



**ALACHUA COUNTY
GENERAL CONSTRUCTION AGREEMENT FOR BID NO. 25-402-LC**

**PROJECT NO. 8211903
AGREEMENT NO. 14329
ALACHUA COUNTY EMERGENCY OPERATIONS CENTER (EOC) & FIRE RESCUE
ADMINISTRATION RENOVATIONS**

ULLOA MANAGEMENT GROUP, LLC

GENERAL CONSTRUCTION AGREEMENT

THIS GENERAL CONSTRUCTION AGREEMENT ("Agreement") is made and entered into by and between Ulloa Management Group, LLC, a Florida limited liability corporation, whose principal address is 806 N 19th Street, Palatka, FL 32117 (hereinafter referred to as "Contractor"), and Alachua County, charter county and political subdivision of the State of Florida, by and through its Board of County Commissioners, (hereinafter referred to as the "County"). Collectively, the County and Contractor are hereinafter referred to as the "Parties."

WITNESSETH:

WHEREAS, the County issued Bid No. 25-402-LC seeking the bids from contractors to provide all labor, materials, equipment and supervision for the re-purposing of the recently vacated existing two-story armory building to accommodate the Alachua County Emergency Operations Center (EOC) and Fire Rescue Administration ("Project"); and

WHEREAS, after evaluating and considering all timely responses to Bid No. 25-402-LC the County identified Contractor as the lowest priced, responsive, and/or responsible bidder; and

WHEREAS, the County desires to contract with Contractor to perform the Work described in Bid No. 25-402-LC and Contractor desires to perform the Work to or for the County in accordance with the terms and conditions set forth herein; and

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, the Parties agree as follows:

1. THE WORK:

- 1.1. Bid No. 25-402-LC requested the Contractor to provide bid pricing for a Lump Sum Base Bid and 9 Alternates. This contract awards the Scope of Work included within the Base Bid and Alternates 1 through 9.
- 1.2. Contractor shall furnish all labor, material, equipment, apparatus and perform all work covered by the General Terms and Conditions, attached hereto and incorporated by reference as **Exhibit 1**, the Scope of Work/Technical Specifications, attached hereto and incorporated by reference as **Exhibit 2**, and **Exhibit 12: Alachua County Emergency Operations Center & Fire Rescue Administration, Phase III**, 100% Bid Documents dated May 24, 2024, for *Invitation to Bid No. 25-402-LC, Project No: 8211903, "Alachua County Emergency Operations Center (EOC) & Fire Rescue Administration Renovations"* attached hereto and incorporated by reference (collectively the documents referenced and attached as Exhibits 1, 2, and 12 are hereinafter referred to as the "Contract Documents"); and all incidental and necessary work and services thereto (collectively, the "Work"). Contractor shall complete the Work by the date specified in the Notice to Proceed (NTP), which shall be issued by the County after the Effective Date of this Agreement. The form of the NTP is attached hereto as **Exhibit 4**.

2. TERM OF AGREEMENT:

This Agreement shall be effective upon execution by both Parties ("Effective Date"). The term of the Agreement shall be from the Effective Date until the Work is completed and all duties and responsibilities under this Agreement have been completed ("Term") unless amended or terminated as provided herein.

3. CLOSEOUT:

The Contractor's obligation to the County shall not end until all closeout requirements are completed. Activities during the close-out period shall include, but are not limited to, making final payments, submitting final reimbursement request and final activity/accomplishment report to the County, disposing of project assets (including the return of all equipment, and receivable accounts to the County), and determining the custodianship of records. Agreement closeout is not considered final until the County is fully satisfied that project objectives have been met and the Contractor has submitted the Contract Closeout Checklist, attached hereto and incorporated herein as **Exhibit 5**.

4. COMPENSATION AND PAYMENT:

- 4.1. For completion of all Work in accordance with this Agreement, Contractor shall be paid the sum of Three Million, Five Hundred Twenty-Three Thousand, Six Hundred Thirty-One Dollars and Zero Cents (\$3,523,631.00) (the "Contract Amount"), allocated as provided in the Bid Form/Schedule of Values, attached hereto and incorporated by reference as **Exhibit 3** attached hereto and incorporated herein.
- 4.2. The County shall establish a contingency fund in an amount that SHALL NOT EXCEED One Hundred Seventy-Six Thousand, One Hundred Eighty-One Dollars and Fifty-Five Cents (\$176,181.55) (hereinafter, the "Contingency").
- 4.3. Contingency funds shall be used to cover costs that may result from incomplete design and unanticipated costs that arise during construction that are not identified by the Contract Documents. Contractor shall not proceed with any portion of the Work which it intends to charge against the Contingency without first informing the County that it intends to request Contingency funds to perform that portion of the Work and obtaining County's express written authorization to proceed prior to commencing that portion of the Work.
- 4.4. Contractor acknowledges and agrees that any Work which is to be charged against the Contingency that does not receive such prior written approval from the County shall be deemed to be part of Contractors Work compensated within the Contract Amount and not chargeable against the Contingency. The County reserves the right, at its sole discretion, to withhold its consent on Contingency expenditures. Further, any Contingency expenditure becomes part of the Contract Documents and is incorporated by reference herein. County approved, but unused Contingency remaining at the end of the job will be credited from the Contract Amount. Contractor has no entitlement to any portion of any unused Contingency.
- 4.5. As a condition precedent for any payment, the Contractor shall submit a monthly invoice to the County requesting payment for Work completed. The Contractor's invoice shall describe with reasonable particularity the Work completed, the date thereof, the time expended if such services were rendered pursuant to a fee and the person(s) rendering such service. The Contractor's invoice shall be accompanied by such documentation or data in support of expenses for which payment is sought as the County may require. Each invoice shall bear the signature of the Contractor, which signature shall constitute the Contractor's representation to the County that the Work indicated in the invoice have reached the level stated, have been properly and timely performed as required herein, that the expenses included in the invoice have been reasonably incurred in accordance with this Agreement, that all obligations of the Contractor covered by prior invoices have been paid in full, and that the amount requested is currently due and owing, there being no reason known to the Contractor that payment of any portion thereof should be withheld.
- 4.6. The Contractor shall submit invoices to the County at the following address:

Alachua County Facilities Management Director
915 SE 5th Street
Gainesville, FL 32601

FacFiscal@alachuacounty.us

- 4.7. All applications for payment shall be processed and paid in accordance with the provisions of Chapter 218, Part VII Florida Statutes (“Local Government Prompt Payment Act”), and the County shall remit all payments to:

Ulloa Management Group, LLC
806 N 19th Street
Palatka, FL 32117
(561) 888-3541

management@ulloagroupllc.com

- 4.8. Except as otherwise authorized in Section 4.1, the County shall not pay or reimburse Contractor for any expenses incurred by Contractor to perform the Work.

5. ALACHUA COUNTY MINIMUM WAGE:

- 5.1. If, as determined by County, the Services to be performed pursuant to this Agreement are ‘Covered Services’, as defined under the Alachua County Government Minimum Wage Ordinance (“Wage Ordinance”), then during the term of this Agreement and any renewals, Contractor shall pay its ‘Covered Employees’, as defined in the Wage Ordinance, no less than the Alachua County Government Minimum Wage (“Minimum Wage”), as may be amended by the County. Contractor will require the same of its subcontractors and subconsultants who provide the Services. If applicable to the Services, Contractor will certify this understanding, obligation, and commitment to County through a certification, a copy of which is attached hereto as **Exhibit 11**. Contractor will (a) post a copy of the Minimum Wage Rate in a prominent place of its principal place of business where it is easily seen by Covered Employees; (b) supply a copy to any Covered Employee upon request; (c) make any person submitting a bid for a subcontract for Covered Services aware of these requirements; and (d) include the necessary provisions in subcontracts to ensure compliance. The County shall not be deemed a necessary, or indispensable, party in any litigation between Contractor and subcontractor. At this time of execution of this Agreement, the prevailing Minimum Wage is as follows, which is subject to change during the term of this Agreement, and will be updated, and be applicable, without the necessary of amendment to this Agreement:

\$18.00 per hour with qualifying health benefits amounting to at least \$2.00 per hour \$20.00 per hour without health benefits

- 5.2. If applicable to the Services under this Agreement and to Contractor, the failure to comply with the provisions of the Wage Ordinance will be deemed a breach this Agreement and County is authorized to withhold payment of funds in accordance with Alachua County Code and Chapter 218, Florida Statutes.

6. PROGRESS PAYMENTS AND RETAINAGE:

- 6.1. That it is agreed by both Parties hereto that progress payments and final payment for Work performed will be made in accordance with the provisions as stipulated in the NTP and the Contract Documents.
- 6.2. It is agreed that five percent (5%) of the amount earned through each progress payment shall be withheld by the County. The retainage shall be paid to Contractor pursuant to Section 6.3.
- 6.3. Within thirty (30) days of Substantial Completion of the Work as defined herein, or if not defined upon reaching beneficial occupancy or use, Contractor and County will develop a list (the “List”) of items required to achieve final completion of the Work. The List shall include the estimated cost of completion of each item on the List. Contractor will provide a first draft of the List within five (5) days of notice of Substantial Completion. The County will notify Contractor of acceptance or of any changes requested within ten (10) days of receipt of the draft List. The County shall deliver the final List to the Contractor no later than five (5) days after it has been developed as set

forth above. The failure to include on the List any corrective work or pending items not yet completed does not alter, waive or release Contractor of its responsibility to complete such corrective work, pending items, or any other Work pursuant to the Agreement. Within twenty (20) business days after the list is created, the County shall pay the Contractor the remaining contract balance that includes all retainage previously withheld by the County less an amount equal to one hundred fifty percent (150%) of the estimated cost to complete the items on the list. Upon completion of all items on the List, Contractor may apply for Final Payment for all remaining retainage withheld by the County. If a good faith dispute exists as to whether one or more items identified on the List have been completed pursuant to this Agreement, the County may continue to withhold an amount equal to one hundred and fifty percent (150%) of the total cost to complete such items until Contractor has rendered complete, satisfactory and acceptable to the County such items. All items that require correction under the Agreement and that are identified after the preparation and delivery of the List remain the obligation of Contractor. This section is intended to comply with the provisions of Section 218.735, Florida Statutes; in the event of any conflict, Florida law will prevail over this section.

6.4. The County shall not be obligated to make payment to Contractor for amounts that are the subject of a good faith dispute, or a claim brought pursuant to §255.05, Florida Statutes.

7. ASBESTOS FREE MATERIALS:

7.1. All Work under this Agreement will be performed with asbestos free materials. A written, notarized statement on company overhead is to be submitted with the executed Agreement certifying this fact. All payments shall be withheld until such statement is submitted.

7.2. Contractor agrees that if materials containing asbestos are subsequently discovered at any future time to have been included in the construction done by Contractor or any of its Subcontractors or agents and were not specified in the design or required by the Agreement, Contractor shall be liable for all costs related to the abatement of such asbestos and damages or claims against the County.

8. LIQUIDATED DAMAGES:

8.1. It is agreed by both Parties that **TIME IS OF THE ESSENCE** for the completion of the Work. The Contract Time shall begin with the date provided in the NTP to Contractor by the County. Contract Time for Substantial Completion is One Hundred Eighty (180) Working Days, as defined in **Exhibit 1: General Terms and Conditions**, from the begin date listed in the NTP. Contract Time for Final Completion is 30 working days from the date the County delivers the final List to the Contractor as provided in section 6.3, above, unless extended in accordance with §218.735(7)(c), Florida Statutes.

8.2. Inasmuch as failure to complete the Work within the time herein fixed will result in substantial injury to the County and whereas damages arising from such failure cannot be calculated with any degree of certainty, it is hereby agreed that if such Work is not Substantially Completed as herein defined or within such further time, if any, as shall be allowed for Contractor to achieve Substantial Completion in accordance with the provisions of this Agreement, Contractor shall pay the County as liquidated damages and not as a penalty the sum of Five Hundred Dollars and Zero Cents (\$500.00) per day for each and every working day after the date fixed for Substantial Completion the Work.

8.3. Inasmuch as failure to complete the Work within the time herein fixed will result in substantial injury to the County and whereas damages arising from such failure cannot be calculated with any degree of certainty, it is hereby agreed that if the Work is not finally completed as herein defined or within such further time, if any, as shall be allowed for Contractor to achieve final completion in accordance with the provisions of this Agreement, Contractor shall pay the County as liquidated

damages and not as a penalty the sum of Two Hundred Fifty Dollars and Zero Cents (\$250.00) per day for each and every working day after the date fixed for such completion for the Work.

9. RELEASE OF CLAIMS:

9.1. It is agreed that when all Work contemplated by this Agreement has been completed and has been inspected and approved by the County or the County's authorized representatives, Contractor shall furnish to the County Contractor's Final Payment Affidavit in the form provided in **Exhibit 9**, attached hereto. Contractor shall also provide a Waiver of Right Against Payment Bond from every subcontractor, material man and supplier that has provided services or materials to the Project in the form provided in **Exhibit 10**, attached hereto, or on a form acceptable to the County.

10. GOVERNING ORDER OF DOCUMENTS:

In cases of discrepancy, the governing order of the documents is as follows:

- 10.1. Amendments and Change Orders;
- 10.2. This Agreement;
- 10.3. General Terms and Conditions from Bid No. 25-402-LC (**Exhibit 1**);
- 10.4. Scope of Service/Technical Specifications from Bid No. 25-402-LC (**Exhibit 2**);
- 10.5. *Alachua County Emergency Operations Center & Fire Rescue Administration, Phase III*, 100% Bid Documents dated May 24, 2024, for Invitation to Bid No. 25-402-LC (**Exhibit 12**);
- 10.6. Notice to Proceed;
- 10.7. Vendor's Bid Submittal

11. INDEMNIFICATION:

- 11.1. To the maximum extent permitted by Florida law, but subject to the monetary limitation that the extent of the Contractor's indemnification obligation shall not exceed Three Million, Six Hundred Ninety-Nine Thousand, Eight Hundred Twelve Dollars and Fifty-Five Cents (\$3,699,812.55), the Contractor agrees to indemnify and hold harmless the County, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Contractor and other persons employed or utilized by the Contractor in the performance of the Agreement. Contractor agrees that indemnification of the County shall extend to any and all work performed by the Contractor, its subcontractors, employees, agents, servants or assigns.
- 11.2. The Contractor's obligation to indemnify under this Article will survive the expiration or earlier termination of this Agreement until it is determined by final judgment that an action against the County or an indemnified party for the matter indemnified hereunder is fully and finally barred by the applicable statute of limitations.
- 11.3. This obligation shall in no way be limited in any nature whatsoever by any limitation on the amount or type of Contractor's insurance coverage. This indemnification provision shall survive the termination of the Agreement between the County and the Contractor.
- 11.4. In any and all claims against the County or any of its agents or employees by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Article shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor under workers' compensation acts, disability benefit acts or employee benefit acts.
- 11.5. Nothing contained herein shall constitute a waiver by the County of sovereign immunity or the provisions or limits of liability of §768.28, Florida Statutes.

12. PUBLIC RECORDS:

12.1. In accordance with §119.0701, Florida Statutes, Contractor, *when acting on behalf of the*

County, shall, as required by Florida law:

- 12.1.1. Keep and maintain public records required by the County to perform the Services.
- 12.1.2. Upon request from the County's custodian of public records, provide the County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Florida law or as otherwise provided by law.
- 12.1.3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the term of this Agreement and following completion of the Agreement if Contractor does not transfer the records to the County.
- 12.1.4. Upon completion of the Agreement, transfer, at no cost, to the County all public records in possession of Contractor or keep and maintain public records required by the County to perform the Services. If Contractor transfers all public records to the County upon completion of the Agreement, Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If Contractor keeps and maintains public records upon completion of the Agreement, Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the County, upon request from the County's custodian of public records, in a format that is compatible with the County's information technology systems.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE COUNTY'S PUBLIC RECORDS CUSTODIAN AT publicrecordsrequest@alachuacounty.us OR (352) 264-6906 OR 12 SE 1ST STREET, GAINESVILLE, FL 32601.

- 12.2. If Contractor fails to comply with this section, Contractor will be deemed in default under this Agreement. The County may enforce as set forth in §119.0701, Florida Statutes. Contractor who fails to provide the public records in response to a request within a reasonable time may be subject to penalties imposed under §119.10, Florida Statute, and costs of enforcement, including fees, under §119.0701 and §119.12, Florida Statutes.
- 12.3. Contractor will take reasonable measures to protect, secure and maintain any data held by Contractor in an electronic form that is or contains exempt, confidential, personal information or protected information, as defined by Florida or federal law, related to or in connection with performance of the Services. If Contractor suspects or becomes aware of a security breach or unauthorized access to such data by a third party, Contractor shall immediately notify the County in writing and will work, at Contractor's expense, to prevent or stop the data breach

13. AUDITING RIGHTS AND INFORMATION:

- 13.1. Contractor shall keep all records and supporting documentation which concern or relate to the Work hereunder for a minimum of ten (10) years from the date of termination of this Agreement or the date the Work is completed, whichever is later or such longer period of time as may be required by law. Contractor shall require all of its subcontractors to likewise retain all of their Project records and supporting documentation. County, and any duly authorized agents or representatives of County, shall be provided access to all such records and supporting documentation at any and all times during normal business hours upon request by County. Further, County, and any duly authorized agents or representatives of County, shall have the right to audit, inspect and copy all of Contractor's and any subcontractor's Project records and documentation

as often as they deem necessary and Contractor shall cooperate in any audit, inspection, or copying of the documents. Employees' personal information is excluded, if exempt under Ch. 119, F.S. The access, inspection, copying and auditing rights shall survive the termination of this Agreement.

- 13.2. If at any time, County conducts such an audit of Contractor's records and documentation and finds that Contractor overcharged County, Contractor shall pay to County the Overcharged Amount which is defined as the total aggregate overcharged amount together with interest thereon (such interest to be established at the rate of 12% annum). If the Overcharged Amount is equal to or greater than \$50,000.00, Contractor shall pay to County the Overcharged Amount and the Audit Amount which is defined as the total aggregate of County's reasonable audit costs incurred as a result of its audit of Contractor. County may recover the Overcharged Amount and the Audit Amount, as applicable, from any amount due or owing Contractor with regard to the Project or under any other agreement between Contractor and County. If such amounts owed Contractor are insufficient to cover the Overcharged Amount and Audit Amount, as applicable, then Contractor hereby acknowledges and agrees that it shall pay such remaining amounts to County within seven (7) business days of its receipt of County's invoice for such remaining amounts. In no event shall the Overcharged Amount or the Audit Amount be deemed a reimbursable Cost of the Work.

14. INSURANCE:

Throughout the term of this Project, Contractor shall provide and maintain insurance of the types and in the amounts set forth in **Exhibit 8**. A current Certificate of Insurance showing coverage of the types and in the amounts required is attached hereto as **Exhibit 8-A**.

15. PERMITS:

Contractor will obtain and pay for all necessary permits, permit application fees, licenses or any fees required that may in any way affect the Work outlined in this Agreement. If Contractor is not familiar with state and local laws, ordinances, code rules and regulations, Contractor remains liable for any violation and all subsequent damages or fines.

16. BONDS:

- 16.1. At least ten (10) days PRIOR to furnishing any labor, services or material in connection with the Project, Contractor shall provide the County with Payment and Performance Bonds, in the amount of one hundred percent (100%) of the Contract Amount, in the form attached hereto as **Exhibits 6 & 7**, the costs of which are to be paid by Contractor. It is mutually agreed between the Parties hereto that if, at any time after the execution of this Agreement and the required surety bond for its faithful performance and payment, the County shall deem the surety or sureties upon such bond to be unsatisfactory, or if, for any reason, such bond ceases to be adequate to cover the performance of the Work Contractor shall, at its own expense, within five (5) days after the receipt of notice from the County to do so, furnish an additional bond or bonds in such form and amount, and with surety or sureties as shall be satisfactory to the County. In such event, no further payment to Contractor shall be deemed to be due under this Agreement until such new or additional security for the faithful performance of the Work shall be furnished in a manner and form satisfactory to the County.
- 16.2. In accordance with the requirements of §255.05(1)(a), Florida Statutes, Contractor shall record a copy of the Performance and Payment Bonds in the Public Records of Alachua County, Florida, within five (5) days of furnishing the Performance and Payment Bonds to the County. Contractor shall deliver a certified copy of the recorded Performance and Payment Bond to the County as evidence of recording said Bonds, within five (5) days of recording. The delivery of such evidence is a condition precedent to the County's obligation to make any payments to Contractor.

17. SEVERABILITY AND AMBIGUITY:

It is understood and agreed by the Parties to this Agreement that if any of the provisions of the Agreement shall contravene or be invalid under the laws of the State of Florida, such contravention or invalidity shall not invalidate the entire Agreement, but it shall be construed as if not containing the particular provision or provisions held to be invalid, and the rights and obligations of the Parties shall be construed and enforced accordingly. In the event an ambiguity or question of intent or interpretation arises, this Agreement shall be construed as if jointly drafted by the Parties and no presumption, inference, or burden of proof shall arise favoring or disfavoring a Party by virtue or authorship of any or all of the Agreement's provisions. Each Party represents and agrees that it has had the opportunity to seek the advice of appropriate professions, including legal professionals, in the review and execution of this Agreement.

18. AMENDMENT:

This Agreement may be amended by mutual written agreement that is executed by both of the Parties hereto. Further, this Agreement, including without limitation all changes in the maximum indebtedness, Scope of Work, time of completion, and other material terms and conditions, may be changed only by such written and executed amendment.

19. INDEPENDENT CONTRACTOR:

In the performance of this Agreement, Contractor will be acting in the capacity of an independent contractor, and not as an agent, employee, partner, joint venture, or associate of the County. Contractor shall be solely responsible for the means, methods and techniques, sequences and procedures utilized by Contractor in the full performance of this Agreement. Neither Contractor nor anyone employed by Contractor shall represent, act, purport to act, or to be deemed to be the agent, representative, employee or servant of the County.

20. OPTIONAL PARTICIPATION OF CONSULTANT:

The County is free to elect to have an authorized agent or a consultant on the Project site to respond to requests for information made by Contractors, and to approve any payment requests. If the County does not elect to have a Consultant on the job site, any provisions incorporated in this Agreement referring to the Consultant shall be disregarded, and any requests for information and approvals of payment requests shall be made by the County's Facilities Management Manager or their designee.

21. CHOICE OF LAW:

The laws of the State of Florida shall govern this Agreement and the duties and obligations stated within this Agreement. The sole and exclusive venue for any action under this Agreement shall be Alachua County, Florida.

22. LAWS AND REGULATIONS:

Contractor will comply with all laws, ordinances, regulations, and building code requirements applicable to Work required by this Agreement. Contractor is presumed to be familiar with all state and local laws, ordinances, code rules and regulations that may in any way affect the Work outlined in this Agreement. If Contractor is not familiar with state and local laws, ordinances, code rules and regulations, Contractor remains liable for any violation and all subsequent damages or fines.

23. COMPLETE AGREEMENT:

This Agreement contains the sole and entire Agreement between the County and Contractor and supersedes any other written or oral Agreements between them not incorporated herein.

24. NON-WAIVER:

The failure of any party to exercise any right in this Agreement will not waive such right in the event of any further default or non-compliance.

25. SUCCESSORS AND ASSIGNS:

Contractor shall not assign its rights hereunder, excepting its right to payment, nor shall it delegate any of its duties hereunder without the written consent of the County. Subject to the provisions of the preceding sentence, each Party hereto binds itself, its successors, assigns and legal representatives to the other and to the successors, assigns and legal representatives of such other Party.

26. NO THIRD-PARTY BENEFICIARIES:

Nothing contained herein shall create any relationship, contractual or otherwise, with, or any rights in favor of, any third party.

27. COUNTERPARTS:

This Agreement may be executed in any number of and by the different Parties hereto on separate counterparts, each of which when so executed shall be deemed to be an original, and such counterparts shall together constitute but one and the same instrument.

28. WAIVERS OF CLAIMS AND CONTINUING OBLIGATIONS:

- 28.1. Contractor's obligations to perform and complete the Work in accordance with the Contract Documents shall be absolute. Neither approval of any progress, nor approval of final payment by a County employee, nor the issuance of a certificate of substantial completion, nor any payment by the Clerk of the Court to Contractor under the Contract Documents, nor any use or occupancy of the Project or any part thereof by the County, nor any act of acceptance by the County, nor any failure to do so, nor any correction of faulty or defective Work by the County shall constitute an acceptance of Work not in accordance with the Contract Documents.
- 28.2. The making and acceptance of final payment shall constitute a waiver of all claims by Contractor against the County, other than those previously made in writing and still unsettled.

29. TERMINATION FOR DEFAULT

- 29.1. Contractor shall be considered in material default of this Agreement and such default shall be considered cause for County to terminate the Agreement, in whole or in part, as further set forth in this Article, if Contractor: (1) fails to begin the Work under the Contract Documents within the time specified herein; or (2) fails to properly and timely perform the Work as directed by County or Design Professional or as provided for in the approved Master Project Schedule; or (3) performs the Work unsuitably or neglects or refuses to remove materials or to correct or replace such Work as may be rejected as unacceptable or unsuitable; or (4) discontinues the prosecution of the Work contrary to the requirements of the Agreement; or (5) fails to resume Work which has been suspended within a reasonable time after being notified to do so; or (6) becomes insolvent or is declared bankrupt, or commits any act of bankruptcy; or (7) allows any final judgment to stand against it unsatisfied for more than ten (10) days; or (8) makes an assignment for the benefit of creditors; (9) fails to obey any applicable codes, laws, ordinances, rules or regulations with respect to the Work; or (10) fails to promptly pay its subcontractors and suppliers; or (11) materially breaches any other provision of this Agreement.
- 29.2. If County determines that Contractor is in default under this Agreement, County shall notify Contractor in writing of Contractor's default(s). If County determines that Contractor has not remedied and cured the default(s) within seven (7) calendar days following receipt by Contractor of said written notice, then County, at its option, without releasing or waiving its rights and remedies against Contractor's sureties and without prejudice to any other right or remedy it may be entitled to hereunder or by law, may terminate Contractor's right to proceed under the Agreement, in whole or in part, and take possession of all or any portion of the Work and any materials, tools, equipment, and appliances of Contractor, take assignments of any of Contractor's subcontracts and purchase orders that County may designate, and complete all or any portion of Contractor's Work by whatever means, method or agency which County, in its sole discretion,

may choose. If default is solely a result of Contractor's failure to construct in accordance with the Master Project Schedule, then twenty-one (21) calendar days shall be allowed to cure the default. In making either the initial determination that Contractor is in default under this Contract or the subsequent determination that Contractor has failed to satisfactorily cure its default, County may rely solely upon the Design Professional's certification to County that in the Design Professional's opinion the Contractor is in default or has failed to satisfactorily cure its default. The Library Director has authority to terminate this Agreement.

- 29.3. If County deems any of the foregoing remedies necessary, Contractor shall not be entitled to receive any further payments hereunder until after the Work is completed. All monies expended and all of the costs, losses, damages and extra expenses, including all management, administrative and other overhead and other direct and indirect expenses (including Design Professional and attorneys' fees) or damages incurred by County incident to such completion, shall be deducted from the unpaid balance of the Contract Amount/GMP, and if such expenditures exceed the unpaid balance of the Contract Amount/GMP, Contractor shall pay promptly to County on demand the full amount of such excess, including costs of collection, attorney's fees (including appeals) and interest thereon at the maximum legal rate of interest until paid. If the unpaid balance of the Contract Amount/GMP exceeds all such costs, expenditures and damages incurred by County to complete the Work, Contractor shall not be entitled to any portion of such excess, except for the unpaid portion of the Contractor's Fee earned and the Cost of Work incurred prior to Contractor's right to continue performance under this Contract being terminated. Any amounts to be paid to County by Contractor pursuant to this provision shall be certified by Design Professional, upon application, and this obligation for payment shall survive termination of the Agreement.
- 29.4. The liability of Contractor hereunder shall extend to and include the full amount of any and all sums paid, expenses and losses incurred, damages sustained, and obligations assumed by County in good faith under the belief that such payments or assumptions were necessary or required, in completing the Work and providing labor, materials, equipment, supplies, and other items therefor or re-letting the Work, and in settlement, discharge or compromise of any claims, demands, suits, and judgments pertaining to or arising out of the Work hereunder. Further, in the event County has exercised its right to terminate due to Contractor's default, Contractor shall be prohibited from bidding or otherwise seeking additional work from County in accordance with County's then current debarment policy.
- 29.5. If, after notice of termination of Contractor's right to proceed pursuant to this Section, it is determined for any reason that Contractor was not in default, or that its default was excusable, or that County is not entitled to the remedies against Contractor provided herein, then such termination shall be deemed a termination for County's convenience and Contractor's remedies against County shall be the same as and limited to those afforded Contractor under Section ____ below.

30. TERMINATION FOR CONVENIENCE AND RIGHT OF SUSPENSION

- 30.1. County shall have the right to terminate this Agreement without cause upon seven (7) calendar days' written notice to Contractor. In the event of such termination for convenience, Contractor's recovery against County shall be limited to that portion of the Contract Amount/GMP earned through the date of termination, together with any retainage withheld and reasonable termination expenses incurred but Contractor shall not be entitled to any other or further recovery against County, including, but not limited to, damages, consequential or special damages, or any anticipated profit on portions of the Work not performed.
- 30.2. County shall have the right to suspend all or any portions of the Work upon giving Contractor two (2) calendar days' prior written notice of such suspension. If all or any portion of the Work is so suspended and later recommenced, Contractor's sole and exclusive remedy shall be to seek an extension to the Contract Time in accordance with the procedures set forth in the Contract

Documents. In no event shall Contractor be entitled to any additional compensation or damages, except as otherwise expressly provided for in the Contract Documents. Provided, however, if the ordered suspension exceeds ninety (90) calendar days, Contractor shall have the right to terminate the Agreement with respect to that portion of the Work which is subject to the ordered suspension.

- 31. WORKPLACE VIOLENCE:** Employees of Contractor are prohibited from committing any act of Workplace violence. Violation may be grounds for termination. Workplace violence means the commission of any of the following acts by a Contractor's employee.
- 1.1. Battery: intentional offensive touching or application of force or violence to another.
 - 1.2. Stalking: willfully, maliciously and repeatedly following or harassing another person.
- 32. DUTIES AND OBLIGATIONS:** The rights and remedies available hereunder, and, in particular without limitation, the warranties, guarantees and obligations imposed upon Contractor by this Agreement (No. 14329) and the rights and remedies available to the County thereunder, shall be in addition to and not a limitation of any otherwise imposed or available law, by special guarantee or other provisions of the Contract Documents and Specifications.
- 33. POLLUTION ABATEMENT:** Contractor shall comply with all Federal, State and Local laws and regulations controlling pollution of the environment. It shall take necessary precautions to prevent pollution of streams, lakes and ponds with fuels, oils, bitumens, chemicals and other harmful materials. It shall take necessary measures to minimize soil erosion.
- 34. INJURY OR DAMAGE TO PEOPLE OR PROPERTY:** Should the County or Contractor suffer injury or damage to its person or property because of any error, omission or act of the other or of any of Contractor's employees or agents or others for whose acts Contractor is legally liable, claim shall be made in writing to the County within a reasonable time of the first observance of such injury or damage.
- 35. HEALTH CONSIDERATIONS:** Contractor shall provide and maintain, in a neat and sanitary condition, such accommodations for the use of its employees as are necessary to comply with the requirements and regulations of the State and Local Boards of Health. Contractor shall commit no public nuisance.
- 36. ELECTRONIC SIGNATURES:** The Parties agree that an electronic version of this Agreement shall have the same legal effect and enforceability as a paper version. The Parties further agree that this Agreement, regardless of whether in electronic or paper form, may be executed by use of electronic signatures. Electronic signatures shall have the same legal effect and enforceability as manually written signatures. The County shall determine the means and methods by which electronic signatures may be used to execute this Agreement and shall provide Contractor with instructions on how to use said method. Delivery of this Agreement or any other document contemplated hereby bearing an manually written or electronic signature by facsimile transmission (whether directly from one facsimile device to another by means of a dial-up connection or whether mediated by the worldwide web), by electronic mail in "portable document format" (".pdf") form, or by any other electronic means intended to preserve the original graphic and pictorial appearance of a document, will have the same effect as physical delivery of the paper document bearing an original or electronic signature.
- 37. E-VERIFY:** Pursuant to F.S. sec. 448.095, Contractor shall register with and use the U.S. Department of Homeland Security's E-Verify system to verify the work authorization status of all new employees of the Contractor during the term of the Agreement. Contractor shall require any subcontractors performing work or providing Services under this Agreement to register and use the U.S. Department of Homeland Security's E-Verify system to verify the work authorization status of all

new employees of the subcontractor during the term of this Agreement, and otherwise comply with Florida law. The E-Verify system is located at <https://www.uscis.gov/E-Verify>. Failure to comply with this section is grounds for termination and the contractor (a) may not be awarded a contract with the County for at least 1 year after the date on which the contract was terminated and (b) is liable for any additional costs incurred by the County as a result of termination of this Agreement.

REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed for the uses and purposes therein expressed on the day and year first written below.

ALACHUA COUNTY, FLORIDA

By: _____
Charles Chestnut, IV, Chair
Board of County Commissioners
Date: _____


ATTEST

APPROVED AS TO FORM

J.K. "Jess" Irby, Esq., Clerk
(SEAL)

Alachua County Attorney's Office

CONTRACTOR

Signed by:
By:  _____
1DA688FE83C646E...
Print: Paul Fernando Ulloa-Jarrin
Title: Owner
Date: 1/3/2025

IF CONTRACTOR IS NOT A NATURAL PERSON, PLEASE PROVIDE A CERTIFICATE OF INCUMBENCY AND AUTHORITY, OR A CORPORATE RESOLUTION, LISTING THOSE AUTHORIZED TO EXECUTE AGREEMENTS ON BEHALF OF YOUR ORGANIZATION. IF ARE A NATURAL PERSON, THEN YOUR SIGNATURE MUST BE NOTARIZED.

EXHIBIT 1: GENERAL TERMS AND CONDITIONS

1. PRICING:

The Bid Form/Schedule of Values, attached hereto and incorporated by reference as **Exhibit 3**, provides pricing for the Work performed under the Agreement will be as provide in the Scope of Work/Technical Specifications (**Exhibit 2**) and the NTP.

2. HOURS OF WORK:

- 2.1. Standard hours of the Work will be from 7:00 AM to 5:00 PM, Monday through Friday, unless alternate standard hours are agreed to and adopted. Under no circumstances will Contractor perform any Work at any time or access the site of the Work without specific written (by memorandum or email) of the County's representative.
- 2.2. Non-standard hours are hours required by the County to be worked before 7:00 AM and after 5:00 PM (unless alternate standard hours are agreed and adopted), Monday thru Friday, and all hours worked on Saturdays, Sundays and holidays will be considered non-standard hours.
- 2.3. Non-standard hours worked by Contractor to regain schedule or for Contractor's convenience shall not be entitled to additional compensation.
- 2.4. County Holidays - Holidays falling on Saturday will be observed on the Friday preceding the holiday and those falling on Sunday will be observed on the Monday following the holiday.
 - New Year's Day
 - Martin Luther King Day
 - Memorial Day
 - Juneteenth Day
 - 4th of July
 - Labor Day
 - Veteran's Day
 - Thanksgiving Day and the day after Thanksgiving
 - Christmas Day and one additional day as designated by County Manager

3. WORK AUTHORIZATION:

- 3.1. Any Work required under this Agreement shall be authorized by issuance of formal, written NTP, based on the Scope of Work (**Exhibit 2**).
- 3.2. Alachua County shall issue a revised Notice to Proceed in the form of **Exhibit 4**.
- 3.3. NTPs issued under this Agreement, shall authorized by signature of the County designee.
- 3.4. Amendments to the NTP (Change Orders) will be approved in accordance with County Policy and Ordinance and shall be issued in the form of the NTP Amendment.

4. SCHEDULING OF WORK:

- 4.1. The County will issue an NTP for the Work. The first day of performance under an NTP shall be the effective date specified in the Notice to Proceed. Any preliminary work started, or material ordered or purchased before receipt of the Notice to Proceed shall be at the risk and expense of Contractor. Contractor shall diligently prosecute the Work to completion within the time set forth in the NTP. The period of performance includes allowance for mobilization, holidays, weekend days, normal inclement weather, and cleanup. Therefore, claims for delay based on these elements will not be allowed. When Contractor considers the Work complete and ready for its intended use Contractor shall request Alachua County to inspect the Work to determine the status of completion.
- 4.2. Job placement of materials and equipment shall be made with a minimum of interference to Alachua County operations and personnel.
- 4.3. Furniture and portable office equipment in the immediate work area will be moved to a designated location by Contractor and replaced to its original location upon completion of the Work. If the

furniture and portable office equipment cannot be replaced to its original location, the County will designate new locations. If furniture and portable office equipment (or other items) must be moved and/or stored outside the immediate area, Alachua County will compensate Contractor for any such transportation and storage costs incurred through an Amendment to the NTP.

- 4.4. Contractor shall take all precautions to ensure that no damage will result from its operations to private or public property. All damages shall be repaired or replaced by Contractor at no cost to Alachua County.
- 4.5. Contractor shall be responsible for providing all necessary traffic control, such as street blockages, traffic cones, flagmen, etc., as required for the Work. Proposed traffic control methods shall be submitted to Alachua County for approval, prior to placement.

5. CONTRACTOR'S RESPONSIBILITIES:

- 5.1. Contractor shall supervise, perform and direct the Work using the best skill and attention. Contractor shall be solely responsible for all construction means, methods, techniques, safety, sequences and procedures, and for coordinating all portions of the Work under this Agreement. Contractor shall ensure that the completed Work complies accurately with the Contract Documents.
- 5.2. Contractor's Superintendent: Contractor shall employ a competent resident superintendent who shall be at the Project site during the progress of the Work. The superintendent shall be satisfactory to County and shall not be changed except with the written approval of the County. The superintendent shall represent Contractor at the site and shall have full authority to act on behalf of Contractor. All communications given to the superintendent shall be binding on Contractor. All oral communications affecting Contract Time, Contract Amount and Contract interpretation will be confirmed in writing to the County.

6. DESIGN:

- 6.1. Contractor's duties under the Agreement may include the preparation of additional shop drawings or sketches necessary to permit orderly construction of the Work. Contractor agrees to provide detailed design drawings and plans if requested by the County, with reimbursement included in an amended NTP and said cost should be incidental to the Project.
- 6.2. Incidental means not exceeding 10% or \$5,000, whichever is higher of the total Project cost, unless properly justified and approved by the County.

7. ALACHUA COUNTY-FURNISHED UTILITIES:

- 7.1. The County shall provide at no cost to Contractor utilities and toilet facilities that are existing and available at each site for Work performed under the Agreement. If utilities and/or toilet facilities are not existing and available, an equitable price will be negotiated and included in the NTP to compensate Contractor for providing such items.
- 7.2. Water:
 - 7.2.1. Alachua County shall furnish to Contractor from existing Alachua County facilities and without cost to Contractor, a supply of water necessary for the performance of Work under this Agreement. Alachua County will in no case furnish or install any required supply connections and piping for the purpose of implementing the availability of the water supply. It is the responsibility of Contractor to determine the extent to which existing Alachua County water supply source is adequate for the needs of the Agreement.
 - 7.2.2. All taps, connections, and accessory equipment required in making the water supply source available will be accomplished by and at the expense of Contractor, and costs included in the Scope of Work. All Work in connection therewith shall be coordinated, scheduled, and performed as directed and approved by the County. Said taps, connections, and accessory equipment shall be maintained by Contractor in a Workmanlike manner in accordance with

the rules and regulations of the local authority. Upon completion of this Agreement the removal of all taps, connections and accessories will be accomplished by and at the expense of Contractor, so as to leave the water supply source and facility in its original condition. Such removal shall also be subject to the approval of the County.

7.3. Electricity:

7.3.1. The County shall furnish to Contractor from existing County facilities and without cost to Contractor, electricity necessary for the performance of Work under this Agreement. It is the responsibility of Contractor to determine the extent to which existing County electrical facilities are adequate for the needs of this Agreement.

7.3.2. All taps, connections, and necessary equipment required in making the electrical power available will be accomplished by and at the expense of Contractor, and costs included in the Bid or proposal. All Work in connection therewith shall be coordinated, scheduled and performed as directed and approved by the County. Said taps, connections, and accessory equipment shall be maintained by Contractor in a Workman like manner in accordance with the rules and regulations of the local authority. Upon completion of this Agreement the removal of all taps, connections and accessories will be accomplished by and at the expense of Contractor, and costs included in the Bid or proposal, so as to leave the electrical power source and facility in its original condition. Such removal shall also be subject to the approval of County.

8. DIRECT PURCHASE OF MATERIALS:

County may purchase materials directly and provide them to Contractor for use on the Project. Within forty-five (45) days of the issuance of the NTP Contractor will provide County with a list of bulk materials needed on the Project, the cost for those materials including sales tax, and a schedule of values showing when those items are needed. If County elects to purchase certain items, Contractor will prepare a deductive change order to the Agreement. County shall issue a purchase order and Contractor has sole responsibility for establishing delivery and schedule. There will be no reimbursement to Contractor if the materials are obtained by the County at less than the estimated cost.

9. PROCEDURES:

9.1. Pre-Construction Conference: After award of the Agreement and before the issuance of the initial NTP under this Agreement, the County will conduct a conference to acquaint Contractor with County policies and procedures that are to be observed during the prosecution of the Work and to develop mutual understanding relative to the administration of the Agreement.

9.2. The Work of this Agreement shall be determined by the Scope of Work (**Exhibit 2**). Contractor shall perform its construction Work in accordance with this Agreement including provision of all pricing, management, shop drawings, documents, labor, materials, supplies, parts (to include system components), transportation, facilities, supervision, and equipment needed to complete the Work. Contractor shall provide quality assurance as specified in strict accordance with the Contract Documents. Contractor shall also be responsible for site safety as well as site preparation and cleanup.

9.3. Contractor shall prepare and submit required reports, maintain current record drawings, and submit required information. Contractor shall provide materials lists to include trade names, brand names, model number, and ratings (if appropriate) for all materials necessary for a complete job.

9.4. Contractor representative shall be available for a site visit with the County representative as mutually agreed prior to the issuance of the NTP.

EXHIBIT 2: SCOPE OF WORK/ TECHNICAL SPECIFICATIONS

PROJECT MANUAL

ALACHUA COUNTY
EMERGENCY OPERATIONS CENTER
& FIRE RESCUE ADMINISTRATION
RENOVATIONS

1125 NE 8TH AVENUE
Gainesville, Florida 32601

May 24, 2024

ARCHITECTURAL

PHASE III 100% BID DOCUMENTS
PAUL STRESING ASSOCIATES, INC.

14617 Main Street
Alachua, Florida 32615
Telephone (386) 462-6407
E-Mail: psa@paulstresingassociates.com
CA #AA0003377
(PSA Project No. 22-818)

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ALACHUA COUNTY BIDDING AND CONTRACT REQUIREMENTS

REFER TO ALACHUA COUNTY FRONT END REQUIREMENTS FOR COST REPORTING AND PAYMENTS, CODES, PERMITTING, FEES, JOB-SITE ADMINISTRATION, SUBMITTED AND CLOSE-OUT DOCUMENT REQUIREMENTS.

DIVISION 0 – ARCHITECT BIDDING AND CONTRACT REQUIREMENTS

SECTION 00100	<u>INSTRUCTIONS TO BIDDERS</u>
SECTION 00810	<u>PROGRESS PAYMENTS</u>
SECTION 00860	<u>PURCHASING OF PROJECT DOCUMENTS</u>
SECTION 00900	<u>SPECIAL CONDITIONS</u>

DIVISION 1 – GENERAL REQUIREMENTS

SECTION 01010	<u>SUMMARY OF WORK</u>
SECTION 01020	<u>CUTTING AND PATCHING</u>
SECTION 01060	<u>CODES, PERMITS AND FEES</u>
SECTION 01100	<u>ALTERNATES/SUBSTITUTES</u>
SECTION 01150	<u>STANDARDS</u>
SECTION 01410	<u>PROCEDURE AND QUALITY CONTROL</u>
SECTION 01530	<u>BARRIERS</u>
SECTION 01710	<u>CLEANING</u>

DIVISION 2 – SITEWORK& BUILDING GENERAL

SECTION 02070	<u>BUILDING DEMOLITION</u>
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DIVISION 3 – CONCRETE – N/A

DIVISION 4 – MASONRY – N/A

DIVISION 5 – METALS

SECTION 05500	<u>METAL FABRICATIONS</u>
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DIVISION 6 - WOOD AND PLASTICS

SECTION 06100	<u>ROUGH CARPENTRY</u>
SECTION 06200	<u>FINISH CARPENTRY</u>

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07200	<u>INSULATION</u>
SECTION 07920	<u>SEALANTS AND CAULKING</u>

DIVISION 8 - DOORS AND WINDOWS

SECTION 08100	<u>HOLLOW METAL FRAMES</u>
SECTION 08116	<u>HURRICANE SCREEN WINDOW UNITS (BASE BID)</u>
SECTION 08200	<u>WOOD COMPOSITION AND WOOD DOORS</u>
SECTION 08350	<u>SPECIAL ROLL-DOWN SHUTTERS (BASE BID)</u>
SECTION 08400	<u>ALUMINUM STOREFRONT</u>
SECTION 08450	<u>HURRICANE HARDENED ALUMINUM STOREFRONT (ADD ALT)</u>
SECTION 08700	<u>FINISH HARDWARE</u>

DIVISION 9 - FINISHES

SECTION 09111	<u>METAL STUD FRAMING SYSTEM</u>
SECTION 09260	<u>GYPSUM DRYWALL/VENEER BASE PLASTER SYSTEM</u>

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SECTION 09520	<u>ACOUSTICAL & CLOUD PANELS (ADD ALT)</u>
SECTION 09655	<u>EPOXY FLOORING</u>
SECTION 09680	<u>CARPET</u>
SECTION 09900	<u>PAINTING</u>

DIVISION 10 – SPECIALTIES

SECTION 10110	<u>VISUAL DISPLAY SURFACES</u>
SECTION 10260	<u>CORNER GUARDS</u>
SECTION 10500	<u>STORAGE LOCKERS</u>
SECTION 10522	<u>FIRE SAFETY</u>
SECTION 10535	<u>EYEBROW CANOPIES (ADD ALT)</u>
SECTION 10600	<u>OPERABLE WALLS (ADD ALT)</u>
SECTION 10800	<u>TOILET ROOM PARTITIONS</u>
SECTION 10810	<u>TOILET ROOM SPECIALTIES</u>
SECTION 10950	<u>MISCELLANEOUS SPECIALTIES</u>
SECTION 11400	<u>RESIDENTIAL KITCHEN EQUIPMENT</u>
SECTION 12321	<u>PLASTIC LAMINATED CLADDED CASEWORK</u>
SECTION 14240	<u>MACHINE-ROOMLESS (MRL) ELEVATORS</u>

(END OF SECTION 00009)

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SECTION 00100 - INSTRUCTIONS TO BIDDERS

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- 1.0 SPECIFICATION TECHNOLOGY
- 2.0 FAMILIARITY WITH LAWS
- 3.0 PROGRESS PAYMENTS
- 4.0 BIDDING DOCUMENTS
- 5.0 ALTERNATES
- 6.0 ADDENDA
- 7.0 INTERPRETATION OF BIDDING DOCUMENTS
- 8.0 EXAMINATION OF BIDDING DOCUMENTS AND SITE WORK
- 9.0 LISTING AND APPROVAL OF SUBCONTRACTORS
- 10.0 TIME OF COMPLETION AND LIQUIDATED DAMAGES
- 11.0 BASIS FOR BIDDING TRADE NAMES
- 12.0 FLORIDA PRODUCTS AND LABOR
- 13.0 TAXES
- 14.0 PERMITS
- 15.0 GOVERNING CODES

SECTION 00100 - INSTRUCTIONS TO BIDDERS

00100-1

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 GAINESVILLE, FLORIDA PSA 22-818

SECTION 00100 - INSTRUCTIONS TO BIDDERS

1.0 SPECIFICATION TERMINOLOGY

- 1.01 Bidder is required to obtain a copy of Owners Contractual Agreement
- 1.02 Definition of Terms: Whenever in the Specifications the following terms or pronouns in place of them are used their intent and meaning shall be interpreted as follows:
 - A. Owner: Alachua County Board of County Commissioners.
 - B. Architect/Engineer: Acting directly or through a duly authorized representative.
 - C. Inspector: An authorized representative of the Architect/Engineer or Owner assigned to inspect any of the materials, workmanship, or completed work entering into the work.
 - D. Bidder: Any individual, firm, partnership, or corporation submitting a proposal for the work contemplated.
 - E. Surety: The corporate body, which is bound with and for the Contractor, which is primarily liable and which guarantees the faithful performance of the Agreement.
 - F. Proposals: The approved forms on which the Bidder will submit his bid for the work contemplated.
 - G. Drawings: The authorized plans and other drawings or reproductions thereof pertaining to the work to be done.
 - H. Project Manual: The Conditions of the Contract, Detailed Technical Specifications and such other descriptions of the work as are set forth in any of the Contract Documents.
 - I. Agreement: "Agreement" shall mean the document entitled "Form of Agreement Between Contractor and Owner for Construction of Buildings", including all Addenda issued prior to execution of Agreement and all modifications issued subsequent thereto.
 - J. Contract: "Contract" shall mean the Contract Documents as defined and listed in the Agreement.
 - K. Maintenance Project: Work efforts required to preserve the quality and condition of an existing condition work is to be in like as reasonably close as possible, new technology and product selection modifications can be used if energy savings and code requirement promote their use.
 - L. Accessibility Enhancements: Improvements to existing conditions to enhance handicap accessibility.
 - M. Design Team:
 - Architect**
 - Paul Stresing Associates, Inc.
 - 14617 Main Street, Alachua, FL 32615
 - (386) 462-6407

2.0 FAMILIARITY WITH LAWS

- 2.01 The Bidder is required to be familiar with all Federal, State and local laws, ordinances, rules, CODES, and regulations that in any manner affect the work. Unfamiliarity or misinterpretation on the part of the Bidder will in no way relieve him from applicable responsibilities. Each Contractor/Subcontractor, Material Vendor, and Applicator is expected to be trained and experienced in the field of their expertise, and neglecting to comply with codes and special requirements unique to their discipline does not relieve them or the Contractor from providing it as if it were shown or called for.

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SECTION 00100 - INSTRUCTIONS TO BIDDERS

3.0 PROGRESS PAYMENTS

3.01 Based upon Applications for Payment submitted to the Architect/Engineer by the Contractor and Certificates for Payment issued by the Architect/Engineer, the Owner shall make progress payments to the Contractor as provided in the Agreement. No payment will be allowed for any material or equipment stored off the project site.

4.0 BIDDING DOCUMENTS

4.01 All of the descriptions of the work as well as of the instruments of procedure which are contained in and embraced by the Drawings and Specifications and including Addenda not contained therein comprise the Bidding Documents.

