Sept 2/12



BOARD OF COUNTY COMMISSIONERS

Public Works Department

2725 Judge Fran Jamieson Way Building A, Room 201 Viera, Florida 32940

Inter-Office Memo

TO:

Commissioner Kristine Zonka, Charl

THRU:

Frank Abbate, County Manager

THRU:

John P. Denninghoff, Assistant County Manager

THRU:

Marc Bernath, Public Works Director

FROM:

Marc Bernath, Public Works Director Bernath, Marc emails Marc. Bernath Marc. emails Marc. Bernath Marc. emails Marc. Bernath Marc. emails Marc. Bernath Marc. Bernath Marc. emails Marc. Bernath Marc. emails Marc. Bernath Marc. emails Marc. Bernath Marc. emails Marc. Date: 2022.04.18 10:14:57 -04/00 Date: 2022.04.18 10:14:57 -04/00 Date: 2022.04.14 18:21:58 -04/00 Date: 2022.04 18:21:58 -04/00 Date: 2022.04 18:21:58 -04/00 Date: 2022.04 18:21

RE:

Lori Wilson Park Restroom Construction

Contract Between Brevard County and Heard Construction

DATE:

April 14, 2022

The Board of County Commissioners approved the demolition and construction of a new restroom at Lori Wilson Park, as part of the TDC Departments Fiscal Year 2021-2022 Capital Improvements Program (attached). Scope of Work includes site work, utilities and demolition of existing restrooms and installation of new CXT restroom building.

The contract with Heard Construction, in the amount of \$486,183.73, has been reviewed and approved by the County Attorney's Office and Risk Management per Administrative Order AO-29

Please find one original contract for execution and forward.

Clerk to the Board: Facilities requests one fully-executed contracts be returned to our office.

Feel free to contact our office if you have any questions.

Encl: AO-29 Contract Review and Approval Forms TDC approved Capital Improvement Program

Contract with Heard Construction

BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT REVIEW AND APPROVAL FORM

New Halley III	SECTION	I - GENERAL	INFORMATION						
1. Contractor: Heard Co	nstruction		2. Amount: 486,183.	73					
3. Fund/Account #:		4. !	4. Department Name: Public Works/Facilities						
5. Contract Description:	ori Wilson Park F	Restrooms							
		(0011001110	8. Contract Type:						
6. Contract Monitor: Mar			CONSTRUCTION	NO.					
7. Dept/Office Director: M	larc Bernath		00,4011,0011,0	,,,,					
9. Type of Procurement: R	tequest for Qualificati	ons (RFQ)							
	SECTION II - RE	VIEW AND APP	ROVAL TO ADVERTISE						
	APPRO	DVAL							
COUNTY OFFICE	YES	YES NO SIGNATURE							
Jser Agency	$\underline{\square}$	닏							
Purchasing									
Risk Management			C						
County Attorney	TION III - REVIEW	AND ADDDOVA	I TO EXECUTE	THEORIES					
SEC	I ION III - REVIEW	AND APPROVA	L TO EXECUTE	_ 3:					
	APPR	OVAL							
COUNTY OFFICE	YES	NO	SIGNATURE						
			Bowers, Mary Digitally signed Date: 2022,03.0	by Bowers, Mary 01 16:26:45 -05'00'					
User Agency		<u>. </u>	Distribution of the state of th	ed by Wall, Katherine					
Purchasing			Wall, Katherine Date: 2022.04	4.13 08:01:22 -04'00'					
Risk Management	g and a second								
	Ħ								
County Attorney			TO THE PART OF THE						
THE PROPERTY OF THE PERSON AND THE P		CTS MANAGE	MENT DATABASE CHECKLIST	Transparate					
CM DATABASE REQUIRED	FIELDS			Complete					
Department Information									
Department									
Program									
Contact Name									
Cost Center, Fund, and G				 					
Vendor Information (SAP)	Vendor #)			H					
Contract Status, Title, Typ	e, and Amount			+ = =					
Storage Location (SAP)				 					
Contract Approval Date,	Effective Date, and	d Expiration Do	ate						
Contract Absolute End De	ate (No Additional	Renewals/Exte	ensions)	+-					
Material Group									
Contract Documents Uple	oaded in CM data	base (Contrac	t Form with County Attorney/ Risk						
Management/Purchasin	a Approval: Signed	VExecuted Co	ntract)						
The state of the s	9	, LACCOTT G							
"Right To Audit" Clause Inc Monitored items: Upload	cluded in Contract								

BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT REVIEW AND APPROVAL FORM

	SECTION	11- GENE	RAL INFORMATION			5.85	
1. Contractor: Heard Co	onstruction		2.	Amount: 486,18	3.73		
3. Fund/Account #:	4. Department Name: Public Works/Facilitie						
5. Contract Description:	Lori Wilson Park	Restroom		T abite Wor	Nort acili	1169	
6. Contract Monitor: Ma		(CSHOOIII	3	9 Castract Turn			
				8. Contract Typ		- 1	
7. Dept/Office Director: N				CONSTRUC	LION		
9. Type of Procurement: 1							
	SECTION II - RE	VIEW AND	APPROVAL TO ADVE	RTISE		J. Oyar	
	APPRO	DVAL					
COUNTY OFFICE	YES	NO	SIGNATURE	•			
User Agency	[7]						
	H	片	-				
Purchasing							
Risk Management							
County Attorney							
SECT	TION III - REVIEW A	ND APPRO	VAL TO EXECUTE		or order	MRION .	
	APPRO						
COUNTY OFFICE	YES	NO	SIGNATURE				
			SIGNATURE				
User Agency			Bowers, M	ary Digitally signs	d by Bowers, Mary 101 16:26:45 -05'00	r	
Purchasing							
Risk Management			Wilson S	hannon Digitally signe	ed by Wilson, Shan	inon	
County Attorney	Control 20						
			ngree	Conmac-			
SECI	ION IV - CONTRAC	TS MANAG	EMENT DATABASE	CHECKLIST			
CM DATABASE REQUIRED FI	ELDS				Comple	ete 🗸	
Department Information Department							
Program							
Contact Name							
Cost Center, Fund, and G/	Account						
Vendor Information (SAP Ve	endor#1						
Contract Status, Title, Type,	and Amount						
Storage Location (SAP)	GIIG /IIIOOIII						
Contract Approval Date, El	fective Date, and F	xpiration D	ate				
Contract Absolute End Date	e INo Additional Pe	newals/Evi	ensions				
Material Group					1-4		
Contract Documents Uploo	aded in CM databa	se (Contra	ct Form with County	Attorney/ Dick			
Munagement/ Purchasing /	Approval; Sianed/Ex	recuted Co	ontract)	ATTOMICY/ NISK			
"Right To Audit" Clause Inclu	ded in Contract						
Monitored items: Uploaded	I to database (Insur	ance Bone	de atal				

ANNUAL CAPITAL IMPROVEMENT PLAN FOR FY 2021-2022 TO FY 2025-2026

Tourism Development Office

Tourism Development Office

Program Name:

TOURISM DEVELOPMENT

Project Name:

Lori Wilson Park Project

Project Total:

\$3,260,481

Project Timeline:

October 1st, 2017 through September 30th, 2022

Funded Program: 6562209

District(s):

Project Description, Milestones and Service Impact

Lori Wilson Park is an approximate 50-acre park in the heart of Cocoa Beach and is owned/operated by Brevard County. The vision is a project that will refurbish the park and bring it up to the current standards of other parks in Brevard County including completely renovating the boardwalk areas and the bathrooms. Lori Wilson Park is right in the heart of the tourism district in Cocoa Beach. 75% of the visitors are from outside the County, so having a public park with great facilities and beach access is highly desirable and will be a driver of repeat visitation. Many people come to Lori Wilson Park just to enjoy nature and the view. Lori Wilson Park is also a great venue for events and many events over the years have been staged from there including the Thunder on the Beach boat races, watching space launches, marathons, the AAU volleyball, etc. These events attract both locals and visitors alike. The Board approved \$1.25M in late FY 20 for park repairs which should be used up in FY 21. The Board approved another \$1.764M capital facilities grant in early FY 21 for boardwalk and bathroom replacement the balance reflected in FY 22 budget.

