessary): _____
- B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No Yes _____
Explain: _____
- C. Will approval affect the work of other trades? No Yes _____
Explain: _____
- D. Manufacturer's guarantees of the proposed and specified items are: Same Different _____
Explain: _____
- E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No _____ Yes
Explain: _____

Downtown Bradenton Transit Station

Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No _____ Yes x
Explain: _____

- G. If approved, will the Owner receive a credit for the proposed alternate material? No x Yes _____
Explain: _____

- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.)
as the specified item? No _____ Yes x
Explain: _____

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Melissa Gonzalez

Firm: Mullet's Aluminum Products, Inc.
Address: 905 Ponder Ave
Sarasota, FL 34232

Signature: Melissa Gonzalez Date: 3/3/11

FOR ARCHITECT'S USE:
Not Acceptable X

No Exceptions Taken _____

By: [Signature] Date: 03-06-2011

END OF SECTION 01 60 10

-
- (1) Products specified by product name, or a specific manufacturing processes and/or specific to "No Substitutions Allowed" are proprietary, sole source and unique to Mullet's Aluminum Products, Inc. and will be hereafter referred to as Proprietary Mullet's Aluminum Products.
- a) You are expressly forbidden from using any substituting products along with any Proprietary Mullet's Aluminum Products without the express written consent of Mullet's Aluminum Products, Inc.
- b) Any use of Proprietary Mullet's Aluminum Products without the express written consent of Mullet's Aluminum Products, Inc. is strictly prohibited.
- c) Mullet's Aluminum Products, Inc. shall pursue all legal remedies available to enforce all unauthorized use of Proprietary Mullet's Aluminum Products.
-

SECTION 05 73 00 – ALUMINUM RAIL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

(Specifier Note Delete aluminum railing paragraphs below not included in project.)

A. Section Includes:

1. Mullet's Aluminum Products, Inc. Aluminum Horizontal Picket Guardrail Assembly "HRS-100".
2. Mullet's Aluminum Products, Inc. Aluminum Horizontal Picket Guardrail Assembly "HRS-200".
3. Mullet's Aluminum Products, Inc. Aluminum Horizontal Picket Guardrail Assembly "HRS-300".
4. Mullet's Aluminum Products, Inc. Aluminum Vertical Picket Guardrail Assembly "VRS-100".
5. Mullet's Aluminum Products, Inc. Aluminum Vertical Picket Guardrail Assembly "VRS-200".
6. Mullet's Aluminum Products, Inc. Aluminum Vertical Picket Guardrail Assembly "VRS-300".
7. Mullet's Aluminum Products, Inc. Aluminum Vertical Picket Guardrail Assembly "VRS-400".

B. Related Sections:

(Specifier Note: Retain, delete or add Sections in subparagraphs below that contain railing requirements specified in other sections for project or relate to this section.)

1. Division 05 Section for aluminum tube railings included with metal stairs or ornamental metals.
2. Division 05 Section 05 73 10 for Aluminum Cable Guardrail Assembly.

1.3 DEFINITIONS

- A. Railings: Guards, handrails, and similar devices used for protection of occupants at open-sided floor areas, pedestrian guidance and support, visual separation, or wall protection.

1.4 PERFORMANCE REQUIREMENTS

(Specifier Note Include in paragraph below specific structural requirements according to project location, state and local codes.)

- A. General: Engineer, fabricate and install handrails, guardrails and railing systems to withstand structural loads required by applicable codes.

B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior metal fabrications by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.

1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C)

1.5 SUBMITTALS

(Specifier Note: Revise or delete reference to submittals requirement as determined by Project Requirements.)

A. Submit under provisions of Division 1 – General Requirements for Submittals.

B. Product Data:

1. Manufacturer's specifications and installation instructions for standard components for each product type specified.

(Specifier Note Registered Engineer shall be licensed in state of project.)

2. Include sealed drawings by Registered Engineer responsible for structural design of system for state, local and other approved regulatory certifications.

3. Grout, anchoring cement, and paint products.

C. LEED Submittals:

Retain subparagraph below if recycled content is required for LEED-NC, LEED-CI, or LEED-CS Credits MR 4.1 and MR 4.2.

1. Product Data for Credit MR 4.1[and Credit MR 4.2]: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content.

D. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.

E. No substitutions permitted.

F. Samples: For products involving selection of color and texture.

G. Welding certificates.

1.6 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."

B. Railing Installer: Experienced in performing work of this section and specialized in installation of similar work required for this project.

1. Qualifications: As approved in writing by railing manufacturer.



- C. Pre-Installation Meetings: Conduct pre-installation meetings to verify project requirements, substrate conditions, installation instructions and warranty requirements.

1.7 REFERENCE STANDARDS

A. American Architectural and Manufactures Association (AAMA):

1. AAMA 2603 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings and Aluminum Extrusions and Panels.
2. AAMA 2604 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings and Aluminum Extrusions and Panels.
3. AAMA 2605 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings and Aluminum Extrusions and Panels.

B. American Society for Testing and Materials (ASTM):

1. ASTM B209-07 (ASTM B209M-07) – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
2. ASTM B221-08 (ASTM B221M-08) - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.
3. ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated), Type 1 (transparent flat glass), Quality-Q3.
4. ASTM B 247 (ASTM B 247M)
5. ASTM C1107-07 (ASTM C1107M-07) Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink). , Alloy 6063-T52 or 6061-T6 Die and Hand Forgings.

C. American Welding Society (AWS):

1. AWS D1.2/D1.2M, “Structural Welding Code - Aluminum

1.8 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication and indicate typical measurements on Shop Drawings.

1.9 COORDINATION AND SCHEDULING

- A. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- B. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not suit structural performance requirements.

1.10 WARRANTY

- A. Manufacturer's Warranty: Furnish railing manufacturer's standard limited warranty document executed by an authorized company official. Manufacturer's warranty is in addition to and not a limitation of other rights Owner may have under the contract documents.

(Specifier Note: Select Warranty years as determined by AAMA Standard selected)

- B. Railings Warranty: One (1), Three (3) or Five (5) years commencing on Date of substantial completion.

PART 2 - PRODUCTS

(Specifier Note: Select product paragraphs below to suit the project requirements. Add product attributes performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" and "or approved equal" may cause ambiguity in the specification. Such phrases require verification, procedural, legal, regulatory and responsibility for determining equivalence of products.)

2.1 MANUFACTURER

A. Drawings and Specifications based on products manufactured:

1. Mullet's Aluminum Products, Inc.
905 Ponder Ave.
Sarasota, FL 34232
1.877.685.5387
www.mulletsaluminum.com

2.2 GENERAL

- A. Aluminum Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- B. Brackets, Flanges, and Anchors: Same metal and finish as supported rails unless otherwise indicated.
1. Provide extruded-aluminum 6063 Alloy brackets with interlocking pieces that conceal anchorage. Locate set screws on bottom of bracket. Supply extruded aluminum wall bracket with either a round or flat saddle. Weld rail to bracket or mounted to bracket using the two 1/4-inch holes in the saddle; match pipe finish.

2.3 ALUMINUM

- A. Aluminum, General: Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with strength and durability properties for each aluminum form required not less than that of alloy and temper designated below.
- B. Extruded Bars and Shapes, Including Extruded Tubing: ASTM B 221 (ASTM B 221M), Alloy 6063-T52, 6061-T6 or 6005-T5.
- C. Plate and Sheet: ASTM B 209 (ASTM B 209M), Alloy 6061-T6 or 5052-H32 or 3003-H14.
- D. Die Sand Cast: ASTM B 247 (ASTM B 247M), Alloy 356/Marine Grade Alloy 535 or 514.
- E. Hand Forgings: ASTM B 209 (ASTM B 209M), Alloy 6063-T52.

2.4 FINISH

(Specifier Note: Select high performance coating below to suit project requirements.)

- A. Modified Polyester Powder Coat Finish meeting AAMA 2604 with minimum dry film thickness of 1.5 mills (0.059 inch).
- B. Seventy percent Fluoropolymer Thermosetting Resin Powder Coat Finish meeting AAMA 2605 with minimum dry



film thickness of 1.5 mils (0.059 inch). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying baking finish. Applicator may use chrome or non-chrome chemical conversion coating pretreatment process complying with AAMA 2604. (5 year finish warranty)

- C. One-hundred percent Fluoropolymer Thermosetting Resin Powder Coat Finish meeting AAMA 2605 with minimum dry film thickness of . Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying baked finish. Applicator may use chrome or non-chrome chemical conversion coating pretreatment process complying with AAMA 2605. (10 year finish warranty)
- D. Seventy percent Duranar XL Coating System - Kynar Finish meeting AAMA 2605 and minimum dry film thickness of 1.5 mils (0.059 inch). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying baked finish. Applicator must use chrome chemical conversion coating pretreatment process complying with AAMA 2605. (15 year finish warranty)
- E. Color and Gloss: As indicated by manufacturer's designations. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying baked finish. Applicator must use chrome chemical conversion coating pretreatment process in complying with AAMA 2605.
- F. No substitution will be considered.

(Specifier Note Ten (10) and (15) year warranties available at extra cost.)

G. Finish Warranty:

1. Five (5), Ten (10) or Fifteen (15) years.

2.5 WELDING

- A. TIG: (Tungsten Inert Gas) Process or MIG wire feed system.
- B. Exposed welds finish matching frame color where practical.
- C. Weld Type: Tight, clean, no slag or splatter weld.
- D. Weld Size: As determined by AWS Standards.
- E. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

(Specifier Note Select below paragraph if smooth joint option required.)
- F. Completely sanded joint, if requested, some undercutting and pinholes okay.

2.6 FASTENERS

- A. Fastener Materials: Unless otherwise indicated, provide the following:
 1. Aluminum Components: Stainless-steel fasteners.
- B. Fasteners for Anchoring to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.

- C. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with protective coating, by applying to each contact surface, or by other permanent separation as recommended by railing manufacturer.

2.7 MISCELLANEOUS MATERIALS

- A. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.8 FABRICATION

- A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
- B. Assemble railings in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
- C. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- D. Form work true to line and level with accurate angles and surfaces unless otherwise indicated.
- E. Fabricate connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate. Locate weep holes in inconspicuous locations.
- F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- G. Connections: Fabricate railings with welded connections unless otherwise indicated.
- H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
- I. Bend members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- J. Close exposed ends of hollow railing members with prefabricated end fittings.
- K. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns, unless clearance between end of rail and wall is 1/2 inch (12 mm) or less.
- L. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.



- M. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
1. Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
 2. Set posts plumb within a tolerance of 1/8 inch in 3 feet (3 mm/1 m).
 3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet (6 mm /3 m).
- B. Corrosion Protection: Coat concealed surfaces of aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with fabricators standard protective coating or optional heavy coat of bituminous paint.
- C. Adjust railings before anchoring to ensure matching alignment at abutting joints.
- D. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

3.2 RAILING CONNECTIONS

- A. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed in the shop or in the field.
- B. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches (50 mm) beyond joint on either side, fasten internal sleeve securely to one side, and locate joint within 6 inches (150 mm) of post.

3.3 ANCHORING POSTS

- A. Form or core-drill holes not less than 3 inches (75 mm) deep and 3/4 inch (20 mm) larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions.
- B. Leave anchorage joint exposed with 1/8-inch (3-mm) buildup, sloped away from post.
1. For aluminum railings, attach posts as indicated using fittings designed and engineered for this purpose.

3.4 ATTACHING RAILINGS

- A. Anchor railing ends to concrete and masonry with brackets on underside of rails connected to railing ends and anchored to wall construction with anchors and bolts.

- B. Anchor railing ends to metal surfaces with flanges bolted to metal surfaces and welded to railing ends.
- C. Attach handrails to walls with wall brackets except where end flanges are used. Provide brackets with 1-1/2-inch (38-mm) clearance from inside face of handrail and finished wall surface. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
 - 1. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads. clearance from inside face of handrail and finished wall surface. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
- D. Secure wall brackets and railing end flanges to building construction as approved by Engineer and as follows:
 - 1. For concrete and solid masonry anchorage, use drilled-in expansion shields "Tapcon" or Wedge Bolt.
 - 2. For hollow masonry anchorage, use "Tri-lobe" Anchor and sheet metal screw.

3.5 CLEANING AND TOUCH-UP PAINTING

- A. Clean aluminum with mild, non-abrasive soap and water, using a soft sponge. Rinse with fresh water to remove residual soap.
 - 1. Avoid using dry sponge which may scratch the surface.
 - 2. Remove contaminates as soon as possible, as sun exposure and heat makes it more difficult to remove.
 - 3. Do not use certain household cleaners, abrasive agents, harsh chemicals, strong solvents, acids, steel wool and industrial cleaners which can cause damage and discoloration to finish.
 - 4. Always test a small, inconspicuous area before applying any product to Aluminum products.
- B. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop painting to comply with manufacturer's recommendations for touching up shop-painted surfaces.
 - 1. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness.

3.6 PROTECTION

- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.
- B. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION 05 73 00



Downtown Bradenton Transit Station

Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: Downtown Bradenton Transit Station 0920818 DATE: 3/3/11

SPECIFICATION SECTION: 107326 ITEM(S): Aluminum Walkway Canopy

SPECIFIED MANUFACTURER: EL Burns, Perfection, Peachtree, etc.

SPECIFIED MODEL NO: N/A

PROPOSED MANUFACTURER: Mullet's Aluminum Products, Inc.