5.0 ALTERNATES

5.01 If the Owner wishes to learn the relative or additional construction cost of an alternative method of construction, an alternative use of type of material, or an increase or decrease in scope of the project, these items will be defined as Alternates and will be specifically described by the Drawings and/or Specifications. Alternates will be listed in the Proposal Form in such a manner that the Bidder shall be able to clearly indicate what sums he will add to his Base Bid.

5.02 Such alternates may or may not be accepted. The alternate will be accepted or rejected solely by the decision of the assigned representative of the Alachua County Board of County Commissioners. The Bidder shall add to his base bid dollar amounts for each of the items listed in the Bid Proposal Form, including any Alternates.

6.0 ADDENDA

6.01 In case the Architect/Engineer finds it expedient to supplement, modify or interpret any portion of the Bidding Documents during the bidding period, such procedure will be accomplished by the issuance of written Addenda to the Bidding Documents which will be delivered or mailed to all prospective Bidders at the respective addresses furnished for such purposes.

7.0 INTERPRETATION OF BIDDING DOCUMENTS

7.01 No interpretation of the meaning of the Drawings, Specifications, or other Bidding Documents, no correction of any apparent ambiguity, inconsistency, or error therein will be made to any Bidder orally. Every request for such interpretation or correction should be in writing, addressed to the Architect/Engineer. All such interpretation and supplemental instructions will be in the form of written Addenda to the Bidding Documents.

7.02 Only the interpretation or correction so given by the Architect/Engineer, in writing, shall be binding and prospective Bidders are advised that no other source is authorized to give information concerning or to explain or interpret the Bidding Documents.

7.03 The Intent of the Drawings and Specifications: The Contractor shall complete all work as provided for in Contract Documents including Drawings and Specifications. Anything

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SECTION 00100 - INSTRUCTIONS TO BIDDERS

mentioned or implied in Specifications and not shown on Drawings or shown or implied on the Drawings and not mentioned in the Specifications, shall be furnished and installed as if shown and mentioned in both to insure a complete installation of the implied scope of work, in full compliance with the governing codes. The Contractor shall furnish all materials, incidentals, and/or labor required to complete work shown or implied on the Drawings (as in a typical Building Section, door hardware, schedule, service tie-ins, etc.) and called out in the Specifications, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work whether or not each and every single item necessary to completion is specified or detailed.

- 7.04 **Contractor Responsible for Work Required:** The organization of the Specifications into Divisions, Sections, and Paragraphs and the arrangement of the Drawings are not intended to control the Contractor in dividing the work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn, specified, implied or shown in typical elevations, details, etc. implying other walls not shown to be treated the same, install as if it were detailed, completed in place and in functional or operating conditions. The division of the Specifications into Sections and Paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the work to any particular trade. Material vendors and approved subcontractors for each product and its assembly are expected to be experts in their field of training and knowledgeable in the installation of the products being installed and are expected to install their scope of work and all interfacing with adjoining systems with all necessary miscellaneous incidentals whether specified or identified or not; system means a complete code compliant and operational installation.
- 7.05 **Measurements:** Before ordering materials or doing any work, the Contractor shall in all cases verify measurements at the site or premises and check same against Drawings. No extra charge or compensation will be allowed on account of differences between actual dimensions and measurements shown on Drawings. Any differences found shall be submitted to the Architect for resolution before proceeding with the work.
- 7.06 If additional drawing, engineering, or investigative work is requested by the Architect or Engineers to entertain a modification or alteration to accommodate an alternate system, any and all costs associated with the request shall be the responsibility of the Contractor and their Subcontractors.

8.0 EXAMINATION OF BIDDING DOCUMENTS AND SITE WORK

- 8.01 Bidders are required, before submitting their proposals, to visit the site of the proposed work and completely familiarize themselves with the nature and extent of the work and any local conditions that may in any manner affect the work to be performed and the equipment, materials, and labor required. They are also required to examine carefully the Drawings, Specifications, and other Bidding Documents to inform themselves thoroughly regarding any and all conditions and requirements that may in any manner affect the work.

9.0 LISTING AND APPROVAL OF SUBCONTRACTORS (If Required by Owner)

- 9.01 In order that the Owner may be assured that only qualified and competent subcontractors in a hard bid project delivery will be employed on the project, each Bidder shall submit with his

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SECTION 00100 - INSTRUCTIONS TO BIDDERS

Proposer list the subcontractors who will perform the work in these Specifications as indicated by the "List of Subcontractors" form contained in these Specifications. The Bidder shall have determined to his own complete satisfaction that a listed subcontractor has been successfully engaged in this particular type of business for a reasonable length of time, has successfully completed installations comparable to that which is required by this Agreement and is qualified both technically and financially to perform that pertinent phase of this work for which he is listed. Each Subcontractor shall be currently certified and licensed to perform that phase of the work for which he is listed. Only one subcontractor shall be listed for each phase of the work. Electrical, HVAC, and Plumbing Contractors shall be State Certified and present a copy of license upon request of the Owner within 48 hours of bid opening. The Owner/Architect has the right to accept or reject the name of any subcontractor listed if they deem it is in their best interest.

- 9.02 After public opening and reading of Proposals, the Listing of Subcontractors submitted by the apparent competitive low Bidders will be read publicly. The listings or the next two low bids will be held for 30 days. The listings of the other Bidders will be returned.
- 9.03 No change shall be made in the list of subcontractors before or after the award of a contract, unless agreed to in writing by the Owner.

10.0 TIME OF COMPLETION AND LIQUIDATED DAMAGES

- 10.01 The work to be performed under this contract shall be dictated by the executed Owner/Contractor contract.
 - A. Owner requires a final completion on or before **180** days after the owner issued Notice to Proceed or the date agreed to and established in the County provided agreement for this particular project scope of work being contracted.
- 10.02 Failure to complete the project within the time fixed above will result in substantial injury to the Owner, and as damages arising from such failure cannot be calculated with any degree of certainty, it is hereby agreed that if the project is not substantially completed, as in accordance with the provisions of the Contract Documents shall be allowed for such substantial completion, the Contractor shall pay to Owner as liquidated damages for such delay, and not as a penalty, **\$500.00** for each and every calendar day elapsing between the date fixed for substantial completion above for the first thirty (30) days and **\$250.00** per day thereafter until the date such substantial completion shall have been fully accomplished, or as previously negotiated in the Owner contract. The Liquidated Damages described in the County agreement shall be the Owner's sole remedy for Construction Contractor's delay but shall not exclude the recovery of damages by the Owner under other provisions of the Contract Documents. This provision of liquidated damages for delay shall in no manner affect the Owner's right to terminate the contract as provided in the General Conditions or elsewhere in the Contract Documents. The Owner's exercise of the right to terminate shall not release the Contractor from his obligation to pay said liquidated damages in the amounts set out above.
- 10.03 This provision for liquidated damages for delay shall in no manner affect the Owner's right to terminate the contract as provided in the County's agreement. The Owner's exercise of the right to terminate shall not release the Contractor from his obligation to pay said liquidated damages in the amounts set out in the Agreement.
- 10.04 It is further agreed that the Owner may deduct from the balance retained by the Owner under the provisions identified in the County's Agreement as the case may be, or such portion thereof as the said retained balance will cover.

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SECTION 00100 - INSTRUCTIONS TO BIDDERS

11.0 BASIS FOR BIDDING - TRADE NAMES

11.01 For clarity of description and as a standard of comparison, certain equipment, materials, etc., have been specified by trade names or manufacturers to insure a uniform basis for bidding. The Bidder shall base his Proposal on the particular system, equipment, or material specified. After the contract is let, other equipment materials, etc., as manufactured by other manufacturers may be accepted only if, in the opinion of the Architect/Engineer, same is equivalent in quality and workmanship and will perform satisfactorily its intended purpose.

12.0 FLORIDA PRODUCTS AND LABOR

12.01 The Contractor's attention is called to Section 255.04, Florida Statutes, which require that on public building contracts Florida products and labor shall be used wherever price and quality are equal.

13.0 TAXES

13.01 Although the Owner is not subject to the Florida Sales and Use Tax, any Contractor who purchases materials which will be used in the construction of state-owned building will not be exempted from the Sales Tax on these materials as evidenced by the following excerpt from the Florida statutes:

"The State, any county, municipality, or political subdivision of this State is exempt from the sales tax, except this exception shall not include sales of tangible personal property made to contractors employed either directly or as agents of any such government or political subdivision thereof when such tangible personal property goes into or becomes a part of public works owned by such government or political subdivision thereof."

13.02 The Owner is not subject to:

- A. Federal Excise Taxes on materials or appliances that are incorporated into and become a part of the completed improvement.
- B. Federal Tax on Transportation of Property.

13.03 In every case of a purchase of materials to be incorporated in the work which are subject to Federal Excise Tax, the Owner will furnish to the Contractor the necessary Federal Excise Tax Exemption Certificate upon receipt of a copy of the supplier's invoice showing the item or items, the net price, and Federal Excise Tax separately.

13.04 The Bidder shall take these factors into consideration in preparing his proposal, including therein the cost of the State Sale and Use Tax on materials, but excluding the cost of those taxes not applicable.

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SECTION 00100 - INSTRUCTIONS TO BIDDERS

14.0 PERMITS

14.01 The General Contractor is responsible for procurement of all required permits. Unless work efforts are non-structural maintenance related enhancement to protect the structure and accessibility, consult with the building department to discuss maintenance enhancement improvements.

15.0 GOVERNING CODES

15.01 Governing Code: Florida Building Code 8th Edition

15.03 State Requirements:

- A. The Standard Florida Building Code 8th Edition
- B. Florida Standard Plumbing Code 8th Edition
- C. Florida Standard Mechanical Code 8th Edition
- D. Florida Standard Gas Code 8th Edition
- E. Florida Fire Prevention Code 8th Edition
- F. NFPA 70, National Electrical Code 2023
- G. NFPA 10, Fire Code 2022
- H. NFPA-101 Life Safety Code 2021
- I. Refer to Section 01060 – Codes, Permits and Fees of this manual.

(END OF SECTION 00100)

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SECTION 00810 - PROGRESS PAYMENTS

1.0 GENERAL

- 1.01 Owner will retain 5% of the amount earned by the Contractor until Final Payment is made.
- 1.02 Owner will at intervals, make progress payments to the Contractor as provided in the Agreement. Payment will be as follows:
 - A. Monthly payments for work completed, less 5% retainage.
 - B. Final Payment of balance due, at final completion of the project, subject to other conditions of the project documents.
- 1.03 Job will be considered 100% complete after the final inspection and acceptance by the Threshold Inspector, the Authority having Jurisdiction, the Architect/Engineer and District Schools and any other inspection required by the Architect/Engineer or State Agencies are complete and all closeout material is submitted, reviewed, and approved by Architect/Engineer.
- 1.04 Request for payment must be in the Office of the Project Manager fourteen (14) days prior to the day payment is made.
- 1.05 The Alachua County Board of County Commissioners issues payments on designated days of the month, which will be identified during the pre-construction meeting.
- 1.06 The Contractor shall request such compensation except for final payment by submitting:
 - A. A properly completed and notarized Application for Progress Payment (AIA Document G702) using AIA Document G703, 1992 Edition or a mutually agreed schedule, if provided in the County provided.
 - B. A schedule of Contract Values using AIA Document G703, 1992 Edition. A computer-generated form may be used provided it contains all the information required by AIA Document G703, 1992 Edition.
 - C. or if acceptable by the owner the County front-end agreement for submittals required for Final Payment.
- 1.07 The Contractor shall, within ten (10) days from the date of value of each item shall include a true proportionate amount of the Contractor's overhead and profit. The sum of all such scheduled values shall equal the Contract Sum as evidenced by the Agreement.
- 1.08 The approved form of Schedule of Contract Values will accompany and support the Contractor's periodic Applications for Payment and shall indicate the value of suitably stored material as well as labor performed and materials incorporated into the work for each subdivision of the schedule during the period for which the requisition is prepared.

2.0 EXCLUSION OF OWNER FROM LIABILITY

- 2.01 Notwithstanding any other provision of the Contract Documents, should the Contractor sustain loss or be damaged by act or omission of a separate Contractor, the Owner shall not be liable for any such loss or damage and the Contractor shall not be entitled to obtain any monetary relief from the Owner to compensate for any such loss or damage, but shall be limited to such recovery as is otherwise available at law from persons and/or entities other than the Owner.

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SECTION 00810 - PROGRESS PAYMENTS

3.0 SUBSTITUTION OF MATERIALS AND EQUIPMENT

- 3.01 Whenever a material, article or piece of equipment is identified on the Drawings or in the Specifications by reference to manufacturers' or vendors' names, trade names, catalog numbers, or the like, it is so identified for the purpose of establishing a standard, and any material, article, or piece of equipment of other manufacturers or vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the material, article, or piece of equipment so proposed is, in the opinion of the Architect/Engineer, of equal substance, appearance and function. Any substitution shall be clearly identified to the Architect/Engineer and it shall not be purchased or installed by the Contractor without the Architect/Engineer's written approval.

4.0 NOTICE TO PROCEED

- 4.01 The Contractor shall not commence work on the Project until they have received from the Owner bonafide "Notice to Proceed."
- 4.02 A Letter of Intent will be issued immediately after the Board of County Commissioners approves the bid proposal for the project's scope of work. This letter is to be used to allow the Contractor to apply for the insurances and performance bond while the Contract is being prepared. Once the Contract has been reviewed and approved by the Board Attorney, and all insurances and bonds are received, the formal "Notice to Proceed" will be issued by the Owner.

(END OF SECTION 00810)

SECTION 00810 - PROGRESS PAYMENTS

00810.2

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SECTION 00860 - PURCHASE OF PROJECT DOCUMENTS

The Architect/Engineer will provide the Owner with electronic files of drawings and project that will be posted on their web-site.

OR

All work shall be completed in accordance with the plans and specifications (the bid documents) relative there to as proposed by Paul Stresing Associates. Construction Documents (plans and specifications) can be obtained for the cost of duplication by contacting Paul Stresing Associates.

Paul R. Stresing, AIA/NCARB
PAUL STRESING ASSOCIATES, INC.
14617 Main Street
Alachua, FL 32615
(386) 462-6407

Note: Purchase of Construction Bid Documents through PSA will include a handling charge.

Construction Documents will also be on record at the Alachua County Facility & Planning Department.

Project Addendums will be forwarded to the plan holder on record, plan holders are defined by interested bidders who have purchased documents. It is the contractor's ultimate responsibility to confirm prior to submitting his/her bid proposal that they are in possession of, or aware of, all the projects Addenda's and are to note this acknowledgement in the bid form.

(END OF SECTION 00860)

SECTION 00860 - PURCHASE OF PROJECT DOCUMENTS

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SECTION 00900 - SPECIAL CONDITIONS

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- 3.0 CONSTRUCTION MEETING
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SECTION 00900 - SPECIAL CONDITIONS

1.0 COMMON REFERENCE STANDARDS

1.01 Reference in the Contract Documents to known standards such as codes, standard specifications, etc., promulgated by professional or technical associations, institutes, societies mean the latest edition of each such standard adopted and published as of the date of the Contract for the work of this Project, except where otherwise specifically indicated. The following is a representative list of such standards together with the abbreviation by which each is identified:

AAMA	Architectural Aluminum Manufacturers Association
AA	Aluminum Association
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AIEE	American Institute of Electrical Engineers
AISC	American Institute of Steel Construction
ANSI	American National Standards Institute
API	American Petroleum Institute
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Standard 62-1 Ventilation for acceptable indoor air quality
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWSC	American Welding Society Code
AWWA	American Water Works Association
CRSI	Concrete Reinforcing Steel Institute
CS	Commercial Standard of National Bureau of Standards
FGMA	Flat Glass Marketing Association
NAAMM	National Association of Architectural Metal Manufacturers
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Assoc.
NFPA	National Fire Protection Association
SDI	Steel Deck Institute
SMACNA	Sheet Metal & Air Conditioning National Association
SSPC	Steel Structures Painting Council
TCA	Tile Council of America, Inc.
UL	Underwriters' Laboratories, Inc.

2.0 PROJECT MEETING (If required by owner)

- 2.01 To enable orderly review during progress of the Work, and to provide for systematic discussion of problems, the Owner will conduct project meetings throughout the construction period.
- A. Minutes: The Owner will compile minutes of each project meeting and will furnish copies to the Contractor and to the Project Manager. The Contractor may make and distribute such other copies as he wishes.
 - B. Except as noted below for Preconstruction meeting, project meetings will be held as necessary, but at least monthly. Coordinate as necessary to establish mutually acceptable schedule for meetings.
 - C. To the maximum extent practicable, meetings will be held at the job site.
 - D. Preconstruction Meeting will be scheduled after the Owner has received the signed contract from the contractor. Provide attendance by authorized representatives of

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SECTION 00900 - SPECIAL CONDITIONS

the Contractor and all major subcontractors. The Architect/Engineer will advise other interested parties and request their attendance.

3.0 CONSTRUCTION MEETING (if the Owner requires)

- 3.01 Employ a scheduler who is thoroughly trained and experienced in compiling construction schedule data, in analyzing by use of Critical Path Method or PERT, and in preparation and issue of periodic reports as required below.
- 3.02 Within ten (10) days after receipt of Notice to Proceed submit one (1) reproducible and four (4) prints of construction schedule.
- 3.03 On the first working day of each month following submittal described above, submit four (4) prints of the construction schedule updated.

4.0 PRODUCT DATA AT JOB SITE

- 4.01 Satisfactory evidence as to the kind and quality of all materials and equipment, in the form of shop drawings, manufacturer's literature, samples, or certification shall be readily available at the job site at all times for the Architect/Engineer's inspection regardless of whether such evidence has been required in the project manual for submittal to the Architect/Engineer.

5.0 TESTS

- 5.01 Refer to section 01400.

6.0 RECORD DRAWINGS (AS-BUILTS)

- 6.01 In accordance with the requirements of the General Conditions, the Architect/Engineer will provide the Contractor with a set of reproducible drawings of the original bidding documents, as required and at Contractor's expense as follows:
 - A. If the Contractor elects to vary from the Contract Documents, and secures prior approval of the Architect/Engineer, for any phase of the work other than those listed below, he shall record in a neat readable manner all such variances on the reproducible drawings furnished.
 - B. For plumbing, heating, ventilating and air conditioning, electrical, and fire protection work, record drawings shall be maintained by the Contractor as the work progresses and as follows:
 - 1) All deviations from sizes, locations and from all other features of all installations shown in the Contract Documents shall be recorded.
 - 2) In addition it shall be possible, using these drawings, to correctly and easily locate, identify, and establish sizes of all piping, directions and the like, as well as all other features of work which will be concealed underground and/or in the finished building.
 - a) Locations of underground work shall be established by dimensions to column lines of walls, locating all turns, etc., and by properly referenced centerline or invert elevations and rates of fall.
 - b) For work concealed in the building, sufficient information shall be given so it can be located with reasonable accuracy and ease. In

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some cases this may be by dimension. In others it may be sufficient to illustrate the work on the drawings in relation to the spaces in the building near which it was actually installed. Architect's/Engineer's decisions shall be final.

- 3) The following requirements apply to all Record Drawings:
 - a) They shall be maintained at the Contractor's expense.
 - b) All such drawings shall be done carefully and neatly by a competent draftsman and in form approved by the Architect/Engineer.
 - c) Additional drawings shall be provided as necessary for clarifications.
 - d) They shall be kept up-to-date during the entire course of the work and shall be available on request for examination by the Architect/Engineer and, when necessary, to establish clearances for other parts of the work.
 - e) The record drawings shall be returned to the Architect/Engineer on completion of the work and are subject to the approval of the Architect/Engineer.
 - f) Contractor may elect to retain the services of the Architect and Engineer of record in lieu of independent CAD operation to computerize the field As-Builts so all field conditions are electronically documented.

7.0 OPERATION AND MAINTENANCE MANUALS

- 7.01 Submit **two (2)** copies of Operation and Maintenance Manual prior to indoctrination of operation and maintenance personnel. Include at least the following:
 - A. Neatly typewritten index near the front of the manual, giving immediate information as to location within the Manual of all emergency data regarding the installation.
 - B. Complete instructions regarding operation and maintenance of all equipment involved, including lubrication, disassembly, and reassembly.
 - C. Complete nomenclature of all parts of all equipment.
 - D. Complete nomenclature and part number of all replaceable parts name and address of nearest vendor, and all other pertinent data regarding procurement procedure.
 - E. Electrostatic copy of all guarantees and warranties issued. Dates should reflect the date of the Certified Substantial Completion. Items modified or installed after that date should be dated the date activated or installed.
 - F. Manufacturer's bulletins, cuts, and descriptive data, where pertinent, clearly indicating the precise items included in this installation and deleting, or otherwise clearly indicating, all manufacturer's data with which this installation is not concerned.
 - G. Such other data as required in pertinent other Sections of these specifications.
 - H. Technical data sheet on all material used.
 - I. All bacteria and related water test results.
 - J. Electronic file of a complete copy of each shop drawing submittal.
 - K. Compile As-Built Construction Documents

8.0 CLEANING UP

- 8.01 In addition to the provisions of Article 4.15 of the General Conditions, the following shall be required:
 - A. Besides the "removal of waste materials", the following special cleaning shall be

SECTION 00900 - SPECIAL CONDITIONS

required just prior to acceptance:

- 1) Remove Stains: Wash and polish glass inside and outside. This work shall be done by person skilled and equipped for such work.
 - 2) Remove foreign matter, marks, stains, foreign paint, fingerprints, soil, and dirt from (and have in a polished condition where applicable) the following:
 - a) Painted, decorated, and stained work.
 - b) All hardware, fixtures, and incorporated equipment.
 - c) All finished surfaces and metal surfaces, whether interior or exterior.
 - d) All doors and windows, including tracks and rollers.
 - 3) Use only the cleaning materials and equipment which are compatible with the surface being cleaned, as recommended by the manufacturer of the material or as approved by the Architect/Engineer.
- B. In addition to clean-up provisions of the Specifications, Contractor shall take appropriate steps to prevent airborne dust due to the work of this Contract. Water shall be applied wherever practical to settle and hold dust to a minimum, particularly during excavation and moving of materials.

9.0 PROJECT CLOSEOUT

9.01 Prior to the Contractor submitting his/her final payment request, all closeout paperwork is to be complete and submitted for with each section applicable to the work information to be indexed and tagged. The closeout binder shall include, but is not limited to, the following list of items. The Contractor is to refer to each Section of the Project Manual for any additional items.

A. General List of Closeout Documents:

1. Provide a typed list of all Contractors, Subcontractors and Suppliers (if applicable) with addresses, telephone numbers and Contact's name.
2. Architect and Engineer punch list with each item identified with a signature as being successfully corrected and verified, or an explanation as to its current position.
3. All test results as noted in each section of the project manual.
4. Original copies of Final Releases (Conditional Releases will not be accepted).
5. As-built Drawings (Hard Copy and Computer Scans). Provide two (2) copies – one for the Owner and one for the Architect.
6. Equipment Maintenance Binders (2 copies minimum unless noted otherwise elsewhere in this Project Manual).
7. Warranties dated the date of substantial completion as noted by the Architect.
8. Date anticipated for post-occupancy inspection (± two weeks prior to the one-year warranty expiration).
9. Complete electronic copy of the approved shop drawings.
10. Complete copy of all test results.

9.02 Refer to Section 01700 Closeout Requirements of this Project Manual for additional direction and requirements.

10.0 TOXIC SUBSTANCES

10.01 The State of Florida has prepared a list of toxic substances. The Contractor shall review the

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list to determine if any materials which he will be installing are listed.

- 10.02 The Contractor will notify the Owner in writing three (3) days prior to use of any toxic substances in the construction of the facility.
- 10.03 The Contractor shall comply with all State, Federal, and Local Regulations for the use of any toxic substances.

11.0 LEAD

- 11.01 No lead product shall be used on this project.
- 11.02 The use of solder that contains lead or paint that contains lead is not acceptable on this project.
- 11.03 The General Contractor is responsible for notifying all Subcontractors and Suppliers that no lead is acceptable on this project.
- 11.04 The General Contractor, Plumbing Subcontractor, Mechanical Subcontractor, Electrical Subcontractor, and Painting Subcontractor, shall provide written certification, prior to substantial completion that no lead has been used on this project and agrees to replace any lead if discovered at no expense to the Owner. The certification shall be addressed to the **Alachua County Board of County Commissioners**.

12.0 ASBESTOS

- 12.01 No asbestos, or products containing asbestos, will be used on this project.
- 12.02 The Contractor shall be responsible for notifying all Subcontractors and Suppliers of this requirement.
- 12.03 If by Independent Test Laboratory studies the Owner discovers any asbestos products have been used on this project, the Contractor will be liable for necessary consulting fees, removal of asbestos products and installation of new product of similar value.
- 12.04 The General Contractor, the Mechanical Subcontractor, Electrical Subcontractor, Floor Subcontractor, Ceiling Tile Subcontractor, and Insulation Subcontractor shall provide, prior to substantial completion, a certification by the President of the Construction Company stating that no asbestos products have been used on this project and referring to the Agreement to remove any asbestos products, if discovered, addressed to the **Alachua County Board of County Commissioners**.

13.0 EQUAL OPPORTUNITY

- 13.01 The contractor shall maintain policies of employment as follows:
 - A. The Contractor and all Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, or age. The Contractor shall take affirmative action to insure that applicant are employed, and the employees are treated during employment, without regard to their race, religion, color, sex, national origin or age. Such action shall include, but

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- not be limited to, the following: 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. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.
- B. The contractor and all subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants will received consideration for employment without regard to race, religion, color, sex, national origin or age.

(END OF SECTION 00900)

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SECTION 01010 - SUMMARY OF WORK

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplemental Conditions and General Requirements, apply to the work specified in this Section.

- 1.02 Description of Work: The intent of this work is the re-purposing of the recently vacated existing two-story armory building. The prior business recently vacated the facility to relocate out of state allowing the county to purchase the building for use by the county's emergency operations and management division to better serve the county. To achieve this transition and accommodate the Emergency Operations Center (EOC) and Fire Rescue Administrative needs the following construction efforts will be required for this projects Scope-of-Work.
 - 1) Remove the west walls existing roll-up motorized service door and in-fill the opening with a pre-engineered storefront system to create a new public lobby with a new reception area devisor wall with buzz-in doors. Base bid pre-engineered storefront/curtainwall system with a rolldown hurricane shutter and an additive alternate to install hurricane hardened storefront assembly system infill.
 - 2) Refinish and reconfiguration of the male and female group restrooms. At existing restrooms #111 and #112 remove shower stalls and floor tile and convert into water closets with stalls. Remove the shower area flooring and once shower stalls are converted into toilet stalls install quartz poured epoxy as noted on the drawings. Change-out existing toilet partitions at existing female restroom. At the male restroom, 124 and shower room #125 remove the interior finishes, walls and utilities and install new male restroom and three toilet rooms. Re-orient the male restroom to a new entry from hallway 122 and reconfigure vestibule existing 123 to allow the additional family / unisex toilet rooms independent of the public restrooms as seen in the accompanied drawing sheets. This improvement will include the cleaning up and consolidation of plumbing utilities, fixtures, and improve handicap accessibility. This area is to be modernized to create three unisex restrooms accessible to staff and the public. This work will improve handicap accessibility and clean up the existing restroom. Female restroom #112 renovated shower area is to have the floor prepped to receive new poured quartz epoxy floor. All new restrooms are to receive new poured quartz epoxy floor. Refer to bathroom interior elevations.
 - 3) The single-story southernmost Central Receiving area is to be cleaned and refinished converting the area into bunk area to be used during an emergency event. A new fitness/ wellness area with individual unisex bathrooms with shower units is located to the immediate north of the bunk area.
 - 4) In the open central area (which has a two-story volume) the two exposed roof suspended A/C units are to be removed and the reconfigured addition of new equipment with required outside air as noted in the mechanical series drawings. The work will include replacement and installation of new LED lighting and saw cutting and patching of the main open floor area to accommodate new data/electrical floor box units in a grid format (recessed floor boxes) to allow for easy emergency administrative setup during an emergency. Additionally, this open work area (Bullpen) will receive perimeter wall monitors connectivity for owner to install the wall monitors (as FF&E) for emergency planning as noted in the drawings, plans, and

SECTION 01010 - SUMMARY OF WORK

interior sections. This area was designed to accommodate a future raised platform area during an emergency event.

- 5) Existing first floor areas are to receive new flooring (refer to finish schedule and floor finish floor plan for the extent of work). In general, new flooring will consist of LVT in general areas, carpet squares in offices and conference rooms, and poured quartz epoxy flooring and base in restrooms except female restroom 111. All toilet partitions and toilet specialties are to be replaced.
- 6) A number of the existing first floor assembly spaces will be converted into single offices and work areas. Walls and exposed ceilings are to be repainted and existing VCT flooring and carpet flooring, and all vinyl base is to be removed and replaced with new flooring as noted in the finish schedule.
- 7) The existing vault space 135 is to have vault door removed and the space is to receive a new folding divisor wall and access door vestibule as shown on the drawings. All interiors are to be cleaned and repainted once patching and improvements are complete.
- 8) The entry hall #102 and adjacent reception and office spaces 103 and 104 are to be reconfigured to create three offices and a temp worker workspace and the existing solid doors in hall #102 are to be removed for code compliance.
- 9) The kitchen area is to be modernized as shown in the enlarged floor plan where the pantry is to receive new shelving and entry door (size to fit opening) and install passage hardware. Remove and replace sink and faucet assembly as noted in the MEP drawing. The Owner will relocate two existing large reach-in refrigerator/freezer units as noted on plan. The existing residential range/stove is to be cleaned and remain and a residential exhaust hood installed and tied to the existing adjacent wall exhaust unit. As an Additive Alternate the casework on the west wall is to be prepped (cut countertop and run power) to receive a new drop—in induction cook top and exhaust hood as noted on the enlarged floor plan. This space is to receive as an Additive Alternate a quartz poured epoxy flooring and integral base in place of base bid LVT.
- 10) Existing Processing Room 120 space is to be converted into a 911 reception and office suite with new interior divisor walls and interior finishes.
- 11) Vestibule 119 is to have a door added and the space converted back to an alarm closet for authorized personnel only.
- 12) The Quality Control Lab #140 is to be converted into additional administrative office areas and a media room as noted in the drawings.
- 13) In the large open central areas (space 105) north wall, construct a 9'-0" high lt. ga. metal framed divisor screen wall with tie-back stabilization soffits tying back to existing CMU wall (w/LED lights in the underside). This new divisor wall is constructed to visually screen traffic going in and out of the kitchen and break room, refer to floor plan and interior elevations.
- 14) In the large open central areas (space 105) west wall after the motorized roll up door assembly is removed and replaced with a new entry pre-engineered storefront/curtain wall system (add alternate pre-engineered entry eyebrow canopy). Construct a divisor screen wall with pilasters separating the public area or lobby from the open central area room 105. The reception lobby area to have buzz-in

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SECTION 01010 - SUMMARY OF WORK

doors operated from the reception desk unlocking the passage access doors. The reception area is to have a protective storefront with speak hole and pass-thru in the impact resistant glass. Refer to interior elevations for more detail.

- 15) The second-floor perimeter railing around the central open area #105 is to be removed and a new lt. ga. metal framed acoustically insulated wall installed with view windows configured to create individual offices around the current open mezzanine. The east end of the open space 105 is to receive a new 2nd floor mezzanine extension into space 105 by one structural bay to gain additional office space. The eastern most bay of space 105 is to have the slab sawcut to receive new concrete foundations for the new mezzanine column supports and the existing concrete slab at the proposed handicap accessibility lift is to be sawcut and repaired depressed ±4" (or as required by the lift manufacturer used) to accommodate the lift platform thickness. This new lift unit foundation is general in nature and depending on the lift manufacturer actually used is subject to adjustment once complete. Once complete continue the lt. ga. framed wall system to complete the needed office space. The offices under and above the mezzanine are the only spaces receiving new 2 x 2 lay-in acoustical ceiling system.
- 16) Miscellaneous office adjustments are being made in spaces 206, 207 and 208 to create an unobstructed exit from the second floor directly to the exterior by cutting a passage opening into an existing wall as indicated in the 2nd floor floorplan. The cut edges to be trimmed out with wood or coated with skim coat.
- 17) Interiors are to be prepped and repainted once patching and new construction is complete so finishes neatly blend, colors to be determined.
- 18) Facility is to receive a new emergency generator and hook ups as indicated in the MEP series drawings.

1.03 If Additive and Deductive Alternates are to be included in the scope of work at the Owner's option, they are outlined at *Section 01100 - Alternates*.

In an effort to not compromise the projects current budget a number of alternates have been included for the Owner to consider to enhance the base bid and are summarized below and detailed in Section 01100 of this project manual.

- Add Alt. No.1 – Impact resistant storefront SECTION 08450 and inline of protective grilles and roll down hurricane hardened shutters
- Add Alt. No.2 – Window impact grilles and shutters.
- Add Alt. No.3 – Carpet in open area Room No.109 (Base Bid Sealed Concrete).
- Deduct Alt. No.4 – 2 x 2 ceramic floor tile in lieu of poured quartz epoxy flooring with integral base.
- Add. Alt. No.5 – Fire Sprinkler System.
- Add. Alt. No.6 – New space 109 cable suspended acoustical clouds.
- Add. Alt. No.7 – West elevation Pre-engineered canopy.
- Add. Alt. No.8 – Folding wall
- Add. Alt. No.9 – Kitchen Quartz poured epoxy flooring with integral base in lieu of LVT.

(END OF SECTION 01010)

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SECTION 01020 - CUTTING AND PATCHING

1.0 GENERAL

- 1.01 **Related Documents:** The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 **Description of Work:** "Cutting-and-patching" is hereby defined to include but is not necessarily limited to the cutting and patching of nominally completed and previously existing work, in order to accommodate the coordination of work, or the installation of other work, or to uncover other work for access or inspection, or to obtain samples for testing, or for similar purposes. It is defined to exclude integral cutting-and-patching during the manufacturing, fabricating, erecting, and installing process for individual units of work.
- 1.03 Demolition is recognized as an example of a related-but-separate category of work, which may or may not also require cutting-and-patching as defined in this section.
- 1.04 Refer to other sections of Project Manual for specific cutting-and-patching requirements and limitations applicable to individual units of work.
- 1.05 **Quality Assurance:**
 - A. **Requirements for Structural Work:**
 - 1. Do not cut-and-patch structural work in a manner resulting in a reduction of load-carrying capacity or load/deflection ratio.
 - 2. Prior to cutting-and-patching the following categories of work, obtain the Architect's approval to proceed with cutting-and-patching as proposed in the submittal by the Contractor:
 - 3. Structural Steel - Miscellaneous Structural Metals, including lintels, equipment supports, stair systems, and similar categories of work.
 - a) Structural Decking
 - b) Roof Framing Members
 - c) Pressurized Piping, Vessels and Equipment
 - B. **Operational and Safety Limitations:**
 - 1. Do not cut-and-patch operational elements and safety-related components in a manner resulting in a reduction of capacities to perform in the manner intended or resulting in decreased operational life, increased maintenance, or decreased safety.
 - 2. Prior to cutting-and-patching the following categories of work, and similar categories where directed, obtain the Architect's approval to proceed with cutting-and-patching as proposed in the submittal by the Contractor.
 - 3. Sheeting, shoring and cross-lot bracing.
 - 4. Primary Operational Systems and Equipment.
 - 5. Water/moisture/vapor/air/smoke barriers, membranes and flashings.
 - 6. Noise and Vibration Control elements and systems.
 - 7. Control, communication, conveying, and electrical wiring systems.
 - C. **Visual Requirements -** Do not cut-and-patch work which is exposed on the exterior or exposed in occupied spaces of the building, in a manner resulting in a reduction of visual qualities or resulting in substantial evidence of the cut-and-patch work, both as judged solely the Architect. Remove and replace work judged by the Architect to be cut-and-patched in a visually unsatisfactory manner.

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SECTION 01020 - CUTTING AND PATCHING

- D. Any and all interruptions of existing facilities services shall be coordinated with Architect and Owner with ample notice for coordination of such work.

- 1.05 Submittals - Where prior approval of cutting-and-patching is required, submit proposal well in advance of time work will be performed, and request approval to proceed. Include description of why cutting-and-patching cannot (reasonably) be avoided, how it will be performed, how structural elements (if any) will be reinforced, products to be used, firms and tradesmen to perform the work, approximate dates of the work, and anticipated results in terms of variations from the work as originally completed (structural, operational, visual and other qualities of significance).

- 1.06 Materials - Except as otherwise indicated or approved by the Architect, provide materials for cutting-and-patching which will result in equal-or-better work than the work being cut-and-patched, in terms of performance characteristics and including visual effect where applicable. Comply with the requirements, and use materials identical with the original materials where feasible and where recognized that satisfactory results can be produced thereby.

- 1.07 Preparation - Provide adequate temporary support for work to be cut, to prevent failure. Do not endanger other work. Provide adequate protection of other work during cutting-and-patching, to prevent damage and provide protection of the work from adverse weather exposure.

- 1.08 Cutting-and-Patching - All trades will perform the necessary cutting to allow their materials to pass through existing floors, walls, or ceilings. All patching will be performed by the individual trades who built the walls, floors, or ceilings as part of their type of work.

- 1.09 Restore exposed finishes of patched areas and, where necessary, extend finish restoration onto retained work adjoining, in a manner which will eliminate evidence of patching.

- 1.10 Where patch occurs in a smooth painted surface, extend final paint coat over the entire unbroken surface containing the patch, after patched area has received prime and base coats, which have been properly feathered into adjoining areas.

(END OF SECTION 01020)

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SECTION 01060 - CODES, PERMITS AND FEES

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General Conditions, Supplementary Conditions and Special Conditions, (if any), along with the General Requirements, apply to the work specified in this Section.
- 1.02 All work contained under this Contract is based on the requirements contained in the latest one or more of the following:
 - A. The Standard Florida Building Code 8th Edition
 - B. Florida Standard Plumbing Code 8th Edition
 - C. Florida Standard Mechanical Code 8th Edition
 - D. Florida Standard Gas Code 8th Edition
 - E. Florida Fire Prevention Code 8th Edition
 - F. NFPA 70, National Electrical Code 2023
 - G. NFPA 10, Fire Code 2022
 - H. NFPA-101 Life Safety Code 2024
 - I. ANSI A117.1 (Physically Handicapped): 2017 (or latest edition)
 - J. Other Standards as referenced or specified in other Sections
- 1.03 Contractor and all Subcontractors shall comply with all laws, codes, and ordinances applicable to the work. This shall include Federal, State, County, and/or Municipal Entities having jurisdiction.
- 1.04 If governing Laws, Codes or Ordinances conflict with this Specification, then the Laws, Codes or Ordinances shall take precedence, except where these Specifications exceed them in quality of materials or labor, then the Specifications shall be followed. When a conflict occurs, the Architect/Engineer shall be notified before proceeding with the work.
- 1.05 Except as otherwise required by this Section, all products and workmanship shall conform to the best quality and practices recognized by Agencies, Associations, Councils, etc., as specified in individual Sections.
- 1.06 In the absence of specified standards, the Contractor shall conform to the requirements of the most widely recognized standards for each particular portion of the work.

(END OF SECTION 01060)

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SECTION 01100 - ALTERNATES/SUBSTITUTES

1.0 SCOPE

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 It is the purpose of this section of the specifications to describe items that are to be included in the Contractor's proposal as Additive Alternates.
- 1.03 It is not the intent of this section of the specifications to describe methods of construction or installation of alternate items, but only to itemize the extent of Alternates. See Drawings for additional information concerning the extent of Alternates and their locations.
- 1.04 In the event that Alternates are accepted, all provisions of documents, contract drawings, other contract documents, and the various trade sections of these specifications will govern any Alternate construction, materials, or equipment.
- 1.05 Alternates may be accepted in any order the Owner selects up to the limit of monies available.
- 1.06 Each bidder shall state in his proposal the amounts to be added to or deducted from the Base Bid for all Alternates in accordance with the following Alternate proposals.
- 1.07 A bidder may be excluded from consideration for award of the contract if he has not submitted a price for a particular Alternate which the Owner chooses to accept.

2.0 ALTERNATE PROPOSALS

- 2.01 Additive Alternate No. 1 – Impact Storm Storefront:
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete removal of all the existing windows and window infill and prepare and install new impact resistant storm storefront window units with insulated Low E glass at all the building's exterior window units and storefront as outlined in SECTION Impact Resistant Storefront of the project manual.
- 2.02 Additive Alternate No 2 – Hurricane Impact Panels over Existing Window Units:
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete construction and installation of impact resistant window grilles / shutters over the existing window types A, B, C, D, E, F, G and H exterior window and louver openings of the building as specified in Section Hurricane Screen Units of this Project Manual. This alternate is to include the rolldown hurricane shutter to protect the new standard storefront / curtainwall at the wet elevation main entry the original motorized rollup service door.
- 2.03 Additive Alternate No.3 – Bull Pen Space No.109 Carpet Squares:
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete preparation and installation of carpet squares and transition trim and new vinyl base throughout the new lobby and open

SECTION 01100 - ALTERNATES/SUBSTITUTES

strategic Bull Pen space No.109, Corridor No.109A, Vestibule No.109C and Corridor No.161 as indicated in the finish schedule.

Note: Coordinate carpet squares with floor data / electrical box trim.

- 2.04 Additive / Deductive Alternate No.4 – Ceramic Floor Tile and Base Sanitary Base:
Provide a cost difference (+ or -) representing the cost of all materials, labor and equipment costs associated with the floor preparation and installation of a new 8x8 non-slip floor tile in the new and remodeled restrooms and kitchen as indicated in the finish schedule in line of the base bid poured quartz epoxy flooring.
- 2.05 Additive Alternate No.5 – Fire Sprinkler Suspension System:
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete construction and installation of a new interior fire suppression system as outlined in the Fire Protection series drawings.
- 2.06 Additive Alternate No.6 – Suspended Acoustical Panels:
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete construction and installation of
- 2.07 Additive Alternate No.7 – West Elevation Pre-engineered Canopy Assembly
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete construction and installation of pre-engineered and pre-finished exterior entrance canopy at the west main entrance above new storefront. Refer to elevation drawing sheet A.6.0.
- 2.08 Additive Alternate No.8 – Folding Accordion Wall:
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete construction and installation of an accordion type folding wall to separate Breakout Rooms 143A & 143B.
- 2.09 Additive Alternate No.9 – Residential Drop-in Induction Cooktop:
Provide a price that represents all material, labor costs, equipment, and all miscellaneous incidentals required for the complete construction and installation of a drop-in residential (4) burner induction cooktop to be placed into an existing countertop.

3.0 SUBSTITUTIONS

- 3.01 Alternate or substitute products, materials or equipment to be acceptable as a basis for bidding shall be submitted to the Architect/Engineer for review. This submittal shall include all pertinent data necessary for comparison to specified items. Submittal and sample must be presented in a timely manner to allow review and - if approved - notification to all bidders by written Addendum seven (7) calendar days prior to the bid date.
- 3.02 Alternate or substitute products to be fairly considered should contain all data necessary. Failure to provide the data in the submission may jeopardize its approval.

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SECTION 01100 - ALTERNATES/SUBSTITUTES

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~~01100.3~~

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SECTION 01100 - ALTERNATES/SUBSTITUTES

GENERAL CONTRACTOR'S REQUEST FOR SUBSTITUTION FORM

REQUEST NUMBER: _____

[Submit in Duplicate. Use a Separate Form for each Submittal.]

DATE: _____

SUBMITTED TO: PAUL STRESING ASSOCIATES, INC.
 [ARCHITECT] 14617 Main Street, Alachua, Florida 32615
(386) 462-6407 / e-mail: psa@paulstresingassociates.com

REGARDING: _____
 PROJECT NAME _____ PROJECT NO. _____

SUBMITTED BY: _____
 [CONTRACTOR] _____

The Contractor hereby formally requests approval of the following product or system as an approved substitution.

NAME AND DESCRIPTION OF SPECIFIED PRODUCT OR SYSTEM:		
SPECIFICATION SECTION NO. _____ PAGE(S) _____ PARAGRAPH(S) _____		
DRAWING SHEET NO. _____ DETAIL OR SECTION NO. _____		

PRODUCT COMPARISON	SPECIFIED PRODUCT	SUBSTITUTION / ALTERNATE
PRODUCT CHARACTERISTICS		
Material:		
Flammability:		
Smoke Density:		
Fuel Contributed:		
Flame Spread:		
Moisture Absorption:		
Elasticity:		
Water Resistance:		
Substrate Compatibility:		
Warranty:		
EHPA Testing & Approval:		
Performance		
Material Thickness/ Size Restrictions:		
Structural Integrity:		

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INSTALLATION ON		
Concrete:		
Metal Deck:		
Steel Frames:		
Framing Members:		
Drywall/CMU:		
TEST REPORTS		
Is Exact Condition Covered?		
Rated Assembly?		
EHPA Tested/Certified:		
RESTRICTIONS		
Substrate:		
Floor:		
Roof:		
Wall (Non-Rated) Int./Ext.		
Wall (Rated) Interior/Exterior		
STRUCTURE		
Metal/Steel:		
Concrete:		
CMU:		
ENVIRONMENTAL RESTRICTIONS		
Outside Air Temperature:		
Inside Air Temperature:		
Relative Humidity:		
Wind Load:		
Rain Water Quantity:		
Equipment Loads:		
Moisture Tests Required?		
GUARANTEE:		
AVAILABILITY:		
COSTS:		
REASON FOR NOT GIVING PRIORITY TO SPECIFIED ITEMS:		

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SECTION 01100 - ALTERNATES/SUBSTITUTES

SUBSTITUTION AFFECTS OTHER MATERIALS OR SYSTEMS: YES NO [If yes, attach complete data.]

SUBSTITUTION REQUIRES DIMENSIONAL REVISION OR REDESIGN OF STRUCTURE OR MEP WORK:
 YES NO [If yes, attach complete data.]

SAVINGS OR CREDIT TO OWNER FOR ACCEPTING SUBSTITUTE:
\$ _____

THE ATTACHED DATA IS FURNISHED HEREWITH TO SUPPORT EVALUATION OF SUBSTITUTE:
 CATALOG, DWGS, SAMPLES, TESTS, REPORTS,
 OTHER

THE UNDERSIGNED HEREBY CERTIFIES THAT THE SUBSTITUTION HAS BEEN FULLY CHECKED AND COORDINATED WITH THE CONTRACT DOCUMENTS.

_____ BY:
FIRM NAME

ADDRESS

SUMMARY:

SUBSTITUTION APPROVED: YES OR NO

APPROVED WITH RESTRICTIONS:

- 1. _____
- 2. _____
- 3. _____

RESUBMITTAL REQUIRED: YES OR NO

REMARKS:

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SECTION 01100 - ALTERNATES/SUBSTITUTES

(END OF SECTION 01100)

SECTION 01100 - ALTERNATES/SUBSTITUTES

01100.7

SECTION 01150 – STANDARDS

1.0 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 work of this section.

- B. In addition to "The Florida Building Code (8th Edition), all, or the specific portions cited, of the following building codes are hereby incorporated by reference and made a part of this rule. In the case of conflicting requirements or where the UBC is mute, the more, or most stringent shall apply. The following codes, standards, and references shall be the latest edition:
 - a. **ACI 318.** American Concrete Institute, "Building Code Requirements for Structural Concrete and Commentary".
 - b. **AHERA.** Asbestos Hazard Emergency Response Act, 40 CFR, Part 763.
 - c. **AISC.** American Institute of Steel Construction edition adopted by the FBC.
 - d. **AISI.** American Iron and Steel Institute.
 - e. **ANSI.** American National Standards Institute.
 - f. **ASCEW.** American Society of Civil Engineers. References to ASCE 7. Standards shall be the latest edition.
 - g. **ASHRAE.** American Society of Heating, Refrigeration, and Air Conditioning Engineers.
 - h. **ASIC.** American Society of Irrigation Consultants.
 - i. **ASTM.** American Society for Testing Materials.
 - j. **DCA.** Department of Community Affairs.
 - k. Florida Americans with Disability Implementation Act and the Florida Accessibility Code for Building Construction, as adopted by the State Board of Building Codes and Standards.
 - l. Florida Energy Efficiency Code for Building Construction (FEEC), as adopted by the State Board of Building Codes and Standards under Rule 9B-3.047 FAC.
 - m. **DOT – AASHTO.** American Association of State Highway and Transportation Officials "Standard Specifications for Highway Bridges" as modified by Florida DOT Structures Design Guidelines.
 - n. **FBC.** Florida Building Code, all code divisions.
 - o. **FBC.** Fuel Gas Code.
 - p. **FBC.** Mechanical Code.
 - q. **FBC.** Plumbing Code.
 - r. **FBC.** Test Protocols for high velocity hurricane zones.
 - s. **FEMA.** **Federal Emergency Management Agency.** Rules and Regulations 44 CFR, Parts 59 and 60, for flood plain criteria governing insurability of facilities constructed in flood plain areas.
 - t. **MIL-L-19140E.** Military Specifications for Lumber and Plywood, Fire Retardant Treated.
 - u. **NEC.** National Electrical Code, (NFPA 70).
 - v. **NFOPA.** National Forest Products Association.
 - w. **NFPA.** National Fire Protection Association. NFPA 70, NFPA I, NFPA 101 and other NFPA codes as applicable. Exceptions are NFPA 101 Sections 10-2.2.7 and 10-7.2.2.7 "Exit Passageways" and where NFPA codes are exceeded by these State Requirements.

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SECTION 01150 – STANDARDS

- x. **OSHA.** Occupational Safety and Health Administration, U.S. Department of Labor, 29 CFR.
- y. **SBC/SSTD-12.** SBCCI Test Standard for determining impact resistance from wind borne debris.
- z. **SJI.** Steel Joist Institute.
- aa. **TMS.** The Masonry Society Standards; TMS 602, TMS 402.
- bb. **SMACMA.** Sheet Metal and Air Conditioning Material Association.

(END OF SECTION 01150)

SECTION 01150 – STANDARDS/EHPA

01150.2

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SECTION 01410 - PROCEDURES AND QUALITY CONTROL

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Codes and Regulations: Construction shall meet the requirements of the Florida Building Code and the 8th Edition, Florida Fire Prevention Code 8th Edition. Refer to Section 01060 for specific applicable codes.
- 1.03 Codes and Regulations: The Contractor shall be responsible for the calling to the Architect's attention any details or specifications that are not in conformance with applicable codes. Where no specific method or form of construction is called for in the Contract Documents, the Contractor shall comply with Florida Building Code 8th Edition requirements in carrying out such work.
- 1.04 Comply with regulations and codes of suppliers of utilities, and comply with all other local, state, and federal regulations and standards concerning building construction.
- 1.05 General Quality and Standards: To facilitate rapid examination, the detailed Specifications concerning basic requirements for labor, materials, equipment, and/or incidentals to be used on the project are included under the various divisions in as brief a form as is consistent with clarity. The primary concern of the detailed Specifications is for standards of performance expected for the finished work.
- 1.06 The interests of the Owner, the General Contractor, and others concerned with the work require the inclusion of certain general governing requirements and standards, as a precaution against contingency and to provide for the conditions under which the construction and the administration of the work will be carried out.
- 1.07 General requirements for the quality of the work, when not otherwise covered in more specific detail in the Specifications, will be governed by certain trade standards as described in this section on "Procedures and Quality Control."
- 1.08 These Specifications consider the project as a whole and assume its completion under a General Contract. Further, the scope of subcontractors and the quantities of materials and labor supplied to the General Contractor by others are assumed to be matters governed by agreement between the General Contractor and his subcontractors and suppliers and not by agreement between the Owner and any subcontractor or supplier.
- 1.09 Various sections of the construction specifications are intended to govern only the quality of work and/or materials incidental to the particular branch of work mentioned in this section title. Sections are not intended as itemizations of the work or materials to be furnished or to limit or define the scope of any subcontract or agreement to furnish material and labor.
- 1.10 The furnishing of all items of material, labor, equipment, and/or incidentals necessary to the completion of the project as a whole will be expected when such items are called for on the Drawings by diagram, note, or schedule, are listed in the Specifications, or are reasonably inferred by either or a combination of both to ensure a complete assembly and project.