Revenue or Expense Category	All	Prior Fiscal Years		al Year 021	Fi	scal Year 2022	Fiscal \		Fiscal Year 2024	Fiscal Year 2025		Fiscal Year 2026 & Future	Total Revenue
Assessments Revenue	\$	1	\$	2	\$	4(8	3	- \$		\$		\$ - \$	
Donations Revenue	\$	**	\$	*:	\$	* 1	\$	* \$		\$ 3	÷	s - s	
Grant Revenue	\$		\$	•	\$	- 5	5	- \$	9	\$	2	s - s	9
Other Finance Sources Revenue	\$	**	\$	+	\$	- 1	3	. \$		\$ 3	-	s - s	
Tourist Development Tax Revenue	\$	3,260,481	\$	3	\$	- 1	3	- \$		\$		s - s	3,260,481
Total Revenue	\$	3,260,481	\$	1)•:	\$	* :	}	+:\$		\$		\$ - \$	3,260,481
Land Expense	\$		\$	-	\$	- 8	}	- \$		\$	3	\$ - \$	
Planning/Design Expense	\$	*	\$	152,490	\$	- (3	⊕ \$		\$ 3	•	\$ * \$	152,490
Construction Expense	\$	5	\$ 1	,343,407	\$	1,764,584	3	€ \$		\$	•	\$ - \$	3,107,991
Other Expense	\$	90	\$	-	\$	- 9	3	- \$		\$ 0	8	\$ × \$	
Tulal Expense	8	-	\$ 1,	195,897	\$	1,764,584	3	- \$		\$		\$ - \$	3,260,481

CONSTRUCTION MANAGER AGREEMENT BETWEEN BREVARD COUNTY AND HEARD CONSTRUCTION, INC.

THIS AGREEMENT is made the day of March_, 2022 between BREVARD COUNTY, FLORIDA, a political subdivision of the State of Florida whose address is 2725 Judge Fran Jamieson Way, Viera, Florida 32940 (hereinafter referred to as the "County"), and HEARD CONSTRUCTION, INC. (hereinafter referred to as "Construction Manager"), whose address is 95 East Hall Road, Merritt Island, Florida 32954, a company licensed to do business in the State of Florida.

WHEREAS, the Construction Manager and the County entered into Agreement, Contract No. 3040, effective July 18, 2018, for Continuing Construction Manager At Risk Services; and

WHEREAS, the County requests the Construction Manager procure and install restroom replacement at Lori Wilson Park, 1500 N. Atlantic Avenue, Cocoa Beach, FL, in accordance with the Scope of Work (Attachment "B").

NOW, THEREFORE, in consideration of the mutual understanding and covenants set forth herein, the sufficiency of which is hereby acknowledged, the parties agree as follows:

ARTICLE 1

THE CONSTRUCTION TEAM AND EXTENT OF AGREEMENT

The Construction Manager accepts the relationship of trust and confidence established between it and the County by this Agreement. The Construction Manager covenants with the County to furnish the best skill and judgment and to cooperate with the Architect/Engineer in furthering the interests of the County as outlined herein. The Construction Manager agrees to furnish efficient business administration and superintendence and use its best efforts to complete the Project as described in Attachment "B", Scope of Work, in the best and soundest way, and in the most expeditious and economical manner consistent with the interest of the County.

1.1 The Construction Team - The Construction Manager, the County and the Architect/Engineer, called the "Construction Team", shall work jointly during design and through final construction completion and shall be available thereafter should additional services be required. The Architect/Engineer will provide leadership during the Design Phase, with support from the Construction Manager, and the Construction Manager shall provide leadership to the Construction Team on all matters relating to construction.

The specific representatives of the Construction Team are shown in **Attachment** "A" attached.

1.2 Scope of Work – A general description of the Work/Project to be built/constructed/installed under this Agreement (Attachment "B").