PROPOSED MODEL NO: N/A

REASON/S FOR Can provide equal product

REQUEST FOR _____

SUBSTITUTION N/A no change

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

- A. Will approval affect dimensions shown on Drawings in any way? No Yes _____
Explain (Attach drawings if necessary): _____
- B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No Yes _____
Explain: _____
- C. Will approval affect the work of other trades? No Yes _____
Explain: _____
- D. Manufacturer's guarantees of the proposed and specified items are: Same Different _____
Explain: _____
- E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No _____ Yes _____
Explain: _____

Downtown Bradenton Transit Station

Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No _____ Yes x
Explain: _____

- G. If approved, will the Owner receive a credit for the proposed alternate material? No x Yes _____
Explain: _____

- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.)
as the specified item? No _____ Yes x
Explain: _____

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Melissa Gonzalez

Firm: Mullet's Aluminum Products, Inc.
Address: 905 Ponder Ave
 Sarasota, FL 34232

Signature:  Date: 3/3/11

FOR ARCHITECT'S USE:

Not Acceptable X

No Exceptions Taken _____

By:  Date: 03.06.2011

END OF SECTION 01 60 10

MULLET'S ALUMINUM PRODUCT'S INC. WALKWAY COVERINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract.

{LIST RELATED SECTIONS}

1.2 SECTION INCLUDES:

A. Design, fabricate and install a welded, extruded aluminum walkway covers.

1.3 REFERENCES

A. FBC - Florida Building Code

B. AAMA 603 – Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum

C. AAMA 605 – Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels

D. AAMA 607.1 – Voluntary Guide Specification and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum

E. AAMA 608.1 – Voluntary Guide Specification and Inspection Methods for Electrolytically Color Anodic Finishes for Architectural Aluminum

F. ANSI/ASCE 7- - Wind Loads

G. ASTM B221- Aluminum-Alloy Extruded Bar, Rod, Wire, Shape, and Tube

H. ASTM B211- Aluminum Alloy Bars, Rods and Wire

I. ASTM B206- Aluminum and Aluminum-Alloy Sheet and Plate

1.4 SUBMITTALS

A. Submit shop drawings including plans, elevations and details, with dimensions and grades, for approval by Architect.

B. Submit design calculations signed by a Professional Engineer, registered in the State of Florida, verifying the walkway cover system design meets wind loading requirements of ASCE 7, live and dead loads, footings and other load requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store and protect products as instructed by manufacturer.

{INSERT SPECIAL DELIVERY, STORAGE, HANDLING INSTRUCTIONS HERE}

B. Promptly inspect shipment to assure the products comply with requirements, quantities are correct, and products are undamaged.

C. Stack materials to prevent twisting, bending, or abrasion, and to provide ventilation.

1. Slope metal sheets to ensure drainage.

D. Prevent contact with materials during storage, which may cause discoloration or staining.

1.6 QUALITY ASSURANCE

A. Manufacturer shall be a specialist with a minimum five years documented experience in manufacturing product.

B. Installer shall be specialized with a minimum five years documented experience in erecting and applying the work, approved and certified by manufacturer.

1.7 WARRANTY

A. Provide a three-year warranty that shall include coverage for structural, water tightness and finish beginning the day of Substantial Completion.

PART 2 PRODUCTS

2.1 DESIGN

A. Design loads for the structure and accessories, auxiliary and collateral loads shall

comply with FBC and ASCE 7.

2.2 COMPONENTS

- A. Aluminum members shall be extruded aluminum alloy 6063, heat treated to T-6 temper.
- B. Columns shall be radius-cornered tubular extrusions with cutout and internal diverter for drainage.
- C. Beams shall be open-top tubular extrusions; top edges thickened for strength and designed to receive deck members in a self-flashing manner.
 - 1. Install extruded structural ties in the top of all beams.
- D. Deck shall be extruded self-flashing sections interlocking into a composite unit with sufficient camber to offset dead load deflection and cause positive drainage.
 - 1. Use welded plates as closures at deck ends.
- E. Fascia shall be manufacturer's standard shape and a minimum 0.040 aluminum.
- F. Fasteners shall be aluminum, 18-8 stainless steel, 300 series stainless steel, or 410 stainless steel with neoprene washers.
- G. Protect aluminum columns embedded in concrete with clear acrylic.
- H. Grout shall be 2,000-psi compressive strength; concrete 2,500-psi minimum.
- I. Gaskets shall be dry seal pressure type of manufacturer's standard material.

2.3 FABRICATION

- A. Beams and columns shall be factory welded with mitered corners into one-piece rigid bents.
 - 1. Welds shall be smooth and uniform using inert gas shielded arc, with 100% penetration.
 - 2. Grind welds only where interfering with adjoining structure to allow a flush connection.
- B. Field welding is not permitted, use rigid mechanical joints when shipping limitations exist.
- C. Deck shall be extruded modules that interlock to form a self-flash condition.
 - 1. Positively fasten interlocking joints at 8" on center forming a monolithic structural unit to develop the full strength of the sections.
 - 2. Fastenings shall have minimum shear strength of 350 pounds each.
 - 3. Assemble the deck with sufficient camber to offset dead load deflection.

2.4 FACTORY FINISH

- A. As selected by the Architect one of the following shall apply:
- B. Factory-baked enamel - AAMA 603.8, standard or custom color, as selected.
- C. Clear anodized - AA-M-10C-22A-31 (AAMA 607.1).
- D. Bronze or black anodized - AA-M-10C-22A-44 (AAMA 606.1).

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine the areas and conditions where installing walkway covers.
- B. Notify the contractor of any unsatisfactory conditions.

3.2 ERECTION

- A. Erect the walkway covers true to line, level and plumb.
 - 1. Protect all aluminum columns in concrete with clear acrylic to prevent electrolytic reaction.
- B. Downspout columns shall have welded water diverters or other material at the discharge level to prevent standing water.
 - 1. Non-draining columns shall have weep-holes at concrete grade level to remove condensation.
 - 2. Do not allow discharge to drain across walkways.

3.3 CLEANING

A. Clean and polish the walkway component upon completion.

3.4 PROTECTION

A. Take extra care to protect materials during and after installation.

B. Remove and replace damaged and defective members.

END OF SECTION

Downtown Bradenton Transit Station
Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: Downtown Bradenton Transit Station DATE: 3/3/11

SPECIFICATION SECTION: 08331 ITEM(S): Overhead Ceiling doors

SPECIFIED MANUFACTURER: Cookson Doors

SPECIFIED MODEL NO: Rolling steel door Insulate FMWT

PROPOSED MANUFACTURER: Best Rolling doors

PROPOSED MODEL NO: S-10/I-30 by Best Rolling doors (See N.O.A)

REASON/S FOR similar or equal product.

REQUEST FOR substituting specified product for a Best R. door.

SUBSTITUTION _____

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

- A. Will approval affect dimensions shown on Drawings in any way? No Yes _____
Explain (Attach drawings if necessary): _____
- B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No Yes _____
Explain: _____
- C. Will approval affect the work of other trades? No Yes _____
Explain: _____
- D. Manufacturer's guarantees of the proposed and specified items are: Same Different _____
Explain: _____
- E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No _____ Yes _____
Explain: _____

Downtown Bradenton Transit Station

Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No Yes
 Explain: Panama city Airport, Fire Station throughout FL, GA, TX
School district (Tampa, Orlando, Miami)
- G. If approved, will the Owner receive a credit for the proposed alternate material? No Yes
 Explain: _____
- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.) as the specified item? No Yes
 Explain: _____

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Fredy Lopez Jim Zinf
 Firm: Best Rolling doors, Inc.
 Address: 8803 Enterprise Csw
Tampa, FL 33637

Signature: Jim Zinf Date: 3/3/11

FOR ARCHITECT'S USE:

Not Acceptable X
 No Exceptions Taken

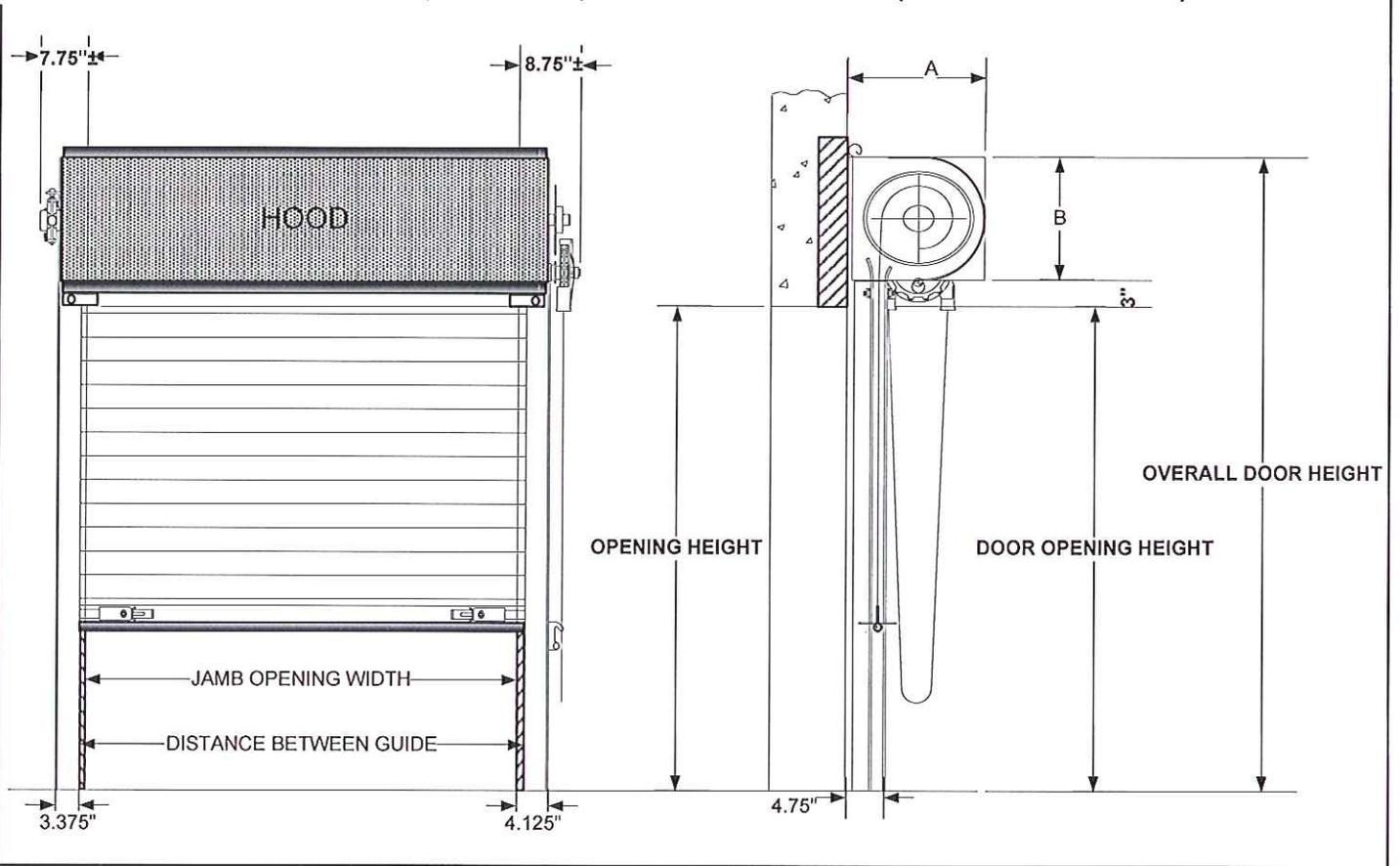
By: [Signature] Date: 03.06.2011

END OF SECTION 01 60 10

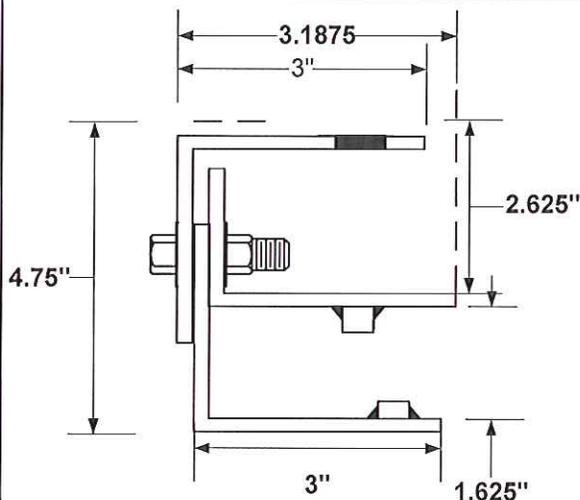
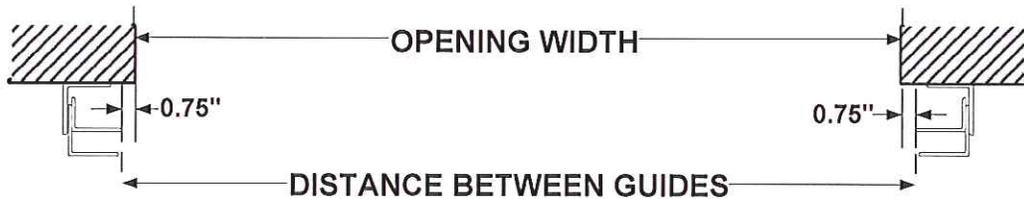


Best Rolling Manufacturer

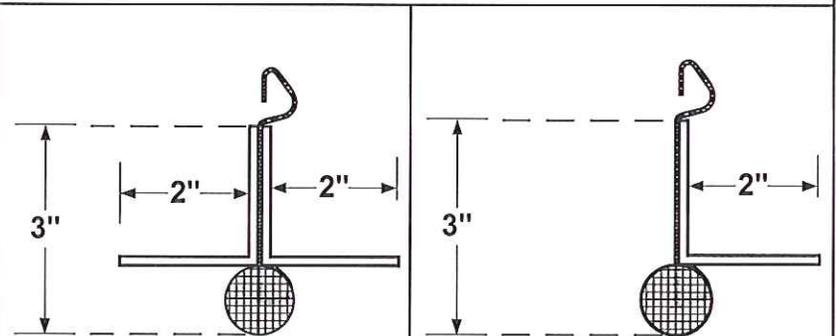
ELEVATION (COIL SIDE) AND SECTION VIEW (E GUIDE TO STEEL)