SECTION 01410 - PROCEDURES AND QUALITY CONTROL

- 1.11 **Substitutions:** Products are generally specified by ASTM or other reference standard and/or manufacturer's name and model number or trade name. When specified only by reference standard, the Contractor may select any product meeting this standard, by any Manufacturer. When several products or manufacturers are specified as being equally acceptable, the Contractor has the option of using any product and manufacturer combination listed.

- 1.12 After the Contract has been executed, the Owner and the Architect will consider a formal request for the substitution of products in place of those specified, under the following conditions.
 - A. The request is submitted within thirty (30) days after the award of the Contract.
 - B. The request is accompanied by complete data on the proposed substitution substantiating compliance with the Contract Documents, including product identification and description where applicable and an itemized comparison of the proposed substitution with the products specified or named by Addenda with data relating to contract time schedule, design and artistic effect where applicable and its relationship to separate contracts.
 - C. The request is accompanied by accurate cost data on the proposed substitution in comparison with the product specified, whether or not modification to the contract sum is to be a consideration.
 - D. Successful and complete completion of the Request for Substitutions is included in Section 01100 of this project manual.

- 1.13 Requests for substitution based on the above conditions, when forwarded by the Contractor to the Architect, are understood to mean that the Contractor:
 - A. Personally, investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified.
 - B. Will provide the same guarantee for the substitution that he/she would for that specified.
 - C. Certifies that the cost data represented are complete and include all related costs under this Contract, but exclude costs under separate contracts and the Architect's redesign costs and that he/she waives all claims for additional costs related to the substitution which subsequently become apparent.
 - D. Will coordinate the installation of the accepted substitute, making such changes as may be required for the work to be complete in all respects.
 - E. Contractor will be responsible for reimbursement of any and all costs to the Architect for additional Architectural and Engineering efforts required to implement contractor proposed changes.

- 1.14 Substitutions will not be considered if:
 - A. They are indicated or implied on shop drawing submissions without the formal request required above.
 - B. For their implementation they require a substantial revision of the Contract Documents in order to accommodate their use.

- 1.15 **Preconstruction Conference:** Before beginning work at the site, the General Contractor shall attend a preconstruction conference and shall bring with him/her the Superintendent employed for the duration of the project. Also, instruct the plumbing, mechanical, and electrical subcontractors or their representatives to attend this meeting. At this time, all the parties concerned will discuss the project under Contract and will prepare a program of

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SECTION 01410 - PROCEDURES AND QUALITY CONTROL

procedure in keeping with the requirements of the Drawings and Specifications. The Superintendent shall henceforth make every effort to expeditiously coordinate all phases of the work, including the required reporting procedure, to obtain the end result within the full purpose and intent of the Drawings and Specifications for the project.

- 1.16 Project Sign: Not Required
- 1.17 Warranties: Except as otherwise specified, all work shall be warranted by the Contractor against defects resulting from the use of inferior materials, equipment or workmanship for one year from the date of final completion of the Contract, or from full occupancy or use of the project (for which it was designed) by the Owner, whichever is earlier.
- 1.18 If, within any warranty period, repairs or changes are required in connection with the warranted work, which in the opinion of the Architect/Engineer, are rendered necessary as the result of the use of the materials, equipment or workmanship which are defective or inferior or not in accordance with the terms of the contract, the Contractor shall, promptly upon receipt of notice from the Owner, and without expense to the Owner, proceed to:
 - A. Place in satisfactory condition, in every particular, all of such warranted work, and correct all defects therein.
 - B. Make good all damage to the structure or the site, or equipment or contents thereof, which, in the opinion of the Architect/Engineer, is a result of the use of materials, equipment or workmanship which are inferior, defective, or not in accordance with the terms of the Contract.
 - C. Make good any work or materials, or the equipment and contents of structures or site, disturbed in fulfilling any such warranty.
 - D. If the Contractor, after notice, fails to proceed promptly to comply with the terms of the warranties, the Owner may have the defects corrected; and the Contractor and his/her surety shall be liable for all expenses incurred.
 - E. The date of Substantial Completion issued by the Architect will be the date the warranties will commence. If a product is replaced for any reason the new date of that item's warranty will begin when that item has been successfully installed and found to be in working order.
- 1.19 Supervision: General Contractor is to have a Superintendent, employed by him throughout the duration of the project, present at work areas whenever any subcontractors', as well as, Contractor's personnel are working. Supervision by General Contractor of all work under this Contract is mandatory.
- 1.20 The Contractor shall furnish sufficient forces, construction plant, and equipment and shall work such hours, including night shifts and overtime operations, as may be necessary to ensure the procession of the work and to complete the work within the specified time. The Contractor shall take such steps as may be necessary to improve his/her progress by increasing the number of shifts, overtime operations, days of work, and the amount of construction plant, all without additional cost to the Owner.
- 1.21 Failure of the Contractor to comply with the requirements under this provision shall be grounds for determination by the Architect that the Contractor is not prosecuting the work with such diligence as will ensure completion within the time specified, and such failure constitutes a substantial violation of the Agreement.

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SECTION 01410 - PROCEDURES AND QUALITY CONTROL

- 1.22 Upon such determination, the Owner may terminate the Contractor's right to proceed with the work, or any separable part thereof, in accordance with Article 14 of the AIA General Conditions.

(END OF SECTION 01410)

SECTION 01410 - PROCEDURES AND QUALITY CONTROL

01410-4

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SECTION 01530 – BARRIERS (If required for Safety)

1.0 GENERAL

1.01 Summary: It is the intent of this section to provide for the furnishing, erecting, providing and installing of all protective barriers to prevent harm to workmen, city employees or the public by adequately marking and designating work areas that may be cause of such harm and to adequately mark those areas containing stored materials to prevent damage.

1.02 Description:

- A. Erect barriers around areas of construction to warn all persons of the possible hazards of personal injury when entering such areas. Erect barricades around open holes and work edges or other such items which may, because of location of work areas or type of work, because of injury or harm to any person within construction areas.
- B. Erect barriers around existing planting areas to protect landscaping plants from damage due to construction operations, storage of materials and abuse by workmen.
- C. The Contractor shall erect barriers or fences to protect materials stored on-site and to prevent children from playing on stored materials and equipment.
- D. Erect barriers to contain all dust and materials from escaping the work site.

2.0 PRODUCTS

2.01 Barriers:

- A. Barricade may be portable, prefabricated types or erected and fabricated on-site of wood or rope and chains.
 - 1. Signs:
 - a. Post at not more than 12 feet apart and attached to barricade.
 - b. Attach signs stating "Danger" or "Do Not Enter".
 - 2. Flags: post red colored flags at not more than 6 feet apart.
 - 3. Barricades:
 - a. Each barricade type shall meet OSHA standards.
 - b. OSHA standards exceed all other type barricades listed herein.
- B. Landscaped Areas: Erect barriers to prevent workmen from entering or storing materials in planting areas.

3.0 EXECUTION

- 3.01 Barriers shall remain in place during entire construction operations, from demolition until substantial completion.
- 3.02 Barrier locations will be determined on the plan sheet as approved by Project Manager/Architect/Engineer and will be discussed at the Pre-construction Meeting.
- 3.03 Barriers shall be removed at completion of all construction operations.

(END OF SECTION 01530)

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SECTION 01710 – CLEANING

1.0 GENERAL

1.01 Description of Work:

- A. Work includes, but is not limited to, cleaning of materials and work of all Specification Sections, removal of trash, debris, and waste materials and preparation of building for occupancy.
- B. Maintain premises and public properties free from accumulation of waste, debris, and rubbish caused by work operations.
- C. At completion of Work, remove waste materials, rubbish, tools, equipment, machinery and surplus materials, and clean all sight-exposed surfaces. Leave project and premises clean and ready for occupancy.

2.0 PRODUCTS

2.01 Use only cleaning materials recommended by manufacturers and only as directed by manufacturers.

- A. Take proper precautions to prevent damage by spillage of caustic, acidic, toxic or volatile cleaning material:
 - 1. Keep and store all cleaning materials, compounds, or solutions in covered metal or other suitable safe containers and keep in a safe, locked storage area when not in use.
 - 2. Notify Owner authorities when any toxic substances shall be used so as to provide proper notice to employees to prevent any contamination by inhaling, touching, or tasting or any other contact which may cause illness or reaction to the toxic substance.
- B. Clean and remove any spilled cleaning materials. Repair or replace damaged materials due to spilled cleaning materials.
- C. Do not dispose of any cleaning materials, compounds, or solutions into sanitary lines, storm drains, or on-site pits. Dispose of as prescribed by Law.

3.0 EXECUTION

3.01 During Construction:

- A. Execute cleaning to ensure that building, grounds, and public properties are maintained free from accumulations of waste materials and rubbish. Wet down dry materials, and rubbish to lay down dust, and prevent blowing of dust. Periodically, during progress of work, remove accumulations of waste, debris, and trash.
- B. Provide on-site containers for collection of waste materials, debris, trash, and rubbish on a regular basis.
- C. Do not bury any waste materials, debris, trash, and rubbish on site.
- D. Remove waste materials, debris, trash, and rubbish from site and legally dispose of at legal dumping areas designated by law.
- E. Handle waste materials, debris, trash, and rubbish from site and legally dispose of at legal dumping areas designated by Law.
- F. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process and operations will not fall on or damage newly painted surfaces or other work that would be damaged.
- G. Do not encumber site with waste material accumulations. Keep walkways free of all waste.
- H. Do not burn without burn permit from proper authority with the location determined

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SECTION 01710 – CLEANING

by the Project Manager or Architect/Engineer.

3.02 Final Cleaning:

- A. Remove grease, dust, dirt, stains, labels, and other foreign materials from exposed interior and exterior surfaces. Repair, patch, and touch-up marred surfaces. Broom clean paved surfaces. Rake clean grounds.
- B. Dispose of trash, waste, debris and rubbish from site.
- C. Maintain building and grounds in clean condition until acceptance by Owner.

(END OF SECTION 01710)

SECTION 01710 – CLEANING

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SECTION 02070 - BUILDING DEMOLITION

1.0 GENERAL

1.01 **Summary:** It is the intent of this section to provide the demolition of materials and work to be removed as preparation to installation or alterations for new work or materials and, if necessary, removal of ill-timed installations of new materials to provide for inspections.

1.02 **Work Included:**

- A. Work included is a convenient listing of the significant items described within this section and shall not be construed as the only work applicable or related to this section.
- B. Work includes, but is not limited to, performing alterations, demolition, removal and related work which is shown on the Drawings, specified herein, or implied by the characteristics of the extent of the work and necessary for the installation of new work.
- C. Work of Other Sections - Disconnect, remove, repair, extend or relocate existing mechanical, electrical or piping work to include, but not limited to, equipment, conduit, fixtures, or piping.
- D. Reusing Existing Materials - Materials removed from existing work, if suitable and approved by the Architect, may be reused in new work.
 - 1) Existing materials for reuse in unexposed work shall be substantial enough to produce the strength, suitability, and other characteristics and properties as that of new materials.
 - 2) Existing materials for reuse in exposed work shall be capable of, and suitable for, being refinished to match new work as well as to produce the strength, suitability and other characteristics and properties as that of new work.
- E. Salvage of Existing Work:
 - 1) Existing work designated on the Drawings or specified herein to be reused with new work shall be carefully removed, protected, stored, and re-installed.
 - 2) Existing work designated to be salvaged for Owner's reuse elsewhere shall be carefully removed, protected, and stored as directed by the Owner.
- F. Existing Utilities:
 - 1) Do not disconnect or interrupt utilities without prior notice to the Owner 48 hours before commencing work.
 - 2) Provide protection of existing utilities during demolition and construction.
- G. Right of Refusal:
 - 1) Owner reserves the first right of refusal for all salvageable material or equipment. If exercised, contractor to neatly stack and store material in an area directed by the owner for their removal.

1.03 **Scheduling:**

- A. Consult with and obtain Owner's approval before commencing alterations or demolition work.
- B. Consult with and obtain Owner's approval before discontinuing or disrupting existing mechanical, power, or water service.

1.04 **Protection:**

- A. Make such explorations, inspections and probes necessary to determine protective measures required prior to demolition and removal.
- B. Provide and erect shoring and bracing necessary to prevent damage to existing construction.

SECTION 02070 - BUILDING DEMOLITION

- C. Provide and maintain weather protection necessary at exterior openings to fully protect interior spaces from damage until openings are closed by new construction.
- D. Provide and maintain temporary protection of existing structure designated to remain where demolition, removal and new work is being done.
- E. Prevent dirt and dust from rising by wetting demolished materials and similar debris.
- F. Contractor to be responsible for any damage or abuse to existing structure, contents, or site elements due to insufficiency of protection or carelessness of workmanship.

1.05 Workmanship:

- A. Perform demolition, removal, and alteration work required with due care and precaution.
- B. Demolish work in small sections and install temporary shoring and bracing where necessary to prevent collapse of any construction.
- C. Where alterations occur, or new and old work adjoin, cut remove, patch, repair and refinish adjacent surfaces, or as much required by involved conditions, and leave in as good a condition as existed prior to beginning work.
- D. Finish new and adjacent surfaces as specified.
- E. Repair existing equipment or fixtures to be reused and refinish to put in good working order.
- F. Materials and items to be salvaged by the Owner shall be removed with due care and disposed or stored as designated by the Owner.
- G. Materials and items to be reinstalled shall be removed with due care under supervision of trade responsible for reinstallation and protected and stored until required. Replace items or material damaged by removal with similar new material.
- H. Materials and items demolished and not designated to be salvaged by the Owner or reinstalled shall be removed from the site.
- I. Execute work in a careful and orderly manner.
- J. Remove debris and maintain work areas in neat and clean condition.
- K. If roof modification of any level is required, work is to be completed by manufacturer approved roofing contractor to preserve the existing roof system warranty. Confine cutting of existing roof areas designated to remain to limit required for proper installation of new work. Provide temporary weather tight protection as required until new roofing and flashings are installed.

(END OF SECTION 02070)

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SECTION 05500 – METAL FABRICATIONS

1.0 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.02 SUMMARY

- A. This section includes the following metal fabrications:
 - 1. Rough hardware.
 - 2. Loose bearing and leveling plates.
 - 3. Loose steel lintels.
 - 4. Shelf and relieving angles.
 - 5. Metal stairs.
 - 6. Steel pipe and tube handrails and railing systems.
 - 7. Aluminum pipe and tube handrails and railing systems.
 - 8. Miscellaneous framing and supports for the following:
 - a. Overhead doors.
 - b. Applications where framing and supports are not specified in other sections.
 - 9. Miscellaneous steel trim, including the following:
 - a. Steel angle corner guards.
 - b. Edgings.
 - 10. Extruded nosings and treads.
 - 11. Structural steel door frames.
 - 12. Pipe bollards.
- B. Related Sections: The following sections contain requirements that relate to this section:
 - 1. Division 5 Section 05120 - STRUCTURAL STEEL for structural steel framing system components.

1.03 DEFINITIONS

- A. Definitions in ASTM E985 for railing related terms apply to this section.

1.04 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Design, engineer, fabricate and install handrails, railings and stair assemblies to withstand the following structural loads without exceeding the allowable design working stress of the materials involved, including anchors and connections. Apply each load to produce the maximum stress in each respective component of each metal fabrication.
 - 1. Top Rail of Guardrail Systems: Capable of withstanding the following loads applied as indicated:
 - a. Concentrated load of 200 lbf applied at any point and in any direction.
 - b. Uniform load of 50 lbf per linear foot applied horizontally and concurrently with uniform load of 100 lbf per linear foot applied vertically downward.
 - c. Concentrated and uniform loads above need not be assumed to act concurrently.

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SECTION 05500 – METAL FABRICATIONS

- 2. Handrails Not Serving as Top Rails: Capable of withstanding the following loads applied as indicated:
 - a. Concentrated load of 200 lbf applied at any point and in any direction.
 - b. Uniform load of 50 lbf per linear foot applied in any direction.
 - c. Concentrated and uniform loads above need not be assumed to act concurrently.
- 3. Infill Area of Guardrail Systems: Capable of withstanding a horizontal concentrated load of 200 lbf applied to one square foot at any point in the system including panels, intermediate rails, balusters, or other elements composing the infill area.
 - a. Above load need not be assumed to act concurrently with loads on top rails of railing system in determining stress on guard.
- 4. Treads of Steel Stairs: Capable of withstanding a uniform load of 100 lbf per square foot or a concentrated load of 300 lbf on an area of 4 square inches located in the center of the tread, whichever produces the greater stress.
- 5. Platforms of Steel Stairs: Capable of withstanding a uniform load of 100 lbf per square foot.
- 6. Stair Framing: Capable of withstanding stresses resulting from loads specified above as well as stresses resulting from railing system loads.

1.05 SUBMITTALS

- A. Product data for products used in miscellaneous metal fabrications, including paint products and grout.
- B. Shop drawings detailing fabrication and erection of each metal fabrication indicated. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide templates for anchors and bolts specified for installation under other sections.
 - 1. Where installed metal fabrications are indicated to comply with certain design loadings, include structural computations, material properties and other information needed for structural analysis that has been signed and sealed by the qualified professional engineer, registered in the State of Florida, who was responsible for their preparation.
- C. Samples representative of materials and finished products as may be requested by Architect.
- D. Welder certificates signed by Contractor certifying that welders comply with requirements specified under the "Quality Assurance" Article.
- E. Product test reports from a qualified independent testing agency evidencing compliance of handrails and railing systems with requirements based on comprehensive testing of current products.

1.06 QUALITY ASSURANCE

- A. Fabricator Qualifications: Firm experienced in producing metal fabrications similar to those indicated for this project with a record of successful in-service performance, and with sufficient production capacity to produce required units without delaying the work.
- B. Installer Qualifications for Stair and Railing Assemblies: Arrange for installation of stair and railing assemblies by same firm that fabricated them.

SECTION 05500 – METAL FABRICATIONS

- C. Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding Code--Steel," AWS D1.2 "Structural Welding Code--Aluminum," and AWS D1.3 "Structural Welding Code--Sheet Steel."
 - 1. Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.
 - D. Engineer Qualifications: A professional engineer legally authorized to practice in jurisdiction where project is located and experienced in providing engineering services of the kind indicated that have resulted in the successful installation of metal fabrications similar in material, design and extent to that indicated for this project.
 - E. Single Source Responsibility for Handrail and Railing Systems: Obtain handrail and railing systems of each type and material from a single manufacturer.
- 1.07 PROJECT CONDITIONS
- A. Field Measurements: Check actual locations of walls and other construction to which metal fabrications must fit by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying the work.
- 1.08 SEQUENCING AND SCHEDULING
- A. Store handrails and railing systems inside a well-ventilated area, away from uncured concrete and masonry and protected from weather, moisture, soiling, abrasion, extreme temperatures, and humidity.
 - B. Sequence and coordinate installation of wall handrails as follows:
 - 1. Mount handrails only on completed walls. Do not support handrails temporarily by any means not satisfying structural performance requirements.
 - 2. Mount handrails on gypsum board assemblies only where reinforced to receive anchors and where the location of concealed reinforcements has been clearly marked for benefit of Installer.
- 2.0 PRODUCTS
- 2.01 FERROUS METALS
- A. Metal Surfaces, General: For metal fabrications exposed to view in the completed work, provide materials selected for their surface flatness, smoothness, and freedom from surface blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, roughness or, for steel sheet, variations in flatness exceeding those permitted by referenced standards for stretcher-leveled sheet.
 - B. Steel Plates, Shapes, and Bars: ASTM A36.
 - C. Steel Tubing: Product type (manufacturing method) and as follows:
 - 1. Cold-Formed Steel Tubing: ASTM A500.
 - 2. Hot-Formed Steel Tubing: ASTM A501.
 - a. For exterior installations and where indicated, provide tubing with hot-dip galvanized coating per ASTM A53.
 - D. Steel Pipe: ASTM A53, Type F, standard weight (schedule 40), unless otherwise indicated, or another weight, type and grade required by structural loads.
 - 1. Black finish, unless otherwise indicated.
 - 2. Galvanized finish for exterior installations and where indicated.

SECTION 05500 – METAL FABRICATIONS

- E. Gray-Iron Castings: ASTM A48, Class 30.
- F. Malleable-Iron Castings: ASTM A47, Grade 32510.
- G. Uncoated Structural Steel Sheet: Cold-rolled structural steel sheet complying with ASTM A611, Grade A, unless otherwise indicated or required by design loading.
- H. Uncoated Steel Sheet: Commercial quality, cold-rolled steel sheet complying with ASTM A366.
- I. Galvanized Steel Sheet: Commercial quality complying with ASTM A653, G90 coating designation, unless otherwise indicated.
- J. Cast-in-Place Anchors in Concrete: Anchors of type indicated below, fabricated from corrosion-resistant materials capable of sustaining, without failure, the load imposed within a safety factor of 4, as determined by testing per ASTM E488, conducted by a qualified independent testing agency.
 - 1. Threaded or wedge type; galvanized ferrous castings, either ASTM A47 malleable iron or ASTM A27 cast steel. Provide bolts, washers, and shims as required, hot-dip galvanized per ASTM A153.
- K. Welding Rods and Bare Electrodes: Select according to AWS specifications for the metal alloy to be welded.
- L. Brackets, Flanges and Anchors: Cast or formed metal of the same material and finish as supported rails, unless otherwise indicated.

2.02 ALUMINUM

- A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of the alloy and temper designated below for each aluminum form required:
 - 1. Extruded Bar and Tube: ASTM B 221, alloy 6063T5/T52.
 - 2. Extruded Structural Pipe and Tube: ASTM B 429, 6063-T5/T52.
 - 3. Drawn Seamless Tube: ASTM B 210, 6063-T832.
 - 4. Plate and Sheet: ASTM B 209, 6061-T6.
 - 5. Die and Hand Forgings: ASTM B 247, 6061-T6.
 - 6. Castings: ASTM B 26, A356-T6.
 - 7. Aluminum Extrusions: ASTM B 221, alloy 6063-T6.

2.03 MANUFACTURERS - ALUMINUM PIPE AND TUBE RAILINGS

- A. Subject to compliance with requirements, provide handrails and railing systems by one of the following:
 - 1. Sundance Architectural Products, Inc. (407) 297-1337.
 - 2. Architectural Art Mfg., Inc.
 - 3. Blum: Julius Blum & Co., Inc.
 - 4. Braun: J.G. Braun Co.
 - 5. Wagner: R&B Wagner, Inc.

2.04 PAINT

- A. Shop Primer for Ferrous Metal: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with performance requirements of FS TT-P-664, selected for good resistance to normal atmospheric corrosion, compatibility with finish paint systems indicated, and capability to provide a sound foundation for field-applied topcoats despite prolonged exposure.

SECTION 05500 – METAL FABRICATIONS

- B. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in galvanized steel, with dry film containing not less than 94 percent zinc dust by weight, and complying with DOD-P-21035 or SSPC-Paint 20.
- C. Bituminous Paint: Cold-applied asphalt mastic complying with SSPC-Paint 12, except containing no asbestos fibers.
- D. Zinc Chromate Primer: Comply with FS-TT-P-645.

2.05 FASTENERS

- A. General: Provide plated fasteners complying with ASTM B633, Class Fe/Zn 25 for electrodeposited zinc coating, for exterior use or where built into exterior walls. Select fasteners for the type, grade, and class required.
- B. Bolts and Nuts: Regular hexagon-head bolts, ASTM A307, Grade A, with hex nuts, ASTM A563 and, where indicated, flat washers.
- C. Machine Screws: ANSI B18.6.3.
- D. Lag Bolts: ANSI B18.2.1.
- E. Wood Screws: Flat head, carbon steel, ANSI B18.6.1.
- F. Plain Washers: Round, carbon steel, ANSI B18.22.1.
- G. Lock Washers: Helical, spring type, carbon steel, ANSI B18.21.1.
- H. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E488 conducted by a qualified independent testing agency.
 - 1. Material: Carbon steel components zinc-plated to comply with ASTM B633, Class Fe/Zn 5.
 - 2. Material: Group 1 alloy 304 or 316 stainless-steel bolts and nuts complying with ASTM F593 and ASTM F594.
- I. Toggle Bolts: FS FF-B-588, tumble-wing type, class and style as required.
- J. Fasteners for Anchoring Railings to Other Construction: Select fasteners of the type, grade, and class required to produce connections that are suitable for anchoring railings to other types of construction indicated and capable of withstanding design loadings.
 - 1. For steel railings and fittings, use plated fasteners complying with ASTM B633, Class Fe/Zn 25 for electrodeposited zinc coating.
 - 2. For aluminum railings, provide fasteners fabricated from type 304 or type 316 stainless steel.
- K. Fasteners for Interconnecting Railing Components: Use fasteners of same basic metal as the fastened metal, unless otherwise indicated. Do not use metals that are corrosive or incompatible with materials joined.
 - 1. Provide concealed fasteners for interconnecting railing components and their attachment to other work, except where otherwise indicated.

2.06 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Metallic Grout: Factory-packaged, ferrous-aggregate grout complying with ASTM C1107, specifically recommended by manufacturer for heavy-duty loading applications.
- B. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.

SECTION 05500 – METAL FABRICATIONS

- C. Erosion Resistant Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic controlled expansion cement formulation for mixing with water at project site to create pourable anchoring, patching and grouting compound. Provide formulation that is resistant to erosion from water exposure without need for protection by a sealer or waterproof coating and is recommended for exterior use by manufacturer.
- D. Products: Subject to compliance with requirements, provide one of the following:
 - 1. Nonshrink, Metallic Grouts:
 - a. "Metox RM;" Chem-Masters Corp.
 - b. "Hi Mod Grout;" Euclid Chemical Co.
 - c. "Embeco 885 and 636;" Master Builders Technologies, Inc.
 - d. "Ferrolith G Redi-Mix and G-NC;" Sonneborn Building Products--ChemRex, Inc.
 - 2. Nonshrink, Nonmetallic Grouts:
 - a. "Bonsal Construction Grout;" W.R. Bonsal Co.
 - b. "Euco N-S Grout;" Euclid Chemical Co.
 - c. "Five Star Grout;" Five Star Products.
 - d. "Masterflow 713;" Master Builders Technologies, Inc.
 - e. "SonogROUT;" Sonneborn Building Products--ChemRex, Inc.
 - 3. Erosion-Resistant Anchoring Cement:
 - a. "Bonsal Anchor Cement;" W.R. Bonsal Co.
 - b. "Super Por-Rok;" Minwax Construction Products Division.
 - c. "Thorogrip;" Thoro Systems Products.

2.07 CONCRETE FILL AND REINFORCING MATERIALS

- A. Concrete Materials and Properties: Comply with requirements of Division 3 Section 03300 - CONCRETE WORK for normal-weight, air-entrained, ready-mix concrete with a minimum 28-day compressive strength of 3000 psi, unless higher strengths are indicated.
- B. Nonslip Aggregate Finish: Factory-packaged abrasive aggregate made from fused, aluminum-oxide grits or crushed emery; rust-proof and nonglazing; unaffected by freezing, moisture, or cleaning materials.
- C. Reinforcing Bars: ASTM A615, Grade 60, unless otherwise indicated.

2.08 FABRICATION, GENERAL

- A. Form metal fabrications from materials of size, thickness, and shapes indicated but not less than that needed to comply with performance requirements indicated. Work to dimensions indicated or accepted on shop drawings, using proven details of fabrication and support. Use type of materials indicated or specified for various components of each metal fabrication.
- B. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges.
- C. Allow for thermal movement resulting from the following maximum change (range) in ambient temperature in the design, fabrication, and installation of installed metal assemblies to prevent buckling, opening up of joints, and overstressing of welds and fasteners. Base design calculations on actual surface temperatures of metals due to both solar heat gain and nighttime sky heat loss.
 - 1. Temperature Change (Range): 100 degrees F.

SECTION 05500 – METAL FABRICATIONS

- D. Shear and punch metals cleanly and accurately. Remove burrs from exposed cut edges.
 - E. Ease exposed edges to a radius of approximately 1/32 inch, unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
 - F. Remove sharp or rough areas on exposed surfaces.
 - G. Weld corners and seams continuously to comply with AWS recommendations and the following:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing, and contour of welded surface matches those adjacent.
 - H. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type indicated or, if not indicated, Phillips flat-head (countersunk) screws or bolts. Locate joints where least conspicuous.
 - I. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
 - J. Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
 - K. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
 - L. Fabricate joints that will be exposed to weather in a manner to exclude water, or provide weep holes where water may accumulate.
- 2.09 ROUGH HARDWARE
- A. Furnish bent, or otherwise custom-fabricated, bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Straight bolts and other stock rough hardware items are specified in Division 6 Sections.
 - B. Fabricate items to sizes, shapes, and dimensions required. Furnish malleable-iron washers for heads and nuts that bear on wood structural connections, and furnish steel washers elsewhere.
- 2.10 LOOSE BEARING AND LEVELING PLATES
- A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction, made flat, free from warps or twists, and of the required thickness and bearing area. Drill plates to receive anchor bolts and for grouting as required. Galvanize after fabrication.
- 2.11 LOOSE STEEL LINTELS

SECTION 05500 – METAL FABRICATIONS

- A. Fabricate loose structural steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated.
 - B. Weld adjoining members together to form a single unit where indicated.
 - C. Size loose lintels for equal bearing of 1 inch per foot of clear span but not less than 8 inches bearing at each side of openings, unless otherwise indicated.
 - D. Galvanize loose steel lintels located in exterior walls.
- 2.12 SHELF AND RELIEVING ANGLES
- A. Fabricate shelf and relieving angles from steel angles of sizes indicated and for attachment to concrete framing. Provide slotted holes to receive 3/4-inch bolts, spaced not more than 6 inches from ends and not more than 24 inches o.c., unless otherwise indicated.
 - B. For cavity walls, provide vertical channel brackets to support shelf/relieving angles from back-up masonry and concrete. Align expansion joints in angles with indicated control and expansion joints in cavity wall exterior wythe.
 - C. Galvanize shelf angles to be installed on exterior concrete framing.
 - D. Furnish wedge-type concrete inserts, complete with fasteners, to attach shelf angles to cast-in-place concrete.
- 2.13 STEEL FRAMED STAIRS
- A. General: Construct stairs to conform to sizes and arrangements indicated. Join pieces together by welding, unless otherwise indicated. Provide complete stair assemblies, including metal framing, hangers, columns, handrails, railing systems, newels, balusters, struts, clips, brackets, bearing plates, or other components necessary for the support of stairs and platforms, and as required to anchor and contain the stairs on the supporting structure.
 - 1. NAAMM Stair Standard: Comply with "Recommended Voluntary Minimum Standards for Fixed Metal Stairs" in NAAMM "Metal Stair Manual" for commercial class stair, except where more stringent requirements are indicated.
 - B. Stair Framing: Fabricate stringers of structural steel channels, plates, or a combination thereof, as indicated. Provide closures for exposed ends of stringers. Construct platforms of structural steel channel headers and miscellaneous framing members as indicated. Bolt or weld headers to stringers; and bolt or weld newels and framing members to stringers and headers. If using bolts, fabricate and join so bolts are not exposed on finish surfaces.
 - 1. Where masonry walls support steel stairs, provide temporary supporting struts designed for erecting steel stair components before installing masonry.
 - C. Metal Pan Risers, Subtreads, and Subplatforms: Shape metal pans for risers and subtreads to conform to configuration shown. Provide thicknesses of structural steel sheet for metal pans indicated, but not less than that required, to support total design loading.
 - 1. Form metal pans of uncoated cold-rolled steel sheet, unless otherwise indicated.
 - 2. Directly weld risers and subtreads to stringers; locate welds on side of metal pans to be concealed by concrete fill.
 - 3. Shape metal pans to include nosing integral with riser.

SECTION 05500 – METAL FABRICATIONS

4. At Contractor's option, provide prefabricated stair assemblies with prefilled treads consisting of prepoured reinforced concrete fill, with nonslip aggregate finish, in welded sheet metal pan, attached to installed stringers using manufacturer's standard connection detail.
5. Provide subplatforms of configuration and construction indicated; if not indicated, of same metal as risers and subtreads, in thicknesses required to support design loading. Attach subplatform to platform framing members with welds.
 - a. Smooth Soffit Construction: Construct subplatforms with smooth soffits.

2.14 PIPE HANDRAILS AND RAILING SYSTEMS

- A. General: Fabricate pipe handrails and railing systems to comply with requirements indicated for design, dimensions, details, finish, and member sizes, including wall thickness of pipe, post spacings, and anchorage, but not less than that required to support structural loads.
- B. Form changes in direction of handrails and rails as follows:
 1. By welding in prefabricated flush elbow fittings.
 2. By radius bends of radius indicated.
 3. By flush radius bends.
 4. By bending.
 5. By any method indicated above, applicable to change of direction involved.
- C. Form simple and compound curves by bending pipe in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of pipe throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of pipe.
- D. Welded Connections: Fabricate handrails and railing systems for connection of members by welding. For connections made during fabrication, weld corners and seams continuously to comply with the following:
 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 2. Obtain fusion without undercut or overlap.
 3. Remove welding flux immediately.
 4. At tee and cross intersections, cope ends of intersecting members to fit contour of pipe or tube to which end is joined, and weld all around.
 5. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing and welded surface matches contours of adjoining surfaces.
- E. Nonwelded Connections: Fabricate handrails and railing systems by connecting members with railing manufacturer's standard concealed mechanical fasteners and fittings, unless otherwise indicated. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
 1. Fabricate splice joints for field connection using epoxy structural adhesive where this represents manufacturer's standard splicing method.
- F. Provide wall returns at ends of wall-mounted handrails, unless otherwise indicated.
- G. Close exposed ends of pipe by welding 3/16-inch thick steel plate in place or with prefabricated fittings, except where clearance of end of pipe and adjoining wall surface is 1/4 inch or less.

SECTION 05500 – METAL FABRICATIONS

- H. Fabricate newels of steel tubing and provide newel caps of gray-iron castings, as shown.
 - I. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, end closures, flanges, miscellaneous fittings, and anchors for interconnections of pipe and attachment of handrails and railing systems to other work. Furnish inserts and other anchorage devices for connecting handrails and railing systems to concrete or masonry work. Coordinate anchorage devices with supporting structures.
 - 1. Connect railing posts to stair framing by direct welding, unless otherwise indicated.
 - 2. For railing posts set in concrete, provide preset sleeves of steel, not less than 6 inches long with inside dimensions not less than 1/2 inch greater than outside dimensions of post, and steel plate bottom closure welded to bottom of sleeve.
 - a. Provide friction fit, removable covers designed to keep sleeves clean and hold top edge of sleeve 1/2 inch below finished surface of concrete.
 - J. Fillers: Provide steel sheet or plate fillers of thickness and size indicated or required to support structural loads of handrails where needed to transfer wall bracket loads through wall finishes to structural supports. Size fillers to suit wall finish thicknesses. Size fillers to produce adequate bearing to prevent bracket rotation and overstressing of substrate.
 - K. Toe Boards: Where indicated, provide toe boards at railings around openings and at the edge of open-sided floors and platforms. Fabricate to dimensions and details indicated.
 - L. For galvanized handrails and railing systems, provide galvanized fittings, brackets, fasteners, sleeves, and other ferrous components.
 - M. For nongalvanized steel handrails and railing systems, provide nongalvanized ferrous metal fittings, brackets, fasteners, and sleeves, except galvanize anchors embedded in exterior masonry and concrete construction.
- 2.15 MISCELLANEOUS FRAMING AND SUPPORTS
- A. General: Provide steel framing and supports for applications indicated that are not a part of structural steel framework as required to complete the work.
 - B. Fabricate units to sizes, shapes, and profiles indicated and required to receive other adjacent construction retained by framing and supports. Fabricate from structural steel shapes, plates, and steel bars of welded construction using mitered joints for field connection. Cut, drill, and tap units to receive hardware, hangers, and similar items.
 - 1. Equip units with integrally welded anchors for casting into concrete or building into masonry. Furnish inserts if units must be installed after concrete is placed.
 - a. Except as otherwise indicated, space anchors 24 inches o.c. and provide minimum anchor units in the form of steel straps 1-1/4 inches wide by 1/4 inch thick by 8 inches long.
 - C. Galvanize miscellaneous framing and supports at exterior locations and at interior locations where indicated.
- 2.16 MISCELLANEOUS STEEL TRIM

SECTION 05500 – METAL FABRICATIONS

- A. Unless otherwise indicated, fabricate units from structural steel shapes, plates, and bars of profiles shown with continuously welded joints, and smooth exposed edges. Miter corners and use concealed field splices wherever possible.
 - B. Provide cutouts, fittings, and anchorages as required to coordinate assembly and installation with other work. Provide anchors, welded to trim, for embedding in concrete or masonry construction, spaced not more than 6 inches from each end, 6 inches from corners, and 24 inches o.c., unless otherwise indicated.
 - C. Galvanize miscellaneous steel trim at exterior locations and at interior locations where indicated.
- 2.17 EXTRUDED NOSINGS AND TREADS
- A. Fabricate units of material, sizes, and configurations indicated. Provide extruded aluminum units with abrasive filler consisting of aluminum-oxide or silicon-carbide grits, or a combination of both, in an epoxy-resin binder. Furnish in lengths as required to accurately fit each opening or conditions.
 - 1. Provide ribbed units, with abrasive filler strips projecting 1/16 inch above the aluminum extrusion.
 - B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. American Safety Tread Co., Inc.
 - 2. Amstep Products.
 - 3. Armstrong Products, Inc.
 - 4. Balco/Metalines, Inc.
 - 5. Safe-T-Metal Co.
 - 6. Wooster Products Inc.
 - C. Provide anchors for embedding units in concrete, either integral or applied to units, as standard with the manufacturer.
- 2.18 PIPE BOLLARDS
- A. Fabricate pipe bollards from Schedule 80 steel pipe. Cap bollards with 1/4-inch minimum steel plate.
 - B. Fabricate sleeves for bollard anchorage from steel pipe with 1/4-inch-thick steel plate welded to bottom of sleeve.
- 2.19 FINISHES, GENERAL
- A. Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applying and designing finishes.
 - B. Finish metal fabrications after assembly.
 - C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering prior to shipment.
 - D. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one half of the range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved samples and they are assembled or installed to minimize contrast.
 - E. Provide exposed fasteners with finish matching appearance, including color and texture, of handrails and railing systems.
- 2.20 STEEL AND IRON FINISHES

SECTION 05500 – METAL FABRICATIONS

- A. Galvanizing: For those items indicated for galvanizing, apply zinc coating by the hot-dip process complying with the following requirements:
 - 1. ASTM A 153 for galvanizing iron and steel hardware.
 - 2. ASTM A 123 for galvanizing both fabricated and unfabricated iron and steel products made of uncoated rolled, pressed, and forged shapes, plates, bars, and strip 0.0299 inch thick or thicker.
 - 3. Fill vent and drain holes that will be exposed in the finished work, unless indicated to remain as weep holes, by plugging with zinc solder and filing off smooth.
- B. Preparation for Shop Priming: Prepare uncoated ferrous metal surfaces to comply with minimum requirements indicated below for SSPC surface preparation specifications and environmental exposure conditions of installed metal fabrications:
 - 1. Exteriors (SSPC Zone 1B): SSPC-SP 6 "Commercial Blast Cleaning."
 - 2. Interiors (SSPC Zone 1A): SSPC-SP 3 "Power Tool Cleaning."
- C. Apply shop primer to uncoated surfaces of metal fabrications, except those with galvanized finishes or to be embedded in concrete, sprayed-on fireproofing, or masonry, unless otherwise indicated. Comply with requirements of SSPC-PA 1 "Paint Application Specification No. 1" for shop painting.

2.21 ALUMINUM FINISHES

- A. Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.
- B. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.4 mil or thicker) complying with AAMA 611.

3.0 EXECUTION

3.01 PREPARATION

- A. Coordinate and furnish anchorages, setting drawings, diagrams, templates, instructions, and directions for installing anchorages, including concrete inserts, sleeves, anchor bolts, and miscellaneous items having integral anchors that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to project site.
- B. Set sleeves in concrete with tops flush with finish surface elevations. Protect sleeves from water and concrete entry.
- C. Center nosings on tread widths with noses flush with riser faces and tread surfaces.

3.02 INSTALLATION, GENERAL

- A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications and for properly transferring loads to in-place construction. Include threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws, and other connectors as required.
- B. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

SECTION 05500 – METAL FABRICATIONS

- 1. Do not weld, cut, or abrade surfaces of handrails and railing components that have been coated or finished after fabrication and are intended for field connection by mechanical or other means without further cutting or fitting.
 - 2. Set posts plumb within a tolerance of 1/4 inch in 12 feet.
 - 3. Align rails so that variations from level for horizontal members and from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.
 - C. Provide temporary bracing or anchors in formwork for items that are to be built into concrete masonry or similar construction.
 - D. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop-welded because of shipping size limitations. Do not weld, cut, or abrade the surfaces of exterior units that have been hot-dip galvanized after fabrication and are intended for bolted or screwed field connections.
 - E. Field Welding: Comply with the following requirements:
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove welding flux immediately.
 - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing, and contour of welded surface matches those adjacent.
 - F. Corrosion Protection: Coat concealed surfaces of aluminum that will come into contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.
- 3.03 INSTALLING STEEL STAIRS WITH GROUTED BASE PLATES
- A. Clean concrete and masonry bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces. Clean bottom surface of base plates.
 - B. Set steel stair base plates on wedges or other adjustable devices. After the stairs have been positioned and aligned, tighten the anchor bolts. Do not remove wedges or shims, but if protruding, cut off flush with the edge of the bearing plate before packing with grout.
 - 1. Use nonmetallic, nonshrink grout, unless otherwise indicated.
 - 2. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.
- 3.04 INSTALLING PIPE RAILINGS AND HANDRAILS
- A. Adjust handrails and railing systems prior to anchoring to ensure matching alignment at abutting joints. Space posts at spacing indicated or, if not indicated, as required by design loadings. Refer to drawing profiles for all stair and railing configuration that deviates from the following parameters. Plumb posts in each direction prior to installation of filler inserts. Secure posts and railing ends to building construction as follows:
 - 1. Anchor posts in concrete with pipe sleeves preset and anchored into concrete. After posts have been inserted into sleeves, solidly fill annular space between post and sleeve with the following anchoring material, mixed and placed to comply with anchoring material manufacturer's directions.
 - a. Nonshrink, nonmetallic grout or anchoring cement.

SECTION 05500 – METAL FABRICATIONS

- B. Seal thresholds exposed to exterior with elastomeric sealant complying with Division 7, Section 07920 - SEALANTS AND CAULKING to provide a weathertight installation.

- 3.07 INSTALLING PIPE BOLLARDS
 - A. Anchor bollards in concrete with pipe sleeves preset and anchored into concrete. After bollards have been inserted into sleeves, fill annular space between bollard and sleeve solidly with nonshrink, nonmetallic grout, mixed and placed to comply with grout manufacturer's directions.
 - B. Fill bollards solidly with concrete, mounding top surface.

- 3.08 ADJUSTING AND CLEANING
 - A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 requirements for touching up shop-painted surfaces.
 - 1. Apply by brush or spray to provide a 2.0-mil minimum dry film thickness.
 - B. For galvanized surfaces, clean welds, bolted connections, and abraded areas, and apply galvanizing repair paint to comply with ASTM A780.
 - C. Clean stainless steel by washing thoroughly with clean water and soap, followed by rinsing with clean water.

- 3.09 PROTECTION
 - A. Protect finishes of handrails and railing systems 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 that 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 05500)

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SECTION 06100 - ROUGH CARPENTRY

1.0 GENERAL

1.01 Summary: It is the intent of this section to provide for all rough carpentry, nailers, blocking and other such work necessary for the installation and support of wood blocking and accessories for a complete, secure installation of all wood blocking.

1.02 Related Work Specified Elsewhere:

A. Section 06200 – Finish Carpentry

1.03 Quality Assurance:

A. Framing Lumber:

1. Softwood Lumber: American Softwood Lumber Standards PS-20.
2. Identification - Grade mark of recognized grading association.
3. Moisture Content: Maximum 19%.

B. Plywood:

1. Softwood - Construction and Industrial Plywood, PS 1-74.
2. Identification - Grade markings showing species group number, type, and grading association.
3. Plywood only in areas where metal panels separate the plywood from the interior of the space such as above the metal roof deck.

C. Pressure Treatment - Bear an Underwriters' Laboratories Label "FR-5."

1.04 Product Handling:

A. Framing Lumber - Deliver lumber that is in accordance with Standards. Store stacked off ground. Protect from wetting.

B. Plywood - Deliver plywood that is in accordance with Standards. Store in a dry area and protect from wetting. Protect plywood from damage due to dropping, warping and splitting. Damaged plywood shall be rejected.

2.0 PRODUCTS

2.01 Materials:

A. Framing:

1. Dimensions - Specified dimensions are nominal.
2. Surfacing - S4S.
3. Light Framing - Any Approved commercial softwood species.
 - a. General - Stud Grade.
 - b. Top Plates, Blocking, Bracing, and Nailers - Utility Grade.
 - c. Sole Plates - Stud grade, pressure-treated.

B. Pressure Treatment - Wolman Salts, F.S. TT-W-573.

C. Rough Hardware:

1. Bolts - F.S. FF-B-584.
2. Lag Screws and Bolts - F.S. FF-B-561.
3. Expansion Shields - F.S. FF-B-561.
4. Angles - ASTM A-36.
5. Nails - F.S. FF-N-105.
6. Strap Anchors - 18 ga., zinc-coated metal.
7. Power Actuated Anchors - Approved - Winchester "Ramset."
8. Anchor Bolts - ASTM A-307.
9. Ply Clips - Aluminum.

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SECTION 06100 - ROUGH CARPENTRY

3.0 EXECUTION

3.01 Preparation: Layout work carefully in accordance with Drawings and true to dimensions. Erect framing in proper positions. Coordinate work with other trades.

3.02 Installation and Erection:

A. Framing: Cut accurately and fit for tight joints. Erect framing correct to dimensions. Square, plumb and align for true surfaces.

1. Blocking - Install in continuous horizontal row at mid-height, or as shown on Drawings, of load bearing partitions. Locate blocking to facilitate installation of finishing materials, fixtures, specialty items, and trim. Use metal stud shoes at studs notched or bored for passage of plumbing water and waste lines.

2. Miscellaneous Framing - Mechanical Work - Frame members for passage of pipes and ducts to avoid cutting structural members. Do not notch, cut, or bore framing members.

B. Pressure-Treated Members - Apply at contact with concrete or masonry.

3.03 Clean Up: Remove wood scraps and cuttings, nails and other debris from building area and dispose of from site.

(END OF SECTION 06100)

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SECTION 06200 – FINISH CARPENTRY

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: This Section of the Specifications is intended to cover the furnishing of all labor, materials and/or incidentals necessary to the completion of all requirements of the Drawings, notes, schedules, and these Specifications concerning finish carpentry and other finish materials of similar nature usually part of the carpentry trade.
- 1.03 Any variation from the work, as detailed, must be submitted as Shop Drawings and written approval secured before starting work. Failure to do this will be considered sufficient cause for rejection. In all cases, shapes and dimensions shall be followed where shown.
- 1.04 Field measurements of all features which may be affected by construction of the building shall be checked by the Contractor and shall govern his fabrication. He shall report any serious discrepancies before proceeding with the work.

2.0 PERFORMANCE EXPECTED

- 2.01 All carpentry and millwork shall be done in accordance with the requirements of the Drawings and in such a manner as to ensure the following.
- 2.02 All wood materials shall be sufficiently seasoned to prevent unsightly shrinkage, warpage, or twisting after being installed.
- 2.03 All wood finishing shall be free of machine or tool marks when finally placed, and shall be as free of natural defects, such as knots, checks, wane, etc., as might be normally expected of the grade specified when judged by generally accepted standards of wood grading.
- 2.04 Milling and finish joinery shall be such as to present smooth finish surfaces and close tight-fitting joints.
- 2.05 Hardware shall be so installed as to provide for the smooth workable operation of all moveable parts.
- 2.06 All carpentry and millwork shall be plumb and square, with all lines horizontal and true rigidly secured in place.

3.0 MATERIALS

- 3.01 All finish woods shall be selected from well-seasoned and kiln dried stock, with a moisture content of not more than 15 percent. Wood shall be worked to conform to details.

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SECTION 06200 – FINISH CARPENTRY

3.02 Where no mention of grades is made, finishes shall be clear, the best of their respective kinds. This material will be finished natural so that care must be taken in selecting each individual piece.

3.03 Interior standing trim, unless otherwise called for, shall be clear, "B" or better Fir or Larch. Trim at special areas shall be of the same species of wood as the base material being trimmed out.

4.0 INSTALLATION OF WOOD DOORS

4.01 Wood doors are specified under *Section 08200 - Wood Composition and Wood Doors* of this Project Manual, but shall be installed under work of this Section.

4.02 Doors in general shall be hung with equal margins and shall, when closed, bear equally on all stops. Entire assemble shall swing freely and latch easily.

5.0 APPLICATION OF FINISH HARDWARE

5.01 Finish hardware is specified under *Section 08700 - Finish Hardware* of this Project Manual, but shall be installed by skilled mechanics under work of this Section. All new hardware is to match buildings (as close as possible) existing office and privacy door hardware assembly and keying.

5.02 Application of finish hardware shall be made in accordance with the Manufacturer's directions and templates, and executed in a neat and first-class workmanlike manner.

6.0 WORKMANSHIP

6.01 Where possible, all finish carpentry shall be mill-made, and shall be performed by skilled workmen.

6.02 Trim shall be protected from moisture, and shall be stored and handled in such a manner as to be protected from scratching or marking.

6.03 Trim shall be sanded before delivery and shall be hand sanded and smoothed on the job.

6.04 Door frames and similar trim shall be delivered to the job knocked down.

6.05 All trim shall be according to detail, or in the absence of details, according to the best-recognized millwork practice.

6.06 Running trim shall not be spliced unless the length of the member is over 12'. The shortest part of any spliced trim shall not be less than 3'.

6.07 All square-edged trim shall have tight butt joints, and molded trim shall have mitered joints.

6.08 All joints exposed to weather and all wood trim set against masonry shall be painted with a priming coat on all surfaces.

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SECTION 06200 – FINISH CARPENTRY

- 6.09 All joints shall be glued and screwed, or nailed as conditions permit.
- 6.10 Furnish and install all nails, screws, etc., as may be required to fastening all woodwork to other material. All nails shall be set.