1.3 Definitions:

<u>Project</u> - The Project is the total work to be performed under this Agreement. The Project consists of planning, design review, permitting, construction (which includes all labor, equipment, material and supervision) and code inspection necessary to build/construct and complete the Scope of Work identified in **Attachment "B"** (Scope of Work).

County - Brevard County Board of County Commissioners, Public Works
Department - Facilities, 2725 Judge Fran Jamieson Way, Building A, 2nd Floor,
Viera, Florida 32940, (321) 633-2050; facsimile (321) 633-2101. For purposes of
this Agreement, the County may also include the County Manager or the Project
Director with regard to the performance of designated functions and duties
specified for each under the terms and provisions of this Agreement.

Contract Documents - Consist of this Agreement with attachments, Scope of Work, the drawings, the specifications, the Guaranteed Maximum Price (G.M.P.), any Conditions of the Contract between the County and the Construction Manager (General, Special, Supplementary and other conditions), permit conditions, if any, grant specifications, any addenda to the foregoing listed documents and all change orders, amendments or modifications as provided in Article 10 below, whether or not any of the foregoing listed documents have been attached hereto.

<u>Permitting Authority</u> - All applicable Federal, State, County and local agencies responsible for permitting and code inspections on projects administered by the County.

Construction Manager - Heard Construction, Inc.

Architect/Engineer - B.R.P.H.

Project Director - The person designated by the County to provide direct interface with the Construction Manager with respect to the County's responsibilities. Tim Lawry is the designated Project Director, and Mike McGrew is the designated Construction Coordinator. Such designated individuals may be changed/substituted upon written notice to the other party.

<u>County's Representatives</u> - The Project Director and his/her supervisors and/or designees.

Estimate - The Construction Manager's latest estimate of probable Project construction costs.

Guaranteed Maximum Price (G.M.P.) - The Guaranteed Maximum Price for the construction of the project, which shall be subject to adjustments only as provided herein. GMP includes Cost of the Work and Construction Manager's fee for Construction Phase services. The Guaranteed Maximum Price (G.M.P.) does include the cost for County direct purchases, however, all County direct purchases will be deducted in one deductive change order in accordance with Attachment "C" (Direct Purchasing Procedure) at the end of the project.

Substantial Completion - the point in the construction where all essential elements of the Project are sufficiently complete in conformance with this Agreement, that the County has both the occupancy of the Project, as evidenced by a Certificate of Occupancy issued by the governmental authority with jurisdiction and the beneficial use of the Project for its intended purpose where only minor punch list items are required for final completion. Substantial Completion shall not be deemed to have occurred where 1) latent defects are revealed subsequent to use and occupation of the project by the County; or 2) where the scope of substantial defects in workmanship or materials are not readily observable or discoverable when use and occupancy of the project commenced; or 3) the failure to meet grant specifications, if any.

Extent of Agreement - This Agreement for Construction Management between the County and the Construction Manager supersedes any prior negotiations, representations or agreements. The drawings, specifications and other descriptive documents defining the work to be included under this construction contract are identified in Attachment "D". The Construction Manager shall obtain from the County three (3) sets of signed, sealed and dated drawings, specifications and other documents upon which the G.M.P. is based; shall acknowledge on the face of each document of each set that it is the set upon which he based his G.M.P.; and shall send one (1) set of the documents to the Project Director along with his G.M.P. proposal, while keeping one (1) set for itself and returning one (1) set to the Architect/Engineer.

This Agreement shall not be superseded by any provisions of the documents for construction and may be amended only by written instrument signed by both the County and Construction Manager.

CONSTRUCTION MANAGER'S RESPONSIBILITIES

Construction Manager shall perform all services described in this Article. The services to be provided under Paragraph 2.1 constitute the Pre-Construction Phase services. The services to be provided under Paragraphs 2.2 thru 2.9 constitute the Construction Phase services. The parties acknowledge the Construction Phase shall commence before the Pre-Construction Phase is completed and, whenever feasible, both phases shall proceed concurrently.