PLAN OF OPENING



Bottom Bar Detail



ASTRAGAL OPTIONAL

Downtown Bradenton Transit Station
Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: DOWNTOWN BRADENTON TRANSIT DATE: 2-26-11
SPECIFICATION SECTION: 74113 ITEM(S): PRE-FORMED METAL ROOFING
SPECIFIED MANUFACTURER: SEPIES 300, TMETCO
SPECIFIED MODEL NO: SEPIES 300
PROPOSED MANUFACTURER: BEPRIDE MANUFACTURING
PROPOSED MODEL NO: 16" ZEE LOCK
REASON/S FOR AN EQUAL AND MANUFACTURED IN FLORIDA
REQUEST FOR _____
SUBSTITUTION _____

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

- A. Will approval affect dimensions shown on Drawings in any way? No Yes _____
Explain (Attach drawings if necessary): _____
- B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No _____ Yes _____
Explain: NOT APPLICABLE
- C. Will approval affect the work of other trades? No Yes _____
Explain: _____
- D. Manufacturer's guarantees of the proposed and specified items are: Same Different _____
Explain: _____
- E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No _____ Yes
Explain: PRODUCT HAS SPONGENT MIAMI DADE PRODUCT APPROVAL

Downtown Bradenton Transit Station
Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No _____ Yes X
Explain: LAKELAND ELEMENTARY SPASSO TA COUNTY 110,000 SQ. FT.
WELLNESS CENTER - LAKEWOOD RANCH 25,000 SQ. FT. RADUSED
- G. If approved, will the Owner receive a credit for the proposed alternate material? No X Yes _____
Explain: _____
- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.) as the specified item? No _____ Yes X
Explain: PRODUCT HAS STRINGENT MIAMI DDE PRODUCT APPROVAL

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Charles Scott

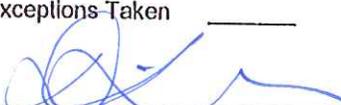
Firm: NDC CONSTRUCTION
Address: 1001 THIRD AVENUE WEST
BRADENTON FL 34205

Signature:  Date: 2.1.11

FOR ARCHITECT'S USE:

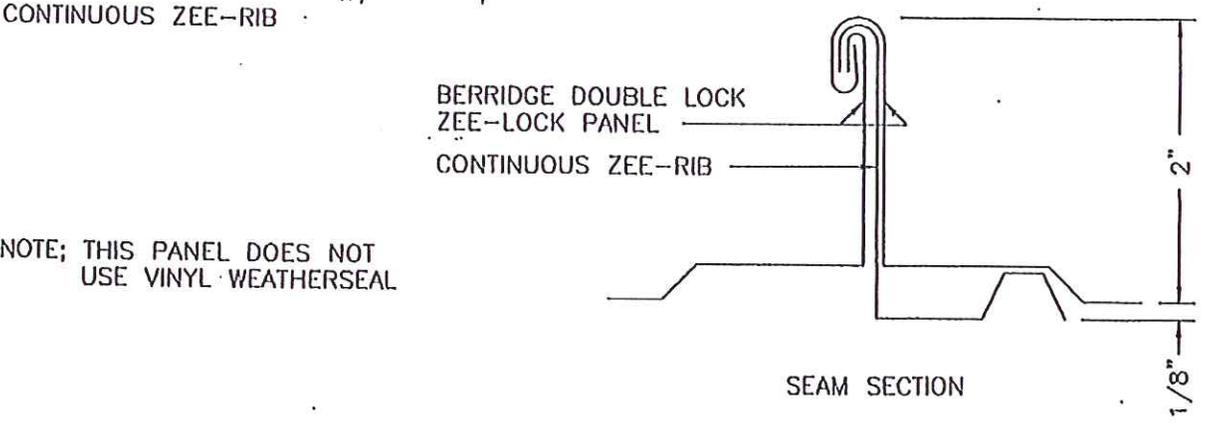
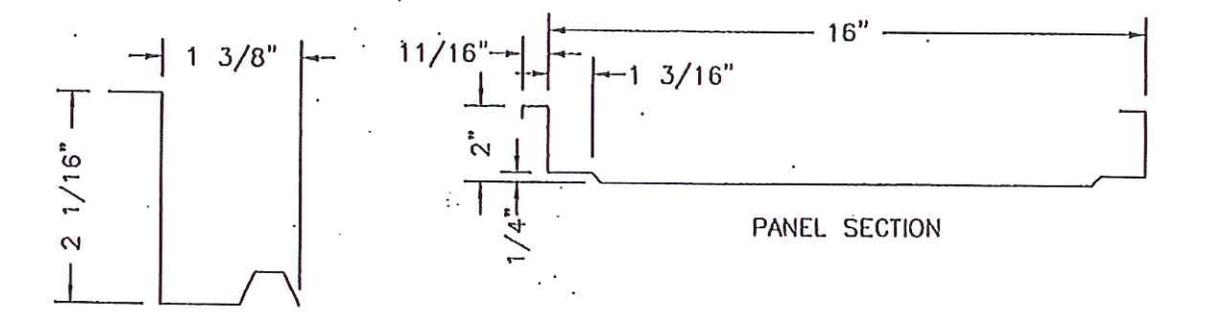
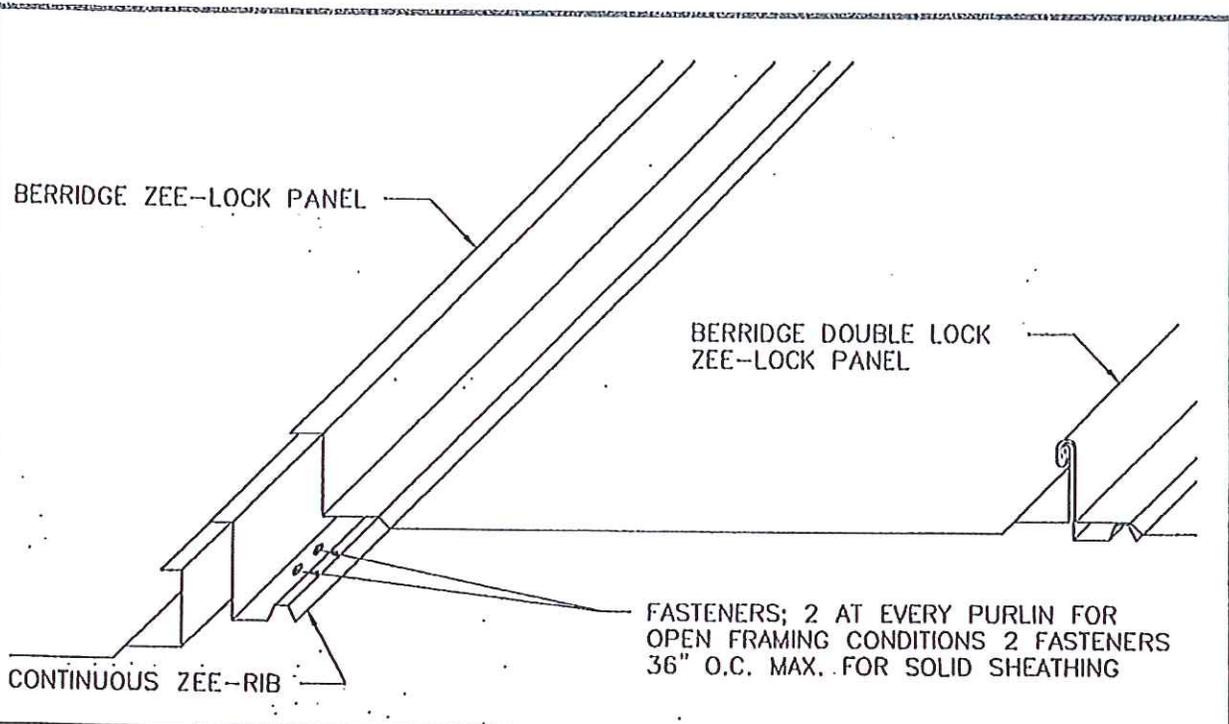
Not Acceptable X

No Exceptions Taken _____

By: 

Date: 03.06.2011

END OF SECTION 01 60 10



NOTE; THIS PANEL DOES NOT USE VINYL WEATHERSEAL

	<p>Berridge Manufacturing Company</p>	<p>OVERVIEW CONTINUOUS ZEE-RIB</p>	<p>DATE: 10-24-06</p>
	<p>DOUBLE LOCK ZEE-LOCK PANEL</p>	<p>PAGE\FILE DZ-4</p>	

BERRIDGE

"2007" FLORIDA PRODUCT APPROVALS

As Of: 9/30/2010

LEGEND:

¹ Large Missile Impact Rated

LEGEND FOR METAL PANEL SPACING:

Standing Seam: CS = Clip Spacing, Clips
 LAP: RS = Row Spacing
 LAP: FS = Fastener Spacing
 SideLAP: SL = Sidelap Spacing
 Structural: PUR = Purlins or GIRT = Girts

MODEL NAME	FL NUMBER	MATERIAL & MIN. THICKNESS	MAX. NET WIDTH	SUPPORT SYSTEM	SEAM	D.P. (PSF)	ATTACHMENT SPACING
Zee-Lock (Double-Lock)	11159.2 R1	24 Ga. Steel	16"	1/2" Wood Deck	180 180	-101 -174.25	CS= (1- #12) 16" CS= (1- #12) 8"
Zee-Lock Curved (Double-Lock)	11159.3 R1	24 Ga. Steel	16"	1/2" Wood Deck	180 180	-101 -174.25	CS= (1- #12) 16" CS= (1- #12) 8"
Zee-Lock	11159.4 R1	24 Ga. Steel	16"	24 Ga Steel Deck	90	-52.5	CS= (1- #12) 18"
Zee-Lock	12084.1	24 Ga. Steel	16"	24 Ga Steel "S" Deck	90	-77.5	CS= (1- #12) 18"
Zee-Lock Curved	12084.2	24 Ga. Steel	16"	24 Ga Steel "S" Deck	90	-77.5	CS= (1- #12) 18"
Zee-Lock (Double-Lock)	11159.5 R1	24 Ga. Steel	16"	24 Ga Steel Deck 22 Ga Steel Deck	180 180	-87.5 -127.5	CS=(1- #14 or 12) 18" CS=(1- #14) 8"
Zee-Lock / Curved (Double-Lock)	11159.6 R1	24 Ga. Steel	16"	24 Ga Steel Deck 22 Ga Steel Deck	180 180	-87.5 -127.5	CS=(1- #14 or 12) 18" CS=(1- #14) 8"
Zee-Lock <i>(Lg Missile Rated)</i>	11159.7 ¹ R1	24 Ga. Steel	16"	16 Ga. Purlins	90	-52.5	PUR= (2- #12) 60"max
Zee-Lock (Double-Lock) <i>(Lg Missile Rated)</i>	11159.8 ¹ R1	24 Ga. Steel	16"	16 Ga. Purlins	180	-60	PUR= (2- #12) 60"max
Zee-Lock (Double-Lock) <i>(Lg Missile Rated)</i>	11159.9 ¹ R1	24 Ga. Steel	16"	16 Ga. Purlins	180 180	-62.5 -120	PUR= (2-1/4") 60"max PUR= (2-1/4") 24"max
Zee-Lock (Double-Lock)	12457.4 R2	24 Ga. Steel	16.5"	Steel B Deck w/ Rigid Insulation 12 Ga Purlins	180	-183.5	CS= (1- #14) 16" PUR= 60" max Steel Deck to Purlins: FS= (1-#12) 6" o.c.
OTHER ROOF PANELS							
Bermuda	11422.1	24 Ga. Steel	11"	5/8" Wood Deck	Clip	-52.5	CS= (1- #10) 24"

BERRIDGE

"2007" FLORIDA PRODUCT APPROVALS

As Of: 9/30/2010

LEGEND:

¹ Large Missile Impact Rated

LEGEND FOR METAL PANEL SPACING:

Standing Seam: CS = Clip Spacing, Clips
 LAP: RS = Row Spacing
 LAP: FS = Fastener Spacing
 SideLAP: SL = Sidelap Spacing
 Structural: PUR = Purlins or GIRT = Girts

MODEL NAME	FL NUMBER	MATERIAL & MIN. THICKNESS	MAX. NET WIDTH	SUPPORT SYSTEM	SEAM	D.P. (PSF)	ATTACHMENT SPACING
				20 Ga. Support		± 73	FS= (#12) 5-1/3" (every other valley) Max Span: 30" SL= (#12) 12"
				20 Ga. Support		± 121.6	FS= (#12) 2-2/3" (every valley) Max Span: 30" SL= (#12) 12"

ALL BELOW APPROVED FOR HVHZ

APPROVED FOR HVHZ

CATEGORY: ROOFING / SUBCATEGORY: METAL ROOFING - EVALUATION METHOD (1- D)

Cee-Lock w/ Continuous Clip	13869.1	22 Ga. Steel	16.5"	22 Ga. Steel Deck	Snap Lock	-108.5	CS= (1- #10) 20"
						-183.5	CS= (1- #10) 10"
Zee-Lock w/ Continuous Clip	12457.7	24 Ga. Steel	16.5"	22 Ga. Steel Deck w/4" Rig. Insul	Snap Lock	-168.5	CS= (1- #14) 16"
						-176	CS= (1- #14) 8"

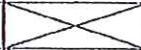
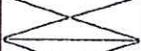
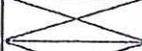
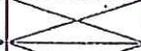
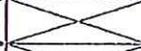
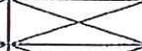
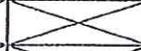
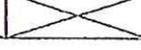
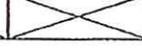
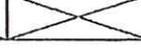
APPROVED FOR HVHZ

CATEGORY: ROOFING / SUBCATEGORY: METAL ROOFING - CERTIFICATION METHOD (1- A)

Cee-Lock w/ Continuous Clip (NOA 07-0813.09)	11241.1 R1	24 Ga. Steel	16.5"	Wood Deck	Snap Lock	-74.75	CS= (1- #10) 20"
						-108.5	CS= (1- #10) 10"
Victorian/Classic Shingle (NOA 07-0412.01)	11241.2 R1	24 Ga. Steel	9" x 12"	Wood Deck	Lock Seam	-118.5	FS= (2- #12) 9" (2 screws per shingle)
Zee-Lock w/ Zee-Lock Clip (NOA 03-1104.01)	11241.3 R1	24 Ga. Steel	16"	Wood Deck	90	-52.5	CS= (2- #10) 36"
				Steel Deck		-52.5	CS= (2- #12) 12"
Zee-Lock Dbl Lock with Continuous Zee-Rib Clip (NOA 07-0831.11)	11241.4 R1	24 Ga. Steel	16"	Wood Deck	180	-101	CS= (1- #12) 16"
						-174.25	CS= (1- #12) 8"
Curved Zee-Lock Dbl-Lock	11241.5 R1	24 Ga. Steel	16"	Wood Deck	180	-101	CS= (1- #12) 16"

SECTION PROPERTIES BASED ON 24 GAUGE 40 K.S.I.			
ZEE-LOCK PANEL	$dl_x (\text{in}^4/\text{ft})$	$M_x (\text{Ft-lbs}/\text{Ft})$	$V_x (\text{Lbs})$
POSITIVE BENDING	0.11779	132.35	662
NEGATIVE BENDING	0.06645	104.53	662

PROPERTIES ARE EFFECTIVE AND ARE PER FOOT OF PANEL COVERAGE. BASED ON 1986 AISI COLDFORM STEEL DESIGN MANUAL, MARCH 1987, AND RATIONAL ANALYSIS. DESIGN THICKNESS = 0.0215 IN.