(END OF SECTION 06200)

SECTION 06200 - FINISH CARPENTRY

06200.3

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SECTION 06415 – CUSTOM MILLWORK

1.0 GENERAL

1.01 Summary:

- A. **Products Furnished and Installed Under This Section:**
 - 1. Casework and millwork.
- B. **Related Sections:**
 - 1. General Conditions, and Division 01.

1.02 Submittals and Samples:

- A. **Shop Drawings:**
 - 1. Submit shop drawings showing location of each item, dimensioned plans, and elevations, large-scale details, attachment devices and other components.
- B. **Samples:**
 - 1. **Plastic Laminate:**
 - a. Submit two (2) full chains of plastic laminate color samples consisting of the full line or full range of colors, textures, and patterns for plastic laminate material indicated. Wilsonart or approved equal.
 - 2. **Hardware:**
 - a. Submit two (2) samples of hardware.
 - 3. **Culture Stone Synthetic Surfaces & Stone Countertop Cladding:**
 - a. Submit one color chart of products.
- C. **Mock-Up:**
 - 1. Submit working sample of typical base cabinet with drawer over door with an adjustable shelf.
 - a. Include plastic laminate (refer to Architect for color requirements) and all hardware.
 - b. Provide cutaways where required to verify construction and materials used.
 - 2. Mock-up shall remain with the Architect for the entire duration of the Project and could be used for destructive evaluation.

1.03 **Product Certificates:** Submit certificates signed by woodwork manufacturer certifying that products comply with specified requirements.

1.04 **Qualification Data:** Submit data for firms and persons specified in "Quality Assurance" article to demonstrate their capabilities and experience. Include list of completed projects with project names, addresses, names of Architects and Owners, and other information specified.

1.05 Quality Assurance:

- A. **Manufacturer's Qualifications:** Firm experienced in successfully producing finish carpentry similar to that indicated for this project with sufficient production capacity to produce required units without causing delay in the work.
- B. **Installer Qualifications:** Arrange for installation of finish carpentry by a firm that can demonstrate successful experience in installed architectural woodwork items similar in type and quality to those required for this project.
- C. **AWI Quality Standard:** Comply with applicable requirements of "Architectural Woodwork Quality Standards" published by the Architectural Woodwork Institute (AWI) Premium Grade.

SECTION 06415 – CUSTOM MILLWORK

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SECTION 06415 – CUSTOM MILLWORK

- 1.06 **Product Delivery, Storage and Handling:** Protect finish carpentry materials during transit, delivery, storage and handling to prevent damage, soiling and deterioration.
 - A. Do not delivery finish materials, until painting, wet work, grinding and similar operations which could damage, soil or deteriorate materials have been completed in installation areas. If, due to unforeseen circumstances, finish carpentry materials must be stored in other than installation areas, store only in areas meeting requirements specified for installation areas.

- 1.07 **Project Condition:**
 - A. **Conditioning:** Installer shall advise Contractor of temperature and humidity requirements for finish carpentry installation area. Do not install finish carpentry until required temperature and relative humidity conditions have been stabilized and will be maintained in installation areas.
 - 1. Maintain temperature and humidity in installation area as required to maintain moisture content of installed finish carpentry within a 1.08 percent tolerance of optimum moisture content, from date of installation through remainder of construction period. The fabricator of finish carpentry shall determine optimum moisture content and required temperature and humidity conditions.

- 1.08 **Field Measurements:** Where finish carpentry is indicated to be fitted to other construction, check actual dimensions of other construction by accurate field measurements before manufacturing; show recorded measurements on final shop drawings. Coordinate manufacturing schedule with construction progress to avoid delay of work.

2.0 PRODUCTS

- 2.01 **Millwork:**
 At cabinets and shelves: DFPA Grade AA where exposed both sides; Grade AC.
 At sink and lavatory tops: EXT-DFPA, Grade AC.
 - A. Bookcase Sides and Shelves: 3/4" Plywood, 5-ply,
 - B. Cabinet Backs: 1/4" Plywood, 3-ply.
 - C. Doors: 3/4" High Density (Min 45 lbs.) Particle Board
 - D. Tops: 2 layers of 3/4" Plywood w/plastic laminate veneer where called for.
 - E. Drawer Fronts: 3/4" High Density (Min 45 lbs.) Particle Board
 - F. Drawer Sides & Backs: 1/2" Birch Plywood, 3-ply
 - G. Drawer Bottoms: 1/2" Birch Plywood, 3-ply
 - H. Dust Panels: 1/4" Plywood or tempered hardboard.
 (Provide dust panels above compartments and drawers except where located directly under countertops.)

- 2.02 **Plastic Laminate:**
 - A. **Acceptable Manufacturers:** Subject to compliance with requirements, provide high

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SECTION 06415 – CUSTOM MILLWORK

pressure decorative laminates of one of the following or pre-approved equals:

1. Formica Corp.
 2. Nevamar Corp.
 3. WilsonArt.
 4. Or approved equal.
- B. Thicknesses:
1. Horizontal Surfaces: GP-50.
 2. Vertical Surfaces: GP-28.
 3. Balancing Sheets: GP-20.
 - a. Use standard balancing sheet for backs of doors and drawer fronts, underside of all countertops and semi-exposed surfaces.
- C. Colors: To be selected by the Architect/Owner from manufacturer's full range of colors.

2.03 Cabinet Hardware:

- A. Doors shall have:
1. Hinges:
 - 1 pair hinges for doors 3'-0" or less in height.
 - 1-1/2 pair hinges for doors over 3'-0" and less than 5'-0" in height.
 - 2 pair hinges for doors over 5'-0" in height.
 - a. Hinges shall be equal to 5 knuckle hospital type.
 2. Pull (one):
 - a. Semi-recessed plastic or wire pull type shall be located as directed by the Architect. Pulls shall be attached from the back of the drawer front with two (2) screws.
 - b. Color to be selected from full color range of manufacturer's color options as selected by the Architect/Owner.
 3. Magnetic catch (one):
 - a. Hafele 246.27.709 or pre-approved equal.
 4. Lock (one where required):
 - a. Hafele 232.10.602 or pre-approved equal.
- B. Each Drawer shall have:
1. Pull (one):
 - a. Semi-recessed plastic pull shall be located at the centerline of the drawer, regardless of width, to insure ease of operation and maximize drawer slide life. Pulls shall be attached from the back of the drawer front with two (2) screws.
 - b. Color to be white, putty, or grey as selected by the Architect.
 2. Slides (one set):
 - a. Drawer slides shall be bottom and side mounted epoxy coated with captive roller and 100 pound dynamic load testing rating.
 3. Lock (one where required):
 - a. Hafele 232.10.602 or pre-approved equal.
- C. Adjustable shelving in cabinets shall have:
1. Adjustable shelves shall rest on metal shelf support pins equal to KV 346, inserted into holes row-bored at approximately 32 millimeters on center.

3.0 EXECUTION

SECTION 06415 – CUSTOM MILLWORK

06415-3

SECTION 06415 – CUSTOM MILLWORK**3.01 General:**

- A. Have skilled, experienced (five years' experience on comparable work) carpenters place the carpentry materials, in accord with the best accepted trade practices and in a manner to assure the use of the specified materials to the best advantage from the standpoint of soundness and appearance. Material and workmanship for millwork shall meet "Premium Grade" requirements of AWI Quality standards.

3.02 Joinery: All joints shall be securely glued, pinned, and/or screwed together.**3.03 Correlation:** Correlate the location of furring, nailers, blocking, grounds and similar supports so that attached work will comply with the design requirements.**3.04 Handling:** Handle trim and millwork in a manner, during and after fabrication, to insure against the opening of joints, defacing or marring of the finish surface and/or the entrance of moisture. Bring no trim or millwork into the building until the building is thoroughly dry.**3.05 Workmanship:** Horizontal members shall be level; vertical members shall be plumb. No joints are allowed in standing trim unless so detailed. The shortest part of any spliced trim shall be not less than four (4) feet. Where splicing is unavoidable, make at a 45-degree angle. For exterior corners, use tight butt joints for square-edged trim; and mitered joints for molded trim. Where woodwork abuts other finished work, scribe and cut for accurate fit.**3.06 Joinery and Finish:** Use only hot-dipped galvanized or aluminum finish or casing nails. Set all nails in finish work. Hammer marks are not acceptable on any exposed surfaces. Joints shall be tight, clean, smooth and sound.**3.07 Millwork:**

- A. To the fullest extent possible, fabricate millwork in a shop according to detail; or, in the absence of details, according to the best recognized millwork practices and in accord with "Premium Grade" standards of AWI.

1. The millwork subcontractor shall make cutouts in counter tops as needed for sinks. Sinks shall be installed by the plumbing subcontractor.
2. Pressure-treated blocking and framing under fixed cabinets are to be part of millwork. Other blocking and furring fastened to walls or to the structure are not intended to be part of millwork and are specified under the section covering ROUGH CARPENTRY. Shim millwork with concealed shims as required.
3. All millwork shall be mill fabricated complete, including finishing and hardware. Units shall be shop assembled to a finished edge. Only work too large to handle in one piece shall be delivered to the job in more than one piece.
4. Provide filler panels and scribe trim in accordance with field measurements taken at the job site.
5. Countertops shall be filed measured before fabrication.
6. Structural cabinet parts shall be joined together with full dovetail joints and glue. There shall be no exposed screws or nails.

7. All millwork shall be sound and so constructed and fastened as to resist all design conditions of loading imposed upon it and without noticeable change

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SECTION 06415 – CUSTOM MILLWORK

in form resulting from unreasonable deflection, shrinkage, warping, twisting or loosening of connecting joints.

- 3.08 Installation of Cabinetwork: Install cabinet work in a manner consistent with the specified Quality Grade. Cabinet work shall be plumb, level, true and straight, with no distortion. Shim as required, using concealed shims. Secure to grounds, stripping and blocking with counter sunk concealed fasteners and blind nailing, for a complete installation. Scribe and cut for accurate fit to other finished work.
- 3.09 Plastic Laminate Tops: Plastic tops shall not have any joints but shall be full run of millwork.
- 3.10 Synthetic Cladded Countertops: Equal to Corian.
- 3.11 Application of Specialties: Install specialty items specified in Division 10, unless specific mention is made therein for installation by another trade. Install in accord with the manufacturer's recommendations and in a neat manner that will hold the item securely in place.

(END OF SECTION 06415)

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SECTION 07920 – SEALANTS AND CAULKING

1.0 GENERAL

1.01 Section Includes:

- A. Application of sealants at control and expansion joints on exterior vertical and horizontal intersections to provide a water and air tight barrier, as stated below and as noted on drawings.
- B. Associated materials and preparatory work to insure a successful sealant application.

1.02 References:

- A. ASTM C 920 - Specification for Elastomeric Joint Sealants.
- B. ASTM D 2240 - Test Method for Rubber Property-Durometer Hardness.
- C. ASTM C 1248 and C 510 - Staining

1.03 Submittals:

- A. Product literature: submit five (5) copies of product data sheets and manufacturer's installation instructions. Note specifically which (if any) sealants are to be in physical contact (such as at parapet and reglet intersections), confirming compatibility of submitted products.
- B. Samples: A 2" cured sample of each chosen color and type of sealant.

1.04 Quality Assurance:

- A. Compatibility with Substrate and Coatings: Applicator shall be responsible for verifying with sealant manufacturer that sealants used are compatible with joint substrates and coatings to which sealants will come in contact.
- B. Joint Design Criteria: Applicator shall be responsible for verifying with sealant manufacturer that installed joint dimensions are adequate for movement capabilities for extreme and significant moving joint sealants.
- C. Applicator shall be responsible for providing a completely sealed building and ensure that all exterior joints between surfaces are properly sealed even if not detailed in Contract Documents.

1.05 Qualifications:

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum 10 years' experience.
- B. Applicator and job foreman shall have minimum five years' experience on equivalent projects.
- C. Use personnel specifically trained in proper application procedures who are thoroughly familiar with joint details shown on drawings and installation requirements as specified in this section.

1.06 Delivery, Storage, and Handling:

- A. Deliver in manufacturer's original, unopened containers identifying each product specified, relating to product literature submitted.

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SECTION 07920 – SEALANTS AND CAULKING

- B. Store in accordance with manufacturer's recommendation; take precautions to ensure material fitness when installed for design performance.

1.07 Warranty:

- A. Warrant sealed joints against adhesive or cohesive failure of sealant and water tightness of sealed joint for a period of five years for labor and material.
- B. Provide material warranty of live (5) years for polyurethanes and minimum fifteen (15) years for silicones.

2.0 PRODUCTS

2.01 Sealants: (See schedule for use of each sealant type)

- A. Type 1: ASTM C 920; low modulus, Type S, Grade NS, neutral cure silicone.
 - 1. Elongation Capability: Plus 100 percent to minus 50 percent; elongation, 1600%
 - 2. Service Temperature Range: Minus 20 to 160 degrees F.
 - 3. Shore A Hardness Range: 15 - 20; ASTM C 661.
 - 4. Staining: None; ASTM C 1248.
 - 5. Manufacturers: Dow Corning Corp. 790
- B. Type 2: ASTM C 920; intermediate modulus, Type S, Grade NS, neutral cure silicone.
 - 1. Elongation Capability: Plus or minus 50 percent.
 - 2. Service Temperature Range: Minus 40 to 300 degrees F.
 - 3. Shore A Hardness Range: 35; ASTM D 2240.
 - 4. Staining: None; ASTM C 1248.
 - 5. Manufacturers: Dow Corning Corp. 795, 995.
- C. Type 3: ASTM C 920; high modulus, Type S, Grade NS, acetoxycure silicone.
 - 1. Elongation Capability: Plus or minus 25 percent.
 - 2. Service Temperature Range: Minus 35 to 140 degrees F.
 - 3. Shore A Hardness Range: 25; ASTM D 2240.
 - 4. Manufacturers: Dow Corning Corp. 999A; Pecora 863; GE 1200.
- D. Type 4: ASTM C 920; medium modulus, Type S, Grade NS, neutral cure silicone.
 - 1. Elongation Capability: Plus or minus 50 percent
 - 2. Service Temperature Range: Minus 50 to 150 degrees F.
 - 3. Shore A Hardness Range: 25 - 30; ASTM D 2240.
 - 4. Manufacturers: Dow Corning Corp. 791; GE Silpruf.
- E. Type 5: ASTM C 920, medium modulus, Type M, Grade NS, polyurethane.
 - 1. Elongation Capability: Plus or minus 50 percent.
 - 2. Service Temperature Range: Minus 20 to 120 degrees F.
 - 3. Shore A Hardness Range: 20 - 25; ASTM D 2240.
 - 4. Manufacturers: Sika Corporation, Sikaflex 2C; Tremco, Dymeric 240FC; Pecora, Dynatrol II.
- F. Type 6: ASTM C 920; low modulus, Type S, Grade NS polyurethane.
 - 1. Elongation Capability: Plus 100/minus 50 percent.
 - 2. Service Temperature Range: Minus 20 to 120 degrees F.
 - 3. Shore A Hardness Range: 20 - 25; ASTM D 2240.
 - 4. Manufacturers: Sika Corporation, Sikaflex 15LM.

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SECTION 07920 – SEALANTS AND CAULKING

- G. Type 7: ASTM C 920; Type S, Grade NS, fuel resistant, low modulus silicone sealant.
 - 1. Elongation Capability: Plus 100, minus 50 percent.
 - 2. Service Temperature Range: Minus 20 degrees F to 160 degrees F.
 - 3. Shore A Hardness Range: 15 - 20; ASTM D 2240.
 - 4. Manufacturers: Dow Corning 888.

2.02 Primers:

- A. Comply with manufacturer's instructions. Manufacturer shall be consulted for all surfaces not specifically covered in submitted application instructions.

2.03 Backer Rod – Tape:

- A. Closed-cell polyethylene, open-cell polyurethane, or open-cell polyethylene soft-type backer rod as recommended by sealant manufacturer. Bond breaker tape shall be used to prevent three-sided adhesion in location where backer rod cannot be used.
- B. Acceptable Manufacturers:
 - 1. Open-Cell: Denver Foam; ITP Tundra Foam;
 - 2. Soft-Type: ITP Soft-type;
 - 3. Bond Breaker Tape: Pecora Corporation

3.0 EXECUTION

3.01 Examination:

- A. Examine substrate surfaces to ensure no bond breaker materials contaminate surface to which sealant is to adhere, and that unsound substrates are repaired.
- B. Verify joint dimensions are within manufacturer's acceptable tolerances, per manufacturer's submittal literature.

3.02 Preparation:

- A. Protect adjacent exposed surfaces.
- B. Prepare joints in accordance with manufacturer's recommended instructions for maximum adhesion; prime as required by manufacturer.
- C. Consult manufacturer for surfaces not specifically covered in application instructions.
- D. Installation of sealant shall be evidence of acceptance of substrate.

3.03 Installation:

- A. Sealant shall be mixed (if multi-component) and installed in accordance with manufacturers' recommendations and instructions to ensure complete mixing and an installed proper width/depth ratio with maximum adhesion contact. Three sided adhesion must be prevented.
- B. Backer rod shall be installed using only blunt or rounded tools which will ensure a uniform (+/- ¼") depth without puncturing the material. Backer rod shall be a minimum of 50% oversized for open cell backer rod, unless otherwise required by the manufacturer.
- C. Surrounding surfaces shall be protected as required to ensure no sealant contaminates these surfaces.
- D. Both temperature and dampness conditions may restrict application of these sealants. Comply with manufacturer's instructions.

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SECTION 07920 – SEALANTS AND CAULKING

- E. Force sealant into joint by to ensure conformance with manufacturer's recommended width/depth ratios. Tool to ensure full contact with sidewalls and backing. Tooling pressure shall cause a wetting for maximizing sealant adhesive contact to substrate.
- F. Unless otherwise indicated, finish horizontal joints flush, vertical joints distinctly concave in shape.
- G. Finished bead shall be smooth, free from wrinkles, air pockets, and foreign matter.

3.04 Control Joints:

- A. Control Joints are required in all masonry and stucco work, and are not to exceed ±25'-0". Form control joints by the use of sheet felt bond breaker. At masonry, stop wall reinforcing and pack vertical joint with backer rod and neatly caulk. Color of caulk is to match masonry. Coordinate with Section 04100 – Masonry, Mortar, and Accessories.

3.05 Cleaning:

- A. Remove excess material adjacent to joint.
- B. Remove unused materials from jobsite.

3.06 Schedule:

JOINT TYPE	SEALANT TYPE						
	1	2	3	4	5	6	7
1. Structural Glazing		X					
2. Glass to Glass (Nonstructural)			X	X			
3. Perimeter Window Sealant		X		X		X	
4. Aluminum to Brick		X		X		X	
5. Brick to Brick	X	X		X	X	X	
6. Wood to Wood						X	
7. Metal to Metal		X		X			
8. Metal to Stucco		X		X			
9. Aluminum to Concrete	X	X		X			
10. Concrete to Concrete	X						
11. Stone to Stone	X						
12. Paving on Grade							X

(END OF SECTION 07920)

SECTION 08100 - HOLLOW METAL DOORS AND FRAMES

1.0 GENERAL

1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.

1.02 Description of Work: This Section covers the work necessary to furnish and install, complete, the following:

- A. Interior window frames.
- B. Door louvers

1.03 Related work specified elsewhere:

- A. Section 07920 - Sealants and Caulking
- B. Section 09900 - Painting

1.04 References:

- A. UL 10B-93, Fire Tests of Door Assemblies
- B. ASTM-A366-95A - Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality.
- C. ASTM -A568-95 - Specification for Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled
- D. ASTM-A 569-91A - Specification for Steel, Carbon, (0.15 Maximum Percent), Hot-Rolled Sheet and Strip Commercial Quality.
- E. ASTM-A924-95 - General Requirements for Steel Sheet, Metallic Coated by the Hot-Dip Process
- F. ASTM-A620 - Specifications for Steel, Sheet, Carbon, Drawing Quality, Special Killed, Cold Rolled (for embossed panels)
- G. ANSI/SDI-100-91 - Recommended specifications for standard steel doors and frames.
- H. SDI-105-91 - Recommended Erection Instructions for Steel Frames
- I. SDI-107-78 - Hardware on Steel Doors (reinforcement-application)
- J. NFPA-80-1995 - Standard for Fire Doors and Windows
- K. NFPA-101-1994 - Life Safety Code
- L. ANSI-A250.4-1994 Test Procedure and acceptance criteria for physical endurance
- M. ANSI-A224.1-1980 - Test Procedure and acceptance criteria for prime painted steel surfaces for steel doors and frames
- N. ADA, The Americans with Disabilities Act - Title III - Public Accommodations
- O. ANSI-A117.1-1986 - American National Standards Institute - Accessible and Usable Buildings and Facilities
- P. U. L. - Underwriters' Laboratories
- Q. WHO - Warnock Hersey International, Division of Inchcape Testing Services
- R. State and Local codes including Authority Having Jurisdiction

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SECTION 08100 - HOLLOW METAL DOORS AND FRAMES

- 1.05 Submittals:
 - A. Shop Drawings: Indicate door and frame elevations and sections, materials, gages and finishes, fabrication and erection details, locations of finish hardware by dimension and locations/details of all openings and louvers - submit two (2) copies each to Contractor-Architect for approval. Do not proceed with any fabrication until all details are approved.
 - B. Certification of Compliance: Submit any information necessary to indicate compliance to any or all of these Specifications as requested.
 - C. Submit any samples necessary as required by Architect.

- 1.06 Quality Assurance:
 - A. Provide labels on all fire rated doors and frames where required (see Door Schedule).
 - B. Certification of label construction - For components exceeding Underwriters' Laboratories, Inc. (UL) - furnish inspection certificate stating that component construction conforms to UL rating requirements only if Architect is aware of such a limitation and has allowed the non-labeled unit.
 - C. Hollow metal supplier shall be a qualified direct distributor of products to be furnished. In addition, the distributor shall have in their regular employment an A.H.C./C.D.C. or person of equivalent experience who shall be made available at reasonable times to consult with the Architect/Contract and/or Owner regarding any matters affecting the door and frame openings.

- 1.07 Delivery, Storage, and Handling:
 - A. Deliver doors and frames cardboard wrapped, crated, palletted, or otherwise protected during transit and site storage.
 - B. Contractor to inspect doors and frames upon delivery for damage. Minor damages may be repaired provided refinished items are equal in all respects to new work and acceptance to the Architect; otherwise remove and replace damaged items as directed.
 - C. Store doors and frames at the building site in a dry secure place.
 - 1. Place units on minimum 4" high wood blocking.
 - 2. Avoid use of non-vented plastic or canvas shelters that could create a humidity chamber.
 - 3. If cardboard wrapper on door becomes wet, remove carton immediately.
 - 4. Provide 3 inch spaces between stacked doors to promote air circulation.

- 1.08 Sequencing and Scheduling: Deliver all doors and frames to the job site in a timely manner so as not to delay progress of other trades. Contractor to let purchase orders to frame, door and hardware suppliers early so as not to interfere with normal quoted delivery of materials.

- 1.09 Warranty: All hollow metal doors and frames shall be supplied with a one (1) year warranty against defects in materials and workmanship, commencing with the date of Substantial Completion.

2.0 PRODUCTS

SECTION 08100 - HOLLOW METAL DOORS AND FRAMES 08100.2

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SECTION 08100 - HOLLOW METAL DOORS AND FRAMES

2.01 Acceptable Manufacturers (providing the products supplied comply with this specification):

- A. Ceco Corp., Oakbrook, Illinois
- B. Curries Co., Mason City, Iowa
- C. Steelcraft Manufacturing Co., Cincinnati, Ohio
- D. Allied Steel Products
- E. Fenestra, Inc.

2.02 Materials:

- A. Steel requirements, all doors and frames to be manufactured of commercial quality, stretcher leveled flatness, cold rolled steel per ASTM A-366 and A-568 general requirements or galvanized to A-60 minimum coating weight standard. Internal reinforcing may be manufactured of hot rolled pickled and oiled steel per ASTM A-569.
- B. Coating materials: Primer - Use Manufacturer's standard rust inhibiting primer conforming to A.N.S.I. A-224.1 - 1980.
- C. Core materials
 - 1. Non-labeled doors or labeled doors, polystyrene foam core - self-extinguishing, non-toxic in case of fire.
 - 2. Fire labeled doors with temperature rise rating shall have a mineral fiber core sufficient to obtain a 250°F temperature rating.
- D. Glass lights shall be fabricated of not less than 18 ga. galvanized steel with attachment screws allowed only on the non-secure side, not visible when viewing door light frame face.

2.03 Fabrication:

- A. General
 - 1. Fabricate all doors and frames in accordance with SDI - 100-1991 except where more stringent requirements are specified.
 - 2. Prepare doors to receive finish hardware per approved schedule. Include all through-bolting holes as required per hardware template. Do not include unnecessary cut outs in doors not required by hardware template.
 - 3. Supply only doors and frames manufactured by one (1) of the acceptable Manufacturers listed in this specification. All products supplied shall be from one Manufacturer only.
- B. Doors:
 - 1. Classification: SDI - Interior Grade II Mode 2 - seamless design/Exterior - SDI Grade III Model 2 seamless design
 - 2. Face sheets: Minimum of 18 ga. cold-rolled steel for interior and 16 ga. at exterior
 - 3. Vertical lock edges beveled 1/8" in 2" - seamless construction by welding and filling at the factory only.
 - 4. Top and bottom channels are to be not less than 16 ga. - flush or inverted; and welded to the face sheets. Close tops of out swinging exterior doors flush by the addition of steel top channel fillers if necessary.
 - 5. Astragals: Where called for shall be flat security type or 'Z' as called for in the Drawings or Specifications.
 - 6. All doors must conform to A.N.S.I. - A-151.1 Level 'A' criteria and be tested to 1,000,000 operating cycles. Certification of Level 'A' doors is to be

SECTION 08100 - HOLLOW METAL DOORS AND FRAMES

08100.3

SECTION 08100 - HOLLOW METAL DOORS AND FRAMES

submitted with approval Drawings by the distributor. Do not bid or supply any type or gage of door not having been tested or passed this criteria.

C. Frames:

1. Construction: 16 ga. cold rolled steel at interior locations, 16 ga. galvanized at exterior installation.
2. All frames are to be face welded and ground smooth, and re-primed unless otherwise noted. Provide temporary shipping bars to help protect from damage during transit and handling. Temporary spreaders are to be removed before setting frames. All welds on frames, transoms, and/or side lites are to be flush with neatly mitered or butted material cuts. 2" door head; refer to drawing sheet for elevation and profile.
3. Interior Hollow Metal Door Frames to be wraparound type to eliminate high maintenance vinyl base returns. Adjust frame width as required to accommodate wall system.

D. Frame Anchors:

1. Wall anchors for frame attachment to masonry construction: All anchors built into exterior or masonry walls are to be galvanized. Masonry anchors, adjustable, flat, corrugated or perforated 'T' shaped anchors with leg not less than 2" wide by 10" long or masonry "wire" type not less than 3/16" diameter.
2. Wall anchors for attachment to drywall partitions: Manufacturers adjustable type compression anchors where knocked down frames (K.D.) are indicated. Use steel or wood stud anchors sized to accommodate frame jamb depth and face dimension on all welded frames.
3. All frame jamb anchors are to be provide; one each jamb per 2' - 6" of frame height or fraction thereof.
4. Floor anchors; Angle clip type - 16 ga. minimum, to receive 2 fasteners per jamb, welded to the bottom of each jamb.
5. Head struts; for frames not anchored to masonry or concrete construction provide ceiling struts spot welded to jambs each side extending to building structure where called for on schedule.
6. In place masonry or concrete - 3/8" countersink flathead stove built and expansion shields. Weld pipe spacers or other type spacers per manufacturer standard design in back of frame soffit to protect frame profile during tightening of bolt and anchors.

E. Preparation for Hardware:

1. Reinforcement: Reinforce components for hardware installation in accord with SDI-107. All lock and closer reinforcements shall be "box" type. All hinge reinforcing on doors is to be channel type, continuous from top to bottom of door welded to face sheets.
2. Punch single leaf frames to receive three (3) silencers; double leaf frames to receive one silencer per leaf at head.
3. Factory prepared hardware locations shall be in accord with "Recommended locations for builders' hardware for standard steel doors and frames", as adopted by The Steel Door Institute.
4. Supply welded in mortar guards at all hardware cutouts in frames built into masonry or to be grouted in full.

SECTION 08100 - HOLLOW METAL DOORS AND FRAMES

- 5. The use of "S.N.B." does not relieve the use of proper lock, closer and exit device reinforcements.

2.04 Accessories:

- A. Manufacturer's standard anchors, fasteners, etc.
- B. Silencers: As specified in *Section 08700 - Finish Hardware*.
- C. Glazing Stops: Rolled steel channel shape, prepared for countersink style screws. Glazing stops shall accommodate glass of the type and thickness indicated on the Drawings and as specified in *Section 08800 - Glass and Glazing*.

3.0 EXECUTION

3.01 Setting Frames:

- A. Set all frames in accord with SDI 105-87.
- B. Set welded frames in position prior to beginning partition work. Brace frames until permanent anchors are set.
- C. Set anchors for frames as work progresses. Install anchors at hinge and strike levels.
- D. Use temporary setting spreaders at all locations and use of intermediate spreaders to assure of proper door clearances and header braces for grouted frames is required.
- E. Install frames in prepared openings in concrete and masonry walls using countersunk bolts and expansion shields.
- F. Install all fire rated frames in accord with requirements of NFPA-80-1990.

3.02 Door Installation:

- A. Install hollow metal doors in frames using hardware specified in Section 08710 Finish Hardware.
- B. Clearances at edge of doors:
 - 1. Between door and frame at head and jambs: 1/8"
 - 2. At meeting edges pairs of doors and at mullions: 1/8"
 - 3. At transom panels, without transom bars: 1/8"
 - 4. At sills without thresholds: 5/8" maximum above finish floor
 - 5. At sills with thresholds: 1/8" above threshold

3.03 Adjustment and Cleaning:

- A. Remove dirt and excess sealants, mortar, or glazing compounds from exposed surfaces.
- B. Adjust moving parts for smooth operation. Use shims if necessary to allow for proper closing.
- C. Fill all dents, holes, etc. with metal filler and sand smooth and flush with adjacent surfaces - Paint to match finish.

(END OF SECTION 08100)

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SECTION 08116 – HURRICANE SCREEN WINDOW UNITS **(BASE BID)**

PART 1 GENERAL

1.01 Description

The installation of retrofit window security screens shown referenced or implied on the accompanying plans and herein specified are the products of or equal to Kane Innovations, Inc., Erie, Pennsylvania or approved equal. This manufacturer's name and products have been used to establish the standards of construction and quality of workmanship required for this project. This projects scope of work consists of the installation of permanent window / glass perforated / webbed metal protection covering over all glass (refer to exterior elevations) and a impact resistant rolldown coiling door over the new storefront infill at the west elevation rollup service door removed and replaced as part of this project scope of work. for hurricanes hardened doors, the installation of high wind hurricane security screens to protect the windows and mulled framed high wind hurricane security screen systems to protect the new storefront and large glass window openings. Manufacturers bidding on this project must be actively engaged in the fabrication of specified items for a minimum of five (5) years prior to the bid date. Manufacturers requesting approval to bid their products as equal must submit to the Architect full-size drawings, including details of construction, and a complete operating security screen sample, seven (7) days prior to the bid date.

Refer to subsection 01100 alternates for impact resistant glass / glazing and frame.

Refer to section 08350 Hurricane Hardened rolldown door at new storefront in west wall new lobby.

1.02 Submittals

- A. Manufacturer shall submit shop drawings, showing details of attachment to surround materials and elevations of this product reflecting a clear understanding of the scope of the project and understanding of the existing conditions.
- B. Standard samples of materials are requested without cost to owner: frame sections; protective perforated panel.

1.03 Warranty

The operation of the security screen supplied by Kane Innovations, Inc. on the designated project is warranted for ten (10) year against any proven defective material or parts, as called for in the specifications and approved shop drawings. This warranty does not cover abuse by others.

PART 2 PRODUCTS

2.01 Acceptable Manufacturers

- A. Kane Innovations, Erie, PA - (800) 773-2439
- B. EXETER Architectural Products, New Orleans, LA – (570) 693-4220
- C. Or approved equal

2.02 Main Frame

- A. Certification – Performance and testing must comply with 8th edition, Florida Building Code Product Approval for HVHZ, large and small missile impact test.

SECTION 08116 – OPERABLE HURRICANE SCREEN WINDOW UNITS

08116-1

SECTION 08116 – HURRICANE SCREEN WINDOW UNITS (BASE BID)

- B. The main frame face side (exterior) stiles and rails shall measure 3 1/8" in width, the back side (interior) shall measure 2 1/8", the depth shall measure 1 1/4" nominal wall thickness shall be .072-inch, extruded 6063-T6 aluminum alloy. Weight shall be approximately .815 lbs./ft. The corners shall be mitered, fitted with 1" x 3" x 3" corner key, extruded from 6063-T6 aluminum alloy with a nominal thickness of .125-inch. Weight shall be approximately 2.210 lbs./ft. The main frame back side shall have an integrated interlocking receptor channel for acceptance of a cover plate. The main frame corners shall receive a secondary corner key of 2 1/8" x 2 3/8", extruded from 6063-T6 aluminum alloy with a thickness of .090-inch. Weight shall be approximately 1.297 lbs./ft².
- C. A cover plate, 3/4" x 1 1/2", extruded from 6063-T6 aluminum alloy, .050-inch wall, with a weight of .152 lbs./ft., shall be inserted into the integrated interlocking receptor channel of the main frame. The cover plate shall then be held in place with #8 x 1" Phillips sheet metal screws 10 1/4" on center.

2.03 Brace

- A brace (if required), shall measure .459-inch x 3.125-inches, extruded from 6063-T6 aluminum alloy with a nominal thickness of .050-inch. Weight shall be not less than .878 lbs./ft. The brace shall be coped into the main frame and held in place by a 1 1/4" x 1 1/2" corner key, extruded from 6063 T-6 aluminum alloy with a thickness of .090-inch. Weight shall be 1.297 lbs./ft².

2.04 Sub-frame

- A. The sub-frame shall be of channel design, extruded from 6063-T6 aluminum alloy. Weight shall be .515 lbs./ft. Wall thickness shall be .090-inch. The corners of the sub frame shall be mitered, secured by an internal tension coupling assembly and shall be resistant to both torsion and flexural failure.
- B. The sub frame shall have a continuous groove retaining a combination cushioning strip/insect shield. The depth of the sub frame shall be no more than 1 3/4".

2.04 Finish

- A. The *perforated panel infill* shall be thoroughly cleaned in a 5-step bonderizing process. An electrostatically applied *low gloss black*, thermoplastic, polyester powder coating shall be applied and baked to a hard mar-resistant finish.
- B. The *main frame, sub-frame and covers* shall be thoroughly cleaned in a 5-step bonderizing process. An electrostatically applied thermoplastic, polyester powder coating shall be applied and baked to a hard mar-resistant finish. Coating shall meet or exceed AAMA 2603. Colors to be selected from standard colors White, Grey, Black, Dark Bronze, or Beige. Contractor to provide actual color finish samples to select from.

2.05 Infill

- A. 14-gauge mill-galvannealed steel with .181-inch holes on 1/4" staggered and 51% open area and 51% open area.
- B. 14-gauge mill-stainless steel with .181-inch holes on 1/4" staggered and 51% open area and 51% open area.

2.06 Infill Attachment

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SECTION 08116 – HURRICANE SCREEN WINDOW UNITS (BASE BID)

- A. The perforated panel shall be attached between the main frame and interlocking cover plate with #8 x 1/2" square drive Tek screws.
- B. Square drive Tek screws shall penetrate the infill and main frame on 3" maximum centers.

2.07 Locks & Releases

Each screen shall have a concealed Kane 107[®] bitt key lock, actuating ball bearing, 1/2" diameter casehardened steel bolts. The bolts shall operate simultaneously from one key station with a special bitt key.

- A. Locks: Kane 107[®] bitt key lock Keyed both sides of main frame

- B. Releases: Push-Quick[®] release which conforms to NFPA 101 (5- 2.1.7.1) Down-Quick[™] Lift-Quick[™]

2.8 Hardware

- A. Each screen shall be provided with two or more concealed 13-gauge, stainless steel hinges with 1/4" diameter hardened, loose stainless-steel pins and integral compression guards.
- B. Each screen shall have all necessary installation hardware, including fastening screws.
- C. Each screen shall come fully assembled and tested from the factory.

PART 3 EXECUTION

3.01 Inspection

Verify that openings fit allowable tolerance, are plumb, level, provide a solid anchoring surface and comply with approved shop drawings.

3.02 Installation

- A. Install in accordance with approved shop drawings and specifications and to reflect the actual field conditions.
- B. Plumb and align faces in a single plane and erect screens square and true, adequately anchored.
- C. After completion of installation, screens shall be properly adjusted, in working order and clean.

(END OF SECTION 01100)

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SECTION 08200 - WOOD COMPOSITION AND WOOD DOORS

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: Furnish all labor, materials, and/or incidentals necessary to the completion of all requirements of the drawings, specifications, notes, and schedules concerning wood doors.
- 1.03 Codes and Standards:
 - A. AWI - Architectural Woodwork Institute for Type P.C.
 - B. ACS - American Commercial Standards, U.S. Dept. of Commerce
 - C. NWMA I.A. 1-78 Series
 - D. Doors shall be guaranteed to meet the National Door Manufacturer
- 1.04 Shop Drawings: Furnish shop drawings identifying all types to the schedule and job conditions. Include door construction details.
- 1.05 Door Assembly: Pre-hung with wood trim to match existing interior door assemblies.
- 1.06 Product, Delivery, Storage and Handling: Deliver doors wrapped in Kraft paper. Protect from physical or climatic damage. Stack doors to prevent warpage. Marred or warped doors will be rejected.
- 1.07 Guarantee: Furnish guarantee as shown below against defects in workmanship and materials which would make the doors unfit for the use for which they are intended under this Contract. Doors shall be identified by appropriate dowels. Provide written guarantee from the door manufacturer stating that doors will not delaminate or show a warpage from a true plane of more than 1/4" during the first year of use or they shall be replaced at the Contractor's expense. Furnish this guarantee to the Architect after the installation has been completed.

2.0 PRODUCTS

- 2.01 Solid Core Interior Doors: Use 1-3/4" thick flush doors, Type I Density C, Class I hardwood veneered with hardwood bands, solid core. Face veneers shall be Premium Grade, rotary slice Birch, for natural finish. Doors shall be fabricated with waterproof glue, hot plate pressed. Doors shall have a minimum width of 1 1/8" hardwood stiles and 1-1/2" minimum width top and bottom hardwood rails. Styles shall match face veneer. Lifetime guarantee, (60 min. Fire Rated, where shown on schedule). Door slabs to be matched per color and pattern in each room to ensure like units are grouped together.
- 2.02 Cutouts for Vents and Glass: Where shown, provide cutouts for louvers and glass, with steel stops. Where doors are labeled or located in rated partitions, provide metal stops meeting requirements for labeled fire protection.

3.0 EXECUTION

SECTION 08200 - WOOD COMPOSITION AND WOOD DOORS	08200-1
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SECTION 08200 - WOOD COMPOSITION AND WOOD DOORS

- 3.01 General: The installation of wood doors is specific under this Section on FINISH CARPENTRY. Installation of folding partitions by authorized representative of Manufacturer in accord with Manufacturer's printed instructions.
- 3.02 Protection: Protect doors from damage or deterioration until acceptance of the work. Replace any doors damaged prior to final acceptance.
- 4.0 WOOD DOORS**
- 4.01 Furnish and install plain slice red oak with factor finish, 1-3/4" thick solid core flush type with lifetime guarantee.
- 4.02 Doors are to be tinted to match existing adjacent wood.
- 4.03 Contractor may submit prefinished door slabs for consideration; provide two full range samples of prefinished color options.

(END OF SECTION 08200)

SECTION 08200 - WOOD COMPOSITION AND WOOD DOORS

- 08200.2

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SECTION 08350 - SPECIAL ROLL-DOWN SHUTTERS (BASE BID)

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: This Section of the Specifications is intended to cover the furnishing of all labor, materials and/or incidentals necessary to the completion of all requirements of the Drawings, Specifications, notes and schedules concerning the replacement of the existing roll-down doors and counter shutters with new special hurricane enhancement shutter systems.
- 1.03 This Section includes such special items as rolldown storefront window shutters, doors and glass protection.
- 1.04 Shop Drawings of all windows and doors covers in this section shall be submitted for approval, and shall show sizes, construction and installation methods and details, and hardware and accessories, etc.
- 1.05 Hurricane enhancement system shall meet or exceed the hurricane hardened code requirements and as a minimum system produced by Weather Guard, Inc., Overhead Doors Co., Cornell Doors, American Doors or approved equal.

2.0 ROLLING SERVICE DOORS

- 2.01 Hurricane enhancement protective shutter shall be furnished and installed where indicated on Drawings and schedules. Which includes the new lobby storefront.
- 2.02 All roll-down shutters will be manufactured from 6063-T5 extruded aluminum.
- 2.03 The blades will be ASSA approved 60 mm slats with anti-release interlock and reinforced posts.
- 2.04 The shutters will operate within a dual point parallel tracking system and be designed and reinforced for maximum strength.
- 2.05 The tracking system will include four pile lining for extra smooth and silent operation at counter shutters.
- 2.06 All hardware and accessories shall be of the finest quality and include a galvanized steel drum and galvanized steel bracket, as well as the highest quality gear system.
- 2.07 Securing the bundle to the wall/structure shall be done so with a bracket system rather than an end cap system.
- 2.08 The hood covering the bundle must slope approximately 3/4" over a 10' span from the wall to the outer edge. Paint color to match existing condition (refer to photographic documentation).

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SECTION 08350 - SPECIAL ROLL-DOWN SHUTTERS (BASE BID)

- 2.09 The product and installation must meet Dade County approval.
 - 2.10 The engineering and Dade County Notice of Acceptance number for the roll-downs must be in the bidding companies own name.
 - 2.11 All shutters and housing assembly to be prefinished baked on color to match the existing from standard color options.
 - 2.12 Hoods shall be brake formed not less than 24 U.S. ga. hot galvanized sheet metal to fit contour of end brackets. Color to be to match existing buildings' trim.
 - 2.13 Roll-up service Door Guides shall be made from standard rolled steel angles not less than 3/16" thick to form a groove to retain curtain in place under wind pressure. Guides shall be attached to jambs with not less than 2" bolts at maximum defined by shutter manufacturer.
 - 2.14 System shall be equal to units as manufactured by Weather Guard Inc., 5150 Palm Valley Road, Ponte Vedra, Florida 32082, (904) 273-3131, Overhead Doors (800) 929-3667, Cooksen Doors (855) 719-4040, American Doors (888) 226-3667 or equal.
- 3.0 PROJECT CLOSEOUT**
- 3.01 Refer to Section 01700 of this Project Manual for project closeout.
 - 3.02 Contractor to operate each unit with Owner and Architect prior to completing the project to ensure that each unit is installed and functioning properly.

(END OF SECTION 08350)

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SECTION 08400 - ALUMINUM STOREFRONT

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Related Work:
 - A. Section 07920 - Caulking and Sealants
 - B. Section 08800 - Glass and Glazing
 - C. Section 08700 - Finish Hardware
- 1.03 Codes and Standards:
 - A. ASTM - American Society for Testing and Materials
 - B. AAMA - Architectural Aluminum Manufacturer's Association
 - C. AWS - American Welding Society
 - D. SBCCI - Standard Building Code Congress international, current edition
- 1.04 Acceptable Subcontractor: Subcontract entire window wall work (including glass and glazing and sealants and caulking, as specified elsewhere) to single firm to ensure undivided responsibility for performance. Firm is to have not less than five (5) years successful experience in fabrication of aluminum wall and storefront systems as required for this project.
- 1.05 Manufacturer: Details on Drawings are based on systems manufactured by Kawneer Architectural Products. Architect will consider substitute systems for entire window wall work. System must be submitted to Architect for approval ten (10) days prior to the bid date.
- 1.06 Shop Drawings: Show dimensions, sections, details of construction, and details of installation.
- 1.07 Product Delivery, Storage and Handling: Deliver cartoned, boxed and banded. Store off ground. Protect from moisture and damage.
- 1.08 Guarantee against defects in material and workmanship, for one (1) year.

2.0 PRODUCTS

- 2.01 Manufacturers equal to Kawneer, Vistawall or approved equal
- 2.02 Standard Storefront Framing Members: Kawneer Tri-Fab 451 T components to comply with structural wind loading requirements of FBC 8th edition but not less than following minimum thicknesses:
 - A. Principal Members - 6063-T5 alloy - 42" x 1 3/4" x .125" - refer to finishes in subsection 2.02.
 - B. Stops, Trim and Clips - 6063-T5 alloy - .062"
 - C. Brake Metal - 6063-T5 alloy (Type II) .050" or .125" shall not show deformation at brake edge.
 - D. Retainers - Stainless Steel - .032"

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SECTION 08400 - ALUMINUM STOREFRONT

- 2.03 Windows: all exterior storefront windows are to be infill units at the upper cupola area of the building to be inserted into the existing jamb opening once existing wood window unit's jamb extensions have been cut back.
- 2.04 Finish: White to match existing adjacent storefront.
- 2.05 Fasteners: Aluminum or non-magnetic stainless steel of type which will not cause galvanic action or corrosion. Provide Phillips flat-head screws where exposed unless otherwise shown. Finish exposed aluminum fasteners to match aluminum work unless otherwise shown.
- 2.06 Separation of Dissimilar Metals: Note that major portions of aluminum entrances and window wall are supported by and/or bear on or come in contact with ferrous metals. Contractor shall use methods generally recognized in the industry to permanently separate all aluminum components from ferrous or other dissimilar metals which may cause corrosion. The method of separation shall be reviewed with the Architect prior to erection. In fastening aluminum components to ferrous metals, only stainless-steel fasteners are permitted.
- 2.07 Sealant: See *Section 07920 – Sealants and Caulking*.

3.0 EXECUTION

- 3.01 Damage: Do not install component parts which are observed to defective in any way, including warped, bowed, dented, abraded, and broken members, and including glass with edge damage. Remove and replace members, which have been damaged during installation or thereafter before time of final acceptance.
- 3.02 Alteration: Do not cut, trim, weld or braze component parts during erection, in manner which would damage strength or finish or result in visual imperfection or failure in performance of window wall. Return component parts which require alteration to shop for prefabrication or replace by new parts.
- 3.03 Erection: Install component parts level, plumb, true to line and with uniform joints and reveals. Secure to structure with non-staining and noncorrosive shims, anchors, fasteners, spacers and fillers. Use erection equipment which will not mar or stain finished surfaces and will not damage component parts in any way.
- 3.04 Cleaning: Remove dust and other substances from behind window wall as it is erected and provide temporary closures, if necessary, to prevent accumulation of such substances in void spaces (if any) behind window wall.
- 3.05 Erection Tolerances - Plumb, Level, or Dimensioned Angle - Limit variations to following:
 A. 1/8" maximum deviation in any story height, or in any 10" vertical or angular run or in any 20' horizontal run.
 B. 1/4" maximum deviation in any 40' run, any direction.

SECTION 08400 – ALUMINUM STOREFRONT

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SECTION 08400 - ALUMINUM STOREFRONT

- 3.06 Location - (refer to exterior elevations and front entrance copula area) Limit variations, including those from plumb and level, to following:
 - A. 3/8" total maximum deviation for any member at any location.
 - B. 1/8" maximum deviation for any member for any 10' run, any direction.

- 3.07 Offsets: In the end-to-end and edge-to-edge alignments of adjoining and consecutive members, which form plans, continuous runs and profiles, limit to following:
 - A. 1/16" maximum offset in any flush alignment, including any which are to be 1/4" or less out-of-flush and including any which are separated 2" or less by reveal or protrusion in plane of wall.
 - B. 1/8" maximum offset in alignments which are to out-of-flush by more than 1/4" or separated by reveal or protrusion of more than 2" width.

- 3.08 Assembly and Anchorage: Anchor component parts securely in place as shown, by bolting, welding, or other permanent mechanical attachment system which will comply with performance requirements and permit movements which are intended or necessary. Install slip-joint linings wherever possible to ensure movement as intended or necessary. At Building 33 curtain wall system secure curtain wall vertical frame member mid-height to second floor floor-slab edge angle. Refer to Building Elevations and coordinate with field conditions.

- 3.09 Welding: Where welding is required for exposed steel work, comply with applicable recommendations of AWS. Avoid distortion of members and grind exposed surfaces smooth.

- 3.10 Frames and trim shall not be installed with scratches or dents.

- 3.11 Touch-Up: ANY MINOR SCRATCHES SHALL BE TOUCHED UP WITH MANUFACTURERS' RECOMMENDED PAINT.

- 3.12 Cleaning and Protection: Immediately before time of final acceptance, window wall contractor to clean window wall thoroughly, inside and out. Demonstrate proper cleaning methods to Owner's maintenance personnel during this final cleaning. Prepare "Cleaning and Maintenance Manual" listing types of cleaning compounds, cleaning methods and types of sealants and glazing materials to be used for cleaning, repair, and maintenance of work.

- 3.13 Glazing to be Low "E" clear.

(END OF SECTION 08400)

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SECTION 08450 – HURRICANE HARDENED ALUMINUM STOREFRONT SYSTEM

(Additive Alternate)

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Related Work:
- A. Section 07900 - Caulking and Sealants
 - B. Section 08400 – Aluminum Storefront System
- 1.03 Codes and Standards:
- A. ASTM - American Society for Testing and Materials
 - B. AAMA - Architectural Aluminum Manufacturer's Association
 - C. AWS - American Welding Society
 - D. SBCCI - Standard Building Code Congress international, current ed.
- 1.04 Scope of Work: Base bid consists of the installation of a pre-engineered retrofit muller hurricane screen system installed in the masonry storefront opening to protect the existing storefront. This alternate will replace the existing storefront and glass system with a new hurricane hardened storefront system with impact resistant glass eliminating the need for a floating pre-engineered screen system identified in section 08116 of the project manual.
- 1.05 Acceptable Subcontractor: Subcontract entire window wall work (including glass and glazing and sealants and caulking, as specified elsewhere) to single firm to ensure undivided responsibility for performance. The firm is to have not less than five (5) years' successful experience in fabrication of aluminum wall and storefront systems as required for this project.
- 1.06 Manufacturer: Details on Drawings are based on systems manufactured by Kawneer Architectural Products or equal. Architect will consider substitute systems for entire storefront window wall replacement work. The system must be submitted to Architect for approval ten (10) days prior to the bid date.
- 1.07 Shop Drawings: Show dimensions, sections, details of construction and details of installation.
- 1.08 Product Delivery, Storage and Handling: Deliver cartoned, boxed and banded. Store off ground. Protect from moisture and damage.
- 1.09 Guarantee against defects in material and workmanship, for one (1) year.

2.0 PRODUCTS

- 2.01 Framing Members: Kawneer hurricane designed IR-500 components to comply with structural wind loading requirements of Fla. Bldg. Code 2017 – 6th edition, Hurricane Hardening requirements for large missile impact but not less than following minimum thicknesses:
- A. Principal Members – min. 6063-T5 alloy – 2-1/2" x 5" x wall thickness as required clear anodized unless different from EHPA / Impact requirements.