2.1 PRE-CONSTRUCTION PHASE

- 2.1.1 <u>Preliminary Evaluation</u> Construction Manager shall provide a preliminary evaluation of County's program and Project budget requirements, each in terms of the other.
- 2.1.2 Consultation Construction Manager will provide Design Disciplines, Construction Documents, and Plans and Specifications review at all design milestones and a final constructability review. The review at each milestone will identify areas of omission, overlapping and identify documents to be modified in order to clarify the construction details. The review will also include the coordination and interface of the Agreement document's General Conditions, Special Conditions, trade contractor bid packages and site utilization planning during construction. Reviews shall be completed and comments provided within five (5) business days. As part of the design review, Construction Manager will provide Value Engineering and construction alternatives, identifying to the County and Architect/Engineer options for systems and components that are cost-effective, efficient, and easy to maintain.

Construction Manager, with Architect/Engineer, has scheduled and attended, and will continue to jointly schedule and attend, weekly progress meetings (or as determined by the Project Director or Project Manager) with County and Architect/Engineer. Construction Manager has and will continue to consult with County and Architect/Engineer regarding site use and improvements, and the selection of materials, building systems and equipment. Construction Manager has provided and will continue to provide recommendations on construction feasibility; actions designated to minimize adverse effects of labor or material shortages; time requirements for procurement, installation and construction completion; and factors related to construction cost including estimates of alternative designs or materials, preliminary budgets and possible economies.

The Construction Manager is required to be registered with and utilize the U.S. Department of Homeland Security's E-Verify System, in accordance with the terms governing use of the system, to confirm the employment eligibility of any employee hired during the term of the Agreement. The Construction Manager

shall also expressly require any contractor or subcontractor performing work or providing services pursuant to this Agreement to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the contractor/subcontractor during the Agreement term.

- 2.1.3 Preliminary Project Schedule Construction Manager has prepared a Construction Schedule, a copy of which is attached as Attachment "E". This Construction Schedule shall govern Substantial Completion and Final Completion. Construction Manager shall coordinate and integrate the Preliminary Project Schedule with the services and activities of the County, Architect/Engineer and Construction Manager. The Construction Manager shall provide current scheduling information and provide direction and coordination regarding milestones, beginning and finishing dates, responsibilities for performance and the relationships of the Construction Manager's work to the work of its subcontractors and suppliers to enable them to perform their respective tasks so that the development of construction progresses in a smooth and efficient manner in conformance with the overall Total Project Schedule. The schedule shall include all phases of construction work, material supplies, long lead procurement, approval of shop drawings, change orders in progress, schedules for change orders, and performance of testing requirements. The Construction Manager shall advise the County, its representatives and the Architect/Engineer of their required participation in any meeting or inspection giving each at least one (1) week notice unless such notice is made impossible by conditions beyond the Construction Manager's control. The Construction Manager shall hold jobsite meetings at least once each week with the Construction Team and at least once each week with the subcontractors and the Architect/Engineer field representatives, and County, or more frequently as required by work progress, to review progress, discuss problems and their solutions and coordinate future work with all subcontractors.
- 2.1.4 <u>Subcontractors and Suppliers</u> Construction Manager shall continue to develop subcontractor interest in the Project and shall furnish to County and Architect/Engineer, for their information, a list of possible subcontractors, including suppliers who are to furnish materials or equipment fabricated to a special design and within the timeframes established in Attachment "E", from whom proposals will be requested for each principal portion of the Project. County will promptly reply in writing to Construction Manager if County has an objection to any such subcontractor or supplier. The receipt of such list shall not require County to investigate the qualifications of proposed subcontractors or suppliers, nor shall it waive the rights of County to later object to or reject any proposed subcontractor or supplier. The Construction Manager shall be responsible for ensuring the subcontractor(s) meet any and all specifications

outlined in this Contract, or as amended or modified, including, but not limited to the timeframes established in the Construction Schedule.