RECOMMENDED LOAD IN POUNDS PER SQUARE FOOT (PANEL WEIGHT = 1.3 PSF)						
SPAN (FEET)	NET VERTICAL LIVE LOAD			NET VERTICAL WIND UPLIFT		
	1-SPAN	2-SPAN	3-SPAN	1-SPAN	2-SPAN	3-SPAN
2'-0"	40	70	70	90	90	90
2'-6"	35	70	70	90	90	90
3'-0"	30	60	70	90	90	90
3'-6"	25	50	60	70	85	90
4'-0"	20	40	45	55	65	80
4'-6"	15	30	35	44	55	60
5'-0"		25	30		45	50
6'-0"						
7'-0"						

NOTES

1. ALL LOADS MEET L/240 DEFLECTION CRITERIA UNLESS OTHERWISE NOTED.
2. WIND LOAD ALLOWABLES INCREASED BY 33 PERCENT.

DATE: 10-24-06

INSTALLATION INSTRUCTIONS
STRUCTURAL PROPERTIES

PAGE \ FILE

DZI-6

DOUBLE LOCK ZEE-LOCK PANEL



Berridge
Manufacturing
Company

SECTION PROPERTIES BASED ON 24 GAUGE 40 K.S.I.			
ZEE-LOCK PANEL WITH CONTINUOUS 24-GAUGE ZEE-RIB	dI_x (In ⁴ /ft)	M_A (Ft-lbs/Ft)	V_A (Lbs)
POSITIVE BENDING	0.1525	184.65	990
NEGATIVE BENDING	0.1030	161.33	990

PROPERTIES ARE EFFECTIVE AND ARE PER FOOT OF PANEL COVERAGE. BASED ON 1986 AISI COLDFORM STEEL DESIGN MANUAL, MARCH 1987, AND RATIONAL ANALYSIS. DESIGN THICKNESS = 0.0215 IN.

RECOMMENDED LOAD IN POUNDS PER SQUARE FOOT: (PANEL WEIGHT = 1.3 PSF)						
SPAN (FEET)	NET VERTICAL LIVE LOAD			NET VERTICAL WIND UPLIFT		
	1-SPAN	2-SPAN	3-SPAN	1-SPAN	2-SPAN	3-SPAN
2'-0"	50	70	70	90	90	90
2'-6"	45	70	70	90	90	90
3'-0"	40	70	70	90	90	90
3'-6"	35	70	70	90	90	90
4'-0"	30	60	70	85	80*	80*
4'-6"	25	50	55	65	70*	70*
5'-0"	20	40	45	55	60	65*
6'-0"	X	25	35	X	40	50
7'-0"	X	20	25	X	30	35

NOTES:

1. ALL LOADS MEET L/240 DEFLECTION CRITERIA UNLESS OTHERWISE NOTED.
2. WIND LOAD ALLOWABLES INCREASED BY 33 PERCENT.
3. * DENOTES LOADS CONTROLLED BY STANDARD UL-90 CONNECTION.



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Manufacturing
Company

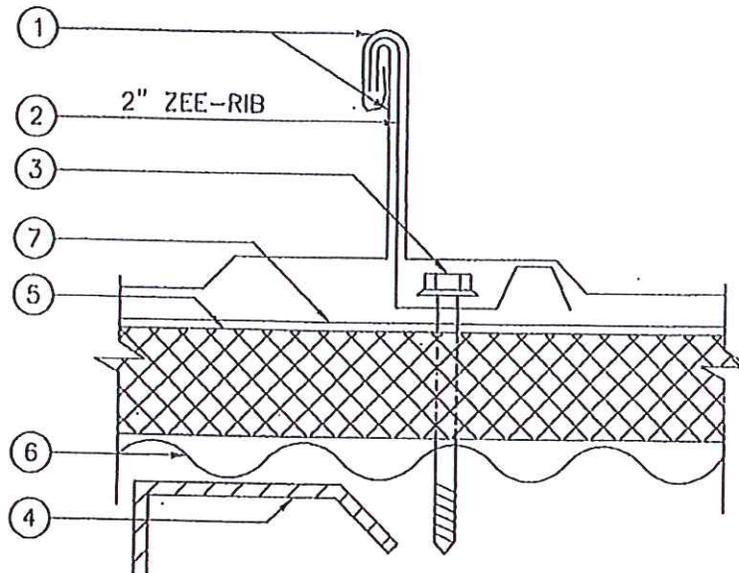
INSTALLATION INSTRUCTIONS
STRUCTURAL PROPERTIES

DOUBLE LOCK ZEE-LOCK PANEL

DATE: 10-24-06

PAGE \ FILE

DZI-7



1. BERRIDGE ZEE-LOCK PANEL * - NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS. WITHOUT END LAPS. AN OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. - "ZEE-LOCK PANEL"
 2. BERRIDGE ZEE-RIB (CONTINUOUS) * - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) ZEE-RIB LOCATED AT EACH PANEL SIDE LAP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM 1) (2" ZEE-RIB).
 3. FASTENERS (SCREWS) - FOR ATTACHING "ZEE-RIB" (ITEM 2) TO S-DECK (ITEM 6). USE NO. 12 SELF-DRILLING, SELF-TAPPING STEEL SCREWS. ONE FASTENER AT 24" O.C.
 4. PURLINS - NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING. BERRIDGE MANUFACTURING "CEE" OR "ZEE" PURLINS.
 5. INSULATION - 4" RIGID INSULATION BOARD.
 6. BERRIDGE S-DECK METAL STRUCTURAL SHEATHING - NO. 24 MSG STEEL (MIN. YIELD STRENGTH 40,000 PSI), CORRUGATED DECK.
 7. # 30 FELT UNDERLAYMENT.
 8. LATERAL BRACING - (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.
- * BEARING THE UL CLASSIFICATION MARKING.



**Berridge
Manufacturing
Company**

UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
INSULATION BOARD OVER BERRIDGE 22 GA. CORRUGATED
S-DECK, AND 16 GA. PURLINS @ 5'-0" O.C. MAX.
MODIFICATION OF UL CONSTRUCTION NUMBER 335

DATE: 10-24-06

DOUBLE LOCK ZEE-LOCK PANEL

PAGE \ FILE
DZ-96

3/11

Open
Drazen

813-383-5515

Downtown Bradenton Transit Station
Bradenton, Florida

CONTRACTOR'S REQUEST FOR SUBSTITUTION

PROJECT: Downtown Bradenton Transit Station DATE: March 3, 2011

SPECIFICATION SECTION: 08 11 00 ITEM(S): Steel Doors and Frames

SPECIFIED MANUFACTURER: Cecodoor Products

SPECIFIED MODEL NO: _____

PROPOSED MANUFACTURER: Daybar Industries

PROPOSED MODEL NO: AS-14 Frames / WS-14 Doors

REASON/S FOR Manufacturer - Local Distributor Sells

REQUEST FOR _____

SUBSTITUTION _____

Attach complete technical data, including laboratory tests, if applicable, in duplicate.

A. Will approval affect dimensions shown on Drawings in any way? No Yes
Explain (Attach drawings if necessary): _____

B. Will the Contractor pay for any changes to the building design, including engineering and detailing costs caused by the approval? No Yes
Explain: _____

C. Will approval affect the work of other trades? No Yes
Explain: _____

D. Manufacturer's guarantees of the proposed and specified items are: Same Different
Explain: _____

E. Does the proposed item meet all applicable Codes, Ordinances and regulations for this specific application? No Yes
Explain: _____

Downtown Bradenton Transit Station
Bradenton, Florida

- F. Has proposed item been used locally in similar applications? No Yes
Explain: No local jobs have required Hqa material. Generally only used in detention grade buildings
- G. If approved, will the Owner receive a credit for the proposed alternate material? No Yes
Explain: If approved, bid will be placed based upon alternate price.
- H. Does the proposed alternate material meet the same applicable standards (ASTM, ANSI, UL, FS.) as the specified item? No Yes
Explain: _____

It is the Contractor's responsibility to provide all information necessary to determine the proposed alternate material is equal or better than the specified item. This includes any test reports, product data, manufacturer's specifications, color samples, product samples or the like as may be required for an evaluation.

The Architect and Owner will not be required to prove any product is not equal or suitable to the Project.

SUBMITTED BY: Dan Cornelius
Firm: Suncoast Commercial Door & Hardware, Inc.
Address: 5054 Clark Center Ave
Sarasota, FL 34238

Signature: [Signature] Date: March 3, 2011

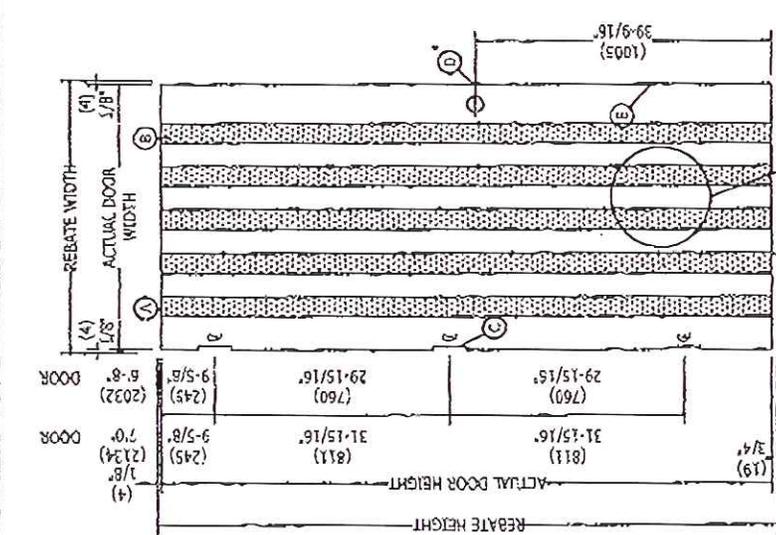
FOR ARCHITECT'S USE:

Not Acceptable

No Exceptions Taken

By: [Signature] Date: 03.11.2011

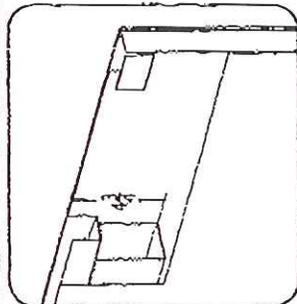
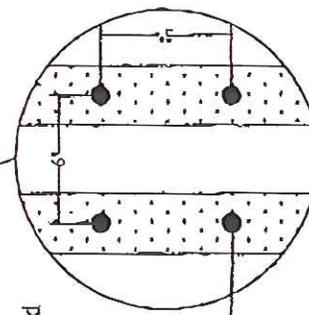
END OF SECTION 01 60 10



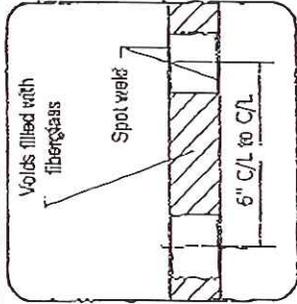
TECHNICAL SPECIFICATION:

Standard Material:
A40 Galvaneal Prime Painted
16 Gauge
Optional Material:
G90 Galvanized

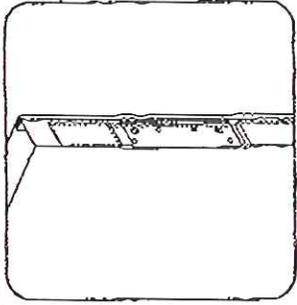
SPOT WELD



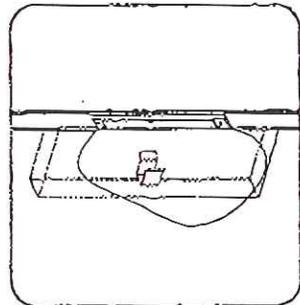
A. CLOSER REINFORCEMENT / TOP CHANNEL
14 ga. closer reinforcement,
fitted to 16 ga. inverted top channel



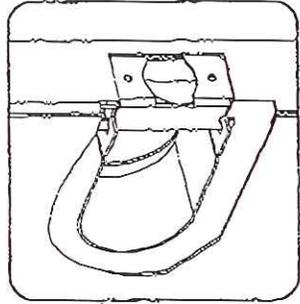
B. 20 GA. STIFFENERS VOIDS FILLED WITH FIBERGLASS



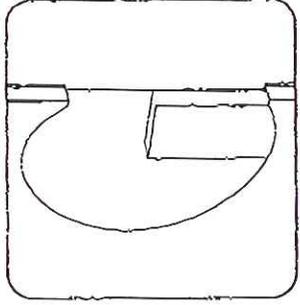
C. HERGE REINFORCEMENT
7 GA. universal for standard or
heavy weight 4.5" High template butt hinges



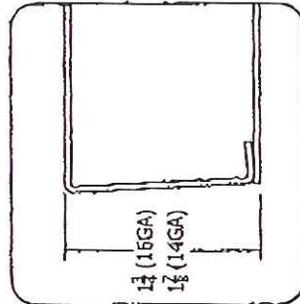
**D. ANSI A115.1 #06
MORTISE LOCK REINFORCEMENT**
14 ga. reinforcement with lock guide
D & T for #12-24 screw



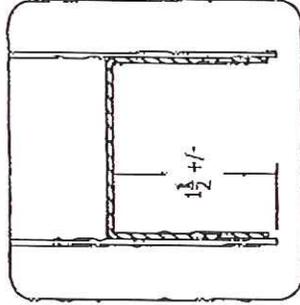
***D. ANSI A115.2 #161
LOCK REINFORCEMENT (SHOWN)**
14 ga. reinforcement, 2-3/4" backset
D & T for #8-32 screw



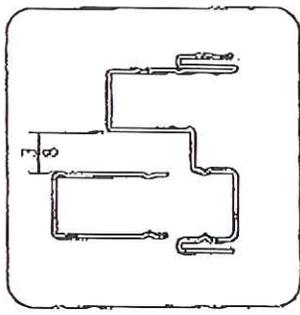
D. RIM PANEL REINFORCEMENT
14 ga. reinforcement
(includes reinforcement for surface
vertical rod or surface bolts)



**E. BEVELLED EDGES
FULLY WELDED LAP SEAM DESIGN**
1/8" IN 2"



F. BOTTOM CHANNEL
16 gauge inverted bottom channel



G. WHI LISTED DOOR GLAZING KIT
(Snap in bead)

WELD SEAM (WS) DOORS

Drawn by: LX

Date: 05/27/2004

Drawing No.