SECTION 08400 – ALUMINUM STOREFRONT SYSTEM

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SECTION 08450 – HURRICANE HARDENED ALUMINUM STOREFRONT SYSTEM

(Additive Alternate)

- B. Stops, Trim and Clips – min. 6063-T5 alloy - .062"
 - C. Brake Metal - 6063-T5 alloy (Type II) .050" or .125" shall not show deformation at brake edge.
 - D. Retainers - Stainless Steel - .032"
 - E. Manufacturer to provide EHPA hurricane impact and windborne debris requirement frame design for the main front entrance storefront and the eight 48" square window units; all frames to be designed to reflect the wind speed designated for the Alachua County, Newberry area.
 - F. Glazing – 9/16" monolithic large missile impact glazing.
- 2.02 Finish: All exposed window wall, and all storefront to be clear anodized aluminum AA-M12C22A42/42, min. thickness .7 mils.
- 2.03 Fasteners: Aluminum or non-magnetic stainless steel of type which will not cause galvanic action or corrosion. Provide Phillips flat-head screws where exposed unless otherwise shown. Finish exposed aluminum fasteners to match aluminum work unless otherwise shown.
- 2.04 Separation of Dissimilar Metals: Note that major portions of aluminum entrances and window wall are supported by and/or bear on or come in contact with ferrous metals. The contractor shall use methods generally recognized in the industry to permanently separate all aluminum components from ferrous or other dissimilar metals which may cause corrosion. The method of separation shall be reviewed with the Architect prior to erection. In fastening aluminum components to ferrous metals, only stainless-steel fasteners are permitted.
- 2.05 Doors:
- A. Furnish and install new double door assemblies with all related hardware to ensure a complete installation in compliance with all ADA and hurricane hardening EHPA (threshold, pivots/hinges, locks/latches, exit devices, closers, pus pulls). Contractor is to match general style of the existing hardware and miscellaneous incidentals with the addition of EHPA hurricane hardening and large missile impact criteria.
 - B. The existing storefront and door system consist of the following Vistawall FG 2000 non-thermal glazing. Door is medium style with continuous gear hinges with tubular pull handle ADA approved with concealed rod panic devices by Dor-o-Matic 1690EO exit only and 1692NL-OP with cylinder 20-057 with core closer – Dor-o-Matic SC80W/5C80-18PA. **(See original shop drawing elevation to be matched, included at the end of this Section.)**
 - C. Furnish and install door and hardware to interface and coordinate with Kawneer IR-500 series impact resistant glazing system with clear anodized aluminum finish. Contractor to use existing door and hardware style as an example of the desired style and/or configuration and is responsible to ensure that new hardware complies with all hurricane / EHPA / impact requirements whether specified or not.
 - D. Existing removed doors, and hardware is to be neatly packaged and turned over to the owner for future use at a different time.
- 2.06 Sealant: See Section 07900 - *Caulking and Sealants*.

SECTION 08400 – ALUMINUM STOREFRONT SYSTEM

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SECTION 08450 – HURRICANE HARDENED ALUMINUM STOREFRONT SYSTEM

(Additive Alternate)

3.0 EXECUTION

- 3.01 **Damage:** Do not install component parts which are observed to be defective in any way, including warped, bowed, dented, abraded, and broken members, and including glass with edge damage. Remove and replace members, which have been damaged during installation or thereafter before time of final acceptance.
- 3.02 **Alteration:** Do not cut, trim, weld, or braze component parts during erection, in manner which would damage strength or finish or result in visual imperfection or failure in performance of window wall. Return component parts which require alteration to shop for prefabrication or replace by new parts.
- 3.03 **Erection:** Install component parts level, plumb, true to line and with uniform joints and reveals. Secure to structure with non-staining and noncorrosive shims, anchors, fasteners, spacers and fillers. Use erection equipment which will not mar or stain finished surfaces and will not damage component parts in any way.
- 3.04 **Cleaning:** Remove dust and other substances from behind window wall as it is erected and provide temporary closures, if necessary, to prevent accumulation of such substances in void spaces (if any) behind window wall.
- 3.05 **Erection Tolerances - Plumb, Level, or Dimensioned Angle -** Limit variations to following:
 A. 1/8" maximum deviation in any story height, or in any 10" vertical or angular run, or in any 20' horizontal run.
 B. 1/4" maximum deviation in any 40' run, any direction.
- 3.06 **Location -** (Theoretical calculated position in plan or elevation based on established floor lines and column lines) Limit variations, including those from plumb and level, to following:
 A. 3/8" total maximum deviation for any member at any location.
 B. 1/8" maximum deviation for any member for any 10' run, any direction.
- 3.07 **Offsets:** In the end-to-end and edge-to-edge alignments of adjoining and consecutive members, which form plans, continuous runs and profiles, limit to following:
 A. 1/16" maximum offset in any flush alignment, including any which are to be 1/4" or less out-of-flush and including any which are separated 2" or less by reveal or protrusion in plane of wall.
 B. 1/8" maximum offset in alignments which are to out-of-flush by more than 1/4" or separated by reveal or protrusion of more than 2" width.
- 3.08 **Assembly and Anchorage:** Anchor component parts securely in place as shown, by bolting, welding, or other permanent mechanical attachment system which will comply with performance requirements and permit movements which are intended or necessary. Install slip-joint linings wherever possible to ensure movement as intended or necessary.
- 3.09 **Welding:** Where welding is required for exposed steel work, comply with applicable recommendations of AWS. Avoid distortion of members and grind exposed surfaces smooth.

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SECTION 08450 – HURRICANE HARDENED ALUMINUM STOREFRONT SYSTEM

(Additive Alternate)

- 3.10 Frames/Door and trim shall not be installed with "scratches, or dents",
- 3.11 Touch-Up: Any minor scratches shall be touched up with manufacturers' recommended paint.
- 3.12 Cleaning and Protection: Immediately before time of final acceptance, window wall contractor to clean window wall thoroughly, inside and out. Demonstrate proper cleaning methods to Owner's maintenance personnel during this final cleaning. Prepare "Cleaning and Maintenance Manual" listing types of cleaning compounds, cleaning methods and types of sealants and glazing materials to be used for cleaning, repair, and maintenance of work.
- 3.13 The hinges will be provided by the storefront supplier and the balance of the hardware is to be provided by the hardware supplier. Coordinate with hardware supplier to ensure compatibility of systems.
- 3.14 Glass and Glazing to be engineered to obtain a recognized test for the entire hurricane hardened storefront system.
- 3.15 Existing Conditions: Attached at the end of this section is a copy of the original, reviewed shop drawing for the storefront of the building's main entry as identified in the drawing plans, elevations and existing details. Note: It is the contractor's sole responsibility to verify and confirm the work-in-place and make all necessary adjustments required to accommodate the proposed system.

(END OF SECTION 08400)

SECTION 08400 – ALUMINUM STOREFRONT SYSTEM

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SECTION 08700 - DOOR HARDWARE

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in these Section.
- 1.02 Section Includes: Hardware for wood and hollow metal doors. It is intended that the list of hardware will cover all Finish Hardware to complete the project. *Each door graphically illustrated on the drawings is to be equipped with the appropriate hardware for its function. Omissions and/ or discrepancies shall be brought to the Architect's attention during the bidding period for clarification and inclusion in the as-built documents.* Hardware for labeled openings shall meet U.L. requirements whether specified herein or not.
- 1.03 Products Furnished but Not Installed Under This Section:
 - A. Section 08100 - Hollow Metal Doors & Frames - Furnish templates for frame preparation.
 - B. Section 08200 - Wood Doors - Furnish templates for door preparation.
- 1.04 Related Sections:
 - A. Section 08100 - Hollow Metal Doors & Frames
 - B. Section 08200 - Wood Doors
 - C. Section 08800 - Glass and Glazing
 - D. Section 16000 - Electrical
- 1.05 References (*Vendor to use latest revision of all applicable codes and standards*):
 - A. American National Standards Institute (ANSI)
 - B. ANSI 156.1 - Butts & Hinges - Grade 1.
 - C. ANSI 156.2 - Locks & Lock Trim - Grade 1.
 - D. ANSI 156.3 - Exit Devices - Grade 1.
 - E. ANSI 156.4 - Door Controls - Closers - Grade 1.
 - F. ANSI 156.8 - Door Controls - Overhead Holders - Grade 1.
 - G. ANSI 156.10 - Power Operated Pedestrian Doors - Grade 1.
 - H. ANSI 156.13 - Mortise Locks & Latches - Grade 1.
 - I. Builders Hardware Manufacturers Association (BHMA):
 - 1. BHMA Product Standards - Latest Edition
 - 2. BHMA Standard for Materials Finishes - Latest Edition
 - J. National Fire Protection Association (NFPA):
 - 1. NFPA-70 - National Electrical Code - Latest Edition
 - 2. NFPA-72E - Automatic Fire Detectors – Latest Edition
 - 3. NFPA-80 - Fire Doors and Windows – Latest Edition
 - 4. NFPA-101 - Life Safety Code – Latest Edition
 - 5. NFPA-105 - Installation of Smoke-Control Door Assemblies – Latest Edition
 - K. Door and Hardware Institute (DHI)
 - 1. DHI Publication - Recommended Locations for Architectural Hardware - 1990.
 - 2. DHI Publication - Hardware for Labeled Fire Doors - 1993.
 - 3. DHI Publication - Supplement Hardware for Labeled Fire Doors - 1993.
 - L. Local Building Code:
 - M. Florida Building Code 8th Edition.

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- 1.06 **Submittals:** Submit under provisions of Section 01300.
- 1.07 **Hardware Schedules:**
- A. Submit two (2) typewritten hardware schedules to the architect for approval. Provide required number of copies of the approved schedule for distribution to other trades as required.
 - B. Schedules shall be submitted in vertical format only and shall indicate explanation of all abbreviations, symbols, codes, etc.
 - C. Schedules shall include cross-references to hardware sets as listed in Section 3.04 of these specifications.
 - D. Schedules shall indicate type, style, function, size, finish, and other applicable information deemed necessary for each hardware item.
 - E. Schedules shall indicate each and every door and frame location, size, hand, material, fire rating, and other applicable information deemed necessary for a complete submittal and proper installation. Schedules without this information will not be acceptable.
 - F. Each product in the schedule shall be identified with the manufacturer's name.
- 1.08 **Catalog Cuts:** Submit two (2) copies of current manufacturers catalog cuts for each item of hardware listed in schedule. Catalog cuts must be of good, readable quality to be acceptable. Poor copies will be returned for re-submission.
- 1.09 **Template Schedules:** Furnish a complete set of templates to hollow metal doors, pre machining wood doors, storefront doors, and/or other suppliers as required for their coordination and use.
- 1.10 **Keying Schedule:** Submit four (4) copies of proposed keying schedules based on instructions from owner. Refer to requirements listed in this specification. *Vendor to coordinate keying meeting directly with owner's representative to minimize access to campus keying.*
- 1.11 **Manufacturer's Installation Instructions:** Indicate special procedures, perimeter conditions requiring special attention. *Once installation of hardware is complete, a manufacturer's representative is to inspect each installation for accuracy of installation and smooth functioning of each unit. Manufacturer's representative to provide a letter stating satisfaction of each hardware set.*
- 1.12 **Operation and Maintenance Data:**
- A. Submit under provisions of Section 01700.
 - B. Maintenance Data - Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
- 1.14 **Quality Assurance:** Comply with requirements of Section 01410 of this Project Manual.
- 1.15 **Substitutions:**
- A. Product manufacturers seeking to be approved as equal to specified products must comply with requirements of these specifications. Only those products approved by the architect and the Owner ten (10) days prior to the bid date will be permitted as acceptable manufacturers for this project.
 - B. Product manufacturers seeking to be approved as equal to specified products must

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submit both product literature and physical samples of the product for review and inspection, in order to ensure compliance with the specification and the quality standards established herein.

- 1.16 Supplier Qualifications:
 - A. Hardware supplier shall have an Architectural Hardware Consultant, as certified by the Door & Hardware Institute, on staff. The hardware supplier shall have been in business three years prior to commencement of project.
 - B. Hardware supplier shall be located within a 150-mile radius of project site.
- 1.17 Samples: Submit one sample of each item of finish hardware included in your schedule for inspection and approval. Samples may later be used on project.

2.0 REGULATORY REQUIREMENTS

- 2.01 Certification: Submit notarized certification indicating that hardware furnished for labeled doors, and doors requiring physically handicapped access complies with requirements of governing authorities and applicable regulations.
- 2.02 Delivery, Storage, and Handling:
 - A. Marking and Packaging - Hardware items shall be packaged and delivered in their original cartons. The door or item number shall be clearly marked on each individual carton to correspond with those on the approved hardware schedule.
 - B. Include all necessary instructions, templates, drawings, and fasteners for proper installation.
 - C. Delivery - Hardware supplier shall deliver hardware to project and assist in organizing hardware in storage room.
 - D. Storage - Contractor shall provide a separate storage room. The storage room shall have shelves on which to store hardware items. The storage area shall be kept clean, dry, and in neat order at all times.
- 2.03 Coordination: Coordinate work under provisions of Section 01040.
- 2.04 Recap: Hardware supplier shall recap project and supply the Owner with 3 copies of same. Recap shall include door number, lock type, and handing information. All information on this report is the sole responsibility of the hardware supplier for this project! All keying information will be by the Owner.

3.0 WARRANTY AND MAINTENANCE

- 3.01 Warranty: All hardware items, except for those listed below shall have a written one-year limited warranty against defects in workmanship and operation.
- 3.02 The hardware items listed below shall carry the following standard warranties:

A. Door Closers:	10-year warranty
B. Exit Devices:	5-year warranty
C. Locksets	5-year warranty
- 3.03 Written Guarantee: Furnish a written guarantee stating all materials and workmanship are warranted against defects for the time periods listed above. Warranties shall commence

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with the completion and final acceptance of the work. Defects due to faulty materials or workmanship during the guarantee period shall be repaired or replaced at no expense to the Owner.

3.04 Maintenance Materials:

- A. Provide Maintenance materials under provisions of 01700.
- B. Provide special wrenches and tools applicable to each different or special hardware component.
- C. Provide maintenance tools and accessories supplied by hardware component manufacturers.

4.0 LOCATIONS AND DEGREE OF OPENING

4.01 Locations: Hardware locations shall be as follows.

- A. Lever-handle - 38" to 41"
- B. Door Pull - 42"
- C. Deadlock - 48"
- D. Exit Devices - 38" to 41"
- E. Push Plate - 40"
- F. Hinge and Strike - Standard Manufacturers Locations with these exceptions: No more than 9" from the top of the door to the center of the top hinge to accommodate stress and load. Strike location shall be no less than 38" and no more than 41" from the finish floor.

4.02 The recommended hardware locations for the products listed above shall be measured from the finish floor to the center-line of the product.

4.03 Degree of Opening: All doors shall be installed to open 180 degrees, except in cases where the building or an overhead holder or stop restricts the degree of swing.

4.04 Fire Rated Openings:

- A. Provide door hardware for fire-rated openings complying with NFPA 80. Provide only hardware which has been tested and listed for types and sizes of doors required and complies with requirements of designated labels.
- B. Door closers, door holders, and exit devices installed on fire-rated wood doors and hollow-metal doors shall be attached with sex nuts and bolts.

5.0 PRODUCTS

5.01 Finishes:

- A. Hardware finish designations used in the hardware sets shall be those as established by BHMA.
- B. Non-ferrous metals shall be used at areas on exterior doors, directly exposed to the elements. Stainless-steel and solid bronze are recommended.

5.02 Hinges:

- A. All hinges shall be of the 5-knuckle type.
- B. Exterior doors shall have a stainless-steel base metal.
- C. Exterior high frequency doors shall have heavy weight, ball bearing hinges with non-removable pins.
- D. Exterior low frequency doors shall have standard weight, ball bearing hinges with

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- non-removable pins.
- E. Interior doors shall have steel as a base metal, except as otherwise noted.
- F. Interior high frequency doors shall have heavy weight, ball bearing hinges.
- G. Interior low frequency doors shall have standard weight, ball bearing hinges.
- H. The width of hinges shall be sufficient to clear all trim.
- I. Doors 3'-0" wide and under shall have 4-1/2" high hinges.
- J. Doors over 3'-0" wide shall have 5" high hinges.
- K. Exterior hinges shall be stainless steel US32D. Interior doors shall be US26D.
- L. Acceptable Manufacturers:
 - 1) Hager
 - 2) Bommer
 - 3) McKinney (specified)

5.03 Grade 1 Cylindrical Locks:

- A. All lock and latch sets shall comply with ANSI/BHMA A156.2 requirements for Series 4000 Grade 1 and shall be furnished in the function as specified in the hardware sets. All locks shall comply with ICC/ANSI A117.1 accessibility requirements.
- B. Chassis shall be constructed of heavy gauge cold rolled steel dichromate plated and shall be through-bolted outside the 2 1/8" door prep. Latch bolts shall be 2 3/4" back set with deadlocking feature.
- C. Levers shall be solid cast with 3 1/2" diameter rose and shall be free-wheeling in all functions and shall have a lifetime warranty against lever sag.
- D. Subject to compliance with requirements above, provide products by one of the following:

MFG	SERIES	DESIGN
Yale	5400LN	PB
Sargent	10 Line	LP
Corbin Russwin	CL3300	PZD

5.04 Exit Devices

- A. Exit devices shall comply with ANSI/BHMA A156.3 requirements for grade 1 and shall be furnished in the function as specified in the hardware sets. Latch shall be investment cast stainless steel, pullman type with deadlock feature. Plastic or painted end caps will not be acceptable.
- B. Where security exit devices are listed, provide units capable of exceeding 1000lb door pull test. Latch shall be 3/4' throw with slide action positive deadlocking. Outside trim shall be thru-bolted to chassis in two locations.
- C. Devices shall be push pad type meeting NFPA -101 means of egress requirements. Push pads extending the full rail length of device will not be acceptable. Heavy weight impact resistant end caps shall be made of architectural metal, the same finish as the device. Plastic end caps will not be acceptable. Except on fire rated doors, equip exit devices with dogging device to hold the push bar down and the latch bolt in a retracted position.
- D. Exit devices shall be constructed of smooth architectural metals; brass, bronze, or stainless steel, finished Aluminum metal devices will not be acceptable. Devices with exposed painted or powder coated lock style covers will not be acceptable.
- E. Where function of exit device requires a cylinder, provide an interchangeable core type cylinder (Rim or Mortise) as required and keyed as per instructions.
- F. Where exit devices are required on fire rated doors, provide devices that comply

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with NFPA-80 and with UL labeling indicating "Fire Exit Hardware". Provide proper fasteners to install all devices as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements. Note that the quantity and type of fasteners other than those provided and required by manufacturer voids the label and the warranty.

- G. For doors without fire rating, provide devices listed and labeled for "Panic Hardware based on testing according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts for hollow metal doors not prepared for machine screws and all particle board core wood doors.
- H. For devices with lever trim, furnish manufacturers heavy-duty trim with cold forged escutcheons with beveled edges and four threaded studs for thru-bolts. Lever design, material, and finish shall match locks and shall be freewheeling in the locked position. Rigid levers will not be acceptable.
- I. For doors with narrow stiles or as listed in hardware sets, provide devices designed for maximum 2" wide stiles.
- J. When listed in hardware sets provide removable mullions of the same manufacturer as the exit devices. For fire rated openings, furnish removable mullions complying with NFPA-80.
- K. Subject to compliance with requirements above, provide products by one of the following:

MFG	SERIES	SERIES
Yale	7150/7100	7250 /7200
Sargent Manufacturing	88 / 87	85
Von Duprin	HS98/98	35
Corbin Russwin	ED5200(S)	ED4200(S)

5.05 Door Closers:

- A. All door closers shall be the product of one manufacturer to provide for proper installation and servicing.
- B. Door closers shall have a published ten-year warranty. The shell of the door closers shall be cast iron or high pressure cast aluminum.
- C. Door closer cylinders shall be of high strength cast iron or cast aluminum construction to provide low wear operating capabilities of internal parts throughout the life of the installation. All door closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified testing laboratory.
- D. Door closers shall be fully hydraulic and have full rack and pinion action with a minimum shaft diameter of 11/16 of an inch and a piston diameter of 1-1/2 inches to ensure longevity and durability under all closer applications.
- E. Parallel arm mounted door closers shall incorporate a one-piece solid forged steel arm with bronze bushings. 1-9/16 X 1/2" steel stud shoulder bolts shall be incorporated into regular arms, hold-open arms, arms with built-in stops and arms with "hold-open/ built-in stops."
- F. Door closers shall have multi-size spring power adjustment and be capable of the following spring power ranges:
 - 1) Exterior doors: sizes 2 through 6
 - 2) Interior doors: sizes 1 through 4
 - 3) Fire doors: sizes 2 through 6
- G. Door closers shall utilize temperature stable fluid capable of withstanding temperature ranges of 120° F to B30°F, without requiring seasonal adjustment of

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- closer speed to properly close the door.
- H. Door closers shall incorporate tamper resistant non-critical screw valves of V-slot design to reduce possible clogging from particles within the closer. Closers shall have separate and independent screw valve adjustments for latch speed, general speed, and hydraulic backcheck. Backcheck shall be properly located so as to effectively slow the swing of the door at a minimum of 10" in advance of the dead stop location to protect the door frame and hardware from damage.
- I. Door closers, where detailed, shall have fully adjustable delay to hold doors open from a minimum of 15 seconds to a maximum of 1 minute. Doors shall close automatically when delay cycle is terminated.
- J. Regular Arm and Top Jamb mounted door closers shall have a non-hold-open shoe permitting a 15% (+ or B 7-1/2%) power adjustment.
- K. Parallel arm mounted door closers, where detailed, shall provide advanced backcheck for doors subject to severe abuse or extreme wind conditions. Advanced Backcheck shall be located to begin cushioning the opening swing of the door at approximately 45 degrees. Backcheck shall be accomplished by a tamper resistant non-critical screw valve.
- L. Door closers shall be enclosed in a molded plastic cover. Door closers shall have a powder coat finish to provide a minimum 100-hour salt spray test as described in ANSI Std. A156.4 and ASTM B117. Door closers shall have a special rust inhibiting primer applied to them to assist in the prevention of corrosion.
- M. Acceptable Manufacturers:
 - 1) Yale 4400
 - 2) Norton 7500
 - 3) Sargent 351

5.06 Door Trim Units:

- A. Door trim units shall be of the type and design as listed below or in the hardware sets.
- B. Fabricate protection plates (armor, kick, or mop) not more than 2" less than door width on stop side and not more than 1" less than door width on pull side. Refer to door hardware schedule for size. Height shall be 8" or as listed in the hardware sets. Metal Plates: Stainless Steel, .050 (us 18 gauge).
- C. Acceptable manufacturers:
 - 1. Hager
 - 2. Rockwood

5.07 Door Stops and Holders:

- A. In general door stops shall be series wall stops, either convex or concave with proper anchorage as required. Where two interfere with one another, stops shall be coordinated. Where wall stops are not practical, use dome stops of proper height as required. Other stops as listed in hardware sets as required.
- B. Wall mounted or floor mounted holders shall be as listed in hardware sets and be automatic with adjustable holding force. Furnish proper strike as required.
- C. Acceptable Manufacturers:
 - 1) Rockwood
 - 2) Trimco
 - 3) McKinney

5.08 Overhead Stops and Holders:

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- A. Overhead stops and holders shall be the product of one manufacturer to provide for proper installation and servicing.
- B. Overhead stop and holder arms, channels, and slide members shall be manufactured from brass, bronze, or stainless steel. No plastic slide members shall be permitted.
- C. End caps for the overhead stops' and holders' channels shall be manufactured out of steel. Plastic end caps are not acceptable.
- D. Overhead door holders shall engage and release the door automatically by roller cam action with provision for a control knob at the bottom of the channel to engage or disengage hold-open action.
- E. Acceptable Manufacturers:
 - 1) Rixson
 - 2) Glynn Johnson
 - 3) Equals as approved by the architect and the Owner, according to the guidelines which have been set forth for substitutions in these specifications.

5.09 Flush Bolts:

- A. Provide manual, self-latching, or automatic flush bolts where listed in hardware sets. All flush bolts for rated doors shall be approved and shall have UL label.
- B. Provide minimum 1/2" diameter rods of brass, bronze, or stainless steel with minimum 3/4" throw.
- C. Provide dust proof strikes at all locations except where thresholds are shown.
- D. Provide flush bolts as follows:
 - 1) Manual
 - 2) Self Latching
 - 3) Automatic
- E. Acceptable Manufacturers:
 - 1) Rockwood
 - 2) Trimco
 - 3) McKinney

5.10 Lock Guards:

- A. Provide lock guard at all exterior locations without exit devices.
- B. Lock guards shall be minimum 9-1/2" high by 2-1/2" wide and shall have no exposed fasteners on the exterior side.
- C. Acceptable Manufacturers:
 - 1) Rockwood
 - 2) Don-Jo
 - 3) McKinney

5.11 Silencers: All interior wood and metal door frames shall have door silencers type GJ65 or GJ64 or equal. Provide three silencers for single doors and two silencers for pairs of doors.

5.12 Keying:

- A. All cylinders shall comply with the requirements of ANS/BHMA Grade1 and shall have a minimum of 6 pins. All cylinders shall be of the same manufacturer as the lock sets, contractor to verify.
- B. Cylinders shall be interchangeable core type and shall be removable from the cylinder housing with the use of a special control key. All cores shall interchange with all locks and cylinders as listed in hardware sets.
- C. As directed by the owner, provide a factory keyed cylinder keyed into the Owner's

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- existing Key System.
- D. The key system shall be factory based and supported and all cylinders shall be keyed at the factory. All keyways shall be assigned by the manufacturer's key systems administrator based on the systems requirements. Furnish the owner a complete bitting list indicating all bittings generated for this project indexed by key set number and door number.
- E. All keys shall be nickel silver and shall be factory cut. Furnish the following:
 - 3 change keys per cylinder
 - 3 keys for each keyed alike group
 - 3 master keys for each group
 - 3 grand master keys if required
 - 3 control keys
 - 4 key blanks of each keyway
- F. Provide Bitting List to Owner (all projects).
- G. Furnish all change keys with manufacturer's standard key bow.

6.0 EXECUTION

6.01 Examination:

- A. Verify site conditions under provisions of these specifications.
- B. Verify that doors and frames are ready to receive work and dimensions are as indicated on shop drawings and instructed by the manufacturer.
- C. Verify that electric power is available to power operated devices and of the correct characteristics.

6.02 Installation: Install each hardware item in compliance with the manufacturer's instructions and recommendation. Where cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surfaces protections.

6.03 Inspections:

- A. After installation has been completed, adjust and check each operation item of hardware and each door, to ensure proper operation of function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Set units level, plumb, and true to line and location. Adjust the substrate as necessary for proper installation and operation. Set thresholds for exterior doors in full bed of butyl-rubber sealant.
- C. At project close-out, Contractor is to provide a letter from supplier that each hardware set and key operation has been personally verified and is both installed and functioning properly.

6.04 Field Quality Control:

- A. The contractor shall be held responsible for the protection of all items such as hardware, wood doors, steel doors, and frames, until such time as the Owner takes possession.
- 3. Supplier/Manufacturer to personally inspect each hardware set prior to project closeout to ensure each hardware set is installed and functions properly.

6.05 Manufacturers used in the following hardware schedule:

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ITEM	MANUFACTURER (See Individual Subsections)
Closers	Yale / Sargent
Cylinders	Yale / Sargent / Corbin Russwin
Exit Devices	Yale / Sargent / Von Duprin / Corbin Russwin
Hinges	McKinney (MCK)
Kick Plates	Rockwood (RMC)
Locks & Deadlocks	Yale / Sargent
Mag Holders and OH Stops	Rixson (RIX)
Mag Locks, Power Supplies	Securitron (SEC)
Silencers	Rockwood (RMC)
Stops	Rockwood (RMC)
Threshold/Door Bottom	Pemko (PMK) / McKinney / Zero
Weatherstripping	Pemko (PMK)
CTL Reports	Ceco (CEC)

6.06 **Hardware Sets:** The following schedule is furnished for whatever assistance it may afford the Contractor; do not consider it as entirely inclusive. Should any particular door or item be omitted in any scheduled hardware group, provide door or item with hardware same as required for similar purposes. Review remarks on door schedule and floor plans and provide necessary items listed in these schedules that may not be listed in the hardware sets. Quantities listed are for each pair of doors, or for each single door. Provide hardware as specified in the previous articles in sets according to the following schedule:

- 1. MK - McKinney
- 2. PE - Pemko
- 3. RO - Rockwood
- 4. SA - Sargent
- 5. AD - Adams Rite
- 6. RF - Rixson
- 7. NO - Norton
- 8. SU - Securitron
- 9. 00 - Other

Set: 1

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Doors: Offices

Description: Passage/Lock Function

3 Hinge	TA2714 x NRP 4-1/2" x 4-1/2"	US26D MK 087100
1 Office Lock	DG1 21 28 10G05 LB GMK	US26D SA 087100
1 Wall Stop	409	US32D RO 087100
3 Silencer	608	RO 087100
1 Coat Hook	796	US26D RO 087100

(END OF SECTION 08700)

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SECTION 08711 – AUTOMATIC DOOR OPERATOR

1.0 GENERAL

1.01 SUMMARY:

- A. Provide labor, materials, and equipment necessary to furnish and install automatic door operators as shown on the Drawings and as specified herein. The automatic door operator shall consist of the following major components:
 - 1. Power operator
 - 2. Flush wall switch
 - 3. Custom exterior post mounted switch or wall mounted junction box.

1.02 QUALITY ASSURANCE

- A. Automatic door operator shall comply with the requirements of ANSI Standard A117.1.
- B. Automatic entrances shall comply with American National Standard for power operated doors, ANSI A156.19. Provide custom designed installation utilizing slow opening low powered automatic doors, as described in paragraph 1.1.1 of ANSI A156.10, not opening to backcheck faster than 3 seconds and requiring no more than 15 lbf to stop door movement.
- C. Manufacturer: Provide units produced by a firm with not less than 5 years successful experience in the fabrication of automatic door operator units of the type required for this project.

1.03 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION

- A. Automatic door operator shall conform with the Accessibility Requirements Manual from the Florida Department of Community Affairs, Florida Board of Building Codes, FBC 2017, 6th Edition, and Standards.

2.0 PRODUCTS

2.01 MANUFACTURER AND OPERATOR TYPE

- A. Basis of Design: "Senior Swing" by Dor-O-Matic Division, Republic Industries, Inc., Harwood Heights, Illinois.
- B. Products of the following manufacturers are acceptable, providing their products equal or exceed the quality specified and they can provide products of the type, size, function and arrangement required.
 - 1. Horton Automatics, Corpus Christi, Texas, www.hortondoors.com
 - 2. Besam Inc., East Windsor, New Jersey, www.besam.com
 - 3. Norton Door Controls, Charlotte, North Carolina

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- C. Provide materials and equipment necessary for the proper installation of a surface applied "Senior Swing" handicap low energy power operated door system.
 - 1. Unit shall be completely electromechanical with micro compressor control requiring no micro switches on the operator.
 - 2. In the handicap mode the activating switch on either side of the door shall open the door slowly to back check (80 degrees) in 3 to 6 seconds and to fully open position in 4 to 7 seconds. The door shall remain open 5 to 30 seconds. After the time delay the door will close from 90 degrees to 10 degrees in 3 to 6 seconds and from 10 degrees to fully closed in 1½ to 2 seconds. The power boost feature shall increase the closing force from 6 lbf to 15 lbf against wind pressure. Control box and motor/gear box shall be contained in a full door width extruded aluminum housing, 4 ½ inches wide by 5 ¼ inches high, designed for surface applied interior applications.
 - 3. Operator in non-activated mode shall be manual with no push-n-go feature. Opening force shall be a maximum of 5 pounds.
 - 4. Activation Switches: Low voltage stainless steel wall mount type. Switches shall be wired to operating unit. No RF switches required) Button to be 4 to 6 inches in diameter.
 - a. Push button shall activate door when pushed at any point on button face.
 - b. Push button shall not require depressing for a sustained period of time.
 - 5. Provide door decals visible from either side instructing the user as to the operation and function of the door.
 - 6. Door operator shall be installed on stop side of doors. Provide mounting plates, angles, and brackets as required.
- D. Finish: Match aluminum door and frame finish.

3.0 EXECUTION

3.01 INSTALLATION

- A. Installer must examine the doors and frames for which automatic door operators are to be installed.
 - 1. Only one leaf of each pair of doors to receive a power assist shall be active by means of an electronic operator.
- B. Install automatic door operators in strict accordance with manufacturer's instructions.
- C. Automatic door operators shall be installed as a complete system with peripheral items and concealed wiring as required.
- D. Coordinate the time delay setting for holding the door open with the Owner's representative.

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SECTION 08711 – AUTOMATIC DOOR OPERATOR

3.02 ADJUST AND CLEAN

- A. Clean aluminum surfaces and adjacent area. Remove excess dirt and other substances.
- B. Demonstrate operation and maintenance of operator and peripheral items to the Owner.

(END OF SECTION 08711)

SECTION 08300 - SPECIAL DOORS AND ACCESS PANELS

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SECTION 08800 - GLASS AND GLAZING**1.0 GENERAL**

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Codes and Standards:
- A. FS - Federal Specifications
 - B. ASTM - American Society for Testing and Materials
- 1.03 Related Work: Section 08200-Wood Composition and Wood Doors
- 1.04 Product, Storage, and Handling: Deliver just prior to installation, bearing Manufacturer's label identifying quality, type and thickness of glass. Stored glass to be cartoned or crated and protected from damage.
- 1.05 Acceptable Manufacturers: PPG (PPG Industries, Inc.), LOF (Libbey-Owens-Ford Company), CE Glass, PGT Glass Products

2.0 PRODUCTS

- 2.01 Glass: Provide and install following types of interior glass, as scheduled on Drawings. All glass and glazing to be by one Manufacturer. Glazing installer to provide tempered glass at all areas as required to be in compliance with codes.
- A. 1/4" clear polished plate, tempered (interior)
 - B. 3/4" dual glazed, tinted/clear, tempered (1/4 each) gray tinted.
 - C. 1/4" tinted, polished plate, tempered, clear w/mirrored reflective coating or film.
 - D. Exterior Low E glass to have gray tint.
 - E. Impact Glass (additive Alternate).
- 2.02 Glazing Materials:
- A. Glazing materials to comply with combined recommendation glass Manufacturer, and Manufacturer of sealants.
 - B. One Component Silicone Rubber Sealant (1 SRS) - Silicone rubber-based, one-part elastomeric sealant, complying with FS TT-S001543, Class A non-acid type.
 - C. Butyl Rubber Sealant Type (BRST) - Partially-vulcanized, self-adhesive, non-staining, elastomeric butyl rubber type, recommended by Manufacturer for waterproof construction when compressed 35% in dynamically moving joints: not less than 98% solids; no deterioration for 3,000-hour test in Atlas Weather-Ometer.
 - D. Cellular Neoprene Glazing Gaskets (CNGG) - Closed-cell neoprene gaskets with integral skin; extruded or molded to the profiles shown or, if not shown, as required by glazing system with ASTM C-509, Grade 4, black.

3.0 EXECUTION

- 3.01 Weather Conditions: Do not proceed with installation of liquid sealants under adverse weather conditions or when temperatures are below or above Manufacturer's recommended limitations for installation. Proceed with glazing only when forecasted

SECTION 08800 - GLASS AND GLAZING

weather conditions are favorable to proper cure and development of high early bond strength.

- 3.02 **Installation:** Comply with combined recommendations of glass Manufacturer and Manufacturer of sealants and other materials used in glazing, except where more stringent requirements are shown or specified and except where Manufacturers' technical representatives direct otherwise. Cut and install colored (tinted) and heat-absorbing glass as recommended in "Technical Services Report No. 104D" by PPG. Comply with "Glazing Manual" by Flat Glass Marketing Association, except as shown and specified otherwise and except as specifically recommended otherwise by Manufacturers of glass and glazing materials. Unify appearance of each series of lights by setting each piece to match others as nearly as possible. **INSPECT EACH PIECE AND SET WITH PATTERN, DRAW AND BOW ORIENTED IN SAME DIRECTION AS OTHER PIECES.**
- 3.03 **Preparation:** Clean glazing channel or other framing members to receive glass, immediately before glazing. Remove coatings which are not firmly bonded to substrate. Remove lacquer from metal surfaces whenever elastomeric sealants are used. Apply primer or sealer to joint surfaces wherever recommended by sealant Manufacturer. Do not attempt to cut, seam, nip, or abrade glass which is tempered, heat-strengthened or coated. Inspect each piece of glass immediately before installation and eliminate any which have observable edge damage or face imperfections.
- 3.04 **Setting:** Provide minimum 1/4" sealant depth. Where required, provide setting blocks of proper size at recommended spacing. Sash corners to be made weathertight by fabricators. Avoid point loading and metal to glass contact. Non-corrosive metal clips with rounded edges to contact cushions only. Force sealants into channel to eliminate voids and to ensure complete "wetting" or bond of sealant to glass and channel surfaces. Tool exposed surfaces of glazing liquids and compounds to provide substantial "wash" away from glass. Install pressurized tapes and gaskets to protrude slightly out of channel. To eliminate dirt and moisture pockets.
- 3.05 **Cure and Protection:** Cure glazing sealants and compounds in compliance with Manufacturer's instructions and recommendations, to obtain high early bond strength and surface durability. Advise contractor of procedures required for protection of glass and glazing sealants and compounds during construction period so they will be without deterioration or damage (other than normal weathering) at time of School District's acceptance including specific instructions on precautions and provisions required to prevent glass damage resulting from alkaline wash from green concrete surfaces and similar sources of possible damage. Protect exterior glass from breakage immediately upon installation, by attachment of crossed streamers to framing held away from glass. Do not apply markers of any type to surfaces of glass. Remove and replace glass which is broken, chipped, cracked, abraded, or damaged in any other way during construction period, including natural causes, accidents and vandalism.
- 3.06 **Clean-Up:** Clean glazing and trim excess glazing materials from glass and stops or frames promptly after installation; and eliminate stains and discoloration. Clean both interior and exterior of glazing and remove all stickers and excess sealants.

(END OF SECTION 08800)

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SECTION 09111 - METAL STUD FRAMING SYSTEM

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: This Section of the Specifications is intended to cover the furnishing of all labor, material, equipment and/or incidentals necessary to the completion of all requirements of the Drawings, notes, schedules, or implied concerning the installation of metal studs interior partitions and structural stud framing which include but are not limited to: top and bottom runners, studs, internal bracing, partitioning, and blocking and furring.
- 1.03 Related Work:
 - A. Gypsum board field finished and vinyl covered.
 - B. Fire rated gypsum
- 1.04 Codes and Standards:
 - A. ASTM C-645 Non-load bearing steel studs, runners and rigid furring channels.
 - B. ASTM C-646 Load bearing steel studs.
 - C. ASTM C-754 Installation of steel framing members.
 - D. GA-203 Installation screw type framing to secure gypsum board system.
- 1.05 Quality Assurance: Work shall be performed in conformance with ASTM C-754 and GA-203.

2.0 PRODUCTS

- 2.01 Materials:
 - A. 6" and 3-1/2" wide 20 ga. galvanized channel shaped steel studs at 16" O.C., punched for utility access.
 - B. Runners, same material and thickness bent leg retainer, notched to receive studs at 16" O.C.
 - C. Joists shall be 8" Channel, 16 ga. blocked at 1/3 points over all ceilings.
 - D. Structural studs shall be 6", 16-gauge, 16" O.C. with 14 Gauge track.
 - E. Furring and blocking members, same material and thickness. Double where required for furring or boxing of piping.
 - F. Fasteners GA 203.
 - G. Furnish blocking for all plumbing fixtures, wall cabinets, toilet accessories, toilet partitions, and finish hardware. Blocking shall be P.T. wood or steel channels heavy enough to support intended use.

3.0 ERECTION

- 3.01 General:
 - A. Secure top and bottom runners at 16" O.C. and not more than 2" from abutting construction.
 - B. Install studs vertical and not more than 2" from abutting construction.
 - C. Brace stud framing and make rigid at 1/3 points max.
 - D. Coordinate erection of studs with installation of service utilities.
 - E. Coordinate installation of windows, bucks, anchors, blocking
 - F. Stud splicing is not permissible.
 - G. Maintain clearance under structural members to avoid deflection transfer.
- 3.02 Tolerances: Install members to provide a surface plane with a maximum variation of 1/8" in 10 feet in any direction.

(END OF SECTION 09111)

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SECTION 09260 - GYPSUM DRYWALL FINISHING SYSTEM

1.0 GENERAL

- 1.01 Related Documents: The General Provision of the Contract, including the General and Supplementary General and General Requirements, apply to the work in this Section.
- 1.02 Description of Work: The work in this Section includes the furnishings of all labor, materials, and equipment necessary to the completion of all requirements of the Drawings, notes, schedules, and these Specifications concerning Gypsum Drywall.
- 1.03 Standards and Codes:
- A. Florida Building Code 8TH Edition
 - B. SSAGW - American Standard Specifications for Application of Gypsum Wallboard by the American Standards Association
 - C. ANSI/ASTM - C-442 Gypsum Backing Board
 - D. ANSI/ASTM - C-587 Gypsum Veneer Plaster
 - E. ANSI/ASTM - C-588 Gypsum Base for Veneer Plaster
 - F. ANSI/ASTM - C-631 Bonding Compounds
 - G. ANSI/ASTM - C-843 Application of Gypsum Veneer Plastic
 - H. ANSI/ASTM - C-844 Application of Gypsum Base to Receive Veneer
 - I. DGM 09061 - Abuse Resistant Gypsum Wall Board
 - J. ASTM E 90 - Sound Transmission Characteristics / ASTM E 413
 - K. ASTM C754-88 - Standard Specifications for installation of steel framing members to receive screw-attached Gypsum Board
 - L. Underwriters' Laboratories, Inc. - Fire Resistance Rated Assemblies
 - M. ASTM E 119 - Fire Test Response Characteristics
- 1.04 Type of Gypsum Systems:
- A. Standard
 - B. Gypsum Veneer Fire Rated Wall System
 - C. Waterproof Gypsum Backer Board
- 1.05 Guarantee, in writing, for materials and workmanship for a period of one (1) year. The metal stud contractor is to agree to repair or replace components of the drywall cladded system that fail in material or workmanship within the first year after the project is deemed substantially complete.
- 1.06 Inspection: Inspect structures to receive drywall and do not start work until structures are acceptable. Starting drywall work implies acceptance of structures, and structural and non-structural metal framing.
- 1.07 Delivery and Storage: Do not deliver materials until building is dried in. Store materials protected from the weather. Deliver in Manufacturer's unopened, or original packaged bundles, fully identified with Manufacturer's name, brand type, and grade.
- 1.08 Construction Tolerances: Do not exceed 1/8" in 8'-0" variation from plumb or level in any exposed line or surface. Do not exceed 1/16" variation between planes of abutting edges or ends. Shim as required to comply with specified tolerances. Refer to "Recommended Specification on Levels of Gypsum Board finish" as published by the Gypsum Association (and AWCI/CISCA/PDCA) for finish levels required herein.

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1.09 Quality Assurance:

- A. Contractor Qualifications: Employ only experienced Contractors (Installers) skilled in the successful installation of the specified materials and assemblies or similar projects for a minimum of five (5) years. Installers shall be state-certified or licensed Subcontractors, or locally registered Subcontractors in the Owner's County in the State of Florida.
- B. Manufacturer Qualifications: Employ only manufacturers with at least five (5) years' experience making the specified materials as a current catalog and regular production item.
 - 1. Verify that Shop Drawings have been successfully submitted, reviewed, and returned before installation of metal framing. Shop Drawings to include all manufacturers published data on wallboard, stud framing, deflection tracks, furring, suspension channels, fasteners, hangers, and finishing material being proposed.
- C. Source Limitations: Unless specifically noted otherwise, provide products of the same manufacturer for each type of unit specified. This includes studs, channels, rails, brackets, bridging, and fasteners.
- D. Pre-Construction Conference:
 - 1. Review use and installation of specified materials and assemblies with Contractor and Subcontractor.
 - 2. Review acceptable level and quality of finishes with Contractor, Installation Subcontractor, and Painting Subcontractor. Compare to mock-up, if required.
- E. Mock-Up: Before beginning gypsum board installation, install a mockup of at least 100 sf. in surface area to demonstrate aesthetic effects and set the standard for material and execution. The Contractor shall provide a full-size mock-up of the assembly showing all details and finishes. Upon approval, mock-up shall establish acceptable level of quality and may be incorporated into the work. Provide mockup for each finish and level of finish being provided. Apply final decorations indicated, including painting, for review.
- F. Preparation: Provide material and construction identical to those tested for required fire resistance and STC sound ratings as stated in assemblies shown in Contract Documents or as identified within this section of the project manual.

2.0 PRODUCTS

2.01 Acceptable Manufacturers and Specific Products:

- A. Steel Framing and Furring:
 - 1. National Gypsum Company
 - 2. Unimast, Inc.
 - 3. Clark Steel Framing Systems
 - 4. Dietrich Industries, Inc.

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5. Consolidated Systems, Inc.
 6. Gold Bond Building Products
 7. Dale/Incor Industries, Inc.
- B. Deflection Tracks:
1. SLP – TRK by Slip Track System
 2. Snap Track by Total Steel Solutions
 3. Slotted Stud by Steeler, Inc.
- 2.02 **Drywall Types:**
- 5/8" thick Water-Resistant Wallboard (WR Board)
 - Plaster Board (Blue Board) – ASTM C 588 – 5/8" Blue Board (Gold Bond Kal-Kore Plaster Board with tapered edges) – use at VBP designation in schedule and on drawings
 - Tile Backer Board – Durarock Cement Board by US Gypsum Company (use at frame wall assembly for wall tile)
- 2.03 **Single Source Responsibility:** Obtain steel framing from a single manufacturer; obtain Gypsum Board and other related products from a single manufacturer. Any board that has become wet at any point prior to Substantial will be replaced whether finished or not.
- 2.04 **Drywall Accessories:** Fasteners - Provide kind specified and of type and size recommended by Drywall Manufacturer for application shown. Fasteners for securing Gypsum Wallboard to wood furring to be annular ring nails. Fasteners for securing Gypsum Wallboard to metal framing are to be self-drilling screws. Formed metal shall be sheet steel zinc coated by hot dip process. Comply with ASTM C 475.
- 2.05 **Joint Treatment Materials:** Provide joint treatment materials as recommended by Drywall Manufacturer. Provide setting type joint compound (non-lightweight type) for pre-fill around tape embedment coat. Provide drying type (non-lightweight type) joint compound for finish coat. Do not use bent or damaged trim.
- 2.06 **Joint Tapes:** Plain or perforated complying with ASTM C-475, equal to US-Gypsum Imperial Glass Fiber Line Weave Tape in 2-1/2" widths.
- 2.07 **Trim Accessories:** Provide trim accessories of sizes required for drywall applications shown and specified, fabricated from galvanized steel, and of the following types:
- A. At external corners, provide metal corner bead with smooth rigid nose and perforated and knurled flanges.
 - B. For protection of exposed wallboard edges around openings, provide metal casing bead trim of the following design: Beaded hose wit exposed flange knurled for joint treatment.
 - C. Where drywall abuts or intersects dissimilar construction, provide square edge semi-finished casing bead.
- 2.08 **Channels:** Furring Channels – 7/16" deep 325 lbs./1,000 ft. G-90 hot dip galvanized per ASTM A 525.

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- 2.09 **Suspension Treatment:** Metal suspension for veneer plaster base ceiling shall be drywall furring channels on 1-1/2" cold rolled main runner channels (476 lbs./1,000 ft, unless otherwise indicated). Hanger wire shall be 8 Gauge galvanized annealed wire. Tie wires shall be 18 Gauge double-strand galvanized tie wire. Maximum spacing of hanger wires is 4'-0" O.C. (ASTM A 641).
- 2.10 **Isolation of Partitions from Structure:** Where partitions abut deck construction or vertical structural elements, provide slip or cushion-type joint between partition and structure as recommended by Stud Manufacturer to prevent transfer of structural loads or movements to partitions.
- 2.11 **Height of Partitions:** Extend top of partitions above ceiling to deck, unless otherwise show or specified. Stud height and spacing shall be based on L/240 @ 5 lbs./sf.; framing to be minimum 20 ga. @ 16" O.C.
- 2.12 **Drywall Application:** Unless otherwise shown or specified, install Gypsum Drywall, including accessories, in accord with the Gypsum Manufacturer's printed instructions. Install panels vertically with ends of board 3/8" above finish floor.
- 2.13 **Drywall Thickness:** Provide thickness shown, or if not shown provide not less than the minimum thickness recommended by the Drywall Manufacturer for applications shown.
- 2.14 **Butt Joints:** Use boards of maximum size and practical lengths to minimize and butt joints. Where unavoidable, locate end butt joints as far from center of walls or ceilings as possible, and stagger in alternate courses of board.
- 2.15 **Veneer Base Plaster (VBP on Finish Schedule and Details):** Veneer plaster shall be equal to "USG" Diamond Interior Finish, Gold Bond Gypsum Plaster System, (Kal-Kore Wallboard with Hi Abuse Brand Kal-Kore plaster base veneer and upper wall area above 48" AFF Uni-Kal veneer plaster is acceptable) and shall comply with ASTM C-587, or approved equal. Refer to and coordinate with subsection 3.10 Finishing of Drywall. Finish to be smooth.
- 2.16 **Caulking:** (Butyl Rubber) – Refer to Section 07920 of this project manual for specific application and products.

3.0 INSTALLATION

- 3.01 Install Gypsum Board with face side out. Do not install imperfect or damaged boards, or if damp or wet. Butt boards together for light contact and edges or ends with no more than 1/16" open space between boards. Do not force into place.
- 3.02 **Edges or End Joints:** Locate over supports except in horizontal applications or where intermediate supports or Gypsum Board back-blocking is provided behind end joints. Position boards so that tapered edge joints abut and mill-cut or field-cut end joints abut. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite side of partition/walls.
- 3.03 **Additional Framing and Blocking:** Provide as required to support Gypsum Drywall at openings and cut-outs and to support built-in anchorage and attachment devices for other

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work. Coordinate with General Contractor for location of all wall-hung or supported accessories or equipment; install solid wood or other suitable solid blocking to accommodate casework, grab bars, teaching devices, AV Screens, acoustical panels, etc.

- 3.04 **Cutting, Fitting and Trimming:** Accurately measure and precut Gypsum Drywall units prior to installation. Make all cuts from face side by side by scoring and snapping away from face side or by sawing. Complete cut paper on back face. Do not break away paper by tearing. Maintain close tolerance for accurate fit at edges or cutouts with plates and escutcheons. Cut edges smooth as required for neat and accurate fit.

- 3.05 **Joints:** Do not locate joints within 8" of corners of openings, except when control joints are shown at jamb lines or where openings occur adjacent to exterior or interior angles of area. Joints where plaster base abuts masonry or concrete walls or columns shall be caulked.