- 2.1.5 Long Lead and County Direct Procurement The Construction Manager shall review the design for the purpose of identifying long lead and County direct procurement items (machinery, equipment, materials and supplies). When each item is identified the Construction Manager shall notify the subcontractors, the Project Director, and the County of the required procurement and schedule. Such information shall be included in the bid documents and made a part of all affected subcontracts. As soon as the Architect/Engineer has completed drawings and technical specifications and the Construction Manager has obtained permitting approval, the Construction Manager shall prepare Invitation for Bids. The Construction Manager shall keep informed of the progress of the respective subcontractors and/or suppliers, manufacturing or fabricating such items and notify the Project Director, County and Architect/Engineer of any problems or prospective delay in delivery. The Construction Manager shall ensure that any subcontractor adheres to the Construction Schedule in Attachment "E".
- 2.1.6 Extent of Responsibility The recommendations and advice of Construction Manager concerning design alternatives shall be subject to the review and approval of County and County's professional consultants. The Construction Manager shall be responsible for complying with all applicable laws, statutes, ordinances, building codes, rules and regulations. If Construction Manager recognizes that portions of the Drawings and Specifications are at variance therewith, Construction Manager shall promptly notify County and Architect/Engineer in writing.
- 2.1.7 Equal Employment Opportunity and Affirmative Action Construction Manager shall comply with applicable laws, regulations and special requirements of the Contract Documents regarding equal employment opportunity and affirmative action programs.
- 2.1.8 Separate Contracts Planning The Construction Manager shall review the design with the Architect/Engineer and make recommendations to the County and to the Architect/Engineer with respect to dividing the work in such manner as will permit the Construction Manager to take bids and award separate construction subcontracts on the current schedule while the design is being completed. The Construction Manager shall take into consideration such factors as natural and practical lines of severability, sequencing, effectiveness, access and availability constraints, total time for completion, construction market conditions, availability of labor and materials, community relations and any other factors pertinent to saving time and cost by overlapping design and construction that are authorized by the County.

2.2 CONSTRUCTION PHASE

2.2.1 Interfacing -

- The Construction Manager shall take such measures as are appropriate to provide that all construction requirements will be covered in the separate subcontracts for procurement of long lead items, the separate construction subcontracts and the general conditions items performed without duplication or overlap, sequenced to maintain completion of all work on schedule. Particular attention shall be given to provide that each bid package clearly identifies the work included in that particular separate subcontract, its schedule for start and completion and its relationship to other separate subcontractors.
- (2)Subcontractor Interfacing - The Construction Manager shall be the single point of interface with all Subcontractors for the County, and all of its agents and representatives, including the Architect/Engineer. The Construction Manager shall negotiate all change orders, field orders and request for proposals, with all affected Subcontractors and shall review the costs of those proposals and advise the County and Architect/Engineer of their validity and reasonableness, acting in the County's best interest prior to requesting approval of each change order from the County. Before any work is begun on any change order, an executed "Authorization to Initiate Work" form from the County must be issued. However, when health and safety are threatened, the Construction Manager shall act immediately to remove the threat to health and safety. The Construction Manager shall also carefully review all shop drawings and then forward the same to the Architect/Engineer for review and actions. The Architect/Engineer will transmit them back to the Construction Manager who will then issue the shop drawings to the affected Subcontractor for fabrication or revision. The Construction Manager shall maintain a suspense control system to promote expeditious handling. The Construction Manager shall request the Architect/Engineer to make interpretations of the drawings or specifications requested of the Construction Manager by the Subcontractors and shall maintain a suspense control system to promote timely response. The Construction Manager shall advise the Project Director and Architect/Engineer when timely response is not occurring on any of the above.

2.2.2 Solicitation of Bids

(1) Without assuming responsibilities of the Architect/Engineer, the Construction Manager shall prepare Invitations for Bids (or Request For Proposals, when applicable) for all procurements of long lead times, materials and services for Subcontractor contracts and for site utilities.