PROJECT:

SHEET:

DAYBAR

○ OF ○

Certification requirement for procurement of steel, iron, or manufactured products.

Certificate of Compliance with 49 U.S.C. 5323(j)(1)

The bidder or offeror hereby certifies that it will meet the requirements of 49 U.S.C. 5323(j)(1) and the applicable regulations in 49 CFR Part 661.5.

Date _____

Signature _____

Company Name _____

Title _____

Certificate of Non-Compliance with 49 U.S.C. 5323(j)(1)

The bidder or offeror hereby certifies that it cannot comply with the requirements of 49 U.S.C. 5323(j)(1) and 49 C.F.R. 661.5, but it may qualify for an exception pursuant to 49 U.S.C. 5323(j)(2)(A), 5323(j)(2)(B), or 5323(j)(2)(D), and 49 C.F.R. 661.7.

Date _____

Signature _____

Company Name _____

Title _____

APPENDIX A, 49 CFR PART 20--CERTIFICATION REGARDING LOBBYING

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)]
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

Disadvantage Business Enterprise (DBE)

General: Take all necessary and reasonable steps to ensure that FDOT Certified Disadvantaged Business Enterprises, as defined in 49 CFR Part 26 and DOT Rule Chapter 14-78, have the opportunity to participate in, compete for and perform subcontracts. Do not discriminate on the basis of age, race, color, religion, national origin, sex or disability in the award and performance of FDOT assisted Contracts.

Plan Requirements: Include the following in the DBE Affirmative Action Program Plan:

(a) A policy statement, expressing a commitment to use DBEs in all aspects of contracting to the maximum extent feasible. The policy making body must issue a policy statement signed by the chairperson, which expresses its commitment to utilize DBEs, outlines the various levels of responsibility, and states the objectives of the program. Circulate the policy statement throughout the Contractor's organization.

(b) The designation of a Liaison Officer within the Contractor's organization, as well as support staff, necessary and proper to administer the program, and a description of the authority, responsibility, and duties of the Liaison Officer and support staff. The Liaison Officer and staff are responsible for developing, managing, and implementing the program on a day-to-day basis for carrying out technical assistance activities for DBEs and for disseminating information on available business opportunities so that DBEs are provided an equitable opportunity to participate in Contracts let by the FDOT.

Use techniques to facilitate DBE participation in contracting activities which include, but are not limited to:

1. Soliciting price quotations and arranging a time for the review of plans, quantities, specifications, and delivery schedules, and for the preparation and presentation of quotations.
2. Providing assistance to DBEs in overcoming barriers such as the inability to obtain bonding, financing, or technical assistance.
3. Carrying out information and communication programs or workshops on contracting procedures and specific contracting opportunities in a timely manner, with such programs being bilingual where appropriate.
4. Encouraging eligible DBEs to apply for certification with the FDOT
5. Contacting Minority Contractor Associations and city and county agencies with programs for disadvantaged individuals for assistance in recruiting and encouraging eligible DBE contractors to apply for certification with the FDOT.

8. Disadvantage Business Enterprise (DBE) (Continued)

DBE Records and Reports: Submit the **Anticipated DBE Participation Statement** at or before the Pre-Construction Conference (**FORM #275-030-12**).

Report monthly, through the Equal Opportunity Reporting System on the FDOT's Website (www.bipincwebapps.com/bizwebflorida/), actual payments, retainage, minority status, and work type of all subcontractors and major suppliers. The FDOT Equal Opportunity Office will provide instructions on accessing this system. Develop a record keeping system to monitor DBE affirmative action efforts which include the following:

- (a) the procedures adopted to comply with these Specifications;
- (b) the number of subordinated Contracts on FDOT projects awarded to DBEs;
- (c) the dollar value of the Contracts awarded to DBEs;
- (d) the percentage of the dollar value of all subordinated Contracts awarded to **DBEs as a percentage of the total Contract amount;**
- (e) a description of the general categories of Contracts awarded to DBEs; and
- (f) the specific efforts employed to identify and award Contracts to DBEs.

Upon request, provide the records to the FDOT for review.

All such records are required to be maintained for a period of five years following acceptance of final payment and have them available for inspection by the FDOT and the Federal Highway Administration.

9. Equal Employment Opportunity

Equal Employment Opportunity Policy: Accept as the operating policy, the following statement which is designed to further the provision of equal employment opportunity to all persons without regard to their age, race, color, religion, national origin, sex, or disability and to promote the full realization of equal employment opportunity through a positive continuing program:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their age, race, religion, color, national origin, sex, or disability. Such action must include: employment upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or

termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training.

9. Equal Employment Opportunity (Continued)

Equal Employment Opportunity Officer: Designate and make known to the Department's contracting officers an equal employment opportunity officer (hereinafter referred to as the EEO Officer) who must be capable of effectively administering and promoting an active Contractor program employment opportunity and who must be assigned adequate authority and responsibility to do so.

Dissemination of Policy: All members of the Contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the Contractor's equal employment opportunity policy and contractual responsibilities.

Recruitment: When advertising for employees, include in all advertisements for employees the notation "An Equal Opportunity Employer".

Personnel Actions: Establish and administer wages, working conditions, employee benefits, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination without regard to age, race, color, religion, national origin, sex, or disability.

Follow the following procedures:

- (1) Conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
- (2) Periodically evaluate the spread of wages paid with each classification to determine any evidence of discriminatory wage practices.
- (3) Periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action must include all affected persons.
- (4) Investigate all complaints of alleged discrimination made in connection with obligations under this Contract, attempt to resolve such complaints, and take appropriate corrective action. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action must include such other persons. Upon completion of each investigation inform every complainant of all of the avenues of appeal.

Subcontracting: Use the best efforts to ensure subcontractor compliance with their equal employment opportunity policy.

9. Equal Employment Opportunity (Continued)

Records and Reports: Keep such records as are necessary to determine compliance with the equal employment opportunity obligations. The records kept will be designed to indicate the following:

- (1) The number of minority and non-minority group members employed in each work classification on the project.
- (2) The progress and efforts being made in cooperation with unions to increase minority group employment opportunities (applicable only to Contractors who rely in whole or in part on unions as a source of their work force).
- (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority group employees as deemed appropriate to comply with their Equal Employment Opportunity Policy.
- (4) The progress and efforts being made in securing the services of minority group subcontractors or subcontractors with meaningful minority group representation among their employees as deemed appropriate to comply with their Equal Employment Opportunity Policy.

All such records must be retained for a period of three years following completion of the contract work and be available at reasonable times and places for inspection by authorized representatives to the Department and the Federal Highway Administration.

Upon request, submit to the Department a report of the number of minority and non-minority group employees currently engaged in each work classification required by the Contract work.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF SCHENKELSHULTZ AND HEREBY CREATED, INVENTED, AND DEVELOPED FOR USE AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF SCHENKELSHULTZ. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. REVIEW OF BIDDING DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENT OF MEETING AND EXCEEDING THE PLANS AND SPECIFICATIONS. CONFIDENTIAL COPYRIGHT 2008 SCHENKELSHULTZ. WARNING: REPRODUCTION HEREOF BY ANY MEANS, OFFENSE UNDER FEDERAL, STATE, AND FEDERAL LAWS. DISCLOSURE MAY CONSTITUTE A VIOLATION OF APPLICABLE STATE AND FEDERAL LAW. THE IDEAS, ARRANGEMENTS AND DESIGN DISCLOSED HEREIN MAY BE PATENTED OR BE THE SUBJECT OF PENDING PATENT APPLICATION.

Glenn W. Warburton, P.E.
 FLORIDA LICENSE NO. #46023

**Downtown
 Bradenton
 Transit Station**

601 13th Street West
 Bradenton, FL 34205

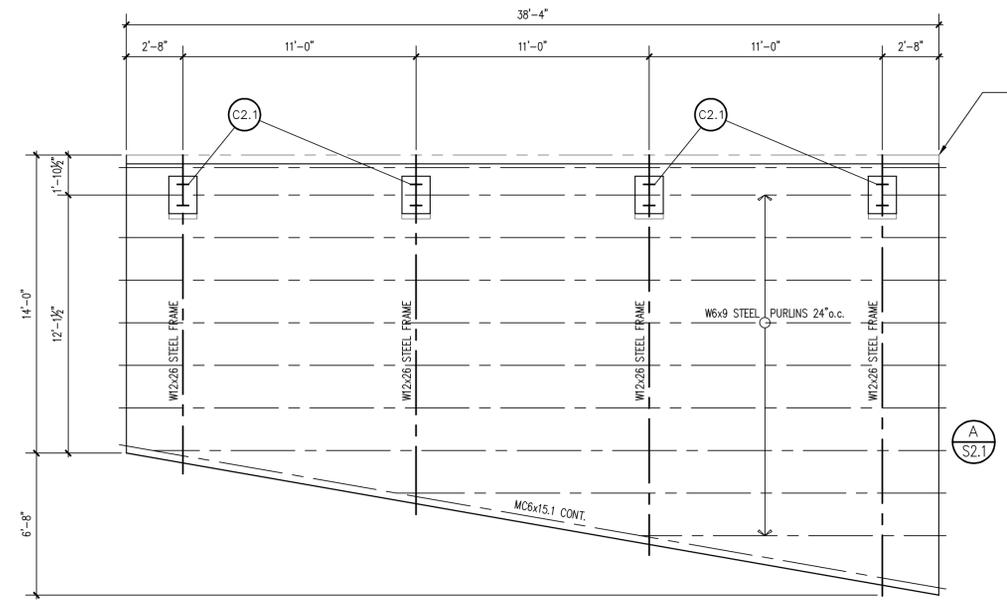
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 1112 Manatee Ave West
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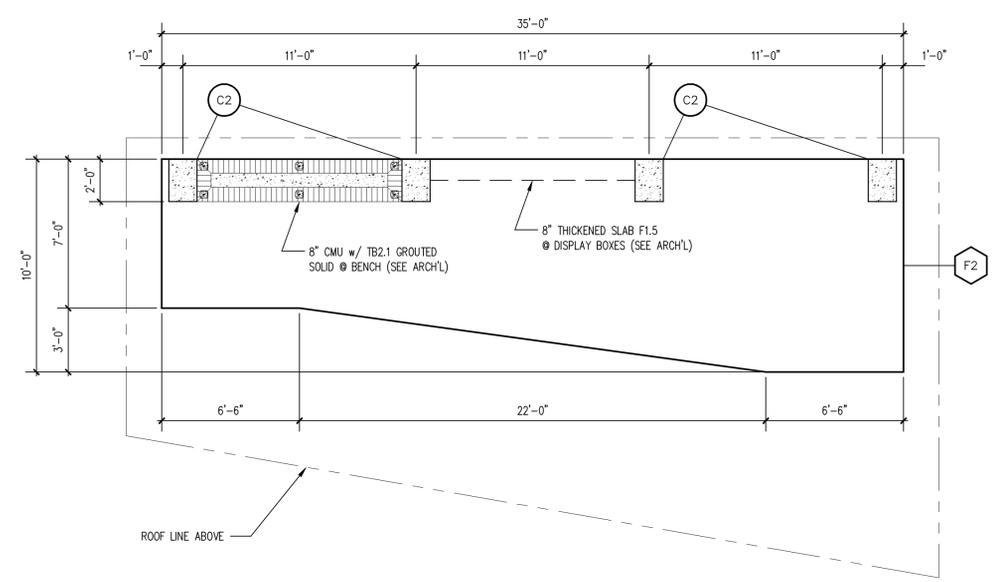
drawn: GWW
 checked: -
 date: 11.12.2010
 ZNS file no.: 00-42278