- 3.06 **Installation of Fasteners:** Begin fastening from center portion of sheet and work toward edges and ends. Ensure contact of drywall with supports by applying pressure on surface adjacent to fastener being driven. Do not locate fasteners closer than 3/8" from edges or ends of sheets. Drive with shank approximately perpendicular to drywall surface. On furred exterior wall applications do not allow drywall fasteners to penetrate through furring to contact masonry. Screws for attaching plaster base to ceiling channels shall be 1-1/4" Phillips head sheet metal screws. Furring channels shall be spaced 16" O.C. Fastener system of type suitable for application indicated; fabricate from corrosion-resistant material with clips or other accessory devices for required attachment and hanging with a capacity to sustain, without failure, a load equal to 10 times that imposed by the ceiling construction as determined by testing per ASTM E 1190 conducted by a qualified testing agency.

- 3.07 **Metal Trim:** At locations where metal edge trim will be installed after Gypsum Drywall, omit drywall fasteners at framing members' adjacent edges, as required to allow for subsequent installation of trim.

- 3.08 **Floating Interior Angle Construction:** At wall-ceiling junctures of Gypsum Drywall construction, provide in accord with Manufacturer's instructions.

- 3.09 **Single Layer Partition/Wall Application:** Apply Gypsum Drywall vertically using floor-to-ceiling length sheets with vertical joints located over stud. Fasten to wood supports with nails or screws, at Contractor's option. Comply with Manufacturer's instructions for fastening, but do not exceed 8" O.C. spacing for screws. Fasten to metal studs or metal furring with screws. Comply with Drywall manufacturer's instructions for fastening, but do not exceed 12" O.C. spacing.

- 3.10 **Finishing of Drywall:** Types of drywall finishing required include:
 - A. Metal trim accessories for wallboard including external corner reinforcement, casing beads, and control joints, if any.
 - B. Joint compound treatment of joints, interior angles, metal trim flanges, and heads of fasteners.
 - C. Veneer Base Plaster Wall finish to be smooth.

- 3.11 **Temperature and Humidity Conditions:** Establish and maintain environmental conditions for applying and finishing Gypsum Board per ASTM C 840 and as recommended by the manufacturer. Do not install joint treatment compounds unless installation areas comply with

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temperature and ventilation requirements recommended by Drywall Manufacturer and conditions are acceptable to installer, especially for drying joint treatment materials. Avoid drafts during hot weather to prevent finishing materials from drying too rapidly.

- 3.12 Finish exposed drywall surfaces with joints, corners, and exposed edges reinforced or trimmed as specified, and with all joints, fastener heads, trim accessory flanges and surface defects fill with joint compound in accord with Drywall Manufacturer's recommendations for smooth, flush surface. Drywall finishing work will not be considered acceptable if corners or edges do not form true, level or plumb lines, or if joints, fastener heads, flanges of trim accessories or defects are visible after the application of field applied decoration. Install control joints as recommended by manufacturer and where framing system is subject to deflection.
- 3.13 Standard Drywall: Use joint tape to reinforce joints formed by tapered edges of butt ends of drywall units and at interior corners and angles. Set tape in joint compound and apply skim coat over tape in one application. Do not use topping finishing compounds for setting of tapes. Where open spaces of more than 1/16" occur between abutting drywall units, except at control joints. Prefill joints with joint compound and allow prefill to dry before application of joint tape. Reinforce external corners of drywall work with specified type of corner bead.
- 3.14 Metal Corner Beads: Securely fasten as recommended by Manufacturer. Do not use fasteners that cannot be fully concealed by joint compound fill applied over flanges. Do not install damaged trim. Comply with ASTM C 1047.
- 3.15 Paper Flanged Corner Beads: Fully adhere to wall board with joint compound.
- 3.16 Metal Casing Bead Trim: Provide specified type. Install in single un-jointed lengths unless run exceeds longest available stock length. Miter corners of semi-finishing type trim.
- 3.17 Installation of Trim: Coordinate with drywall installation where type of trim or application requires installation of trim prior to or progressive with installation of drywall.
- 3.18 Control Joint Strips: Insert into open joint and staple flanges to drywall in accord with Manufacturer's instructions.
- 3.19 Expansion Joints: Provide a control joint where partition, wall, or ceiling traverses a building expansion joint and where wall framing is subject to movement from structural system deflection. Comply with ASTM C 1047. Do not bridge building expansion and control joints with framing, furring, or sheetrock.
- 3.20 Control Joints: Provide control joint in uninterrupted straight planes every 30'-0" (Note that a full height door frame to the ceiling may not be considered a control joint). Comply with ASTM C 1047.
- 3.21 Joint Compounds: Use only compatible compounds from one Manufacturer. After mixing, do not use joint compounds if recommended pot-life time has expired. Allow drying time between applications of joint compound in accord with Manufacturer's recommendations for relative humidity and temperature levels at time of application. In no case, allow not less than 24 hours drying time between applications of joint compound. Apply not less than three (3) separate coats of joint compound over joints, (as identified in subsection 2.15 of this section) fastener heads and metal flanges. Joint compound treatment is not required above suspended ceilings where partition/walls are shown or specified to extend to structural deck or ceiling above suspended ceiling.

SECTION 09260 - GYPSUM DRYWALL FINISHING SYSTEM

- 3.22 Install 3/16" single coat to plus or minus 1/64". Furnish finish coat to a smooth hard trowel finish at soffit and orange peel finish on walls where applicable.
- 3.23 Verify Gypsum board substrate is flat, joints are taped and sanded, and surface is ready to receive veneer base plaster. Verify joint and surface perimeter accessories are in place. Clean surface of dust and loose nails. Remove projections greater than 1/8" and fill depressions greater than 1/8". All veneer base plaster system application shall be by skilled mechanics using such material and methods as will ensure compliance with the requirements of the Drawings and reasonable standard expected of this work.
- 3.24 STC Ratings: Maintain the following general STC ratings:
1. Wall/ceiling assembly between corridors and classrooms: STC 45
 2. Wall/ceiling assembly between adjacent classrooms: STC 45
 3. Wall/ceiling assembly between corridors and offices: STC 50
 4. Wall/ceiling assembly between offices: STC 50
 5. Wall/ceiling assembly at music, dance, theaters, etc.: STC 55
- A. Seal Construction of STC-rated assemblies at perimeters, behind control and expansion joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations.
- B. Comply with ASTM C-919 and manufacturers' written recommendations for locating trim and closing off sound-flanking paths round and through gypsum board assemblies, including sealing around partitions extending above acoustical ceilings.
- 3.25 Primer:
1. Prime finished panels with a quality drywall primer to equalize the porosities between surface paper and joint compound.
 2. Primer shall be made specifically for drywall as recommended by, and the same brand as, the applied final drywall finish (paint or epoxy) manufacturer.
- 3.26 Gypsum Board / Joint Compound Skim Coat Finish Level of Finish:
1. Provide smooth finish in accordance with GA-214-96. All joints and interior angles shall have tape embedded in joint compound and one additional coat of joint compound applied over all joints and interior angles. Fasteners heads, trim flanges, and accessories shall be covered with two separate coats of joint compound.
 2. Joint compound and panel surfaces shall be smooth and free of tool marks and ridges.
 3. Where called for, spray apply finish coat of "smooth pebble" texture of joint compound to all surfaces. Sample texture finish shall be reviewed with Architect and SDOC. Approved sample shall be representative of acceptable level of finish.
- 3.27 Veneer Base Plaster System (VBP):
1. Gold Bond Kal-Kote/Kal-Kore Hi-Abuse Plaster System to be installed in strict conformance with manufacturer's recommendation. Finish is to be smooth; total minimum thickness of 1/8" thick base and finish surface. Upper wall area above level of vandalism can receive single coat Uni-Kal veneer system. Veneer Base Plaster system to be installed by a qualified and trained crew of field mechanics to insure a level of quality control.

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4.0 PROTECTION

4.01 Protection of Finish Work: Installer to advise Contractor of proper procedure for protection of completed drywall work from damage or deterioration until acceptance of work.

4.02 The Contractor shall keep the job free of excessive debris from this work on a daily basis for the duration of the work and upon completion of this work shall remove all debris from the site. This Contractor shall provide protection of other materials that may be damaged by this work. Plaster droppings shall be immediately clean from adjacent materials.

5.0 GUARANTEE

5.01 The Contractor shall hereby agree to guarantee the work of this Section for a period of one (1) year after final acceptance of the project, and to replace free of charge all materials which may have loosened, delaminated, or shown defects due to workmanship.

(END OF SECTION 09260)

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SECTION 09311 - CERAMIC TILE

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: Includes new and match existing ceramic tile.
- 1.03 Standards:
 - A. ANSI A-108.1 Ceramic Tile installed with Portland cement mortar.
 - B. ANSI A-108.4 Ceramic Tile installed with water resistant organic adhesives.
 - C. ANSI A-108.5 & A-118.4 Dry Set Method.
 - D. ANSI A-108.6 Tile setting epoxy.
 - E. TCA 137.1 Tile Council of America Standard.
- 1.04 Quality: Conform to the Tile Council of America installation recommendations and these Specifications.
- 1.05 Master Grade Certification: To be signed by Manufacturer and Subcontractor.
- 1.06 Samples: Furnish two tiles or sheets of each type, color and epoxy grout to Architect for approval.
- 1.07 Owner’s Maintenance Guide: Furnish Manufacturer’s Maintenance Guide for Owner’s use.

2.0 DELIVERY AND STORAGE

- 2.01 Deliver all products in manufacturer’s unopened containers with Grade seals unbroken and labels intact.
- 2.02 Supply 2% of each tile used, in clean marked cartons for Owner’s use.

3.0 MATERIALS

- 3.01 All color, pattern, textures, etc. have been selected from American Olean catalog. Florida Tile or Dal-Tile may submit tile for approval.
- 3.02 Floor and Wall Tiles in Existing Toilet Rooms: Room No.111 Contractor to patch floor and wall tile – refer to photographic documentation and replace toilet partitions and fixtures repaint. Room No.112 Existing Shower Room converted into restrooms, walls to be prepped to receive new 12 x 24 equal to Daltile Volume 1.0 series 12 x 24 wall tile and floor to be quartz poured epoxy.
- 3.03 New Bathroom and Toilet Rooms: Walls to be prepped and tiled with Daltile Volume 1.0 series 12 x 24 wall tile and floor tile to be poured Quartz Epoxy Floor and Shower Floors.
- 3.04 Kitchen floor tile – Remove existing floor tile where delaminating and patch as required.

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- 3.05 Grout: Color per Architect. Grout is to be selected to match as close as possible to existing tile floor.
- 3.06 Provide all the trim, bases, corners, etc. for a complete job.
- 3.07 Floors conventional set 1-1/4 minimum. Walls may be thin set-in conformance with TCA.
- 3.08 Marble saddles or equal shall be installed at all doorways where scheduled or indicated on Drawings and Specifications, and wherever ceramic tile flooring meets dissimilar floor materials. Saddles shall be gray domestic marble, 3/4" x 2-1/2" x LAR as required with beveled top

and honed finish or an approved alternate option approved by the owner. Set as low as possible so as not to impede the passing of wheelchairs or cleaning apparatus. Comply with the most current handicap code.

4.0 INSTALLATION

- 4.01 This work may start after fluorescent lighting is installed (50 FC minimum).
- 4.02 Verify all sub surfaces to be tiled fall under TCA Standards 1/4" in 8' walls, 1/4" in 10' floors. Slope all floors to drains. If drains are installed incorrectly, report to the Contractor and the Architect.
- 4.03 Determine location of all joint movement before starting tile work. Install expansion joints, butyl rods and epoxy grout as recommended by TCA and Architect. Kitchen and restroom to utilize epoxy grout.
- 4.04 Lay out work to minimize cuts less than one half tile. Exact floor pattern will be submitted during the shop drawing review period and contractor can anticipate the use of up to two different color tiles (a primary field color and an accent medallion color option).
- 4.05 Align floor joints to walls. Determine squareness of walls and report discrepancies to the Contractor and the Architect.
- 4.06 Install all tile work with materials specified above intended for their purpose.
- 4.07 Grout to Manufacturer's and TCA's recommendations, and rinse tile work with clean water before and after chemical cleaning.
- 4.08 Great care is to be taken to ensure all grout joints are of the highest quality in workmanship, especially along the ceiling and floor zone. All joints are to be neat, consistent, and free of voids or imperfections. If grout color differs from floor to wall, Contractor shall ensure that color bleeding does not occur.

5.0 PROTECTION

- 5.01 Protect all work from adverse temperatures from 50° F through 80° F and Contractor traffic as recommended by TCA and Manufacturer (3-7 days).

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SECTION 09311 - CERAMIC TILE

5.02 Apply a protective coat of neutral cleaner and cover all work with non-staining construction paper. Remove for Final Inspection and apply with a second coat of neutral cleaner and one coat of tile wax.

5.03 Install plywood continuously after 3-7 days, if construction traffic cannot be rerouted.

6.0 GUARANTEE

6.01 This Contractor shall guarantee the work called for in this section for a period of one (1) year after final acceptance and shall replace free of charge all materials which may have loosened, cracked, or shown defects due to materials or workmanship.

(END OF SECTION 09311)

SECTION 093311 – CERAMIC TILE

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SECTION 09500 - ACOUSTICAL CEILING GRID SYSTEM

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: The extent of acoustical ceilings is shown on the drawings and defined in the Finish Schedules.
- 1.03 Standards:
 - A. ASTM - American Society for Testing and Materials
 - B. FS - Federal Specifications
 - C. UL - Underwriters' laboratories, Inc.
- 1.04 Product: All ceiling panels shall be equal to USG Interior Ceiling System, Armstrong, and Rockfon.
- 1.05 Samples: Submit one sample of each type of the following, for approval:
Acoustical Tiles/Suspension Systems
- 1.06 Layout: Furnish to the Architect, for approval, layout of suspension system and lay-in panel shop drawing for review and approval.
- 1.07 Product Delivery, Storage, and Handling: Deliver the products in their original, unopened packages, containers or bundles, identified by the manufacturers' names and brands. Store the materials to protect them from moisture and contamination. Prevent damage to the materials during handling.
- 1.08 Design Criteria: Provide noncombustible construction, in accord with ASTM E-84 flame spread 0-25, ASTM E-84, Class A (Fed. Spec. SS-S-1188).
- 1.09 Guarantee: Guarantee all acoustical ceilings against defects of materials and workmanship for a period of one (1) year after final acceptance.

2.0 PRODUCTS

- 2.01 Suspension Systems: ASTM C 635-69, MED. DUTY. (2' X 2') Prelude – Colors: White, exception in stage area which is to be black.
- 2.02 Components formed from commercial quality cold steel, electronic-coated, pre-painted low-sheen satin and labeled for fire-resistance classification, direct hung.
- 2.03 Exposed Tee Suspension Systems:
 - A. Cross Tee - Double web design with rectangular bulb; web extended to form positive interlock between cross tee web through intersecting tee web holes; lower-flange extended and offset to provide flush, level intersection. Break at building expansion joint. Install double tees and/or angles.

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SECTION 09500 - ACOUSTICAL CEILING GRID SYSTEM

B. Main Tee - Double web design with rectangular bulb, 15/16" face on exposed lower flange, rolled cap, cross tee holes at 16" o.c., hanger wire holes at 2" o.c. and with integral reversible splice.

2.04 Wall Molding: Channel or angle shape with 1" exposed face, prefinished like system.

3.0 EXECUTION

3.01 Suspension Systems: ASTM C-636-69.

3.02 Tile and Grid Layout: Coordinate with lighting fixtures, air conditioning outlets, columns, and walls to provide neat, symmetrical installation with minimum cuts. Finished installation is to be within tolerance of surface and line not to exceed 1/8" in 12 ft. Use laser for leveling.

3.03 Scheduling: Start acoustical work only after wet work is completed and dried out and conditions are acceptable to installer.

3.04 Supervision: Install in accord with manufacturer's directions and under supervision of manufacturer's representative.

3.05 Installers: Mechanics skilled in application of acoustical materials. Installation is to be performed with clean hands at all times. Contractor may elect to require use of gloves if carelessness is encountered. Construction Manager to coordinate all above ceiling work to eliminate access to ceiling cavity once ceiling tile has been installed (Test and Balance, Mechanical, Electrical, IT and Data, Fire Alarm, etc.).

3.06 Verification: Verify heights with other trades before installation. General Contractor to have a pre-installation coordination meeting with mechanical, electrical, plumbing, steel installer, lite gage metal stud, sheetrock, and ceiling contractor to coordinate all work and minimize double handling of ceiling system.

3.07 Exposed Grid: Direct-hang from structure with hanger wire saddle-tied, as recommended by manufacture, but in no case to exceed 4 feet o.c.

3.08 Wall Molding: Install with case hardened nails at masonry and galvanized nails, elsewhere 24" o.c. to accurate alignment.

3.09 Cleaning: Clean or replace acoustical materials that become soiled during installation.

3.10 Damaged Materials: Remove and replace damaged materials prior to occupancy by Owner.

3.11 Extra Cleaning Tile: Furnish to Owner one unopened box/carton of each type ceiling tiles for his use.

3.12 Light Fixtures: Coordinate with electrical subcontractor the attachment of the light fixtures to the grid, and/or support wiring.

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- 3.13 Mitering: Mitering of all transition members is to be neat and clean with sharp, tight transition mitering.
- 3.14 Gaps: Where gaps occur along the edge of the perimeter wall molding trim, neatly caulk.
- 3.15 Suspension Systems which are not independently supported: Ceiling grid system shall not be supported from ductwork, electrical conduit, heating or plumbing lines, and vice versa. Each utility system and the ceiling grid system shall be a separate installation and each shall be independently supported from the building structure. Where interferences occur, provide trapeze type hangers or other suitable supports for each system. Locate hangers and supports where they will not interfere with access to mixing boxes, fire dampers, valves, and other apparatus requiring servicing.
- 4.0 Ceiling Tile:
- 4.01 Refer to Section 09510 Acoustical Tile.

(END OF SECTION 09500)

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SECTION 09510 – ACOUSTICAL TILE

1.0 SCOPE

- 1.01 This section of the specifications is intended to cover the furnishing of all labor, materials, and/or incidentals necessary to the completion of all requirements of the drawings, notes, schedules, and these specifications concerning the installation of acoustical tile lay-in ceiling panels.
- 1.02 Suspension systems are specified elsewhere.
- 1.03 Standards:
 - A. ASTM - American Society for Testing and Materials
 - B. FS - Federal Specifications
 - C. UL - Underwriters' laboratories, Inc.

2.0 PRODUCTS

- 2.01 A. Ceiling Panels: Ceiling panels for suspended acoustical ceiling shall be 24" x 24, 5/8" thick mineral fiber, 3/4" or 1" thick as required to complement the existing ceiling grid system. Refer to existing site conditions and photographic documentation for existing size and configuration.
- B. All ceiling panels shall be by one of the following manufacturers: USG Interior Ceiling Systems, Armstrong Ceilings, Rockfon, or approved equal. New ceiling tile to complement the existing ceiling grid system.
- C. Provide a minimum of two (2) samples of each type used for approval.
- D. Ceiling tile to be as follows:
 AT-1 Offices, Breakroom, Conference Rooms: Armstrong (or equal) Optima Tegular 24" x 24" x 1" Model No. 3250 with squared tegular edges. 15/16" grid Prelude white.
- 2.02 Product Delivery, Storage, and Handling: Deliver the products in their original, unopened packages, containers, or bundles, identified by the manufacturers' names and brands. Store the materials to protect them from moisture and contamination. Prevent damage to the materials during handing.
- 2.03 Guarantee: Guarantee all acoustical ceiling against defects of materials and workmanship for a period of one (1) year after final acceptance.

3.0 EXECUTION

- 3.01 Installation:
 - A. Acoustical finish materials shall be installed by workman familiar with this type of work.
 - B. Particular attention shall be given to this installation to coordinate with the electrical ceiling fixture installation, as to spacing and layout. Refer to drawings for all ceiling layouts.
 - C. All lay-in panels, when completed and ready for acceptance, shall be clean, neat and installed in workmanlike manner with all panels securely held in place from structure above.

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- D. Acoustical materials that become soiled or damaged during installation shall be thoroughly cleaned (or replaced) before the work is turned over to the Owner.
- E. Contractor shall furnish a minimum of two (2) additional unopened packages of each 24" x 24" acoustical tile panels for storage by Owner to be used for upkeep and replacement.
- F. Do not install ceiling panels until the building is completely closed in and H.V.A.C. system is operational.
- G. If ceiling grid varies from the graphical arrangement illustrated on the drawings consult with Architect for direction. Where possible minimize the use of small tile segments and pieces.
- H. Provide a one (1) year written guarantee of all materials and workmanship this section from date of final acceptance of project. Panels which sag or bow in excess of 1/4" from horizontal shall be replaced at no expense to the Owner.
- I. Installers: Mechanics skilled in application of acoustical materials. Installation is to be performed with clean hands at all times. Contractor may elect to require use of gloves if carelessness is encountered. Construction Manager to coordinate all above ceiling work to eliminate access to ceiling cavity once ceiling tile has been installed (Test and Balance, Mechanical, Electrical, IT and Data, Fire Alarm, etc.).

Note: If perimeter ceiling grid does not fit tight to wall, contractor is to neatly caulk seam to eliminate gaps using caulking matching the color of the ceiling grid.

(END OF SECTION 09510)

SECTION 09510 - ACOUSTICAL TILE

- 09510.2

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SECTION 09520 – ACOUSTICAL & CLOUD PANELS (Additive Alternate)

1.0 SCOPE

1.01 Provide acoustical panel cloud system in open central work area Room No.109 (Bull Pen) as shown on the drawings or inferable there from and/or as specified, and in accordance with the requirements of the Contract documents.

1.02 Quality Assurance:

A. Installer: A firm with a minimum of five (5) years successful experience in the fabrication and erection of acoustical panel units of similar sizes, shapes and finishes to the units required for this project, and which has ample production facilities to produce, furnish and supply the units as required for this project.

1.03 Submittals:

- A. Refer to Section 01300 for submittal procedures and requirements.
- B. Manufacturer's Data: For information only, submit copies of manufacturer's specification and installation instructions to show compliance with these specifications. Indicate by transmittal form that a copy of each instruction has been distributed to the Installer.
- C. Samples: Submit samples of the selected fabric and edge conditions including fire retardant and stain repellent treatments not less than 24" square. Sample submittal and Architect's acceptance shall be for color and texture only and will be kept for the duration of the project. Compliance with all other requirements is the exclusive responsibility of the Contractor.
- D. Shop Drawings: Submit shop drawings indicating the following: Typical sectional views and/or 3D images showing fabric, frame core, substrate and method of attachment; and joints and connection details.
- E. Certification: Submit a certification stating that all panel component parts have been fire retardant treated to meet ASTM E84 Class "A", 0-25 flame spread, that mineral filler is inherently non-combustible, or that it has been fire retardant treated to meet ASTM E84 Class "A", 0-25 flame spread, when tested stretched over wire mesh.
- F. Maintenance Instructions: Submit to Architect for distribution to Owner, two (2) copies of manufacturer's written instructions for maintenance of the acoustical panel covering installation.
- G. Submit test results from an acoustical testing laboratory stating that the sound reduction frequencies conform to the criteria outlined.
- H. During Shop Drawing submission, acoustical contractor to provide general room diagram with the intended design layout based on the supplier's / vendor's products using the Performance Coefficients of Absorption and Reflection applicable to the submitted products. Analysis is to include reverberation times and sound reduction levels at active band frequency from 125 Hz to 4000 Hz and identify room response for occupied, treated, and unoccupied conditions.

1.04 Related Work Specified Elsewhere:

- A. Section 07200 - Insulation
- B. Section 09510 – Acoustical Tile

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SECTION 09520 – ACOUSTICAL & CLOUD PANELS (Additive Alternate)

C. Section 09900 - Painting

1.05 Delivery and Storage:

- A. Lumber for wood grounds, fabrics and core materials shall be delivered to the job site and stored elevated above the floor, in an enclosed space with proper ventilation and protection from damage.
- B. Maintain storage space at ambient temperature of not less than 70° F for at least twenty-four (24) hours before installation.

1.06 Workmanship and Guarantee:

- A. Provide a written guarantee for a period of at least two (2) years from the date of substantial completion that the acoustical panel installation shall remain dimensionally stable year-round and will not sag or distort due to variances in temperature and humidity conditions.

2.0 PRODUCTS

2.01 Acceptable Commercial Manufacturer's:

- A. Basis for Design = TFT (Trend Office Technology) ±48" diameter waffle cloud with suspension and attachment devices.
- B. Equal products by Decoustics and AVL Systems, Inc., Ocala, Florida, CSI Creative (800)213-0653, are approved.
- C. Approved equal by Architect. Refer to Section 01100 – Alternates/Substitutions.

2.02 Materials:

- A. Panels: 1" to 2" thick. Sizes as shown on drawings. Panel installation shall have a minimum NRC rating of .90 when tested in accordance with ASTM-C-423 based on testing mounting "A". Cable suspended.
- B. Edges: Factory edges.
- C. Fabric: Pattern and color will be selected from manufacturer's standard "Silent Collection-Classics" color range by the Architect.

3.0 EXECUTION

3.01 Conditions of Surfaces:

- A. Installer must examine all surfaces to which the panels are to be applied and notify the Contractor, in writing of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. It shall be the responsibility of this Contractor to determine if the atmospheric conditions at the time of installation are appropriate and if the fabric should be cured on the job for a period of time prior to stretching.
- C. Take accurate field measurements of the areas to receive wall panels. Fabricate and assemble panels to fit the areas shown.

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SECTION 09520 – ACOUSTICAL & CLOUD PANELS (Additive Alternate)

3.02 Installation:

- A. Contractor shall provide all necessary accessories, channels, clips, molding, anchor, and/or recommended adhesive for a complete installation.
- B. Fabric panels shall be removable in case of damage and easily replaceable without affecting adjacent surfaces.
- C. Train Owner's permanent maintenance staff in the proper methods of maintaining, removing, installing, and replacing acoustical panels.
- D. Mounting height to be $\pm 16'-0"$ AFF, anticipate 4 rows of 10 clouds. Exact location will be confirmed during shop drawing phase.
- E. All fabric is to be pulled tight and secured to eliminate puckering, pillowing, and untailed edges, and corners. Panels with workmanship issues are to be replaced.
- F. Colors to be selected during shop drawing submission; 2 to 3 colors may be used in each room.

3.03 Cleaning and Protection:

- A. During installation, protect all existing work from damage. Remove all debris.
- B. Immediately after the installation is completed, thoroughly clean all exposed surfaces and finished materials, and restore all damaged surfaces to the complete satisfaction of the Owner and the Architect.

(END OF SECTION 09520)

SECTION 09650 - RESILIENT FLOORING**1.0 GENERAL**

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: The extent of resilient floor and base is shown on the Drawings. Note: Floor patterns will be submitted to the Contractor with color selection for the entire project during Shop Drawing Phase.
- 1.03 Standards:
- A. FS - Federal Specifications
 - B. NFPA - National Fire Protection Association
- 1.04 Samples: Submit full color range samples of the various flooring, base, and carpet for selection by the Architect. Sample submittals will be reviewed for color, texture, and pattern only. Compliance with all other requirements is the exclusive responsibility of the Contractor. Manufacturer to be Tarkett or approved equal.
- 1.05 Manufacturer's Data: For information only, submit two (2) copies of the Manufacturer's Specifications, Maintenance Guide, and Installation instructions for each type of resilient flooring and accessories required.
- 1.06 Product Delivery, Storage, and Handling: Deliver materials to the project site in the Manufacturer's original unopened containers with labels intact. Maintain in the original containers, unopened, free from damage or contamination, as recommended by the Manufacturer. Unless directed otherwise, store materials in original containers at 70° F for not less than 24 hours before and 48 hours after installation.
- 1.07 Environmental Requirements: Maintain the temperature in the space to receive resilient flooring between 70° F and 90° F for not less than 24 hours before and 48 hours after installation.
- 1.08 Acceptance of Surfaces: Prior to installation, inspect the surfaces to receive resilient flooring. Notify the Architect and the Contractor, in writing, if excessive moisture or unevenness or other condition which will prevent satisfactory resilient flooring work. Proceed only when the defects have been corrected, except for correction specified under the EXECUTION portion of this Section.
- 1.09 Guarantee: Guarantee resilient flooring against defects in materials and workmanship.
- 1.10 Flooring shall be of uniform size, thickness and color variations, and pattern in the space. Edges shall be cut square and accurate. The colors shall be as selected by the Architect.
- 1.11 LVT Composite Tile (LVT):
Tile size to be selected from standard manufactured sizes (note: composite flooring to be selected from the full product line to include wood grain pattern series) 6x36 intermixed luxury flooring tile with a "Tectonic" technology finish equal to Tarkett Flooring System, Tarkett ID Latitude Abstract LVT or approved equal

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product. Pattern and color are to be selected by the Architect (pattern to be wood plank style and both 6x36 size intermixed rows tile will be used). Tiles to be Certified 0.00% asbestos by the Manufacturer.

- A. Product to meet or exceed:
 - ASTM F2195 – Linoleum Tile Flooring MCT
 - ASTM D2047 – ADA Slip Resistance
 - EN 425 – Office Chairs with Casters
 - ISO 20717-2 – Impact Sound Reduction of min. 6 db
 - Bacteria Resistance
 - Warranty – Minimum 20 year (thirty years) commercial warranty
- B. Fire Testing:
 - ASTM E662/NFPA258 – Smoke Density
 - ASTM E648/NFPA 253 – Radiant Flux Class 1
 - UCL – S-102-2 – Flame Spread Rating
- C. Chemical Resistance to comply with basis for design.

- 1.11 Adhesive: Use adhesive of the quality and type recommended by the Manufacturer of the resilient flooring materials.
- 1.12 Concrete Slab Primer: Use a non-staining type of primer, recommended by the flooring Manufacturer.
- 1.13 Cleaner: Use the type of cleaner recommended by the Manufacturer of the resilient flooring material.
- 1.14 Crack Filler and Leveler: Use the type of filler recommended by the Manufacturer of the flooring materials. Contractor to police floors and prep the existing conditions as needed prior to installation of new LVT flooring in the Main Lodge Bldg No.1 Great Dining Hall and adjacent meeting room and restroom vestibule.
- 1.15 Seal all gaps at the base of all door frames.

2.0 EXECUTION

- 2.01 Materials shall be firmly and securely bonded to supporting surfaces and cleaned upon completion.
- 2.02 Finish Surfaces shall be of true line and plane, without evidence of humps, breaks, sags, or other defects. Once existing quarry tile has been successfully removed prep floor to address high and low spots that have occurred over the years as required to install new wood plank LVT flooring in the Dining Hall, Offices, Meeting room and Bathroom entry vestibule.
- 2.03 Preparation: Clean dirt, oil, grease and other foreign matter from the surfaces to receive resilient flooring materials. Grout pits, depressions, and cracks more than 1/16" maximum wide, and vacuum clean completely. Prime surfaces if recommended by the Manufacturer of the resilient flooring.

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SECTION 09650 - RESILIENT FLOORING

- 2.04 Adhesive Preparation: Mix and apply in accord with the Manufacturer's recommendations. Protect other surfaces not to receive resilient floor covering. Promptly remove any spillage. Apply sufficient adhesive between the wall and the base without puckers.
- 2.05 Install resilient flooring after finishing operations, including painting, have been completed and the permanent heating system is operating. Moisture content of concrete slabs, building air temperature, and relative humidity must be within the limit recommended by the flooring Manufacturer. Mix and apply adhesive in accord with the Manufacturer's recommendations. Place flooring with adhesive cement in strict compliance with the Manufacturer's recommendations. Butt tightly to vertical surfaces, thresholds, nosings, and edgings. Scribe as necessary around obstructions and to produce neat joints that lay tight, even, and straight. Extend flooring into toe spaces, door reveals and into closets and similar openings. Architect to provide tile pattern layout during shop drawing submittal process, a maximum of two colors to be anticipated.
- 2.06 Marking: Maintain reference markers, holes, or openings that are in place or plainly marked for future cutting by repeating on finish flooring as marked on the subfloor. Use chalk or other non-permanent marking device.
- 2.07 Base: 1/8" rubber base by Johnsonite Wall Base.
- 2.08 Resilient Materials Application: Apply resilient materials as recommended by the Manufacturer. Lay tile at the center of the space and work toward the perimeter. Avoid cuts less than one-half the tile width and cut materials accurately to fit within 1/64" of abutting surfaces.
- 2.09 Cleaning and Protection: Remove any excess adhesive or other surface blemishes, using neutral-type cleaners as recommended by the flooring Manufacturer. Protect installed flooring from damage by covering it.
- 2.10 Finishing: After completion of the project and just prior to a Final Inspection of the work, thoroughly clean floors and accessories.

(END OF SECTION 09650)

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SECTION 09655 - EPOXY FLOORING (Base Bid – Restrooms, Add. Alt. – Kitchen)

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: The extent of nonskid epoxy seamless floor and base in areas of the Restrooms where identified or shown on the Drawings. Product color samples are to be submitted to the Architect for color selection during the Shop Drawing Phase.
 - Base Bid – Restrooms
 - Additive Alternate – Kitchen Area
- 1.03 Standards:
 - A. FS - Federal Specifications
 - B. NFPA - National Fire Protection Association
 - C. USDA, FDA, OSHA Standards
- 1.04 Samples: Submit full color range samples of the various flooring, base and transition strips for selection by the Architect. Sample submittals will be reviewed for color, texture, and pattern only. Compliance with all other requirements is the exclusive responsibility of the Contractor.
- 1.05 Manufacturer's Data: For information only, submit two (2) copies of the Manufacturer's Specifications, Maintenance Guide, and Installation instructions for each type of pre-engineered poured flooring and accessories required.
 - A. Dex-o-tex Cheminert CFS Flooring (908) 245-2800
 - B. Dur-a-flex, Inc. (904) 236-4669
 - C. Plexi-Chemie, Inc. (904) 693-8800.
 - D. Ceilcote UR Corocrete (877) 234 5268
 - E. Stonhard Floor System (800) 854-0310
 - F. Florock Resinous Flooring Company (800) 356-7625
- 1.06 Product:
100% solid color epoxy resin and colored aggregate floor system installed at a minimum thickness of 1/8" thick. Color to be selected from a minimum of 15 colors.
- 1.07 Product Delivery, Storage, and Handling: Deliver materials to the project site in the Manufacturer's original unopened containers with labels intact. Maintain in the original containers, unopened, free from damage or contamination, as recommended by the Manufacturer. Unless directed otherwise, store materials in original containers at 70 degrees Fahrenheit for not less than 24 hours before and 48 hours after installation.
- 1.08 Environmental Requirements: Maintain the temperature in the space to receive the epoxy seamless flooring between 70 degrees Fahrenheit and 90 degrees Fahrenheit for not less than 24 hours before and 48 hours after installation. Follow material's Hazardous Material Identification system labeling guide for proper personal protective requirements.
- 1.09 Acceptance of Surfaces: Prior to installation, inspect the surfaces to receive the epoxy seamless flooring. Notify the Architect and the Contractor, in writing, if excessive

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moisture or unevenness or other condition which will prevent satisfactory epoxy flooring work. Proceed only when the defects have been corrected, except for correction specified under the EXECUTION portion of this Section.

- 1.10 Guarantee: Guarantee resilient flooring against defects in materials and workmanship.
- 1.11 Flooring shall be of uniform size, thickness and color variations, and pattern in the space. Edges shall be square and accurate. The colors shall be as selected by the Architect.
- 1.12 Base shall be an extension of the floor system, transition up wall neat and evenly up to 6" above floor with continuous cove toe and rounded top in standard colors to be selected by the Architect.
- 1.13 Material to be certified 0.00% asbestos by the Manufacturer.
- 1.14 Adhesive: Use adhesive and/or bonding agent of the quality and type recommended by the Manufacturer of the flooring materials.
- 1.15 Cleaner: Use the type cleaner recommended by the Manufacturer of the seamless epoxy flooring materials.
- 1.16 Crack Filler: Use the type filler recommended by the Manufacturer of the flooring materials.

2.0 EXECUTION

2.01 Material

A. Bathrooms – Kitchen Areas – and areas identified in the finish schedule as poured epoxy with integral sanitary base equal to Dur-A-Quartz Flooring, manufactured by Dur-A-Flex, Inc. 100% solid color epoxy resin and colored aggregate floor system installed at a minimum thickness of 1/8" thick. Everlast Epoxy Flooring is an approved equal.

- 2.02 Finish Surfaces shall be of true line and plane, without evidence of humps, breaks, sags, or other defects. All inside corners and edges are to be neat, clean, and free of imperfections and resin buildup.
- 2.03 Preparation: Clean dirt, oil, grease and other foreign matter from the surfaces to receive epoxy seamless flooring materials. Vacuum clean completely. Prime surfaces if recommended by the Manufacturer of the flooring material. Provide all necessary moisture tests required to confirm concrete slab.
- 2.04 Adhesive Preparation: Mix and apply in accord with the Manufacturer's recommendations. Protect other surfaces not to receive seamless epoxy floor covering. Promptly remove any spillage. Apply sufficient adhesive between the wall and the base.
- 2.05 Install seamless epoxy flooring after finishing operations, including painting, have been completed and the permanent heating system is operating. Moisture content of concrete slabs, building air temperature, and relative humidity must be within the limit recommended by the flooring Manufacturer. Mix and apply bonding agent in accord with

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the Manufacturer's recommendations. Place flooring with bonding agents in strict compliance with the Manufacturer's recommendations. Extend flooring into toe spaces, door reveals and into closets and similar openings.

- 2.06 Marking: Maintain reference markers, holes or openings that are in place of plainly marked for future cutting by repeating on finish flooring as marked on the subfloor. Use chalk or other non-permanent marking device.
- 2.07 Materials Application: Apply materials as recommended by the Manufacturer.
- 2.08 Cleaning and Protection: Remove any excess material or other surface blemishes, using neutral-type cleaners as recommended by the flooring Manufacturer. Protect installed flooring from damage by covering it.
- 2.10 Finishing: After completion of the project and just prior to a Final Inspection of the work, thoroughly clean floors and accessories.

3.0 INSTALLATION

- 3.01 Determine location of all joint movement before starting tile work. Install expansion joints, butyl rods and epoxy grout as recommended by TCA and Architect.
- 3.02 Align floor joints to walls. Determine squareness of walls and report discrepancies to the Contractor and the Architect.
- 3.03 Install all tile work with materials specified above intended for their purpose.
- 3.04 Great care is to be taken to ensure work is of the highest quality in workmanship especially along the perimeter floor zone and interior corners. All joints are to be neat, consistent, and free of voids or imperfections. Contractor shall ensure that color bleeding or wicking does not occur by allowing adequate time of curing one color before applying another.
- 3.05 All work to be cut neat, clean and true. Inside corners of cove are to be cut and installed by a skilled craftsman for neat installation. Questionable workmanship will be removed and reinstalled.
- 3.05 Floor drains and floor sinks – slope floor to drain to insure positive drainage of fluids on floor. Coordinate with contractor and concrete slab subcontractor the slope of the floor ±24" each side of the floor drains (FS-1) min. 1/16" per 1'-0".
- 3.06 Base – carry epoxy flooring material up the wall a minimum of 6" for a continuous impervious floor and base system.
- 3.07 Provide min. ±5 gallons of patch material for School District to conduct minor patching.
- 3.08 As part of the project closeout schedule a training period to educate the School District as to the procedures required to clean and maintain the epoxy finish.

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SECTION 09655 - EPOXY FLOORING (Base Bid – Restrooms, Add, Alt. – Kitchen)

4.0 PROTECTION

- 4.01 Protect all work from adverse temperatures from 50 degrees Fahrenheit through 80 degrees Fahrenheit and Contractor traffic as recommended by TCA and Manufacturer (3-7 days).
- 4.02 Install plywood continuous after 3-7 days, if construction traffic cannot be rerouted.

5.0 GUARANTEE

- 5.01 This Contractor shall guarantee the work called for in this section for a period of one (1) year after final acceptance and shall replace free of charge all materials which may have loosened, cracked, or shown defects due to materials or workmanship.

(END OF SECTION 09655)

SECTION 09655 - EPOXY FLOORING

-09655-4

SECTION 09680 – CARPET

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: The extent of carpet is shown on the Drawings. Match existing carpet squares.
- 1.03 Standards:
 - A. FS - Federal Specifications
 - B. NFPA - National Fire Protection Association
 - C. ASTM - American Society of Testing Materials
- 1.04 Samples: Submit full color range samples of the carpet for selections by the Architect. Sample submittals will be reviewed for color, texture, and pattern only. Compliance with all other requirements is the exclusive responsibility of the Contractor.
- 1.05 Manufacturer's Data: For information only, submit two (2) copies of the Manufacturer's Specifications, Maintenance Guide, and Installation instructions for each type of carpet. Manufacturers shall have a five (5) year record of satisfactory installation for consideration.
- 1.06 Product Delivery, Storage, and Handling: Deliver materials to the project site in the Manufacturer's original unopened containers, with labels intact. Maintain in the original containers, unopened, free from damage or contamination, as recommended by the Manufacturer. Unless directed otherwise, store materials in original containers at 70 degrees Fahrenheit minimum, for a minimum of 24 hours before and 48 hours after installation.
- 1.07 Environmental Requirements: Maintain the temperature in the space to receive the carpet between 70 degrees Fahrenheit and 90 degrees Fahrenheit for not less than 24 hours before and 48 hours after installation.
- 1.08 Acceptance of Surfaces: Prior to installation, inspect the surfaces to receive the carpet. Notify the Architect and the Contractor, in writing, if excessive moisture, unevenness or other conditions will prevent satisfactory work. Proceed only when the defects have been corrected, except for correction specified under the EXECUTION portion of this section.
- 1.09 Guarantee: Guarantee carpet against defects in materials and workmanship for one (1) year.
- 1.10 Provide 15-year guarantee from Manufacturer that carpet will not lose more than 10% by weight in 15 years.
- 1.11 Provide lifetime guarantee against defect or deterioration of attached vinyl cushion.

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SECTION 09680 – CARPET

2.0 PRODUCTS

2.01 Carpet shall be uniform in thickness, color, and pattern in the space. Edges shall be cut square, and accurate. The color(s) shall be as selected by the Owner. As many as three different colors may be selected.

2.02 Adhesive: Use adhesive of the quality and type as recommended by the Manufacturer of the carpet.

2.03 Cleaner: Use the types cleaner recommended by the Manufacturer of the carpeting.

2.04 Crack Filler: Use the type filler recommended by the Manufacturer of the carpeting.

2.05 Carpet Squares:

- A. Face Yarn-----50% Lum Ena/50 DuPont Solution Dyed Nylon
- B. Face Weight-----20 min. oz. per sq. yard
- C. Total Weight-----84.7 +/- oz. per sq. yard
- D. Face Const.-----Textured Loop
- E. Rows per Inch-----13
- F. Primary Backing-----10% woven synthetic
- G. Secondary backing-----Vinyl, closed cell Vinyl Cushion
- H. Flammability-----NFPA No. 253 ASTM E-648
- I. Methenamine Test-----DOC-FF-1-70
- J. Static-----NBS 258 DM 450 (.9KV & AATC 134 Test)
- K. Smoke Test-----FPA 258 DM 450 (Mean Ave 450 or Lower)
- L. Size-----24" x 24" Carpet Squares

2.06 Approved Manufacturers: Carpet meeting these Specifications is based on Tarkett's "Flame Edition" on "Flex-Aire" cushion backing or approved equal. Approved manufacturers are J & J Carpets, Tarkett-Tandus, and InterfaceFLOR. All manufacturers and products requesting prior approval, including products and manufacturers, must meet or exceed the carpet criteria identified in subsection 2.05 above. Contractor is to match existing adjacent carpet product.

3.0 EXECUTION

3.01 Materials: All materials shall be firmly and securely bonded to supporting surface and cleaned upon completion.

3.02 Finish Surfaces: Finish surfaces shall be of true line and plane, without evidence of humps, breaks, sags or other defects.

3.03 Preparation: Clean dirt, oil, grease and other foreign matter from the surfaces to receive carpet; grout pits, depressions, and cracks more than 1/16" wide in floors; fill cracks 1/16" maximum wide with crack filler; sand the entire floor by machine, and vacuum clean completely. Prime surfaces if recommended by the Manufacturer of carpet materials.

3.04 Adhesive and Seam Cement Application: Mix and apply in accord with the Manufacturer's recommendations. Protect other surfaces not to receive carpet. Promptly remove any spillage.

SECTION 09680 – CARPET

- 3.05 **Installation:** Install carpet after finishing operations, including painting, have been completed and the permanent heating system is operating. Moisture content of the floor, building air temperature, and relative humidity must be within the limits recommended by the carpet Manufacturer. Mix and apply adhesive in accord with the Manufacturer's recommendations. Place carpet with adhesive cement in strict compliance with the Manufacturer's recommendations. Butt tightly to vertical surfaces, thresholds, nosing, and edgings. Scribe as necessary around obstructions and to produce neat joints, laid tight, even, and straight.
- 3.06 **Marking:** Maintain reference markers, holes, or openings that are in place or plainly marked on the subfloor. Use chalk or other non-permanent marking device. Install flooring on covers for telephone and electrical ducts and other such items as occur within finished floor areas. Install carpet in accordance with the Manufacturer's directions.
- 3.07 **Cleaning and Protection:** Remove any excess adhesive or other surface blemishes, using neutral-type cleaners as recommended by the flooring Manufacturer. Protect installed flooring from damage by covering it.
- 3.08 **Finishing:** After completion of the project and prior to a Final Inspection of the work, thoroughly clean floors and accessories. Vacuum clean the entire carpet installation at completion.
- 3.09 **Extra Carpet:** Provide 2% of each color extra carpet to the Owner for repairing damage after acceptance of job.

(END OF SECTION 09680)

SECTION 09900 - PAINTING

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: The extent of painting work is shown on the Drawings and schedules and specified herein. The work includes the painting and finishing of interior and exterior exposed items and surfaces throughout the project, except as otherwise indicated. "Paint" as used herein means all coating systems materials, including primers, emulsions, enamels, stains, sealers, and fillers; and other applied US26D materials, whether used as prime, intermediate or finish coats.
- 1.03 Painting Not Included: The following categories of work are not included as part of the field-applied finish work or are included in other sections of these Specifications.
- 1.04 Shop Priming: Unless otherwise specified, shop priming of ferrous metal items is included under the various sections for structural steel, miscellaneous metal, hollow metal work and similar items; also, for fabricated components such as architectural woodwork, wood casework and shop-fabricated or factory-built mechanical and electrical equipment or accessories.
- 1.05 Mechanical and Electrical Work: The painting of certain items of mechanical and electrical work is specified in Divisions 15 and 16.
- 1.06 Prefinished Items: Unless otherwise indicated, do not include painting when factory-finishing or install-finishing is specified for such items (but not limited to) architectural woodwork and casework, prefinished windows, prefinished aluminum, fascia, rain drainage and trim, finished mechanical and electrical equipment, including light fixtures, switchgear, and distribution cabinets.
- 1.07 Concealed Surfaces: Unless otherwise indicated, painting is not required on surfaces such as walls or ceilings in concealed areas and generally inaccessible areas, foundation spaces, furred areas, utility tunnels, pipe spaces, duct shafts and elevator shafts.
- 1.08 Finished Metal Surfaces: Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials will not require finish painting, unless otherwise indicated.
- 1.09 Operating Parts and Labels: Moving parts of operating units and mechanical and electrical parts, such as valve and damper operators, linkages, sinkages, sensing devices and motor and fan shafts, will not require finish painting, unless otherwise indicated. Do not paint over any Code-required labels, such as Underwriters' Laboratories, Inc. and Factory Mutual, or any equipment identifications, performance rating, name plates or nomenclature plates.
- 1.10 Submittals-Product Data: For information only submit two copies of the Manufacturer's technical information, including the paint label analysis and application instructions, for each material proposed for use. Transmit a copy of each manufacturer's instructions to the paint applicator.

SECTION 09900 - PAINTING

- 1.11 **Submittals-Samples:** Submit samples for the architect's review of color and texture only. Compliance with all other requirements is the exclusive responsibility of the contractor. Provide a listing of the material and application for each coat of each finish sample.
- 1.12 **Delivery and Storage:** Deliver all materials to the job site in their original, new and unopened packages and containers bearing the Manufacturer's names and labels and the following information:
- A. Name and title of material
 - B. Manufacturer's stock number and date of manufacture
 - C. Manufacturer's name
 - D. Contents, by volume, for major pigment and vehicle constituents
 - E. Thinning instructions
 - F. Application instructions
 - G. Color name and number
- 1.13 Comply with health and fire regulations in the handling and storage of paint materials. Do not store painting materials in the building.
- 1.14 **Environmental Requirements:** Apply paints only when the temperature of the surfaces to be painted and the surrounding air temperatures are between 50 degrees F and 90 degrees F., unless otherwise permitted by the paint Manufacturer's printed instructions. Do not apply paint in areas where dust is being generated and where the illumination is inadequate. Do not apply paint in snow, rain, fog, or mist; when the relative humidity exceeds 85%; or to damp or wet surfaces, unless otherwise permitted by the paint Manufacturer's printed instructions or unless the area and surfaces to be painted are enclosed and heated within the temperature limits specified by the paint Manufacturer, during the application and drying periods.
- 1.15 **Guarantee:** Guarantee all paint products and their application for a period of one year after final acceptance. The guarantee shall cover the replacement of defective material evidences by blistering, spalling, flaking, fading, powdering or any other undesirable characteristics. Failures caused by extraneous sources, such as water leakage or physical abuse, will not be the responsibility of this subcontractor.

2.0 PRODUCTS

- 2.01 **Colors and Finishes:** Paint colors, surface treatments, and finishes are indicated in the SCHEDULES of the contract documents. Prior to beginning the work, the architect will furnish color chips for the surfaces to be painted. Use representative colors when preparing samples for review.
- 2.02 **Color Pigments:** Use pure, non-fading, applicable types of color pigments, to suit the substrates and the service indicated.
- 2.03 **Lead Content:** **ONLY LEAD-FREE PAINT SHALL BE USED.** PPG Painting is an approved equal providing full compliance with this section's requirements.
- 2.04 **Paint Coordination:** Provide finish coats which are compatible with the prime coats used. Review other sections of these Specifications in which prime paints are to be provided, to insure the compatibility of the total coatings system for the various substrates. Upon the request from other trades, furnish information on the characteristics of the finish materials proposed for use, to ensure that compatible prime coats are used. Provide barrier coats

SECTION 09900 - PAINTING

over incompatible primers; or remove and re-prime as required. Notify the architect, in writing, of any anticipated problems in using the specified coating systems with substrates primed by others.