**BUS SHELTER
 STRUCTURE**

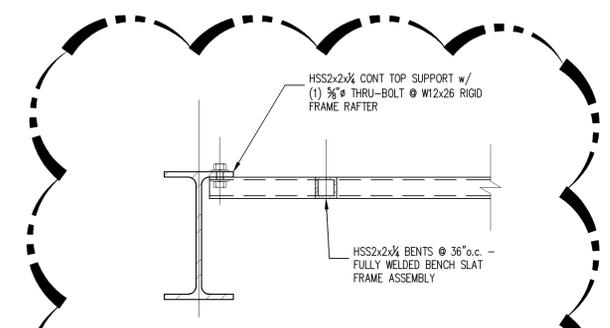
S-2.1



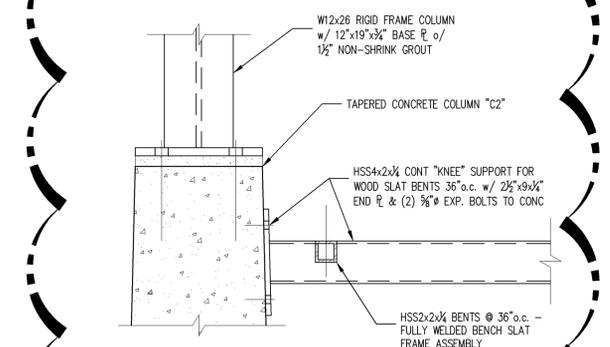
BUS SHELTER ROOF FRAMING PLAN
 SCALE: 1/4" = 1'-0"



BUS SHELTER FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"

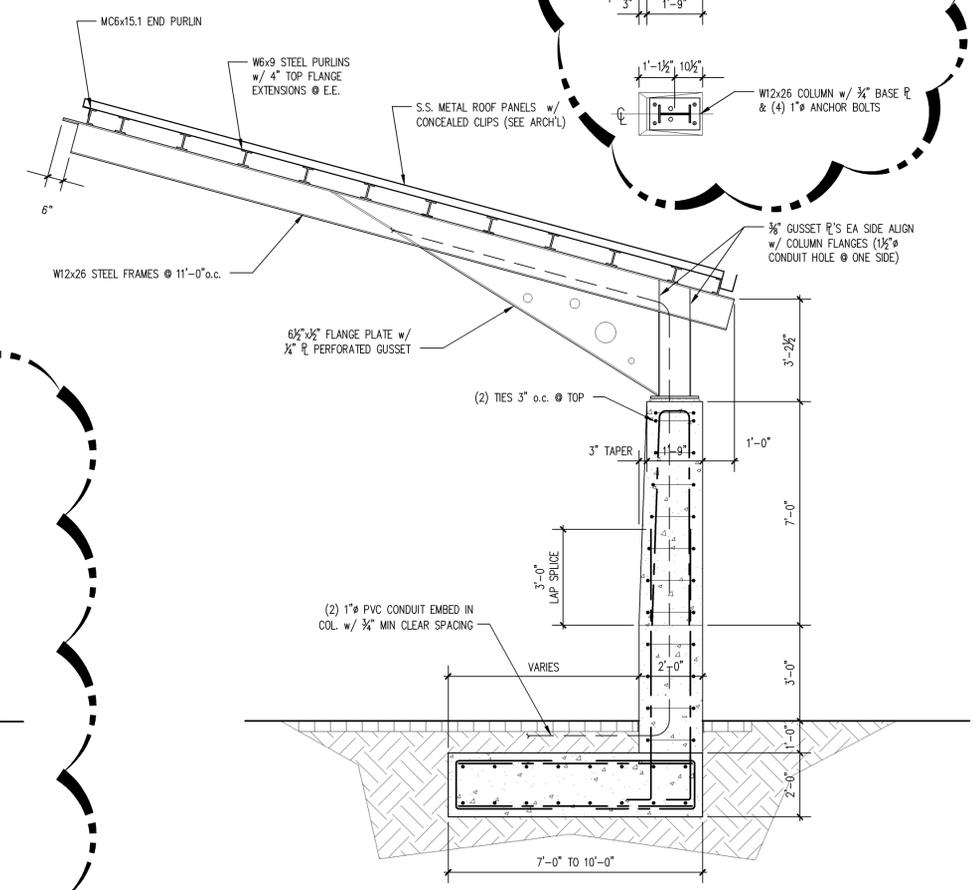


SLAT FRAME TOP CONNECTION
 SCALE: 1 1/2" = 1'-0"

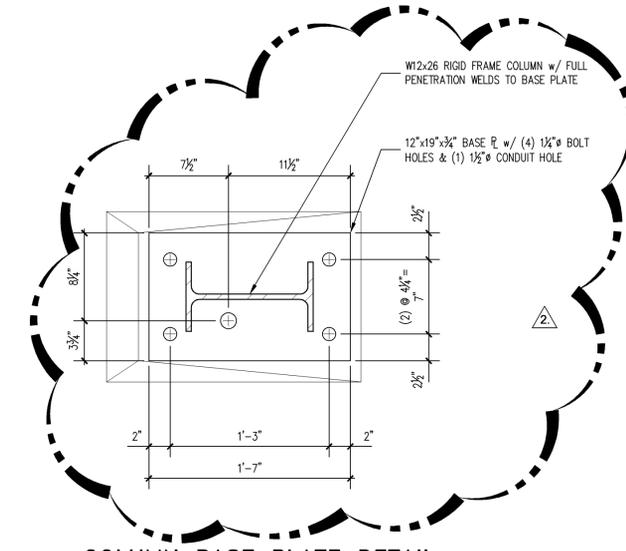


"C2" COLUMN CONNECTIONS
 SCALE: 1 1/2" = 1'-0"

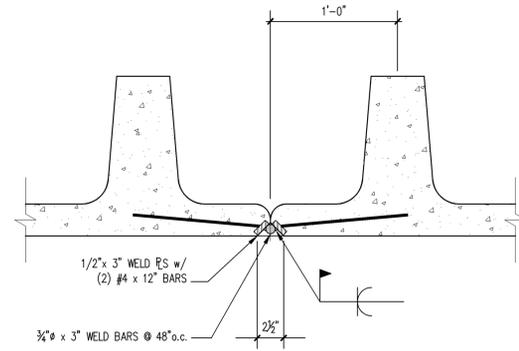
- PLAN NOTES:
1. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISHES AND RECESSES WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.
 2. ALL ELEVATIONS SHOWN THUS EL(+0'-0") ARE REFERENCED FROM THE GROUND FLOOR SLAB.
 3. TOP OF FOOTINGS SHALL BE AT EL(-1'-0") UNLESS NOTED OTHERWISE.
 4. CENTERLINE OF COLUMNS AND WALLS SHALL COINCIDE WITH FOUNDATION CENTERLINES U.N.O.
 5. @ INDICATES GROUT FILLED CELL w/ (1) #5 VERTICAL REBAR @ 40" o.c. TYPICAL U.N.O.
 6. ALL EXPOSED CONCRETE SHALL HAVE HAND RUBBED FINISH U.N.O. (SEE ARCH'L)
 7. STANDING SEAM METAL ROOF PANELS SHALL BE INSTALLED o/ STEEL PURLINS @ 2'-0" o.c. w/ (2) 1/4" SELF-DRILLING SCREWS @ EA SUPPORT.
 8. REFER TO SHEET S-5.1 FOR STRUCTURAL NOTES, SCHEDULES & ADDITIONAL INFORMATION.



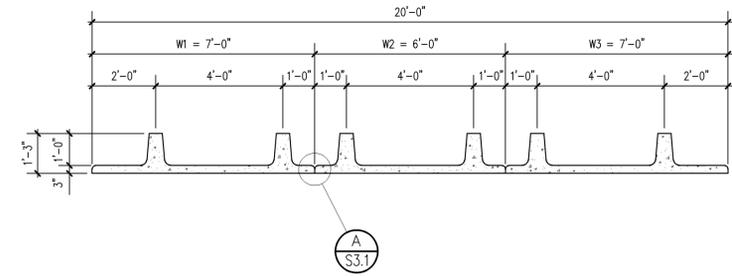
BUS SHELTER SECTION A-A
 SCALE: 3/8" = 1'-0"



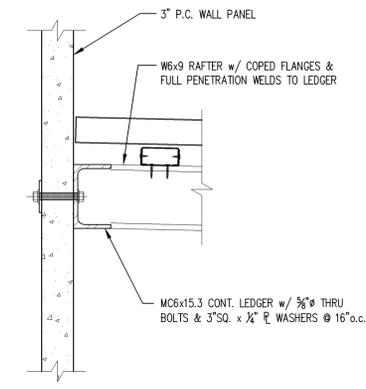
COLUMN BASE PLATE DETAIL
 SCALE: 1 1/2" = 1'-0"



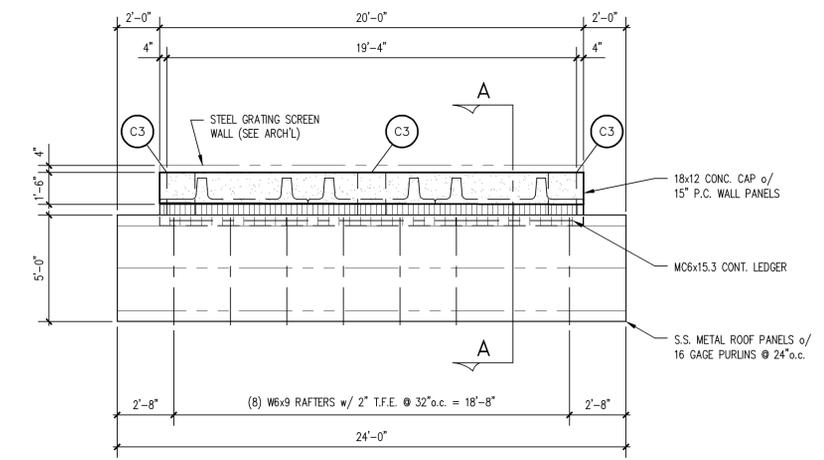
A
S3.1 **DBL TEE FLANGE CONNECTION**
SCALE: 1 1/2" = 1'-0"



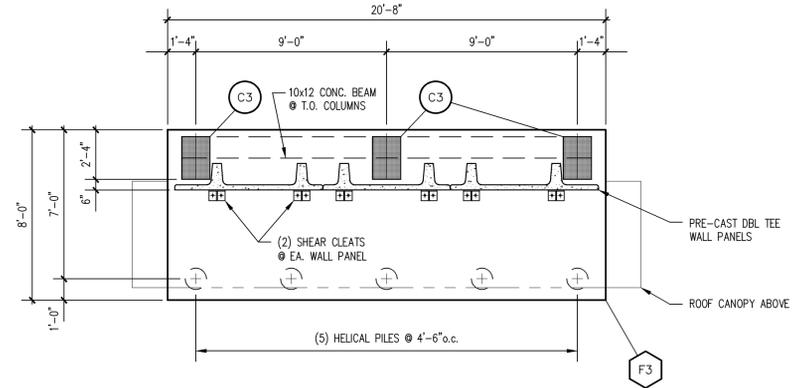
B
S3.1 **15" DBL TEE WALL PANELS**
SCALE: 3/16" = 1'-0"



C
S3.1 **RAFTER / LEDGER CONN.**
SCALE: 1 1/2" = 1'-0"

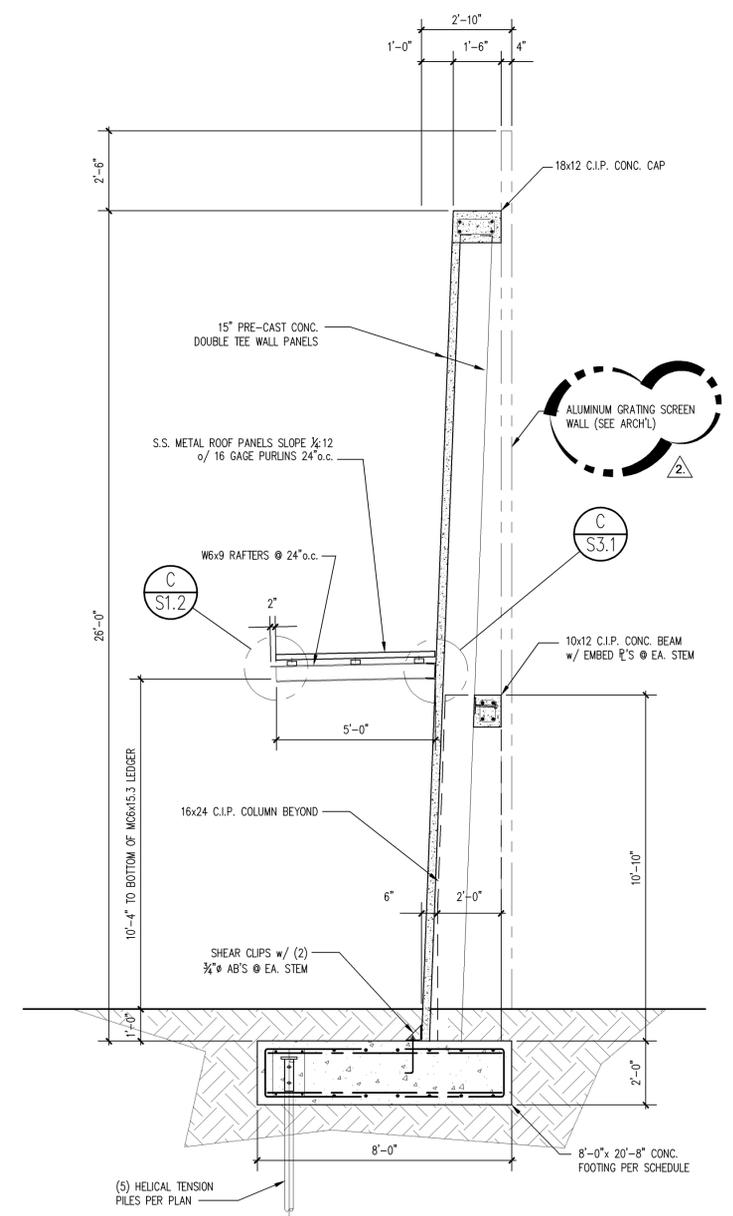


ART WALL FRAMING PLAN
SCALE: 1/4" = 1'-0"



ART WALL FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

- PLAN NOTES:
1. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISHES AND RECESSES WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.
 2. ALL ELEVATIONS SHOWN THUS EL(+0'-0") ARE REFERENCED FROM THE GROUND FLOOR SLAB.
 3. TOP OF FOOTINGS SHALL BE AT EL(-1'-0") UNLESS NOTED OTHERWISE.
 4. HELICAL PILE DESIGN BY SPECIALTY ENGINEER FOR 17 KIP ALLOWABLE TENSILE CAPACITY.
 5. P.C. WALL PANEL DESIGN BY SPECIALTY ENGINEER FOR +/- 50 FT-KIP ULTIMATE BENDING MOMENT CAPACITY.
 6. ALL EXPOSED CONCRETE SHALL HAVE HAND RUBBED FINISH U.N.O. (SEE ARCH'L)
 7. STANDING SEAM METAL ROOF PANELS SHALL BE INSTALLED o/ STEEL PURLINS @ 2'-0" o.c. w/ (2) 1/4" SELF-DRILLING SCREWS @ EA SUPPORT.
 8. REFER TO SHEET S-5.1 FOR STRUCTURAL NOTES, SCHEDULES & ADDITIONAL INFORMATION.



ART WALL SECTION A-A
SCALE: 3/8" = 1'-0"

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drawn: GWW
checked: -
date: 11.12.2010
ZNS file no.: 00-42278

ART WALL STRUCTURE

S-3.1

STRUCTURAL NOTES

GENERAL NOTES:
 ARCHITECTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEETAILS, DEPARTMENTS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE-DOWNS.

DESIGN LOADS:
 STRUCTURAL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE & 2009 SUPPLEMENTS UTILIZING SUPERIMPOSED LOADS AS FOLLOWS:
 ROOF:
 LIVE LOAD = 20 psf
 DEAD LOAD = 15 psf (4 psf AVAILABLE TO RESIST UPLIFT).
 MECHANICAL = 10 psf.

WIND:
 130 MPH BASIC WIND SPEED (ASCE 7-05).
 EXPOSURE "B", IMPORTANCE FACTOR (I) = 1.0
 BUILDING CLASSIFICATION "ENCLOSED" G_{cp} = +/- 0.18 ; "OPEN" G_{cp} = +/- 0.0

SHOP DRAWING REVIEW:
 SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. IN ALL INSTANCES THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.

FOUNDATIONS:
 FOUNDATION DESIGN IS BASED ON 2,000 psf ALLOWABLE SOIL BEARING PRESSURE. REFER TO THE FOLLOWING SOIL REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS, SITE PREPARATION REQUIREMENTS, AND FOUNDATION INSTALLATION PROCEDURES.
 Report by: ARDAMAN & ASSOCIATES, INC. ; File No. 10-7234 dated July 2, 2010
 TITLED: Geotechnical Exploration for "13th Street Bus Transfer Station,"
 13th Street West, Bradenton, Manatee County, Florida

CONCRETE:
 SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW FOR FOUNDATIONS AND SLABS ON GRADE.
 4000 psi FOR ALL OTHER STRUCTURAL CONCRETE.
 SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD TESTS AND STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318 FOR REVIEW PRIOR TO USE. EACH MIX SHALL BE UNQUELTY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION AND INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC.
 CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ALL STANDARDS AND SPECIFICATIONS. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. CALCIUM CHLORIDES SHALL NOT BE UTILIZED, OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

CONCRETE TESTING:
 AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:
 ASTM C143 - "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE" WITH A MAXIMUM SLUMP OF 6 INCHES.
 ASTM C39 - "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS" A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY.
 REQUIRED CYLINDER QUANTITIES AND TEST AGE SHALL BE AS FOLLOWS:
 (1) AT 7 DAYS; (2) AT 28 DAYS; AND (1) ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER AS REQUIRED. IF THE REQUIRED 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.

FORMWORK AND SHORING:
 NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.

MASONRY WALLS:
 MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH UNIT STRENGTH OF 1900 psi ON THE NET AREA (f_m = 1500 psi). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270. GROUT SHALL BE 2000 psi MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-270. UNLESS NOTED OTHERWISE, WALLS SHALL BE EIGHT INCH REINFORCED MASONRY WALL CONSTRUCTION WITH #5 VERTICAL REINFORCING BARS IN GROUT FILLED CELLS AT 48 INCHES O.C., CORNERS, ENDS OF WALLS, AND EACH SIDE OF ALL OPENINGS. PROVIDE ACI STANDARD HOOKS FOR FOOTING DOWELS AND TERMINATION OF ALL VERTICAL REINFORCING LAP SPICES SHALL BE 48 BAR DIAMETERS. PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES.

THE BEAMS:
 BEAMS WITH THE PREFIX "TB" SHALL BE OF POURED AFTER THE BLOCK WALLS BELOW ARE IN PLACE. REINFORCING SHALL BE CONTINUOUS THROUGH THE BEAMS WITH MINIMUM LAP SPICES OF 48 BAR DIAMETERS AND BENT BARS AT CORNERS. USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE TO AREA REQUIRED, IN ACCORDANCE WITH ACI 530.1, SECTION 4.3.3.3 (SOLID METAL OR FELT CAVITY CAPS ARE PROHIBITED).

LINTELS:
 MASONRY OPENINGS LESS THAN 6 FEET SHALL BE SPANNED WITH 8"x8" PRECAST CONCRETE LINTELS WITH #5 REINFORCING BAR. ALL PRECAST LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END.

REINFORCING STEEL:
 SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION. WELDED WIRE FABRIC TO CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.

CHEMICAL ANCHORS:
 SHALL BE AN EQUAL TWO PART STRUCTURAL EPOXY, SUCH AS RAMSET "EPCON", RAWL "POWER-FAST", SIMPSON STRONG-TIE "SET", OR ENGINEER APPROVED SUBSTITUTION, INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

PENETRATIONS:
 NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

STRUCTURAL STEEL:
 SHALL CONFORM TO ASTM A36 OR A992 & THE "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED, UNLESS NOTED OTHERWISE. STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZING IS INDICATED ON THE DRAWINGS.
 STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500, GRADE B, F_y=46 ksi.
 STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE B, TYPE E OR S, F_y=35 ksi
 ALL BOLTED CONNECTIONS SHALL CONSIST OF MINIMUM 3/4 INCH DIAMETER ASTM A-325 HIGH STRENGTH BOLTS. BEAM CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR THE REACTIONS SHOWN ON THE PLANS. IF NOT SHOWN, THE FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS TO SUPPORT AN END REACTION OF W/2 KIPS FROM THE TABLES IN PART 2 "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" OF THE MANUAL OF STEEL CONSTRUCTION (9TH EDITION), BUT CONNECTIONS SHALL NOT HAVE LESS THAN 2 ROWS OF BOLTS. ANCHOR BOLTS SHALL CONFORM TO ASTM A-307 OR A-36 (THREADED ROD).

MACHINE AND LAG BOLTS:
 SHALL BE A-307 HOT DIPPED GALVANIZED WITH GALVANIZED WASHERS.

SHEAR STUD CONNECTORS:
 SHEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE", SECTION 7 - STUD WELDING. STUDS SHALL BE TYPE "B", HEADED STUDS HAVING A MINIMUM TENSILE STRENGTH OF 60,000 psi, AND SHALL BE OF LENGTH AND DIAMETER SHOWN ON STRUCTURAL DRAWINGS.

STEEL JOISTS & JOIST GIRDERS:
 SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR JOIST GIRDERS AS PUBLISHED BY THE STEEL JOIST INSTITUTE (SJI). GIRDERS SHALL BE OF THE DEPTH AND SPACING SHOWN ON THE STRUCTURAL DRAWINGS, AND UNLESS OTHERWISE NOTED, GIRDERS SHALL BE DESIGNED AS SIMPLY SUPPORTED PRIMARY MEMBERS PROPORTIONED SUCH THAT THEY MAY BE ERECTED WITHOUT BRIDGING GIRDER PANEL POINTS SHALL BE ALIGNED WITH SECONDARY MEMBERS.

CONCRETE SUPPORTS:
 UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS, GIRDERS SHALL BEAR ON 3/4" x 7" x 1'-0" STEEL BEARING PLATES WITH A MINIMUM OF FOUR 1/2" DIAMETER x 6" LONG SHEAR STUD CONNECTORS. BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE SUPPORTING MEMBER. MINIMUM JOIST GIRDER BEARING SHALL BE 6" WITH A MINIMUM OF (2) 1/2" x 2" FILLET WELDS TO BEARING PLATE.
 STEEL SUPPORTS:
 UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS, GIRDERS MAY BE DIRECTLY CONNECTED TO STEEL GIRDERS HAVING A FLANGE THICKNESS GREATER THAN 3/8". THE CONNECTION SHALL BE DESIGNED TO RESIST ALL UPLIFT AND SHEAR LOADS; HOWEVER, A MINIMUM OF TWO 3/4" DIAMETER HIGH STRENGTH BOLTS SHALL BE UTILIZED.

SUPPLIER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW BY THE S STRUCTURAL ENGINEER PRIOR TO FABRICATION. SHOP DRAWING SUBMITTAL SHALL INCLUDE LAYOUT, COMPONENT DESIGNATION, BRIDGING, AND PERTINENT SECTIONS AND DETAILS. SUBMITTALS SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

LIGHT GAUGE METAL FRAMING:
 STEEL STUDS, LINTELS, AND RUNNER TRACK MEMBERS SHALL BE OF TYPE SHOWN ON THE DRAWINGS AND SPECIFICATIONS CONFORMING TO ASTM A-446 GRADE C (MINIMUM YIELD POINT 40,000 psi) WITH HOT DIPPED GALVANIZED COATING CONFORMING TO ASTM A525 (CLASS G90). GALVANIZED STEEL RUNNER TRACK SHALL BE FORMED WITH MATERIAL MEETING REQUIREMENTS OF ASTM A-446 GRADE A (MINIMUM YIELD POINT 33,000 psi) WITH HOT DIPPED GALVANIZED COATING CONFORMING ASTM A-525 (CLASS G-90).

ASSEMBLY: ALL FRAMING MEMBERS SHALL BE CUT SQUARELY OR AT AN ANGLE AS REQUIRED TO FIT SQUARELY AGAINST ADJUTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY JOINED. JOINING OF STRUCTURAL MEMBERS SHALL BE MADE WITH SELF DRILLING SCREWS OR WELDING. WIRE TYING OF FRAMING MEMBERS IN STRUCTURAL APPLICATIONS SHALL NOT BE PERMITTED. ATTACHMENT OF COLLATERAL MATERIALS TO STEEL MEMBERS SHALL BE MADE WITH SELF DRILLING SCREWS OR HARDENED SCREW SHANK NAILS. METAL LATH MAY ALSO BE CONNECTED TO STEEL BY STAPLES OR OTHER FASTENERS, IF APPROVED BY LOCAL BUILDING CODE.

INSTALLATION: STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM RUNNER TRACK WITH FIRM ADJUTMENT AGAINST TRACK WEBS. STUDS SHALL BE ALIGNED OR PLUMBED AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM RUNNER TRACK.

WOOD FRAMING:
 STRUCTURAL WOOD COMPONENTS SHALL BE SOUTHERN PINE WITH MINIMUM ALLOWABLE FIBER STRESSES AS FOLLOWS:
 SHEAR F_v=90 psi
 BENDING F_b = 1,200 psi
 ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AITC-109. MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE. PLYWOOD ROOF SHEATHING IS DESIGNED AS DIAPHRAGMS AND SHALL COMPLY WITH APPLICABLE PROVISIONS OF THE FLORIDA BUILDING CODE AND FASTENED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF TABLE 2304.9.1 UNLESS NOTED OTHERWISE.

FOOTING SCHEDULE

MARK	SIZE (WxD)	REINFORCING	REMARKS
F1.1	2'-0" x 12" CONT.	(3) #5 CONT. BOTT	TOP OF STEMWALL FOOTING LOCATED 1'-4" BELOW FLOOR SLAB
F1.2	2'-8" x 12" CONT.	(3) #5 CONT. BOTT	TOP OF STEMWALL FOOTING LOCATED 1'-4" BELOW FLOOR SLAB
F1.3	3'-6" SQ. x 24"	(4) #5 EA. WAY TOP & BOTT	
F1.4	2'-4" x 5'-0" x 24"	(4) #5 EA. WAY TOP & BOTT	
F1.5	1'-0" x 8" CONT.	(2) #5	THICKENED SLAB POURED MONOLITHIC w/ 4" FLOOR SLAB
TE	8" x 8" CONT.	(1) #5	THICKENED SLAB EDGE POURED MONOLITHIC w/ 4" FLOOR SLAB
F2	35'-0" x 7'10" x 24"	#5 @ 12" o.c. EA. WAY TOP & BOTTOM	MATCH TOP & BOTT STEEL w/ #5 HAIRPINS 12" o.c. @ COLUMN SIDE
F3	20'-8" x 8'-0" x 24"	#5 @ 12" o.c. E.W. TOP & BOTT. w/ #5 HAIRPINS 12" o.c. @ LONG SIDES	(5) HELICAL PILES w/ 17 KIP TENSILE CAPACITY EA.
F4.1	8'-0" x 8'-0" x 24"	#5 @ 12" o.c. EA. WAY TOP & BOTTOM	
F4.2	3'-0" x 8'-0" x 24"	(4) #5 CONT. TOP & BOTT. w/ #4 STIRRUPS @ 12" o.c.	(2) HELICAL PILES w/ 17 KIP TENSILE CAPACITY EA.