- 2.05 **Material Quality:** Provide the best quality grade of the various types of coatings as regularly manufactured by acceptable paint material Manufacturers. Materials not displaying the Manufacturer's identification as a standard, best-grade product will not be acceptable. Provide an undercoat paint produced by the same Manufacturer as the finish coats. Use only thinners approved by the paint Manufacturer; and use only within the recommended limits. Use paint materials which will withstand normal washing to remove pencil marks, ink, ordinary soiling, etc. without showing discoloration, loss of gloss, staining or other damage.
- 2.06 **Proprietary Names:** The proprietary names used to designate colors or materials are not intended to imply that the products of the named Manufacturers are required to the exclusion of equivalent products of other Manufacturers.
- 2.07 **Paint Systems:** Use products of the paint Manufacturers listed below, unless substitutions are approved in accordance with Division 1 of these Specifications. The approved Manufacturers are referred to as follows:

- G-----Glidden Paint Company
- P-----Pittsburgh Paint Company
- S-W----Sherwin-Williams Paint Company
- Porter---Porter Paints

- 2.08 Provide the following paint systems for the various substrates as indicated Sherwin-Williams is basis for design:

A. Exterior Finish System:

- 1. **Ferrous Metal**
Primer: B66W00310 – Pro Industrial Pro-Cryl® Universal Acrylic Primer
2 Coats: B66W00211 – DTM Acrylic Coating Semi-Gloss
- 2. **Masonry, Stucco & Concrete**
Primer: A24W00300 – Loxon® Concrete and Masonry Int/Ext Latex Paint
2 Coats: A06W00151 – A-100® Exterior Latex Flat
(choose finish)
2 Coats: A82W00151 – A-100® Exterior Latex Satin
- 3. **Masonry, Stucco & Concrete – Waterproofing**
Primer: A24W00300 – Loxon® Concrete and Masonry Int/Ext Latex Paint
2 Coats: A24W00451 – Loxon® XP
- 4. **Steel Piping, Hollow Metal Doors and Trim, etc.**
Primer: B50WZ0004 – Kem Bond® HS High Solids Alkyd Universal Metal Primer
2 Coats: B54W00151 – Pro Industrial Urethane Alkyd Enamel
(or)
2 Coats: B66W00311 – Sher-Cryl HPA High Performance Acrylic Gloss Coating

SECTION 09900 - PAINTING

(water-based option finish)

- 5. **Water Repellent**
Refer to Section 07070 of the Project Manual
- 6. **Liquid Dampproofing**
Refer to Section 07115 of the Project Manual

B. Interior Finish System:

- 1. **Gypsum Drywall**
Primer: B28W04600 - ProMar® 400 Zero VOC Interior Latex Primer
2 Coats: B20W04651 - ProMar® 400 Zero VOC Interior Latex Egg-Shell
- 2. **Plaster and Concrete Walls**
Primer: A24W00300 - Loxon® Concrete and Masonry Int/Ext Latex Primer
2 Coats: B20W04651 - ProMar® 400 Zero VOC Interior Latex Egg-Shell
- 3. **Concrete Block (CMU)**
Primer: B25W00025 - PrepRite® Interior/Exterior Latex Block Filler
2 Coats: K45W00151 - Pro Industrial PreCatalyzed water-based Epoxy
(for Egg-Shell finish)
(or)
2 Coats: K46W00151 - Pro Industrial PreCatalyzed water-based Epoxy
(for Semi-Gloss finish)
- 4. **CMU in Wet Areas: Locker Rooms, Bathrooms, etc.**
Primer: B42W00046 - Heavy Duty Block Filler
2 Coats: B73W00111 - Water based Tile-Clad® Epoxy
- 5. **Hollow Metal Doors & Trim, Miscellaneous Steel**
Primer: B66W00310 - Pro Industrial Pro-Cryl® Universal Acrylic Primer
(Spot Prime Factory-Primed Surfaces)
2 Coats: B66W00211 - DTM Acrylic Coating Semi-Gloss

3.0 EXECUTION

- 3.01 **Surface Preparation (Wood):** Perform preparation and cleaning procedures in strict accord with the paint Manufacturer's instructions and as herein specified, for each particular substrate condition. Remove all hardware, hardware accessories, machines surfaces, plates, lighting fixtures, and similar items in place and not to be finished-painted; or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for the complete painting of the item's adjacent surfaces. Following completion of the painting of each space or area, reinstall the removed items, the work to be done by workmen skilled in the trades involved. Clean the surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to the mechanical cleaning. Program the cleaning and painting so that contaminants from the cleaning process will not fall onto wet, newly painted surfaces. Spotting-in of rubbed-off places in shop coats shall be done by the trade installing the materials, unless otherwise provided, before any field painting is done; and such spotting-in will not be considered as one of the coats specified or called for on the schedules.
- 3.02 **Surface Preparation (Wood):** Clean wood surfaces to be painted of all dirt, oil or other foreign substances, with scrapers, mineral spirits and sandpaper, as required. Sandpaper

SECTION 09900 - PAINTING

smooth those finished surfaces exposed to view; and dust off. Scrape and clean small, dry, seasoned knots; and apply a thin coat of white shellac or other recommended knot sealer, before application of the priming coat. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sandpaper smooth when dried.

- 3.03 **Surface Preparation (Ferrous Metals):** Clean ferrous surfaces which are not galvanized or shop coated of oil, grease, dirt, loose mill scales and other foreign substances, by solvent or mechanical cleaning.
- 3.04 **Surface Preparation (Cementitious Material):** Prepare cementitious surfaces of concrete, concrete block and cement plaster to be painted by removing all efflorescence, chalk, dust, dirt, grease and oils and by roughening as required to remove glaze. Determine the alkalinity and moisture content of the surfaces to be painted by performing the appropriate tests. If the surfaces are found to be sufficiently alkaline to cause blistering and burning of the finish paint correct this condition before the application of the paint. Do not paint over surfaces where the moisture content exceeds that permitted by Manufacturer's printed directions. If concrete or concrete masonry contain excessive voids, pits, burrs or uneven surfaces to permit filling with the specified prime or filler coat and to provide a satisfactory finish surface after normal painting trade preparation procedures, then the Contractor shall be notified for corrective work before proceeding with the painting. Concrete, mortar, plaster, and stucco must be cured at least 30 days at 75° F. The pH of the surface should be between 6 and 9 unless the products used are designed to be used in high pH environments.
- 3.05 **Materials Preparation (General):** Mix and prepare painting materials in accordance with the Manufacturer's directions. Store materials not in actual use in tightly covered containers. Maintain the containers used in storage, mixing and application of paint in a clean condition, free of foreign materials and residue. Stir materials before application to produce a mixture of uniform density; and stir as required during the application of the materials. Do not stir surface film into the material. Remove the film and lumps and, if necessary, strain the material before using.
- 3.06 Apply in accord with the Manufacturer's directions and with the following directives:
- 3.07 Use applicators and techniques best suited for the substrate and the type of material being applied.
- 3.08 Apply additional coats when undercoats, stains or other conditions show through the final coat of paint, until the paint film is of uniform finish, color, and appearance. Give special attention to ensure that all surfaces, including edges, corners, crevices, welds and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
- 3.09 TINT EACH COAT A DIFFERENT SHADE FROM THAT OF THE PRECEDING COAT. FINISH COATS SHALL BE THE EXACT SHADES SELECTED.
- 3.10 Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently-fixed equipment or furniture with a prime coat only, before final installation of the equipment.
- 3.11 Paint interior surfaces of ducts or plenums, where visible through registers or grilles, with a flat, non-specular black paint.

SECTION 09900 - PAINTING

- 3.12 Paint the back sides of access panels and removable or hinged covers to match the exposed surfaces.
- 3.13 Finish all doors on the tops, bottoms and side edges the same as the exterior faces, unless otherwise indicated.
- 3.14 Sand lightly between each succeeding enamel or varnish coats.
- 3.15 Metal work to be concealed upon completion, with the exception of open-web steel joists, shall be give one field coat in addition to the shop coats.
- 3.16 Paint exterior ferrous metal.
- 3.17 Paint prime-coated mechanical equipment, piping and access panels exposed in occupied areas.
- 3.18 Paint equipment room walls and surfaces, unless otherwise scheduled.
- 3.19 Surfaces shall be smooth and free from raised grain or other defects after painting.
- 3.20 Each coat of paint and/or enamel shall be evenly worked out and allowed to dry before any subsequent coat is applied or any rubbing is done, with at least 48 hours drying time allowed between coats.
- 3.21 Edges of paint adjoining other materials or other colors shall be full and clean-cut without overlapping.
- 3.22 Paint exposed ducts and piping, covered or uncovered, unless otherwise scheduled, the same color as adjacent surfaces.
- 3.23 Paint over interior exposed caulking with the color to match the trim of the adjacent wall.
- 3.24 Brush application is required for painting on metal work and for enameling and varnishing of woodwork. Other painting may be applied by spray, rollers, or brushes, at the discretion of the painting subcontractor, as long as all requirements of these Specifications are met.
- 3.25 On metal work to be concealed after the work is finished, use one field coat of paint after the prime or shop coat is spotted-in where scraped off. Paint for concealed metal shall be the same as for exterior metal work.
- 3.26 Omit the 1st coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise indicated.
- 3.27 Scheduling Painting (General): Apply the 1st-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. Allow a sufficient time between successive coatings to permit proper drying. Do not recoat until the paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure and the application of another coat of paint does not cause lifting or loss of adhesion of the undercoat. Repair scratched or rubbed places in final coats before the work is ready for acceptance. Surfaces in areas adjoining special coatings shall be painted after the coating application. Complete painting prior to the installation of the finish flooring.

SECTION 09900 - PAINTING

- 3.28 **Minimum Coating Thickness:** Apply each material at not less than the Manufacturer's recommended spreading rate, to establish a total dry film thickness as indicated; or, if not indicated, as recommended by the coating Manufacturer.
- 3.29 **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.
- 3.30 **Transparent (Clear) Finishes:** Use multiple coats to produce a 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 surface imperfections. Provide satin finish for final coats, unless otherwise indicated.
- 3.31 **Completed Work:** Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work that is not in compliance with the specified requirements.
- 3.32 **Clean-Up:** During the progress of the work, remove from the site all discarded paint materials, rubbish, cans and rags, at the end of each work day. Upon completion of the 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 the finished surfaces.
- 3.33 **Protection:** Protect the work of other trades, whether to be painted or not, against damage by the painting and finishing work. Correct any damage by cleaning, repairing or replacing and repainting, as acceptable to the architect. Provide WET PAINT signs as required to protect newly-painted finished work. Remove temporary protective wrappings provided by others for the protection of their work, after completion of the painting operations. At the completion of the work of other trades, touch up and restore all damaged or defaced painted surfaces.
- 3.34 **Preparation of Surfaces:**
 - A. All surfaces shall be clean-free of dirt, grease and any foreign matter that would adversely affect the adhesion, finished appearance, or protective properties of special coatings.
 - B. If for any reason the surface cannot be properly prepared, the condition shall be reported to the General Contractor or Architect, who will be responsible for rectifying the unsatisfactory condition.
 - C. Coatings shall not be applied to surfaces with a temperature of less than 50 degrees F.
 - D. **Ferrous Metal Surfaces:** Remove all rust, mill scale and weld flux by power tool cleaning, (SSPC-SP-3-63) (Steel Structure Painting Council).
 - 1. Remove weld flux spatters and alkali contaminants by washing with water.
 - 2. Shop coated metal shall be washed free of grease, dirt, oil or dust with mineral spirits. Spot prime bare metal specified rust-inhibitive primer prior to painting, and prime with primer/undercoat as recommended by Manufacturer.

(END OF SECTION 09900)

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SECTION 10110 – VISUAL DISPLAY SURFACES

1.0 GENERAL

1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.

1.02 Description of Work:

- A. Section Includes:
 - 1. Tempered Safety Glass Markerboards
 - 2. Tackboards & Tack Strip

1.03 Referenced Standards:

- A. American Society for Testing Materials
 - 1. ASTM E84 Standard Test Method for Surface Burning Characteristics for Building Materials.
 - 2. ASTM B221 Standard Specification for Aluminum and aluminum Alloy Extruded Bars, Rods, Wires, Profiles, and Tubes.
- B. Porcelain Enamel Institute
 - 1. PEI-1002 Manual and Performance Specifications for Porcelain Enamel Writing Surfaces.
- C. GREENGUARD Environmental Institute
 - 1. GREENGUARD Indoor Air Quality Certified

1.04 Submittals:

- A. Shop Drawings: Provide shop drawings for each type of visual display board required.
- B. Product Data: Provide technical data for materials specified. Include Material Safety Data Sheets, when applicable.
- C. Samples and color charts: Provide Manufacturer's color charts and composition samples of face, core, backing, and trim to illustrate finish, color, and texture, where required.
- D. Manufacturer's Instructions: Provide Manufacturer's installation instructions.

1.05 Quality Assurance:

- A. Manufacturer Qualifications:
 - 1. Manufacturer shall be a firm engaged in the manufacture of visual display boards in the United States.
 - 2. Manufacturer shall have a minimum of 5 years' experience in the manufacture of visual display boards.
- B. Regulatory Requirements: Conforms to applicable code for flame/smoke rating in tackboards in accordance with ASTM E84.
- C. Product Certifications: Provide GREENGUARD Indoor Quality Certified® as applicable.
- D. Operation and Maintenance: Include data on regular cleaning, stain removal, and precautions.

1.06 Project Conditions:

- A. Field measure prior to preparation of shop drawings and fabrication to ensure proper fit.

SECTION 10110 – VISUAL DISPLAY SURFACES

- B. Comply with manufacturer's recommendations for acclimating area for interior moisture and temperature to approximate normal occupied conditions.
- 1.07 Delivery, Storage, and Handling:
 - A. Schedule delivery of visual display boards with spaces sufficiently complete so that visual display boards can be installed upon delivery.
 - B. Store products in manufacturer's unopened packaging until ready for installation.
 - C. Store materials protected from exposure to harmful weather conditions and at temperatures and humidity conditions recommended by manufacturer.
- 1.08 Warranty:
 - A. Submit a "Life of the Building" warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, ¼" thick tempered safety glass markerboard writing surfaces are guaranteed for the Life of the building. Guarantee covers replacement of defective boards but does not include cost of removal or reinstallation.
 - B. Submit a standard warranty, stating that when installed in accordance with manufacturer's instructions and recommendations, Claridge tackboards are guaranteed for one year against defects in materials and workmanship. Guarantee does not cover normal wear and tear, improper handling, any misuse, or any defects caused by vandalism or subsequent abuse. Guarantee covers replacement of defective material but does not include cost of removal or reinstallation.
 - C. Writing Surface Warranty Period: 50 years commencing on Date of Substantial Completion.

2.0 PRODUCTS

- 2.01 Manufacturers:
 - A. Visual Display Board Manufacturer: FULBRIGHT glass boards or approved equal.
- 2.02 Materials for Markerboard and Chalkboard Panels:
 - A. Writing Surface – Manufactured in accordance with Instrumental Aide System Institute's specification.
 - 1. Glass to be frosted using standard color line.
 - a. Natural Color
 - b. FUL BRIGHT color options
 - 2. Glass to be ¼" starphire low iron safety glass.
 - 3. Glass to be free of staining or ghosting.
 - 4. Color; Color charts furnished on request.
 - B. Writing Surface Core:
 - 1. 7/15" Medium Density Fiberboard (MDF) composed of approximately 90% post-industrial waste.
 - C. Writing Surface Backing:
 - 1. Moisture Barrier Back
 - D. Factory Framed Markerboards:

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1. Face Sheet: LCS-III porcelain enamel steel Markerboard.
2. Core Material: 7/16" MDF
3. Backing: Moisture Barrier Back
4. Mounting to be selected from;
 - a. Concealed "Z" clips
 - b. 1" diameter stand-off brackets
5. Glass to have magnetic option included.

2.03 Materials for Tackboard Panels & Tack Strips:

- A. Fabriccork: Vinyl fabric on cork underlay with Duracore backing.
- B. Colors: Select from manufacturer's standard colors.
- C. Thickness: Total laminated thickness of core and covering is 1/2". All thicknesses are nominal.
- D. Factory Framed Tackboards
 1. Tack Surface: Fabriccork
 2. Series: 4
 3. Panel Color: Color charts furnished on request.

2.04 Size:

- A. Refer to floor plan, interior elevations and building sections for Markerboard, Tackboard, tack strip size.

2.05 Fabrication:

- A. Factory assembled markerboard and tackboard units.

3.0 EXECUTION

3.01 Project Conditions:

- A. Verify before installation that interior moisture and temperature approximate normal occupied conditions.
- B. Verify that wall surfaces are true and plumb and are prepared and ready to receive boards.

3.02 Installation:

- A. Delivery factory-built units completely assembled and of dimensions shown in details and in accordance with manufacturers shop drawings as approved by the architect.
- B. Follow manufacturer's instructions for storage and handling of units before installation.
- C. Do not install boards on damp walls or in damp and humid weather without heat in the building.
- D. Install level and plumb, keeping perimeter trim straight in accordance with manufacturer's recommendations.
- E. At full height floor to ceiling installations, coordinate with ceiling grid and flooring/wall base system. (Refer to finish schedule remarks column and interior elevations and plan for locations).

3.03 Adjust and Clean:

- A. Verify that all accessories are installed as required for each unit.

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SECTION 10110 – VISUAL DISPLAY SURFACES

B. At completion of work, clean surfaces and trim in accordance with manufacturer's recommendations, leaving all materials ready for use.

(END OF SECTION 10110)

SECTION 10110 – VISUAL DISPLAY SURFACES

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SECTION 10260 – CORNER GUARDS

1.0 GENERAL

1.01 Description:

- A. This section covers all labor, material, accessories, and appliances necessary for the complete installation of corner guards, where shown in the drawings. Items not mentioned specifically herein, which are necessary to make a complete installation shall also be included.
- B. Corner guards are to be installed on all light gage framed and sheetrock assembly outside corners, wing walls, and columns in areas identified on the floor plan.

1.02 Submittals:

- A. Shop Drawings: Submit shop drawings indicating materials, construction, dimension, locations, connections, and installation details.
- B. Product Data: Submit manufacturer's descriptive literature and installation instructions.
- C. Provide 12" samples of corner guard material specified herein.

2.0 PRODUCTS

- 2.01 Corner guards for all other areas shall be 3/16" thick x 3" x 3" x 48" length with four (4) flush set anchors unless noted otherwise.

3.0 EXECUTION

- 3.01 Neatly install so perimeter edges are tight to wall.

(END OF SECTION 10260)

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SECTION 10500 – STORAGE LOCKERS

1.0 GENERAL

1.01 RELATED WORK

- A. Concrete Work - Section 03300
- B. Concrete Unit Masonry - Section 04200
- C. Gypsum Drywall/Veneer Plaster Base System - Section 09260

1.02 WORK INCLUDED

- A. Comply with general requirements and all documents referred to therein.
- B. Provide all labor, materials, equipment and services to supply and install lockers indicated on the drawings and/or specified herein.

1.03 QUALIFICATIONS

- A. Subject to compliance with all the specifications, the following lockers will be acceptable:
 - 1. Lockers – Storage:
GSS TITAN SERIES (Single Tier Unit with Sloped Top), or approved equal (16-gauge box welded full double pan door)
- B. Alternate manufacturers interested in obtaining approval must adhere to the following minimum requirements:
 - 1. Door specifications.
 - 2. Full length piano hinge that is welded to frame and door.
 - 3. Single point latching system.
 - 4. Gauge of steel.

1.04 SUBMITTALS

- A. Provide shop drawings clearly indicating the material being supplied and showing all gauges according to the enclosed specification.
- B. Provide all necessary instructions where lockers are to be attached to walls.
- C. The Architect reserves the right to request sample lockers for inspection, testing and for any alternates to specification.

2.0 PRODUCTS

2.01 MATERIALS AND PRODUCTS

- A. Size: Bunk Room – Single Tier, full height units with sloped top.
- B. Steel: Doors, Frames, and Bodies – new, cold rolled steel free from imperfections.
- C. Bodies: Pre-painted Steel where the prime coat and second coat of paint are applied at the mill in a continuous coil coating procedure bonding the paint to the steel and producing a harder paint finish than available with post painting.

2.02 FABRICATION

- A. Fabricate the work true to dimensions, square, plumb and level. Accurately fit members with hairline joints. Secure intersecting members with appropriate fastenings.
- B. Fabricate the finished work free from distortion and defects detrimental to appearances and performance.

SECTION 10500 - STORAGE LOCKERS

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SECTION 10500 – STORAGE LOCKERS

- C. Bodies:
1. Locker: Locker sides shall be fabricated from 16-gauge cold rolled steel. Locker backs shall be formed from 16-gauge cold rolled steel with right angle flanges on the vertical side. Tops, bottoms, and shelves shall be formed from 16-gauge cold rolled steel flanged on all sides. The edges shall be suitable formed to provide a rigid assembly when bolted or riveted together.
- D. Frames shall be welded together from specially formed channel sections of cold rolled steel. Provide two rubber door grommets on the lock side of the frame. Incorporate ventilation slots at top and bottom of frames.
- E. Doors shall be made with the 16-gauge outer door panel formed with channels on both sides and the top and bottom. The 24-gauge full size inner door panel shall cover over the back of the pocket to eliminate vandalism, be formed with channels on both sides, interlocked with the outer panel, and metal inert gas (MIG) welded together at the top, bottom and both sides on the back surface edges of the door. The box welded door assembly shall be 1 1/8" thick. Single pan outer doors with partial inner door reinforcing pans are not acceptable. The door shall close on the 16-gauge frame member with a 5/8" wide closure strike the full height of the door and shall fit flush with the outside of the frame. The door shall be hung on a 16-gauge continuous one-piece integral right-hand hinge and frame.
- F. Single Point Latching shall be through an 18-gauge single piece deep-drawn double chrome-plated recessed pocket. The single piece 12-gauge channel formed hasp shall be welded to both legs of the 16-gauge channel formed frame member. Riveted hasps are not acceptable. Doors shall close on two sound-deadening rubber grommets.
- G. Number Plates shall be inset into the chrome-plated door pull and numbered as directed by the architect.
- H. The Single Tier lockers shall have a shelf located approximately 14" below the top. The Single Tier and Double Tier locker compartments shall have 3 zinc-plated round-tipped metal coat hooks, attached to locker body. The Triple Tier shall have one double prong ceiling hook.
- I. Trims, Slope Tops and Bases: All Trim, Sloping Tops, and Bases will be manufactured from 16 gauge cold rolled steel. Corridor locker units to receive a 3/4" thick laminated particleboard countertop with a radiused exposed edge.
- J. Finish: All cold rolled surfaces shall be thoroughly cleaned before painting with a phosphoric, acid based cleaner. The parts shall be finished with an abrasion and graffiti resistant electrostatically applied Polymer Powder Coating baked with the proper temperature/time relationship to ensure a tough, durable finish. Color shall be selected from the Manufacturer's standard color chart.

3.0 EXECUTION**3.01 INSTALLATION**

- A. Examine surfaces to receive the work of this Section and proceed only if conditions are satisfactory.
- B. Verify all dimensions on the site before proceeding with shop work.
- C. Install the work true to dimensions. Accurately secure joints and intersecting member with fastenings.

(END OF SECTION 10500)

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SECTION 10522 - FIRE SAFETY

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this section.
- 1.02 Description of Work: This section of the specifications intended to cover the furnishing and installing Fire Safety items. These items have no particular relationship to each other or to other branches of the work. This section includes the following: Fire Cabinets, Hoses, and Fire Extinguishers.
- 1.03 Shop Drawings: Provide shop drawings and/or product data for all items. Showing dimensions. Layout, construction details and installation details.
- 1.04 Samples: Provide samples when normally required for color and finish selection.
- 1.05 Product Delivery, Storage, and Handling: Deliver items cartoned, crated, wrapped, or otherwise protected from shipping hazards. Damaged items are to be removed from the site and replaced with new, undamaged items at no cost to the Owner.
- 1.06 Guarantee: Provide a one-year guarantee against defects in materials and workmanship for all items and/or as called hereinafter. Units are to be certified to reflect the date of substantial completion and will have a minimum one-year certification period.

2.0 PRODUCTS AND EXECUTION

- 2.01 Fire Extinguishers:
 - A. Manufacturers: Products of the following manufacturers, provided they comply with requirements of contract documents, will be among those considered acceptable:
 - 1. Amerex Corporation
 - 2. Ansul Fire Protection/ A Grinnell Company
 - 3. Figgie Fire Protection
 - 4. Buckeye Fire Equipment Co.
 - 5. Fire-End & Croker Corporation
 - 6. General Fire Extinguisher Corporation
 - 7. Potter-Roemer Division/ Smith Industries, Inc.
 - 8. Walter Kidde, The Fire Extinguisher Co.
 - 9. Fire extinguisher cabinet manufacturer
 - B. Fire Extinguishers FEC1-Exterior Surface Mounted Refer provided by Owner.
 - 1. Rating: 4A:60B:C (Multi-use dry chemical).
 - 2. Type: Multipurpose dry chemical (ammonium phosphate)
 - 3. Cabinet mounted.
 - 4. Size: 1016
 - 5. Rating K at kitchen
- 2.02 Cabinets and Cabinet Accessories:
 - A. Manufacturers: Products of the following manufacturers, provided they comply with requirements of contract documents, will be among those considered acceptable:

SECTION 10522 - FIRE SAFETY

1. J. L. Industries
2. Larsen's Manufacturing Company
3. Modern Metal Products, Division of Technico
4. Potter-Roemer Division/Smith Industries, Inc.
5. Samson Metal Products, Inc.
6. Thomas Enterprises
- B. Cabinet FEC1-Semi-Recessed Surface Mounted:
 1. To house one extinguisher; Extinguisher: FEC1
 2. Size: Large enough to house fire extinguisher.
 3. Style: Semi-recessed steel cabinet.
 4. Single flat door:
 - a) Narrow vertical glazing panel
 - 1) Tempered glass, 1/4 inch thick.
 - 2) Clear.
 - b) Door material: Aluminum, satin anodized. Color: Aluminum, satin anodized.
 - c) Surface mounted door handle, with word "Fire" on it.
 - d) Friction or roller catch.
 5. Trim (box flange or frame): Same material and finish as door.
 6. Box: Manufacturer's standard material and construction.
 7. Provide wall bracket for extinguisher, inside cabinet.
- C. Hinges: Provide hinges for each door; concealed or continuous type; allow full 180 degree opening of door.
- D. Refer to Section 10950(2.04) of the Project Manual for additional requirements.

3.0 EXECUTION

3.01 Installation:

- A. Perform installation in accordance with the manufacturer's instructions except where more stringent requirements are shown or specified, and except where project conditions require extra precautions or provisions to ensure satisfactory performance of the work.
- B. Install cabinets at locations indicated on drawings (locate fire extinguisher cabinet adjacent to each exterior door and one in the lobby for a total of three (3) units).
- C. Locate one wall hung fire extinguisher in each mechanical and electrical room.
- D. Install so that top of cabinet is 48 inches above finish floor.

(END OF SECTION 10522)

SECTION 10535 – EYEBROW CANOPIES (Add Alternate)**1.0 GENERAL**

- 1.01 Related Documents: The General Provisions of the Contract, including the General Conditions, Supplementary Conditions and Special Conditions, (if any), along with General Requirements, apply to the work specified in this section.
- 1.02 Description of Work: Provide aluminum eyebrow canopies where shown on the drawings, as specified herein, and as needed for a complete and proper installation.
- 1.03 Related Work: Installation Drawings for the project signed, dated, and sealed by a Registered Architect or Professional Engineer holding a current license from the Department of Professional Regulations of the State of Florida.
- 1.04 Quality Assurance: Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- 1.05 Delivery, Storage, and Handling: Materials shall be properly stored in designated areas prior to use.

2.0 PRODUCTS**2.01 Manufacturers**

- A. All pre-engineered aluminum eyebrow canopy systems as herein specified shall for the purpose of establishing a standard of quality and general configuration desired be as manufactured by: Sundance Metals, Orlando, FL (407 493-5052, Peachtree Protective Covering, Dittimer, Perfection Architectural Systems Custom Screens & Architectural Products, Inc (407-227-1028), Preferred Products, and Architectural Metal Systems, CRL Aluminum Products (800-421-6144), or approved equal.

2.02 New Materials:

- A. Roof Panels: 6063 alloy heat-treated to a T-6 temper. Color selected from Bronze, or approved equal.
- B. Perimeter Beam: 4 x 6 x 0.0093 & 0.0186 6063-T6 extruded painted aluminum. Color Fire Engine Red or equal to CRL's Decorative Deck Band # Deck BDIC.
- D. Fasteners: 18-8 stainless steel.
- E. Sealants and Caulking: See Section 07920.
- F. Incidentals: Shapes, materials, and trim members as drawn, detailed, or implied and/or required for proper installation and appearance.
- G. Brake Metal: 0.030 aluminum flat sheet, painted color required.
- H. Other shapes and materials shall be furnished as required to produce an acceptable installation.
- I. Alternate Roof Panel: LAR x 2-1/2" x Gauge 3004- H34 roll formed.
- J. Structural design for wind forces shall comply with ASCE 7-10 for Alachua County. Provide signed and sealed engineered shop drawings by a Florida Registered Engineer.

SECTION 10535 – EYEBROW CANOPIES (Add Alternate)

3.0 EXECUTION

3.01 Samples of Fabrication:

- A. Contractor shall provide a sample of each item and connection required by these Specifications.
- B. Fabrication shall be with fasteners as specified. Bolts shall have a washer at each end. SMS's shall have a flat washer at each location.

3.02 Workmanship:

- A. Only skilled mechanics with at least three years of on-the-job experience shall be employed to perform metal work.
- B. Work shall conform to dimension and elevation and to details contained in the project drawings.
- C. Sloppy or unsightly work shall be the basis for rejection. Rejected work shall be immediately removed and re-installed properly.
- D. The Architect shall be the judge of unacceptable work.

3.03 Installation:

- A. Beams:
 - 1. Beams shall be placed in wall notch and secure as required by the manufacturer's engineer at each contact point.
 - 2. Perimeter beams shall have contact bearing at wall and at tension rod angling from outside edge of canopy back to the pre-engineered metal building system.
 - 3. Top of beams shall be level to receive roof panels.
 - 4. Roof panels shall drain rainwater into beams as indicated.
 - 5. Minor connections and incidental details shall be as shown on the drawings or revealed from site inspection of tie-in conditions.
- B. Roof Panels:
 - 1. Roof panels shall be fabricated to required lengths.
 - 2. Install level and square to beams to avoid "out of square" conditions at ends of beams.
 - 3. Secure each contact point with three (3) minimum faster with 3/4" flat washers.
 - 4. Installation of electrical junction boxes (if required in the electrical scope of work) and conduit clips is not to penetrate the lower extrusion members used to drain water from the canopy system. Any and all penetrations are to be sealed and made watertight. Contractor is to use compression or tension clips where possible.
- C. Fascia:
 - 1. Install fascia shown using fasteners as required by the manufacturer.
 - 2. Fabricate corners to approved detail.
- D. Expansion Joints: Expansion joints shall be located as required to avoid undue distortion of the system.
- E. Caulking and Sealing:
 - 1. Caulk at walls where eyebrow canopy units contact surface.
 - 2. Fabrication joints and seams shall be caulked away from view.
 - 3. Other points where water penetration might be expected.
- F. Dimensions:

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SECTION 10535 – EYEBROW CANOPIES (Add Alternate)

1. Contractor shall verify all dimensions existing and provided.
 2. Contractor shall make reasonable adjustments in fabrication and erection to provide an acceptable finished walkway cover.
 - G. Tension Rods:
 1. Tension rods shall be equal to CRL Canopy tension rod and end fittings; square size equal to No. AW9SQM w/#270120 rods or approved equal.
 2. Brackets refer to exterior elevations.
 - H. Exposed Under Brackets – refer to exterior elevation profile.
- 3.04 Clean-Up: After completion of the work and before the final inspection the Contractor shall:
- A. Remove all unused materials and equipment.
 - B. Leave the area in a neat, clean and acceptable condition.
 - C. Clean the eyebrow canopy system of dirt, grease, handprints, or other unsightly areas.

(END OF SECTION 10535)

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SECTION 10600 – ACCORDION WALLS

1.0 SCOPE

- 1.01 This section of the specifications is intended to cover the furnishing of all labor, materials, and/or incidentals necessary to the completion of all requirements of the drawings, notes, schedules and these specifications relating to motorized operable wall system.
- 1.02 Refer to Alternates Section for work to be bid as an Alternate.

2.0 OPERABLE WALL

- 2.01 Furnish and install operable wall panels as shown or implied on drawings. Installation to include all required components to ensure a complete installation as if they were specified which include and are not limited to all required miscellaneous incidentals.
- 2.02 Operable wall shall be equal to Modern Fild Accordion Doors & Partitions, Sound Master Series with an STC rating of no less than 40. Panel construction shall be non-combustible, Class "A" material. Systems equal to Hufcore, Modernfold, and Kwik Wall are approved to bid. Other manufacturers require seven (7) days prior to approval.
- 2.03 Suspension system shall be of continuous roll formed 11ga (min.) steel track engineered to anchor to a structural steel beam or poured-in-place concrete roof deck as required to support the units loads and forces.
- 2.04 Stack Width: 9"
- 2.05 Operation: Manual
- 2.06 Finish: Fabric or Carpet
- 2.07 Height: ±9-7"
- 2.08 Refer to floor plan for location configuration and advise Architect of any conditions unique to manufacturer's product no later than shop drawing phase for coordination purposes.

3.0 INSTALLATION OF OPERABLE WALL

- 3.01 Operable wall shall be installed by manufacturer's authorized representative, plumb and true and shall operate smoothly and easily without binding or excessive force.
- 3.02 Operable wall shall be neatly scribed and fitted to the existing conditions of the building with ceiling track set straight and true and nominally flush with finished ceiling.
- 3.03 Walls shall be free of exposed screws or other fasteners and free of tool marks, and its operation smooth.
- 3.04 Warranty period shall be of one (1) year from date of final acceptance.

(END OF SECTION 10600)

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SECTION 10800 – TOILET ROOM PARTITIONS

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: This section of the Specifications intended to cover the furnishing of all labor, materials, and incidentals necessary for the completion of all requirements of the drawings, notes, schedules, and these specifications concerning toilet partitions.
- 1.03 Included in this section are solid plastic toilet and partitions. Contractor should examine the drawings carefully for other items that fall under this section.

2.0 TOILET PARTITIONS

- 2.01 Toilet partitions shall be solid plastic toilet compartments as manufactured by Santana Products, Inc., or approved equal, floor mounted, overhead braced.
- 2.02 Pilasters, partitions, and doors shall be solid plastic, stiles and doors are to be 1" thick solid plastic, panels are to be 1" thick plastic panels.
- 2.03 Solid plastic core. Doors and panels to have a minimum fifteen (15) year warranty against delamination, corrosion, or breakage even under severe moisture conditions. Support pilasters are to carry up to and be secured to the ceiling and ceiling framing.
- 2.04 Partitions shall be equipped with the following:
 - A. Wrap around hinge. Type 6463-T5 Alloy aluminum extension with clean anodized finish. Through-bolted to door and stile with theft resistant, one-way screws fastened into threaded metal inserts.
 - B. Door latch with shock resistant nylon track slides into 1" (25 mm) wide keeper formed from one piece 1/8" aluminum. Keeper withstands vandals from kicking door in and is through-bolted to stile with theft-resistant, one-way screws fastened into threaded metal inserts.
 - C. Vinyl coated door stops resist vandals from kicking door out.
 - D. Continuous wall brackets are full height plastic and secure panels to stiles and walls.
 - E. Provide ceiling anchoring with all required structural blocking above ceiling. Overhead cross bracing is unacceptable.

3.0 SHOP DRAWINGS

- 3.01 Provide shop drawings and/or product data for all items. Showing dimensions. Layout, construction details, and installation details.

4.0 SAMPLES

- 4.01 The Contractor shall submit samples of solid plastic for the Architect's color selection. Note: Premium colors required.

5.0 GUARANTEE

- 5.01 Toilet partitions shall be guaranteed for fifteen (15) years as outlined in subsection 2.03 of this Specification.

(END OF SECTION 10800)

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SECTION 10810 – TOILET ROOM SPECIALTIES

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: This section of the Specifications intended to cover the furnishing of all labor, materials and incidentals necessary for the completion of all requirements of the drawings, notes, schedules, and these specifications concerning toilet room specialties, such as grab bars, polished plate mirrors, soap dispensers, toilet paper holders, toilet partitions, and towel dispensers.
- 1.03 Shop Drawings: Provide shop drawings and/or product data for all items. Showing dimensions. Layout, construction details and installation details.
- 1.04 Samples: Provide samples when normally required for color and finish selection.
- 1.05 Product Delivery, Storage and Handling: Deliver items cartoned, crated, wrapped, or otherwise protected from shipping hazards. Damaged items are to be removed from the site and replaced with new, undamaged items at no cost to the Owner.
- 1.06 Guarantee: Provide a one-year guarantee against defects in materials and workmanship for all items and/or as called hereinafter.

2.0 PRODUCTS AND EXECUTION

- 2.01 Furnish and install toilet room accessories of quantities shown. Accessories are based on products manufactured by Bobrick Dispensers, Inc. Similar products by Accessories Specialties, American Dispenser Co., or equal, will be acceptable providing products are equal to those specified. Contractor shall carefully coordinate sizes of recessed equipment with rough wall opening sizes.
- 2.02 Grab Bars: 1-1/2" diameter, type 304, Knurled grip stainless steel exposed mounting 42" and 36" long, equal to Bradley No. 812 series as shown on Plans. Refer to floor plan for location. Grab bar size and location to be in full compliance with most current ADA code, and each handicap water closet is to be equipped with a rear wall grab bar with the appropriate lengths and mounting locations.
- A. All bathrooms & toilet rooms – provide the following:
1. One (1) Model 800-012 at each of the water closets.
 2. Two (2) Model 800-036 shower grab bars in each large shower stall.
 3. Adjust length as required to accommodate size of shower compartment.
- 2.03 Mirrors, Polished Plate: Restrooms, toilet rooms and shower rooms 1/4" polished plate, glass mirrors, No. 1 quality, electrolytically copper plated sized 24" x 30" and located as shown in drawings. Bobrick Disp. Inc. Handicap Tilt Mirror #740-2430 (One each lavatory.) Approved equal: Bradley.
- 2.04 Lavatory Shield: Furnish and install an ADA approved lavatory shield at each wall hung sink unit equal to "TRUEBRO" (800-340-5969). Color to match lavatory. Provide all

SECTION 10810 – TOILET ROOM SPECIALTIES

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SECTION 10810 – TOILET ROOM SPECIALTIES

- miscellaneous incidentals to ensure complete installation. Coordinate with plumbing casework subcontractor.
- 2.05 Soap Dispensers: Install one at each lavatory. Type to be Bobrick B-112, Bradley 6531, or 6583. Approved Equal: Bobrick.
 - 2.06 Soap Dish: Install one in each shower. Type to be Bradley Model #9001 or approved equal.
 - 2.07 Toilet Paper Holders: At each new water closet, mount on toilet partition or wall Owner provided paper holder.
 - 2.08 Towel Dispensers: Provide one for each toilet, Install Owner provided towel dispensary units.
 - 2.09 Toilet Partitions: Refer to Section 10800 of this Project Manual
 - 2.10 Shower Seat: Model 9563 Bradley toilet specialties (Bunk Room) total 2 units.
 - 2.11 Baby Changing Table: Provide one baby changing station equal to Bradley Model #9611 – to be located in public family toilet room exact location in space to be determined at time of installation; maximum projection 4"

(END OF SECTION 10810)

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SECTION 10950 - MISCELLANEOUS SPECIALTIES

1.0 GENERAL

- 1.01 Related Documents: The General Provisions of the Contract, including the General and Supplementary General Conditions and General Requirements, apply to the work specified in this Section.
- 1.02 Description of Work: This section of the Specifications intended to cover the furnishing and installing miscellaneous specialty items. These items have no particular relationship to each other or to other branches of the work. This Section includes the following:

ADA Signage ♦ Identification Signage
- 1.03 Shop Drawings: Provide shop drawings and/or product data for all items. Showing dimensions, layout, construction details, and installation details.
- 1.04 Samples: Provide samples when normally required for color and finish selection.
- 1.05 Product Delivery, Storage, and Handling: Deliver items cartoned, crated, wrapped, or otherwise protected from shipping hazards. Damaged items are to be removed from the site and replaced with new, undamaged items at no cost to the Owner.
- 1.06 Guarantee: Provide a one-year guarantee against defects in materials and workmanship for all items and/or as called hereinafter.

2.0 PRODUCTS AND EXECUTION

- 2.01 A.D.A. Wall Mounted Signage:
 - A. Utilize screws and expansion anchors at block walls mounted on wall at 5'0" above finished floor to center of sign, on latch side of door. Colors of signs are to be selected by Architect. White letters and Grade 2 Braille; letters to be a minimum of 5/8" (16 mm) high, 1/32 raised and readable by the blind in accord with ADA Standards.
 - B. Character proportion shall have a width of height ratio between 3:5 and 1:1 and a stroke width to height ratio between 1:5 and 1:10.
 - C. One sign for each space (name on plan) shall receive ADA signage - All toilets accommodating Handicapped shall receive ADA toilet accessibility signage and pictorial, Offices to have name slot.
 - D. Provided by Owner
- 2.02 Identification Signage: Furnish and install identification signage with letter or symbols as specified below. Signage design numbers or styles are those as manufactured by Kay Enterprises (352-732-8467), Scott Sign System (800-237-9447) or approved equal. Provide one number for each space and Room Name signage at entrances into each space in full compliance with ADA of 1990. (See Floor Plan for Room Names. Refer to Section 2.01 of this Section of the Specifications.) Approved Manufacturers are: Best Signage, and Mohawk Signage. Provide two (2) complete color sample chains to be used for color selection presentation boards. Note: Room numbers and signage provided by owner.

(END OF SECTION 10950)

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SECTION 11400 – RESIDENTIAL & LIGHT COMMERCIAL KITCHEN EQUIPMENT

1.0 SCOPE

- 1.01 This section of the specifications is intended to cover the furnishing of all labor, materials, and/or incidentals necessary to completion of all requirements of the drawings, notes, schedules and these specifications concerning new kitchen equipment.
- 1.02 The following specifications are based on equipment sold by Whirlpool Brand, General Electric, Frigidaire, Kitchen Aid, and Hoshizaki America, Inc., which are acceptable manufacturers.
- 1.03 Shop drawings shall be submitted for approval of all pieces of equipment. Shop drawings shall be submitted in sufficient time for coordination between the various trades involved. Shop drawings shall include installation methods, details, and dimensions. Architect shall select colors from standard manufacturer's colors.
- 1.04 Colors to be selected from standard black, almond, or white and will be defined during the shop drawing review period.

2.0 EQUIPMENT (as Specified or Approved Equal)

- 2.01 Refrigerator equal to ~~GE Model No. CDE20GSHSS Bottom Freezer Refrigerator, Energy Star 20.3 cu. ft. unit, as shown on the drawings. Kitchen Area (1 unit). To be Defined.~~
- 2.02 Countertop Microwave Oven equal to ~~GR Profile #PEB7226EHES with integral turntable. Location: Kitchen Area (1 unit). To be defined.~~

3.0 INSTALLATION

- 3.01 The contractor shall provide and install all kitchen equipment by the manufacturer's installation instructions.

4.0 WARRANTY

- 4.01 The kitchen equipment shall have a full one-year warranty on parts and labor

(END OF SECTION 11400)

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SECTION 12321 – PLASTIC LAMINATE CLADDED CASEWORK

1.0 GENERAL

1.01 Scope of Work:

- A. Provide all plastic laminate and accessory items as specified herein. Refer to plans for specific details and requirements.
- B. General Conditions: The General Conditions, Supplementary Conditions, Special Conditions, and General Requirements apply to all work in this Division.
- C. Casework contractor to carefully relocate the existing library shelving to the new media center Bldg. No.2 repurposed cafetorium.

1.02 Related Work Specified Elsewhere:

- A. General millwork and custom cabinetry unless specified herein or so noted on plans as included within this Division.
- B. Rubber, vinyl or another finished toe base.
- C. Lock master keyed to room doors and other special locks.
- D. Blocking within the walls.
- E. Sinks, faucets, fittings, traps, stops, tail pieces, vacuum breakers, and other fixtures, electrical and mechanical runs and connectors.
- F. Fixture installation/services connections: Setting and installation of equipment and fixtures and related utility connections are provided under the other sections of the Project Specification governing that utility.

1.03 Submittals:

- A. Submit in accordance with General, Supplementary, and Special Conditions.
- B. Submit shop drawings for approval in the form of four prints. Show materials, dimensions, cabinet-cut details, and sink locations.
- C. Samples of colors shall be submitted upon award of contract for selection and coordination with other suppliers. Architect may request and retain samples and catalog cuts as required for accessory and special items.

1.04 Qualifications:

- A. Drawings and specifications are based upon casework as provided by The Barfield Group, 6512 NW 39th Avenue, Gainesville, Florida 32606, (352) 505-6197 or approved equal.
- B. Casework of other nationally recognized casework manufacturers may be considered for approval provided written statement of specification compliance, with request bid, is received ten (10) days prior to opening of bids. Casework must conform to design, quality of materials, design intent, workmanship, and exact performance function of casework components and detail specified and implied by manufacturer's reference, and as shown on plans regardless of the manufacturer's "product standards."
- C. Manufacturers request approval shall submit evidence of at least 5-years of experience and installations for similar type of project. Manufacturers shall also

SECTION 12321 – PLASTIC LAMINATE CLADDED CASEWORK

show evidence of financial stability, plant facilities, catalogs, and specifications. Full-sized base, and wall cabinet samples, catalogs, and specifications shall be submitted with written request along with detailed list of compliance and deviations from those documents for approval. Samples will be impounded by Owner and retained until completion of job for verification and compliance of specifications.

- D. The following performance details are project requirements and must be met by all Bidders whether named herein or approved by Addendum. Deviations will not be allowed.
 - 1. ADA-Americans with Disabilities Act Requirements: The special requirements specified herein shall be met, where specifically indicated on architectural plans as "ADA" or by general note. Is to be in compliance with Federal Register Volume 56, No. 144 Rules, and Regulations.
 - 2. Lamination System: Doors shall be composed of minimum 3/4-inch core, laminated with GP 28 high pressure plastic laminate and interior shall be Melamine.
 - 3. Structural Cabinet Body: Cabinet backs shall be minimum 1/2-inch-thick, inset from rear of body, fully housed four sides. Provide 1/2-inch-thick stiffeners glued and fastened to back/body as specified herein.
 - 4. Interior Space: All cabinets shall have clear span interiors. No vertical dividers allowed. Tall cabinets over 6 ft. high shall have at least one fixed shelf.
 - 5. Heavy Components: Wall cabinets, tops, and bottoms, shall be 1 inch thick for additional load support.
 - 6. Structural Drawer Body: Drawer body material shall be 1/2" particle board, top edge banded with .010" PVC banding. Bottom shall be 1/2" thick non-racking particle board which is carried directly by "L" shaped bottom mount drawer guides. Sides are secured with 1-1/2" screws directly through the bottom. Corners are to be joined with wooden fluted dowels and glue; 32 mm o/c.
 - 7. Drawer Suspension: Drawer slides shall be self-closing design, epoxy power coated, with positive unstop, out-stop, and out-keeper. Dynamic (operational) load rating is to be minimum 100 lbs. Minimum 150 lb. Static load rating.
 - 8. Structural Cabinet Support: Cabinet sub base shall be a separate and continuous ladder-type platform design leveled and floor mounted prior to cabinet body placement. Materials are to be 2"x4" pressure treated lumber. No cabinet sides-to-floor will be allowed.
- E. Architect/Owner's opinion and decision shall be final in the evaluation of manufacturer's products for approval to bid or award of contract.

2.0 PRODUCTS

- 2.01 Materials:
 - A. Decorative Laminate:

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1. High pressure plastic laminate, 0.28-inch thickness, for exterior cabinet surfaces shall meet NEMA LD3-1995 GP28 standards including thickness.
 2. Color Selection Available:
 - a. A minimum of 300 colors and patterns will be offered, to be chosen from Wilsonart standard colors. Maximum of 2 colors per project, including premium colors.
 - b. Direction of wood grain to be vertical on doors, end panels, fascia panels, and exposed backs; horizontal on drawer faces, aprons, and top rails.
 3. Plastic Laminate Balancing Sheet: shall be high pressure cabinet liner, .028 inch thick. Use for balancing exterior surface laminates. Color to match interior color.
 4. Countertop High Pressure Plastic Laminate with 6" high Splashes:
 - a. High pressure plastic laminate, textured finish .050-inch thickness. Color shall be custom designed by the Architect.
 5. Thermally Fused Laminate: Behind doors only in color chosen by Architect.
 6. Open Cabinets to be .028 vertical grade.
- B. High Performance Particle Board Core: Door and drawer front only.
1. Particleboard to be 47 lb. Density, of balanced 3-ply construction with moisture content not to exceed 8%. Particleboard shall conform to ANSI A208 1-1993, type M-3.
- C. Edging Types: Provide one or more of the following in accordance with Paragraph 2.01.E, "Edging Locations."
1. FlatEdge PVC, .020 inch. Solid, high impact, purified, color-thru, acid resistant PVC edging machine-applied with hot melt adhesives, automatically trimmed face, back, and corners for uniform appearance. Manufacturer's option of .028-inch high-pressure plastic laminate if PVC match is unavailable.
 2. 3 mm thick PVC. Solid, high impact, purified, color-thru, acid resistant, pre-lamination primed edging, machine-applied with hot melt adhesives, automatically trimmed, inside/outside length-radiused for uniform appearance, buffed and corner-radiused for consistent design.
- D. Edging Locations: Provide the above-specified edging types at the following locations. Of the following colors:
1. Door/drawer front edge and cabinet sides, tops, bottoms, and leading edge of all shelves: 3mm PVC selected from 45 standard colors. All four sides of all shelves.
 2. Drawer body: Flat Edge PVC - .020 inch.
- E. Hardware:
1. Hinges:
 - a. Heavy duty, five-knuckle 2-3/4-inch institutional type hinge shall meet

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ANSI/BHMA A156.9 Grade 1 requirements. Mill ground, hospital tip, tight pin feature with all edges eased, Hinge to be full wraparound type of tempered steel .095 inch thick. Each hinge to have minimum 9 screws, #8, 5/8-inch FHMS to assure positive door attachment.

- b. Two hinges per door to 48-inch height. Three per door over 48-inch height. Hinge to accommodate 13/16 inch thick-laminated door and allow 270-degree swing.
- c. Finish to be Brushed Chrome or Black epoxy coated.
- 2. **Pulls:**
 - a. Aluminum Wire design, 96 mm in Brushed Chrome finish, or Nylon in White, Black, or Stone Gray.
 - b. Recess design, Nylon, 96 mm, in Black, or Stone Gray.
- 3. **Drawer Slides:**
 - a. Standard Drawer: Bottom mounted epoxy coated with captive roller and positive in stop. Slide shall have 100# rating and self-closing in the last 3" of travel.
 - b. File Drawers: Full extension, 3-part progressive opening slide, minimum 100 lb., epoxy coated.
 - c. File Drawer Accessory: Pendaflex rack.
 - d. Paper Storage Drawers: Full extension, 3-part progressive opening slide, minimum 100 lb., zinc plated, or epoxy coated at manufacturer's option.
- 4. **Catches:** Catch can be magnet type and provide opening resistance in compliance with the Americans with Disabilities Act.
 - a. Provide one top-mounted magnetic catch for base, wall, and tall cabinet door. Catch housing is to be zinc plated.
 - b. Roller catches for mobile cabinets.
- 5. **Adjustable Shelf Supports:** To be twin pin design with anti tip-up shelf restraints for both 3/4 inch and 1-inch shelves. Design to include keel to retard shelf slide-off, and slot for ability to mechanically attach shelf to clip. Static load rating is to be minimum 800 lbs. per shelf. Cabinet interior sides shall be flush without shelf system permanent projection. Color is clear plastic.
- 6. **Wardrobe Rod.** To be 1-1/16-inch rod supported by flanges at each end.
- 7. **Coat Hooks:**
 - a. Single coat hooks, wall mount – Satin Aluminum
 - b. Double coat hooks, wall mount – Satin Aluminum
 - c. Top mounted double ceiling hook – Satin Aluminum
- 9. **Mail Box Slots:**
 - a. Removable Masonite Dividers

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- b. Routed Slots / Tracks at 6" O.C.

- 10. **Locks:** See Plans – keyed per classroom.
 - a. Hinged doors and drawers National Lock No. C8053 14A
 - b. Sliding doors, 13/16-inch thick, National Lock No. C8060 14A
 - c. 1/4-inch sliding panel doors, National Lock No. C8741.26

- 12. **Under-Counter Support Brackets:**
 - a. Double plywood with HPL finish.

- 13. **Grommets:** As required by Architect

- 2.02 **Construction:**
 - A. **Detailed requirements for Cabinet Construction:**
 - 1. **Sub-Base:**
 - a. Cabinet Sub-Base: To be separate and continuous (no cabinet body side-to-floor), water resistant exterior grade plywood fastened to cabinet bottom. Ladder-type construction of front, back, and intermediates to form a secure and level platform to set cabinets upon.
 - 2. **Cabinets, Tops, Bottoms, and Sides:** Shall be 3/4" thick exterior grade plywood.
 - a. Solid sub-top to be furnished for all base and tall cabinets.
 - 3. **Cabinet Ends:**
 - a. Holes drilled for adjustable shelves and various hardware 32mm on center.
 - b. Exposed exterior cabinet ends to be laminated with high pressure plastic laminate, balanced with .028 interior surface.
 - 4. **Fixed and Adjustable Shelves:**
 - a. Thickness: All shelves to be 1".
 - b. All Tall Cabinets to have a minimum (1) fixed shelf.
 - 5. **Cabinet Backs:**
 - a. Cabinet back to be 1/2" plywood, fully housed into sides, top, and bottom, recessed 7/8 inch from cabinet rear.
 - b. Hang rails shall be glued to rear of cabinet back and mechanically fastened to cabinet sides. Provide minimum of 1 at base, 2 at wall, and 3 at tall cabinets.
 - 6. **Door and Drawer Fronts:** (Flush Inset Doors & Drawers)
 - a. Laminated door and fronts to be 13/16 inch thick for all hinged and

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- sliding doors. Drawer fronts and hinged doors are to overlay the cabinet body. Maintain a maximum 1/8-inch reveal between pairs of doors, between multiple drawer fronts within the cabinet.
- b. Stile and Rail doors to be 13/16 inch thick with full 1/4-inch plate glass. Available hinged or sliding. All exposed lite-opening edges are to be trimmed and glazed with extrude vinyl glazing bead.
 - c. Frameless sliding glass doors to be 1/4-inch-thick plate glass with round and polished edges. Fitting with anodized aluminum shoes and nylon rollers.
7. **Drawers:**
- a. Drawer fronts shall be applied to separate drawer body component sub-front.
 - b. Drawer sides shall be doweled and blued to receive front and back, machine squared and clamped until glue is set.
 - c. Drawer bottom shall be 1/2-inch-thick particle board creating a complete platform for the drawer box. Bottom is to be secured to drawer slides with 1-1/2" screws.
 - d. Paper storage drawers fitted with full width hood at back.
 - e. All drawers shall have roller guides as specified under paragraph 2.01 F.4.
8. **Vertical and Horizontal Dividers:** One of the following is indicated by cabinet number:
- a. Natural hardboard 1/4 inch thick, smooth both faces. Secured in cabinet with molded plastic clips or grooves.
 - b. Laminate 3/4-inch .028 thickness. Secured with molded plastic clips or dowels.
9. **Door/Drawer Front Rail:** Provide minimum 3/4-inch x 5-inch x full width cabinet body rails immediately behind all door/drawer and multiple drawer horizontal joints to maintain exact body dimensions, close off reveal, and be locator for lock strikes.
10. **ADA-Americans with Disabilities Act Requirements:** The following special requirements shall be met, where specifically indicated on architectural plans as "ADA" or by General Note. To be in compliance with the Federal Register Volume 56, No. 144, Rules and Regulations:
- a. Countertop height with or without cabinet below, not to exceed a height of 34 inches A.F.F. (Above Finished Floor), at a surface depth of 25 inches.
 - b. Knee space clearance: to be minimum 27 inches A.F.F., and 30 inches clear span width.
 - c. 12-inch-deep shelving, adjustable or fixed: not to exceed a range from 9 inches A.F.F. to 54 inches A.F.F.
 - d. Wardrobe Cabinets: to be furnished with rod/shelf adjustable to 48

SECTION 12321 – PLASTIC LAMINATE CLADDED CASEWORK

inches A.F.F. at a maximum 21-inch shelf depth.

- e. Sink Cabinet clearances; in addition to 10. a., b., upper knee space frontal depth is to be no less than 8 inches, and lower toe frontal depth is to be no less than 8 inches, and lower toe front depth to be no less than 11 inches at a point 9 inches A.F.F., and as further described in Volume 56, Section 4.19.
- f. Catches are to have a maximum resistance of 5 pounds.

B. Countertops:

- 1. General purpose grade high pressure plastic laminate bonded to particle board core. Thickness as shown on the plans. Underside to be properly balanced with backing sheet. Furnish counter tops with edge treatment and profile as shown on the shop drawings. Whenever possible provide continuous lengths. Provide field joints as required using adhesive and tite-joint fasteners. No joints within 24" of a sink cut-out. Sink tops to be plywood.

C. Display Case Doors:

- 1. Display Case Doors to be equal to Blumcraft of Pittsburgh (412) 618-2400.
- 2. Series 1301 – SM Display Doors with perimeter trim. Trim to be selected from standard advertised finishes.
- 3. Glass is to be 3/8" clear annealed laminated or 1/2" thick tempered.
- 4. Coordinate placement and installation within the plastic laminated display box and coordinate all necessary blocking and special requirements.

D. Workmanship:

- 1. All exposed exterior cabinet surfaces to be .028-inch-high pressure laminate, color as selected from casework manufacturer's standard selection from Wilson Art or Formica. Laminate surface/balancing liner to core under controlled conditions, by approved and regulated lamination. Natural-setting hybrid P.V.A. Type III water resistant adhesives that cure through chemical reaction, containing no health or environmentally hazardous ingredients, are required. Methods requiring heat are not allowed; "contact" methods of laminating are not allowed.
- 2. Cabinet parts shall be accurately machined and bored for premium grade quality joinery construction utilizing automatic machinery to insure consistent sizing of modular components. End panels shall be doweled to receive bottom and top.
- 3. Back panel shall be fully housed into, and recessed 7/8 inch from the back of cabinet sides, top, and bottom to insure rigidity and a fully closed cabinet. Cabinet back shall be shimmed from rear of body for tight interior fit.
- 4. Drawer to be platform type design, with 1/2-inch bottom. Side is to be doweled together and secured to bottom with 1-1/2" screws. "L" shaped drawer slide to be mounted at bottom corner of drawer box.
- 5. 3/4-inch-thick hang rails shall be mechanically fastened to end panels of all wall, base, and tall cabinets for extra rigidity and to facilitate installation.

SECTION 12321 – PLASTIC LAMINATE CLADDED CASEWORK

3.0 EXECUTION

3.01 Coordination:

- A. Coordinate work of this Section with related work of other Sections as necessary to obtain proper installation of all items.
- B. Verify site dimensions of cabinet locations in building prior to fabrication.

3.02 Installation of Laminate Cladded Casework & Relocated Library Specialty Shelving:

- A. Storage and protection: Casework shall be protected in transit. Store under cover in a ventilated building not exposed to extreme temperature and humidity changes. Do not store or install casework in building until concrete, masonry, and drywall/plaster work is dry and building temperature and humidity are stabilized.
- B. Workmen: Install casework under the supervision of the manufacturer's representative with factory-trained mechanics certified by manufacturer.
- C. Workmanship:
 - 1. Erect casework straight, level, and plumb and securely anchor in place. Scribe and closely fit to adjacent work. Cut and fit work around pipes, ducts, etc.
 - 2. Install all items complete and adjust all moving parts to operate properly.
 - 3. Leave surface clean and free from defects at time of final acceptance.
- D. Guarantee: All materials shall be guaranteed for a period of five (5) years from manufacturer's defects and workmanship.
- E. Clean Up: Remove all cartons, debris, sawdust, scraps, etc., and leave spaces clean and all casework ready for Owner's use.

3.03 Relocated Library Shelving Installation:

(END OF SECTION 06410)

SECTION 14240 – MACHINE-ROOMLESS (MRL) ELEVATORS**1.0 GENERAL****1.01 Related Documents:**

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

1.02 Summary:

- A. This Section includes the complete installation of a Machine-Roomless (MRL) elevators and related 1HR rated shaft and doors and all necessary electrical:
1. Handicap accessible passenger elevator bases for design is the Ameriglide Hercules Hybrid VPL.
 2. Refer to sub section 2.01.

- B. Related Sections: The following sections contain requirements that relate to this Section:

1.03 Definitions:

- A. Machine-Roomless (MRL) elevators are hereby defined to include systems in which cars are hoisted either directly or indirectly by action of a MRL traction driver and other components of the work including drive components, car enclosures, hoist way entrances, control systems signal equipment, guide rails, electrical wiring, roping, buffers, and devices for operating, dispatching, safety, security, leveling, alarm, leveling device maintenance, and similar required performances and capabilities, emergency phone.

1.04 Submittals:

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specifications Sections.
- B. Product Data for each principal component or product of each elevator, including certified test reports on required testing. Indicate capacities, sizes, performance and operating characteristics, features of control system, finishes, and similar information. Indicate any variations from specified requirements.
- C. Shop Drawings including dimensioned drawings showing plans, elevations, sections and large-scale details indicating service at each landing, coordination with building structure and relationships with other construction, and details of car enclosures and hoist way entrances. Including elevator diagrams to indicate elevator service to each level and include excavation requirements for jack
- D. Wiring diagram detailing wiring for power, signal and control systems differentiating clearly between manufacturer-installed wiring and field installed wiring. Indicate maximum and average power demands.
- E. Maintenance Manuals: Bound manual for elevator with operating and maintenance instructions, parts listing, recommended parts inventory listing, purchase source listing for major and critical components, emergency instructions, and similar information.
- F. Certificates and Permits: Provide Owner with copies of all inspection/acceptance certificates and operating permits as required by governing authorities to allow normal, unrestricted use of the elevators.

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SECTION 14240 – MACHINE-ROOMLESS (MRL) ELEVATORS

1.05 Quality Assurance:

- A. Installer Qualifications: Engage the elevator manufacturer or an installer approved by the elevator manufacturer and who has completed elevator installations similar in material, design, and extent to that indicated for Project which have resulted in installations with a record of successful in-service performance.
- B. Regulatory Requirements: In addition to local governing regulations, comply with applicable requirements of ASME/ANSI A17.1, Safety Code for Elevators and Escalators ("hereafter referred to as the "Code").

1.06 Warranty:

- A. Special Project Warranty: Provide special project warranty, signed by Contractor, Installer, and Manufacturer agreeing to replace repair, or restore defective materials and workmanship of elevator work during warranty period. This warranty shall be in addition to, and not a limitation of, other rights the Owner may have against the Constructor under the Contract Documents.
 - 1. "Defective" is hereby defined to include, but no by way of limitation, operation or control system failures, performances below required minimums, excessive wear, unusual deterioration or aging of materials or finishes, unsafe conditions, the need for excessive maintenance, abnormal noise or vibration, and similar unusual, unexpected, and unsatisfactory conditions.
 - 2. Warranty period is 12 months starting on date of Substantial Completion.
- B. Warranties: Provide coincidental project warranties where available for major components of elevator work. Submit with maintenance manuals.

1.07 Maintenance Service:

- A. Initial Maintenance Service: Provide full maintenance service by skilled, competent employees of the elevator installer for period of 12 months following Date of Substantial Completion. Include monthly preventive maintenance performed during normal working hours. Include repair or replacement of worn or defective parts or components and lubricating, cleaning, and adjusting as required for proper elevator operation in conformance with specified requirements. Include 24-hours-per-day, 7-days-per-week emergency callback service. Exclude only repair or replacement due to misuse, abuse, accidents, or neglect caused by persons other than personnel.
- B. Continuing Maintenance Service: Installer shall provide a continuing maintenance proposal to Owner, in the form of a standard yearly (or other period) maintenance agreement, starting on date construction contract maintenance requirements are concluded. State services, obligations, conditions, and terms for agreement period and for future renewal options.

1.08 Elevator Requirements:

- A. Provide the following requirements.
 - 1. Quantity and type - one (1) passenger elevator / size platform 42" wide x 60" length (contractor to coordinate with manufacturer being used).
 - 2. Capacity – 750 lbs (with a safety factor of 5).
 - 3. Speed – 24 FPM – 100 ft./min. (fully loaded).
 - 4. Travel – minimum ±10'-4" (refer to construction documents)

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SECTION 14240 – MACHINE-ROOMLESS (MRL) ELEVATORS

5. Stops – two (ground floor and second level)
6. Drive Type – ACME Screw (1" diameter) or winding drum.
7. Speed – Minimum 10'-0" per minute fully loaded / 24 FPM.
8. Keyed control – Key switch on call station and platform controls.
9. Safety nut.
10. Openings – front, solenoid powered deadbolt with monitoring circuit with battery backup.
11. Battery Power Back-up / Power – single phase 2 HP (120VAC) on a dedicated 20-amp circuit (coordinate with the actual manufacturer used by the contractor).
12. Emergency stop with an audible alarm.
13. Emergency Operation – Manual lowering wheel & battery-operated lowering system.
14. Install of the elevator to be in full compliance with all governing codes. The Elevator contractor to coordinate the installation requirements with the general contractor. The General Contractor is to obtain construction and installation shop drawings prior to commencement of elevator shaft construction to ensure all elevator requirements are coordinated and provided for the completion installation of the Machine-Roomless (MRL) elevator assembly including all miscellaneous incidentals required for a complete, code compliant, installation.
15. Configuration of all components subject to repair are to be located for easy access including electrical controls and its disconnects' and access locations are to be identified on the shop drawings during their submission.

2.0 PRODUCTS

2.01 Manufacturers:

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include:
1. AmeriGlide Accessibility Solutions Prolift – Phone No. (800) 790-1635
 2. Genesis Shaftway Lift – Phone No. (800) 663-6556
 3. Mowrey Elevator – Phone No. (850) 693-9342
 4. Montgomery Elevator Company
 5. U. S. Elevator/ Cubic Corporation
 6. Or approved equal
- Note: American made products preferred

2.02 Materials and Components:

- A. General Requirement: Provide manufacturer's standard pre-engineered elevator systems that will comply with or fulfill the requirements of elevator schedule sheets at end of the Section or, at manufacturer's option, provide custom-manufactured elevator systems that will fulfill requirements. Where components are not otherwise indicated, provide standard components published by the manufacturer as included in standard pre-engineered elevator systems and as required for complete system.

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- B. Machine-Roomless (MRL) Elevator Equipment: Provide manufacturer's standard single-acting elevator unit with all required control system equipment.
- C. Piping: Provide size, type, and weight piping recommended by manufacturer, and provide isolation couplings to prevent sound/vibration transmission from power unit.
- D. Inserts: Furnish required concrete inserts and similar anchorage devices for the installation of guide rails, machinery, another component of another specification section.
- E. Car Frame and Platform: Manufacturer's standard welded steel units.

2.03 Signal Equipment:

- A. General: Provide signal equipment for elevator to comply with requirements indicated below.
 - 1. Provide illuminated hall-call and car-call buttons that light up when activated and remain lighted until call or other function has been fulfilled; fabricate of acrylic or other permanent translucent plastic.
 - 2. Except for buttons and illuminated signal equipment with exposed surfaces of stainless steel with manufacture's standard directional polish or satin finish.
 - 3. Car Control Stations: Provide car control station in car with flush-mounted metal faceplate containing a call button for each landing served and other buttons, switches, and controls required for specified car operation and control. Mount at height complying with ASME/ANSI A117.1. Mount in return panel adjacent to car door. Provide operation device symbols as required by Code. Mark other buttons and switches with manufacturers standard identification for required use or function.
 - 4. Car Position Indicator: For Passenger elevators car, provide either illuminated-signal type or digital- display type, located near top of each car or in car control station. Include direction of next signal if not provided in car control station.
 - a. In addition to visual indicator, provide audible signal to indicate to passengers that car is stopping at floors served.
 - 5. Hall Push-Button Indicator: Provide hall push-button station at each landing for elevator.
 - a. Provide unit with flat faceplate designed for flush-mounting on wall with body of unit recessed in wall.
 - b. Provide a 1-button station and indicate which direction that is.
 - c. Provide special oversized hall lantern signals on each floor.
 - d. In conjunction with each hall lantern device, provide an audible signal to indicate that a car is arriving in response to a hall call and to indicate direction of car travel. Signal shall sound one for up direction of travel and twice for down direction.
 - 6. Telephone: Provide rough-in for telephone hand set in each car, contained in flush-mounted cabinet and complete with identification and instructions for use.
 - 7. Alarm System: Provide emergency alarm bell properly located with building and audible outside hoistways, equipped to sound automatically in

SECTION 14240 – MACHINE-ROOMLESS (MRL) ELEVATORS

response to emergency stops and in response to "Alarm" button on each car control station.

8. Elevator Cab signage: Provide signage in cab prohibiting smoking in elevator cab at all times.

2.05 Passenger Elevator Car Enclosures:

- A. General: Provide manufacturer's standard pre-engineered car enclosures of the selections indicated. Include ventilation, lighting, ceiling finish, wall finish, access doors, doors, power door operators, sill (threshold), trim, accessories, and floor finish unless indicated as not work of this Section. Provide horizontal sliding doors of manufacturer's standard protective edge trim system for door and wall panels, except as otherwise indicated.
 1. Materials and Fabrication: Provide selections as indicated for each car enclosure surface; provide manufacturer's standards, but not less than the following:
 - a. Stainless Steel: AISI Type 302/304 with No. 4 satin finish.
 - b. Aluminum Sills: Cast or extruded aluminum, with grooved surfaces, 1/4-inch thickness, mill finish.
 - c. Plastic Laminate: High-pressure type complying with NEMA LD3, Type GP-50 (0.050-inch nominal thickness); color, texture, and pattern as selected by Architect from standard products available in the industry.
 - d. Fabricate car fire rated door and door frame integrally with front wall of car.
 - e. Fabricate car with recesses and cutouts for signal equipment.
 - f. 2 x 2 LED light fixture to be installed in upper ceiling of the shaft where a permanent transparent rigid plastic complying with flammability requirements.
 - g. Vinyl Composition Tile Floor Covering: ASTM F 1066, Composition 1 (non-asbestos), 12 inch by 12 by 1/8 inch thick; color and pattern as selected by architect from manufacturer's standard range unless not an option.
 - h. Elevator Lock: Elevator controls shall include the ability to lock elevator doors while the elevator is in locked mode, it shall only be accessible with a key.

2.06 Personal Protective Devices:

- A. Handrails: Provide manufacturer's standard stainless-steel handrails on back wall.
- B. Door Edge Protective Device: Provide retractable edge shoe on leading edges of elevator entrance doors to stop and reopen upon contacting an obstruction in entrance.
- C. Photo-Eye Detection Device: Provide electronic photo-eye device with timed cutout, projecting dual light beams across car entrance at 5-inch and 29-inch heights, that when interrupted will cause closing doors to stop and reopen. Provide keyed switch in car operating panel or toggle switch in service cabinet for disconnecting photo-eye protective device.

2.07 Passenger Hoistway Entrances:

ALACHUA COUNTY EMERGENCY OPERATIONS CENTER & FIRE RESCUE ADMINISTRATION GAINESVILLE, FLORIDA	PSA 22-818
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SECTION 14240 – MACHINE-ROOMLESS (MRL) ELEVATORS

- A. General: Provide manufacture’s standard, pre-engineered, hollow metal type, fire rated, door-and frame hoistway entrances complete with track systems, hardware, safeties, sills, and accessories. Match car enclosure doors for size and door panel movement. Provide frame-section size and profile to coordinate with hoistway wall construction as indicated.
- B. Materials and Fabrication: Provide selections indicated that comply with manufacture’s standards, but not less than the following:
 - 1. Stainless Steel Frames: Formed stainless steel sheet, AISI Type 302/304 with No. 4 satin finish.
 - 2. Plastic laminate door panels.
 - 3. Aluminum Sills: Extruded aluminum, with grooved surface, ¼-inch thickness, mill finish.

3.0 EXECUTION

3.01 Examination:

- A. Prior to commencing elevator installation, examine hoistways, hoistway openings, and under-the-cab slab preparation as constructed; verify all critical dimensions and examine supporting structure and all other conditions under which elevator work is to be installed. Notify Contractor in writing of any dimensional discrepancies or other conditions detrimental to the proper installation or performance of elevator work. Do not proceed with elevator installation until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

3.01 Installation of Elevator System:

- A. General: Comply with manufacturer’s instructions and recommendations for work required during installation.
- B. Welded Construction: Provide welded connections for installation of elevator work where bolted connections are not required for subsequent removal or for normal operation, adjustment, inspection, maintenance, and replacement of worn parts. Comply with AWS standards for workmanship and for qualifications of welding operators.
- C. Coordination: Coordinate elevator work with work of other trades for proper time and sequence to avoid construction delays. Use benchmarks, lines, and levels designated by Contractor to ensure dimensional coordination of the work.
- D. Sound Isolation: Mount rotating and vibrating elevator equipment and components on vibration-absorption mounts, designed to effectively prevent transmission of vibrations to structure and thereby to eliminate sources of structure-borne noise from elevator.
- E. Install piping without routing underground, where possible. Where not possible, cover underground piping with permanent protective wrapping before backfilling.
- F. Lubricate operating parts of systems, including ropes, if any, as recommended by manufacturers.
- G. Alignment: Coordinate installation of hoistway entrances with installation of elevator guide rails for accurate alignment of entrances with cars. Where possible, delay installation of sills and frames until the car is operable in shaft. Reduce clearances to minimum, safe, workable, dimension at each landing.

ALACHUA COUNTY EMERGENCY OPERATIONS CENTER & FIRE RESCUE ADMINISTRATION GAINESVILLE, FLORIDA	PSA 22-818
---	------------

SECTION 14240 – MACHINE-ROOMLESS (MRL) ELEVATORS

- H. Leveling Tolerance: ¼ inch, up or down, regardless of load and direction of travel.
 - I. Set sills flush with finished floor surface at landings. Coordinate with other trades to facilitate and ensure proper grouting of sills.
 - J. Elevator contractor to ensure water tightness of elevator pit if pit is required where unit is to be housed.
- 3.03 **Field Quality Control:**
- A. Acceptance Testing: Upon nominal completion of elevator installation, and before permitting use of elevator (either temporary or permanent), perform acceptance test as required and recommended by Code and by governing regulations or agencies.
 - B. Advise Constructor, Owner, Architect and inspection department of governing agencies in advance of dates and times test are to be performed on elevators.
- 3.04 **Protection:**
- A. At time of Substantial Completion of elevator work (or portion thereof), provide suitable protective coverings, barriers, devices, signs, or such other methods or procedures to protect elevator work from damage or deterioration. Maintain protective measures throughout remainder of construction period.
- 3.05 **Demonstration:**
- A. Instruct Owner’s personnel in proper use, operations, and daily maintenance of elevator. Review emergency provisions, including emergency access and procedures to be followed at time of failure in operation and other building emergencies. Train Owner’s personnel in normal procedures to be followed in checking for sources of operational failures or malfunctions. Confer with Owner on requirements for a complete elevator maintenance program.
 - B. Make a final check of elevator operation with Owner’s personnel present and just prior to date of Substantial Completion. Determine that control systems and operating devices are functioning properly.

(END OF SECTION 14240)

EXHIBIT 3: BID FORM/ SCHEDULE OF VALUES



Alachua County, Florida
Procurement
Theodore "TJ" White, Jr. CPPB, Procurement Manager
County Administration Building, Gainesville, FL 32601

[ULLOA MANAGEMENT GROUP, LLC] RESPONSE DOCUMENT REPORT

ITB No. ITB 25-402-LC

Alachua County Emergency Operations Center & Fire Rescue Administration Building Renovation

RESPONSE DEADLINE: October 16, 2024 at 2:00 pm

Report Generated: Monday, December 2, 2024

Ulloa Management Group, LLC Response

CONTACT INFORMATION

Company:

Ulloa Management Group, LLC

Email:

management@ulloagroupllc.com

Contact:

Paul Ulloa-Jarrin

Address:

1021 THREE FORKS CT
SAINT AUGUSTINE, FL 32092

Phone:

(561) 888-3541

Website:

N/A

Submission Date:

Oct 16, 2024 10:52 AM (Eastern Time)

PRICE TABLES

BASE BID

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total
1	Alachua County Emergency Operations Center & Fire Rescue Administration	1	Lump Sum	\$2,950,000.00	\$2,950,000.00
TOTAL					\$2,950,000.00

ALTERNATES

Add/Deduct from the base bid. These total unit cost will be added to or deducted from the Base Bid based on the Alternate requested. All unit prices should be a positive number additions to the base bid and negative numbers for deducts to the base bid.

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total
1	ADD - Impact resistant storefront SECTION 08450 and inline of protective grilles and roll down hurricane hardened shutters	1	LS	\$174,051.00	\$174,051.00
2	ADD - Window impact grilles and shutters.	1	LS	\$185,098.00	\$185,098.00
3	ADD - Carpet in open area Room No. 109 (Base Bid Sealed Concrete).	1	LS	\$28,074.00	\$28,074.00
4	ADD - Fire Sprinkler System.	1	LS	\$137,507.00	\$137,507.00
5	ADD - New space 109 cable suspended acoustical clouds.	1	LS	\$16,664.00	\$16,664.00
6	ADD - West elevation Pre-engineered canopy.	1	LS	\$19,399.00	\$19,399.00
7	ADD - Folding wall	1	LS	\$3,273.00	\$3,273.00
8	ADD - Kitchen Quartz poured epoxy flooring with integral base in lieu of LVT.	1	LS	\$5,458.00	\$5,458.00
9	DEDUCT - 2 x 2 ceramic floor tile in lieu of poured quartz epoxy flooring with integral base.	1	LS	\$4,107.00	\$4,107.00
TOTAL					\$573,631.00

EXHIBIT 4: GENERAL CONSTRUCTION NOTICE TO PROCEED

NTP No.: _____

Agreement No.: 14329

Invoice/Billing Reference No.: _____

Project Description: Alachua County Emergency Operations Center (EOC) & Fire Rescue Administration Renovations - re-purposing of the recently vacated existing two-story armory building to accommodate the Alachua County Emergency Operations Center (EOC) and Fire Rescue Administration

County: Alachua County, a Charter County and political subdivision of the State of Florida

Date Issued: _____

County Project Manager:

Contractor: Ulloa Management Group, LLC

Contractor's Address: 806 N 19th Street, Palatka, FL 32117

Architect/Engineer: Paul Stresing Associates, Inc.

This Notice to Proceed (NTP) is issued in accordance with the terms of the General Construction Agreement No. _____, dated _____ between the County and the Contractor (“Agreement”). Execution of this NTP by County shall serve as authorization for the Contractor to perform the Work for the above project as set forth in that certain the Agreement, including its exhibits, and further delineated in the specifications, conditions and requirements stated in the following listed documents which are attached hereto and made a part hereof.

ATTACHMENTS:

- DRAWINGS/PLANS/SPECIFICATIONS
- SCOPE OF WORK
- SPECIAL CONDITIONS
- SCHEDULE OF VALUES
- _____

The Contractor shall provide said services pursuant to this Notice to Proceed, its attachments and the above-referenced Agreement, which is incorporated herein by reference as if it had been set out in its entirety. Whenever the Notice to Proceed conflicts with said Agreement, the Agreement shall prevail.

TIME FOR COMPLETION: The Work authorized by this Notice to Proceed shall be commenced upon the date written above or upon issuance of and shall substantially complete within One Hundred Eighty (180) working days of this NTP with Final Completion occurring 30 working days after the County delivers the final List to the Contractor as provided in section 6.3 of the Agreement, unless extended in accordance with §218.735(7)(c), Florida Statutes .

METHOD OF COMPENSATION:

The amount paid for this job shall be:

\$ _____.

The County shall make payment to Contractor in strict accordance with the payment terms of the above-referenced Agreement and in accordance with the Schedule of Values.

It is expressly understood by Contractor that this and Notice to Proceed, until executed by the County, does not authorize the performance of any services by Contractor and that the County, prior to its execution of the Notice to Proceed, reserves the right to authorize a party other than Contractor to perform the services called for under this document if it is determined that to do so is in the best interest of the County.

IN WITNESS WHEREOF, the Parties hereto agree to this Notice to Proceed and have executed it on this _____ day of _____, 20_____.

CONTRACTOR

ALACHUA COUNTY, FLORIDA

By: _____

By: _____
Alachua County

Date: _____

Date: _____

Title: _____
Print Name and Title

ARCHITECT/ENGINEER/COUNTY (as applicable)

By: _____

Date: _____

Title: _____
Print Name and Title

EXHIBIT 5: CLOSEOUT CHECKLIST

Contract Closeout occurs when all obligations are met and all legal, administrative, and managerial tasks are executed.

Contract No. 14329 – Alachua County Emergency Operations Center (EOC) & Fire Rescue Administration Renovations

Complete all applicable items.

ACTION/ITEM	Date Completed (by Vendor)	Vendor (initials)	County (initials)
General Requirements (Should be required on most Contracts)	██████████	██████████	██████████
All contractual obligations are completed <i>(include list of exceptions as an attachment)</i>			
All invoices, except for the final, are submitted and paid			
All testing reports have been received and analyzed			
Final amount paid via this Contract			
Parties agree that no claims, issues, or unresolved matters exist on the contract			
Contract Specific Requirements (All may not apply)	██████████	██████████	██████████
All inspections are completed and accepted			
Any County-furnished property is returned			
The contractor has closed any subcontracts that may exist			
All sub-contractor(s) have been paid in full <i>(include a table of sub-contractor(s) names with total amounts paid to each as an attachment)</i>			
Any access or security badges and keys are returned and are accounted for			
All warranties, training material, or other final deliverables are obtained			
All Bond requirements have been met			
Certificates of substantial completion or final completion are obtained			
Other administrative or contractual requirements are met <i>(include list of items as an attachment)</i>			

CONTRACT ADMINISTRATOR APPROVAL TO CLOSEOUT CONTRACT

Vendor/Contractor Signature

Date

Department Administrator Signature

Date

EXHIBIT 6: PAYMENT BOND FORM

CONTRACTOR (PRINCIPAL)

COMPANY (LEGAL NAME):
PRINCIPAL BUSINESS ADDRESS (No PO Box):
TELEPHONE NUMBER:

SURETY

COMPANY (LEGAL NAME):
PRINCIPAL BUSINESS ADDRESS (No PO Box):
TELEPHONE NUMBER:

OWNER (OBLIGEE)

NAME: Alachua County Board of County Commissioners
PRINCIPAL BUSINESS ADDRESS: 12 S.E. First Street, Gainesville, Florida 32601
TELEPHONE NUMBER: 352-374-5204

AGREEMENT DETAILS

DATE EXECUTED:
AMOUNT:
GENERAL DESCRIPTION:
STREET ADDRESS OF PROJECT:
PO NO. , RFP, OR BID NO. :

BOND

BOND NUMBER:
DATE:
AMOUNT:

KNOW ALL MEN BY THESE PRESENTS:

That Principal, hereinafter called Contractor, and Surety, as identified above, are bound to Alachua County, Florida, as Obligee, and hereinafter called the County, in the amount identified above, for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

This payment bond is executed pursuant to §255.05, Florida Statutes, and claimants must comply with the notice and time limitations of §255.05(2). Florida Statutes.

WHEREAS, Contractor has by written Agreement entered into an Agreement, identified above, with Alachua County, which Contract Documents are by reference made part hereof, and for the purposes of this Bond are hereafter referred to as the "Agreement."

THE CONDITION OF THIS BOND is that if Contractor promptly makes payments to all persons defined in §713.01, Florida Statutes, who furnish labor, materials and supplies used directly or indirectly by Contractor in the performance of the Agreement; then CONTRACTOR'S OBLIGATION SHALL BE VOID; OTHERWISE, IT SHALL REMAIN IN FULL FORCE AND EFFECT.

The surety hereby waives notice of and agrees that any changes in or under the Agreement and compliance or noncompliance with any formalities connected with the Agreement or the changes do not affect surety's obligation under this bond.

The provisions of this bond are subject to the time limitations of §255.05(2). In no event will the Surety be liable in the aggregate to claimants for more than the penal sum of this Payment Bond, regardless of the number of suits that may be filed by claimants.

Signed and sealed this _____ day of _____, 20_____.

CONTRACTOR (PRINCIPAL)

Signed, sealed and delivered in the presence of:

_____ By: _____

Witnesses as to Contractor

Name: _____

Title: _____

STATE OF _____

COUNTY OF _____

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this day of _____, 20____, by _____.

Signature of Notary Public

Printed Name of Notary Public

Personally Known OR Produced Identification

Type of Identification Produced: _____

SURETY

SIGNATURE: _____

SEAL

PRINTED NAME AND TITLE: ATTORNEY IN FACT

EXHIBIT 7: PERFORMANCE BOND FORM

CONTRACTOR (PRINCIPAL)

COMPANY (LEGAL NAME):
PRINCIPAL BUSINESS ADDRESS (No PO Box):
TELEPHONE NUMBER:

SURETY

COMPANY (LEGAL NAME):
PRINCIPAL BUSINESS ADDRESS (No PO Box):
TELEPHONE NUMBER:

OWNER (OBLIGEE)

NAME: Alachua County
PRINCIPAL BUSINESS ADDRESS: 12 S.E. First Street, Gainesville, Florida 32601
TELEPHONE NUMBER: 352-374-5204

AGREEMENT DETAILS

DATE EXECUTED:
AMOUNT:
GENERAL DESCRIPTION:
STREET ADDRESS OF PROJECT:
PO NO. , RFP, OR BID NO. :

BOND

BOND NUMBER:
DATE:
AMOUNT:

KNOW ALL MEN BY THESE PRESENTS:

That Principal, hereinafter called Contractor, and Surety, as identified above, are bound to Alachua County, Florida, as Obligee, and hereinafter called the County, in the amount identified above, for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, Contractor has by written Agreement entered into an Agreement, identified above, with County, which Contract Documents are by reference made a part hereof, and for the purposes of this Bond are hereafter referred to as the "Agreement";

THE CONDITION OF THIS BOND is that if Contractor:

1. performs the Agreement between Contractor and County, at the times and in the manner prescribed in the Agreement; and
2. pays County all losses, damages, including liquidated damages and damages caused by delay, expenses, costs and attorney's fees including appellate proceedings, that County sustains as a result of default by Contractor under the Agreement; and
3. performs the guarantee of all Work and materials furnished under the Agreement for the time specified in the Agreement; then THIS BOND IS VOID, OTHERWISE IT REMAINS IN FULL FORCE AND EFFECT.

Whenever Contractor shall be, and is declared by County to be, in default under the Agreement, and County having performed County's obligations there under, the Surety may promptly remedy the default, or shall promptly:

1. complete the Agreement in accordance with its terms and conditions; or
2. obtain a bid or bids for completing the Agreement in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if County elects, upon determination by County and Surety jointly of the lowest responsible bidder, arrange for an Agreement between such

Bidder and County, and make available as Work progresses sufficient funds, paid to County, to pay the cost of completion and other costs and damages for which the Surety may be liable hereunder.

No right of action shall accrue on this bond to or for the use of any person of corporation other than County named herein.

The Surety, for value received, hereby stipulates and agrees that no changes, extensions of time, alterations or additions to the terms of the Agreement or other Work to be performed hereunder, or the specifications referred to therein shall in any way affect its obligations under this bond, and it does hereby waive notice of any such changes, extensions of time, alterations or additions to the terms of the Agreement or to Work or to the specifications.

This instrument shall be construed in all respects as a common law bond. It is expressly understood that the time provisions and statute of limitations under §255.05, Florida Statutes, shall not apply to this bond.

In no event will the Surety be liable in the aggregate to Obligee for more than the penal sum of this Performance Bond regardless of the number of suits that may be filed by Obligee.

Signed and sealed this _____ day of _____, 20_____.

CONTRACTOR (PRINCIPAL)

Signed, sealed and delivered in the presence of:

Witnesses as to Contractor Name: _____ Title: _____

By: _____

STATE OF _____

COUNTY OF _____

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this day of _____, 20____, by _____.

Signature of Notary Public

Printed Name of Notary Public

Personally Known OR Produced Identification

Type of Identification Produced: _____

SURETY

SIGNATURE: _____

SEAL

PRINTED NAME AND TITLE:

EXHIBIT 8: INSURANCE

TYPE “A” INSURANCE REQUIREMENTS “ARTISAN CONTRACTORS / SERVICE CONTACTS”

Contractor shall procure and maintain for the duration of this Agreement insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the Work hereunder by Contractor/vendor, his agents, representatives, employees or subcontractors.

COMMERCIAL GENERAL LIABILITY

Coverage must be afforded under a per occurrence form policy for limits not less than \$1,000,000 General Aggregate, \$1,000,000 Products / Completed Operations Aggregate, \$1,000,000 Personal and Advertising Injury Liability, \$1,000,000 each Occurrence, \$50,000 Fire Damage Liability and \$5,000 Medical Expense.

AUTOMOBILE LIABILITY

Coverage must be afforded including coverage for all Owned vehicles, Hired and Non-Owned vehicles for Bodily Injury and Property Damage of not less than \$1,000,000 combined single limit each accident.

WORKERS COMPENSATION AND EMPLOYER’S LIABILITY

Coverage to apply for all employees at STATUTORY Limits in compliance with applicable state and federal laws; if any operations are to be undertaken on or about navigable waters, coverage must be included for the USA Longshoremen & Harbor Workers Act.

Employer’s Liability limits for not less than \$100,000 each accident; \$500,000 disease policy limit and \$100,000 disease each employee must be included.

BUILDER’S RISK / INSTALLATION FLOATERS (when applicable)

When this contract or agreement includes the construction of and/or the addition to a permanent structure or building; including the installation of machinery and/or equipment, the following insurance coverage must be afforded:

Coverage Form: Completed Value, All Risk in an amount equal to 100% of the value upon completion or value of equipment to be installed.

When applicable: Waiver of Occupancy Clause or Cessation of Insurance clause. Flood Insurance as available under the National Flood Insurance Program.

EMPLOYEE FIDELITY COVERAGE (only applicable to vendors whose employees handle funds)

Employee Dishonesty coverage must be afforded for not less than \$500,000 Blanket all employees ISO Form

OTHER INSURANCE PROVISIONS

The policies are to contain, or be endorsed to contain, the following provisions:

I Commercial General Liability and Automobile Liability Coverages

a. The Alachua County Board of County Commissioners, its officials, employees and volunteers are to be covered as an Additional Insured as respects: Liability arising out of activities performed by or on behalf of Contractor/Vendor; to include Products and/or Completed Operations of Contractor/Vendor; Automobiles owned, leased, hired or borrowed by Contractor.

b. Contractor's insurance coverage shall be considered primary insurance as respects the County, its officials, employees and volunteers. Any insurance or self-insurance maintained by the County, its officials, employees or volunteers shall be excess of Contractor/Vendor's insurance and shall be non-contributory.

II All Coverages

Contractor/Vendor shall provide a Certificate of Insurance to the County with a thirty (30) day notice of cancellation. The certificate shall indicate if cover is provided under a "claims made" or "per occurrence" form. If any cover is provided under claims made from the certificate will show a retroactive date, which should be the same date of the agreement (original if contact is renewed) or prior.

SUBCONTRACTORS


Contractor/Vendor shall be responsible for all subcontractors Working on their behalf as a condition of this Agreement. All subcontractors of Contractor/Vendor shall be subject to the same coverage requirements stated herein.

CERTIFICATE HOLDER: Alachua County Board of County Commissioners

MAIL, EMAIL or FAX CERTIFICATES

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EXHIBIT 8-A: CERTIFICATE OF INSURANCE

		CERTIFICATE OF LIABILITY INSURANCE	DATE (MM/DD/YYYY) 12/03/2024														
<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.</p>																	
<p>IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).</p>																	
PRODUCER Next First Insurance Agency, Inc. PO Box 60787 Palo Alto, CA 94306		CONTACT NAME: PHONE (A/C, No, Ext): (855) 222-5919 FAX (A/C, No): E-MAIL ADDRESS: support@nextinsurance.com															
INSURED Ulloa Management Group LLC 1021 Three Forks Ct Saint Augustine, FL 32092		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Next Insurance US Company</td> <td>16285</td> </tr> <tr> <td>INSURER B :</td> <td></td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Next Insurance US Company	16285	INSURER B :		INSURER C :		INSURER D :		INSURER E :		INSURER F :	
INSURER(S) AFFORDING COVERAGE	NAIC #																
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INSURER B :																	
INSURER C :																	
INSURER D :																	
INSURER E :																	
INSURER F :																	

COVERAGES		CERTIFICATE NUMBER: 794517572		REVISION NUMBER:		
<p>THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.</p>						
INSR LTR	TYPE OF INSURANCE	ADD'L SUBR INSD. WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	X	NXTKV3TTH3-01-GL	09/29/2024	09/29/2025	EACH OCCURRENCE \$1,000,000.00 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000.00 MED EXP (Any one person) \$15,000.00 PERSONAL & ADV INJURY \$1,000,000.00 GENERAL AGGREGATE \$2,000,000.00 PRODUCTS - COMPI/OP AGG \$2,000,000.00 \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	X	NXTKV3TTH3-01-GL	09/29/2024	09/29/2025	EACH OCCURRENCE \$ 1,000,000.00 AGGREGATE \$ 1,000,000.00 \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A			PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Contractors Errors and Omissions	X	NXTKV3TTH3-01-GL	09/29/2024	09/29/2025	Each Occurrence: \$25,000.00 Aggregate: \$50,000.00
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) The Certificate Holder is Alachua County Board of County Commissioners. This Certificate Holder is an Additional Insured on the General Liability policy and Umbrella/Excess Liability policy per the Additional Insured Automatic Status Endorsement. All Certificate Holder privileges apply only if required by written agreement between the Certificate Holder and the insured, and are subject to policy terms and conditions.						

CERTIFICATE HOLDER Alachua County Board of County Commissioners 12 SE 1st St. 3rd floor Gainesville, FL 32601	LIVE CERTIFICATE  Click or scan to view	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
---	---	---

ACORD 25 (2016/03)

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EXHIBIT 9: CONTRACTOR’S FINAL PAYMENT AFFIDAVIT

STATE OF FLORIDA
COUNTY OF _____

Before me, the undersigned authority, personally appeared _____, who after being duly sworn, deposes and says:

(1) He or she is the (title) _____, of _____, which does business in the State of Florida, hereinafter referred to as the “Contractor.”

(2) Contractor, pursuant to that certain General Construction Agreement No. _____ (“Agreement”) with Alachua County, a charter county and political subdivision of the State of Florida, hereinafter referred to as the “Owner,” has furnished or caused to be furnished labor, materials, and services for Bid No. 25-402-LC; Alachua County Emergency Operations Center (EOC) & Fire Rescue Administration Renovations, as more particularly set forth in said Agreement.

(3) This affidavit is executed by Contractor in accordance with §713.06 of the Florida Statutes for the purposes of obtaining final payment from the Owner in the amount of \$_____.

(3) Contractor certifies, represents and warrants that it has paid all persons defined in §713.01, Florida Statutes, who furnished labor, services, or materials for the prosecution of the Work provided for in the Agreement (“Claimants”), all amounts owed them from any previous payments received by Contractor from the Owner and has not withheld any such amounts.

(4) Contractor certifies, represents and warrants that all Work to be performed under the Agreement has been fully completed, and all Claimants have been paid in full.

(5) In accordance with the Contract Documents and in consideration of \$_____ paid, Contractor releases and waives for itself and all Claimants, including their successors and assigns, all claims demands, damages, costs and expenses, whether in agreement or in tort, against Owner relating in any way to the performance of the Agreement.(6) Contractor certifies, represents and warrants for itself and its subcontractors, materialmen, successors and assigns, that all charges for labor, materials, supplies, lands, licenses and other expenses for which Owner might be sued or for which a lien or a demand against any payment bond might be filed, have been fully satisfied and paid.

(7) Contractor agrees to indemnify, defend and save harmless Owner from all demands or suits, actions, claims of liens or other charges filed or asserted against Owner arising out of the performance by Contractor of the Work covered by the Agreement.

Contractor:

By: _____

Its: _____

Date: _____

[Corporate Seal]

Witnesses

STATE OF _____

EXHIBIT 10: FINAL PAYMENT BOND WAIVER FORM

**WAIVER OF RIGHT TO CLAIM AGAINST THE PAYMENT BOND
(FINAL PAYMENT)**

OWNER: Alachua County, a charter county and political subdivision of the State of Florida

CONTRACTOR: Ulloa Management Group, LLC

PROJECT: General Construction Agreement No. 14329 (“Agreement”) for labor, materials, and services for Bid No. 25-402-LC Alachua County Alachua County Emergency Operations Center (EOC) & Fire Rescue Administration Renovations

The undersigned Claimant, for itself and its successors and assigns, and in consideration of the final payment made in the amount of \$_____, hereby waives and releases its right to claim against the payment bond, and further waives, releases and discharges the Owner and Contractor from any and all claims, demands, obligations, damages, actions, and causes of action, direct or indirect, in law or in equity, for labor, services or materials furnished through _____(insert date) to_____, on the job of **Alachua County**, a charter county and political subdivision of the State of Florida, for improvements associated with the above referenced Project.

DATED ON _____.

Claimant: _____

By: _____

(Name)

Title: _____

(Print Title)

STATE OF _____

COUNTY OF _____

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this day of _____, 20____, by _____.

Signature of Notary Public

Printed Name of Notary Public

Personally Known OR Produced Identification

Type of Identification Produced:_____

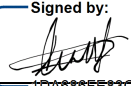
EXHIBIT 11: CERTIFICATION OF MEETING ALACHUA COUNTY WAGE ORDINANCE

The undersigned certifies that all employees, contracted and subcontracted, completing services as part of this Agreement are paid, and will continue to be paid, in accordance with Chapter 22, Article XII of the Alachua County Code of Ordinance (“Wage Ordinance”).

Ulloa Management Group, LLC
806 N 19th Street
Palatka, FL 32117
(561) 888-3541
management@ulloagroupllc.com

Project Description: **Alachua County Emergency Operations Center (EOC) & Fire Rescue Administration Renovations**; re-purposing of the recently vacated existing two-story armory building to accommodate the Alachua County Emergency Operations Center (EOC) and Fire Rescue Administration

CONTRACTOR

Signed by:
By: 
ID:A088FE83C648E...
Print: Paul Fernando Ulloa-Jarrin
Title: Owner
Date: 1/3/2025

IF CONTRACTOR IS NOT A NATURAL PERSON, PLEASE PROVIDE A CERTIFICATE OF INCUMBENCY AND AUTHORITY, OR A CORPORATE RESOLUTION, LISTING THOSE AUTHORIZED TO EXECUTE AGREEMENTS ON BEHALF OF YOUR ORGANIZATION. IF ARE A NATURAL PERSON, THEN YOUR SIGNATURE MUST BE NOTARIZED.

EXHIBIT 12: PLANS

Alachua County Emergency Operations Center & Fire Rescue Administration, Phase III, 100% Bid Documents dated May 24, 2024, are exempt pursuant to Section 119.071(3)(b)(1) and will be attached to this Agreement prior to execution.

Certificate Of Completion

Envelope Id: 2A76241F-A286-411B-BA78-D44E9CA7A71E	Status: Completed
Subject: Complete with Docusign: #14329 - AC EOC & Fire Rescue Admin Reno with Ulloa Mgmt Group, LLC.pdf	
Source Envelope:	
Document Pages: 211	Signatures: 2
Certificate Pages: 5	Initials: 0
AutoNav: Enabled	Envelope Originator:
Envelopeld Stamping: Enabled	Michelle Guidry
Time Zone: (UTC-05:00) Eastern Time (US & Canada)	mguidry@alachuacounty.us
	IP Address: 149.19.43.13

Record Tracking

Status: Original	Holder: Michelle Guidry	Location: DocuSign
1/3/2025 2:43:02 PM	mguidry@alachuacounty.us	
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: Alachua County	Location: DocuSign

Signer Events

Paul Fernando Ulloa-Jarrin
 paul@ulloagroupllc.com
 Owner
 Ulloa Management Group LLC
 Security Level: Email, Account Authentication (None)

Signature

Signed by:

 1DA686FE83C646E...
 Signature Adoption: Drawn on Device
 Using IP Address: 191.100.140.142
 Signed using mobile

Timestamp

Sent: 1/3/2025 2:46:53 PM
 Viewed: 1/3/2025 3:31:14 PM
 Signed: 1/3/2025 4:11:53 PM

Electronic Record and Signature Disclosure:
 Accepted: 12/3/2024 11:42:23 AM
 ID: fea13911-d21d-4731-a968-b98dc8ac12ed

In Person Signer Events

Signature

Timestamp

Editor Delivery Events

Status

Timestamp

Agent Delivery Events

Status

Timestamp

Intermediary Delivery Events

Status

Timestamp

Certified Delivery Events

Status

Timestamp

Carbon Copy Events

Status

Timestamp

Thomas (Jon) Rouse
 trouse@alachuacounty.us
 Contracts Supervisor
 Alachua County Board of County Commissioners
 Security Level: Email, Account Authentication (None)

COPIED

Sent: 1/3/2025 4:11:55 PM

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

Barbara Fair
 bafair@alachuacounty.us
 Security Level: Email, Account Authentication (None)

COPIED

Sent: 1/3/2025 4:11:56 PM

Electronic Record and Signature Disclosure:
 Not Offered via DocuSign

Carbon Copy Events	Status	Timestamp
Carolyn Miller crmiller@alachuacounty.us Procurement Specialist Procurement Security Level: Email, Account Authentication (None)	COPIED	Sent: 1/3/2025 4:11:56 PM
Electronic Record and Signature Disclosure: Not Offered via DocuSign		

Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Envelope Sent	Hashed/Encrypted	1/3/2025 2:46:53 PM
Certified Delivered	Security Checked	1/3/2025 3:31:14 PM
Signing Complete	Security Checked	1/3/2025 4:11:53 PM
Completed	Security Checked	1/3/2025 4:11:56 PM

Payment Events	Status	Timestamps
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Electronic Record and Signature Disclosure
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ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, Alachua County (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

Getting paper copies

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact Alachua County:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: mguidry@alachuacounty.us

To advise Alachua County of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at mguidry@alachuacounty.us and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from Alachua County

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to mguidry@alachuacounty.us and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with Alachua County

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to mguidry@alachuacounty.us and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify Alachua County as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by Alachua County during the course of your relationship with Alachua County.