NOTE:
 TOP OF ALL FOOTINGS SHALL BE LOCATED 12" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE

COLUMN SCHEDULE

MARK	SIZE	REINFORCING / BASE PLATE	TIES	REMARKS
C1	(2) W8x13	9"x36"x3/8" PL w/ (8) 3/8" x 16"x3" ANCHOR BOLTS	#3 @ 12" o.c.	DBL COLUMN SPACED 1'-9"
C1.1	16x16 CMU	(4) #6 VERTICAL	#2 @ 8" o.c.	8x16 CMU w/ FILLED CELLS
C1.2	W8x13	9"x14"x3/8" PL w/ (4) 3/8" x 16"x3" ANCHOR BOLTS	-	
C1.3	W8x24	10"x10"x3/8" PL w/ (4) 3/8" x 30"x3" ANCHOR BOLTS	-	
C2	16x24 C.I.P.	(8) #7 VERTICAL (3 Ea. Face)	(2) #3 @ 12" o.c.	CONC. TAPERED 3 SIDES TO 12"x21" @ TOP PER ARCH.
C2.1	W12x26	12"x19"x3/8" BASE PL w/ (4) 1" x 30"x3" AB'S or 1" N.S. GROUT	-	RIGID FRAME COLUMN
C3	16x24 C.I.P.	(8) #7 VERTICAL (3 Ea. Face)	(2) #3 @ 12" o.c.	C.I.P. CONC. w/ 3" TAPER @ TOP WEST SIDE PER DETAIL
C4	(2) W12x26	10"x30"x3/8" PL w/ (8) 3/8" x 30"x3" ANCHOR BOLTS	-	DBL COLUMN SPACED 1'-4"

COMPONENT & CLADDING DESIGN PRESSURES for OPEN STRUCTURES

Element Tributary Area (sq ft)	ROOF				WALLS	
	Zone 1	Zone 2	Overhang Zone 2	Overhang Zone 3	Zone 4	Zone 5
10	+7.7/-25.7	+7.7/-46.3	-43.8	-72.0	+25.7/-23.2	+25.7/-54.1
20	+7.0/-25.0	+7.0/-41.2	-43.0	-57.0	+24.5/-27.0	+24.5/-33.5
50	+5.9/-23.9	+5.9/-33.5	-42.0	-36.0	+22.7/-25.2	+22.7/-29.6
100	+5.1/-23.2	+5.1/-28.3	-41.2	-20.6	+21.1/-23.7	+21.1/-27.0

NOTES: Basic Wind Speed = 130 mph, I = 1.0, Exposure = B, Enclosure Classification = Open.
 Zone 1 = Roof areas not designated as zone 2/3.
 Zone 2 = Roof areas within 6 feet of building corner walls not including the overhangs.
 Zone 3 = Roof areas within 6 feet of building corners not including the overhangs.
 Zone 4 = Wall areas not designated as zone 5.

BEAM SCHEDULE

MARK	T.O. BEAM	SIZE (WxD)	REINFORCING	STIRRUPS	REMARKS
TB1.1	8'-8"	8"x8"	(1) #5 CONT.	-	CMU KNOCK-OUT BLOCK
TB1.2	14'-8"	8"x16"	(1) #5 CONT. TOP & BOTT	-	TWO 8" COURSE CMU KNOCK-OUT BLOCK
TB1.3	16'-8"	8"x8"	(1) #5 CONT.	-	CMU KNOCK-OUT BLOCK
TB1.4	18'-8"	8"x8"	(1) #5 CONT.	-	CMU KNOCK-OUT BLOCK
TB1.5	20'-8"	8"x8"	(1) #5 CONT.	-	CMU KNOCK-OUT BLOCK
TB1.6	10'-8"	8"x8"	(1) #5 CONT.	-	CMU KNOCK-OUT BLOCK
RB1.1	14'-8"	16"x16"	(2) #6 TOP HOOK E.E. & (4) #6 BOTT	#3 @ 6" o.c.	C.I.P. CONCRETE
RB1.2	14'-8"	8"x16"	(2) #5 CONT. TOP & BOTT	#3 @ 6" o.c.	C.I.P. CONCRETE
RB1.3	14'-8"	16"x16"	(2) #6 TOP & (3) #6 BOTT	#3 @ 6" o.c.	C.I.P. CONCRETE
RB1.4	14'-8"	8"x16"	(2) #5 CONT. TOP & BOTT	#3 @ 6" o.c.	C.I.P. CONCRETE
L1	VARIES	8"x24"	(1) #5 CONT. TOP & BOTT	#3 @ 8" o.c.	(2) COURSE 8" CMU K.O. BLOCK o/ 8" U-BLOCK
TB2.1	1'-3"	8"x8"	(1) #5 CONT.	-	8" CMU CHAIR BLOCK @ TOP OF BENCH STEMWALLS
TB3.1	9'-10"	10"x12"	(2) #6 CONT. TOP & BOTT	#3 @ 6" o.c.	C.I.P. CONCRETE w/ 2" CLEAR COVER
TB3.2	25'-0"	18"x12"	(2) #5 CONT. TOP & BOTT	#3 @ 12" o.c.	C.I.P. CONCRETE w/ 2" CLEAR COVER

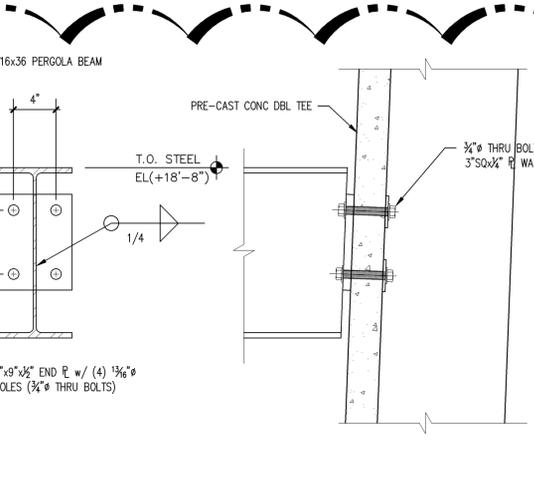


L1 - (3) COURSE CMU LINTEL GROUTED SOLID

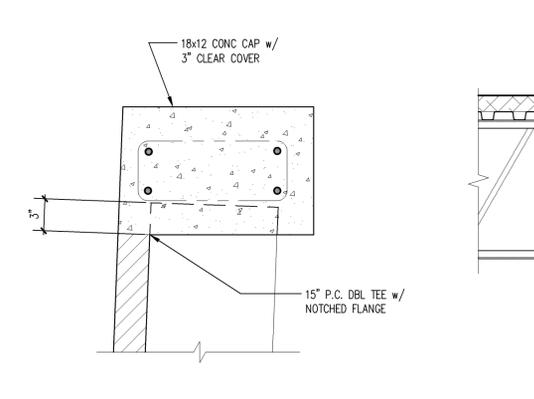
COMPONENT & CLADDING DESIGN PRESSURES for ENCLOSED BUILDING

Element Tributary Area (sq ft)	ROOF				WALLS	
	Zone 1	Zone 2	Overhang Zone 2	Overhang Zone 3	Zone 4	Zone 5
10	+12.4/-30.4	+12.4/-51.0	-43.8	-72.0	+30.4/-27.8	+30.4/-58.7
20	+11.6/-29.6	+11.6/-45.8	-43.0	-57.0	+29.1/-31.7	+29.1/-38.1
50	+10.6/-28.6	+10.6/-38.1	-42.0	-36.0	+27.3/-29.9	+27.3/-34.2
100	+9.8/-27.8	+9.8/-32.9	-41.2	-20.6	+25.7/-28.3	+25.7/-31.7

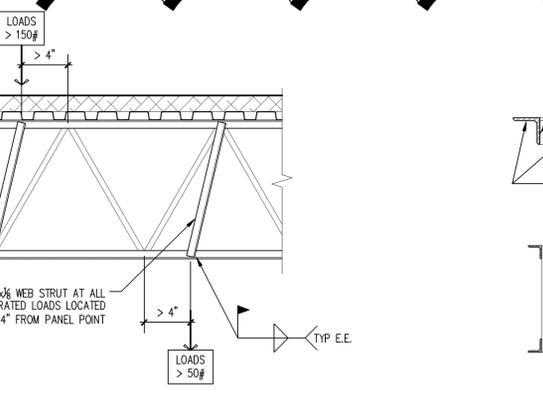
NOTES: Basic Wind Speed = 130 mph, I = 1.0, Exposure = B, Enclosure Classification = Enclosed.
 Zone 1 = Roof areas not designated as zone 2/3.
 Zone 2 = Roof areas within 6 feet of building corner walls not including the overhangs.
 Zone 3 = Roof areas within 6 feet of building corners not including the overhangs.
 Zone 4 = Wall areas not designated as zone 5.



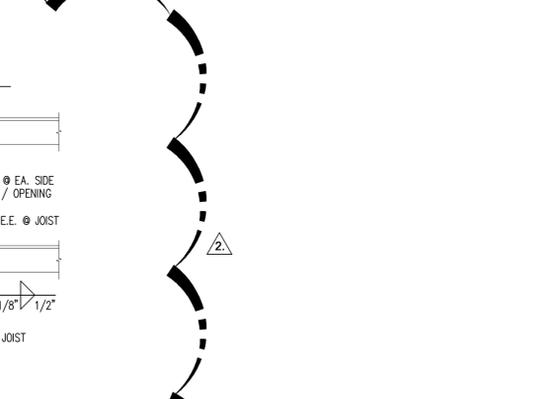
S. PERGOLA BEAM CONNECTION
 SCALE: 1 1/2" = 1'-0"



ART WALL CAP DETAIL
 SCALE: 1 1/2" = 1'-0"



JOIST REINFORCING @ POINT LOADS
 SCALE: 3/4" = 1'-0"



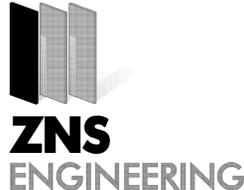
ROOF SUPPORT
 SCALE: 1 1/2" = 1'-0"

SCHENKELSHULTZ

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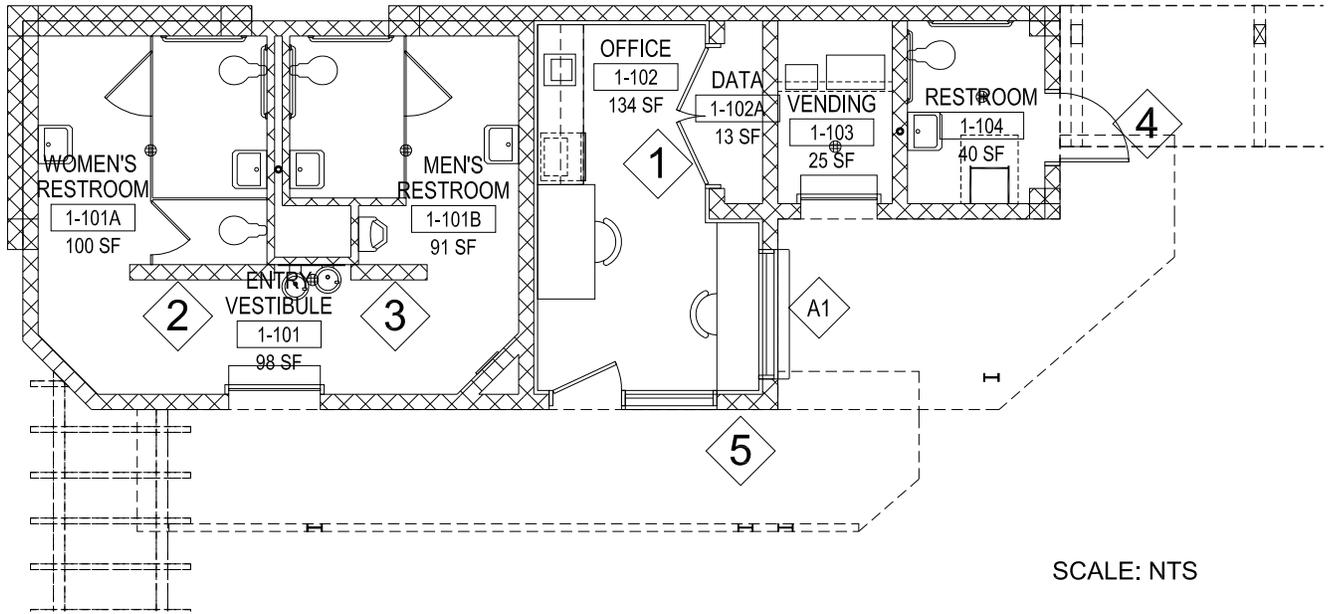
Manatee County Government
 1112 Manatee Ave West
 8th Floor
 Bradenton, FL 34205

REVISIONS:
 3-1-2011 Utility Permit Comments
 3-8-2011 Bid RFIs

drawn: GWW
 checked: -
 date: 11.12.2010
 ZNS file no.: 00-42278

STRUCTURAL NOTES SCHEDULES

S-5.1



SCALE: NTS

SIGNAGE SCHEDULE		
SIGN TYPE	SIZE	MOUNTING LOCATION
1	6" W. X 3" H.	48" ABOVE FLOOR TO BOTTOM, MOUNT ON DOOR
2	6" W. X 8" H.	60" AFF TO CENTERLINE
3	6" W. X 8" H.	60" AFF TO CENTERLINE
4	6" W. X 5" H.	60" AFF TO CENTERLINE
5	12" HIGH, 1" THICK	14'-6" TO BTM OF NUMBERS

SIGN TYPES				
NOTE: SIGN TYPES SHOWN - NOT TO SCALE				
				
			ATTACH TO DOOR	BUILDING ADDRESS NUMBER: 1" CAST ALUMINUM LETTERS SIZE AND MATERIAL - 12" HIGH PIN MOUNTED LETTERS

SIGNAGE PLAN

Suspension and Debarment

“The Bidder certifies that, neither the firm nor any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of federal funds:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transaction, as defined in 49 CFR s29.110(a), by any federal department or agency;

(b) has within a three-year period preceding this certification been convicted of or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state, or local government transaction or public contract; violation of federal or state antitrust statutes;

or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) is presently indicted for or otherwise criminally or civilly charged by a federal, state, or local governmental entity with commission of any of the offenses enumerated in paragraph 9(b) of this certification; and

(d) has within a three-year period preceding this certification had one or more federal, state, or local government public transactions terminated for cause or default.

The Bidder certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the Florida Department of Transportation.”

THE CONTRACTOR CERTIFIES THE ABOVE STATEMENT:

Signature

Printed Name