- (2) As part of such preparation, the Construction Manager shall review the specifications and drawings prepared by the Architect/Engineer. Ambiguities, conflicts or lack of clarity of language, use of illegally restrictive requirements, and any other defects in the specifications or in the drawings noted by the Construction Manager shall be brought to the attention of the Project Director and Architect/Engineer in written form.
- (3) For each separate subcontractor or construction trade contract used in this project, the Construction Manager shall, unless waived by the County, conduct a pre-bid conference with prospective bidders, the Architect/Engineer and Project Director. In the event questions are raised which require an interpretation of the bidding documents or otherwise indicate a need for clarification or correction of the invitation, the Construction Manager shall transmit these to the Architect/Engineer and, upon receiving clarification or correction in writing, shall prepare an addendum to the bidding document, and issue same to all of the prospective bidders.
- (4) In accordance with Article 2.4.2 the Construction Manager shall open and review all bids and enter into contract(s) with those low bidders determined to be most qualified by the Construction Manager. The Construction Manager shall make every effort to follow the County's Pre-Qualification Ordinance 98-37 (Attachment "F") for applicable subcontract trades.
- 2.2.3 Bonds For those projects where the cost will exceed \$100,000.00, in accordance with the provisions of Section 255.05, Florida Statutes, the Construction Manager shall provide to the County with applicable bonds on forms furnished by the County (Attachments "G" and "H"), certified copies of the recorded 100% Construction Bond in an amount not less than the total construction cost (G.M.P.) as defined in Article 9 and inclusive of the construction fee must be provided to the County. Bonds shall be recorded by the Construction Manager in the official record of the County in which the project is located. The Construction Manager must provide a copy of the bond(s) to all subcontractors and notify them of deadlines to make claims under the bonds.
- 2.2.4 Quality Control The Construction Manager shall develop and maintain a program, acceptable to the County and Architect/Engineer, to assure quality control of the construction (this may include personnel if approved by the County). The Construction Manager shall have a qualified and competent Superintendent to supervise the work of all Subcontractors providing instructions to each when their work does not conform to the requirements of the plans and specifications and shall continue to exert influence and control over each

Subcontractor to ensure that corrections are made in a timely manner so as to not affect the efficient progress of the work. Should disagreement occur between the Construction Manager and Architect/Engineer over acceptability of work and conformance with the requirements of the specifications and plans, the County shall be the final judge of performance and acceptability.

- 2.3 Guaranteed Maximum Price (G.M.P.) and Contract Time
- 2.3.1 Construction Manager acknowledges and agrees the Drawings and Specifications are sufficiently complete for Construction Manager to propose a Guaranteed Maximum Price (G.M.P.), which is the total not to exceed sum of the Construction Manager's Fee and the Cost of the Project. Accordingly, the Guaranteed Maximum Price (G.M.P.) is hereby established at \$486,183.73. The final approved G.M.P. spreadsheet is attached hereto as Attachment "I" and shall become a part of this Contract.
- 2.3.2 The Cost of the Work shall include Construction Manager's contingency, a sum agreed to by all parties, for the Construction Manager's use to cover costs arising from unforeseen conditions in the project. Construction Manager's contingency is hereby established as <u>Two Thousand Dollars (\$2,000.00)</u> within the Guaranteed Maximum Price (G.M.P.).
- 2.3.3 Basis of Guaranteed Maximum Price (G.M.P.)

The Guaranteed Maximum Price (G.M.P.), herein established is based upon the following:

- (1) The list of the Drawings and Specifications, including all addenda thereto, and the Conditions of the Contract, which are identified in the Attachments to this Agreement.
- (2) The list of clarifications and assumptions made by Construction Manager in the preparation of its Guaranteed Maximum Price (G.M.P.) proposal to supplement the information contained in the Drawings and Specifications.
- (3) The Construction Schedule (Attachment "E").
- 2.3.4 Included within the Guaranteed Maximum Price (G.M.P.) is the Construction Manager's fee. The Construction Manager's Fee is hereby established as \$61,187.68 (see breakout in GMP) for services provided in this Agreement. The sum of the Cost of the Project and the Construction Manager's Fee shall not exceed the Guaranteed Maximum Price (G.M.P.). The Construction Manager's Fee shall constitute Construction Manager's total compensation for profit. All costs in excess of the final approved G.M.P. (as reduced by County direct purchases, if any, in accordance with Attachment "C") are the responsibility of

the Construction Manager. Any savings between the G.M.P. (as reduced by County direct purchases) and the sum of the actual cost of the Project plus the Construction Manager's fee will be returned to the County.

- 2.3.5 Prior to issuance of the Construction Phase Notice to Proceed, Construction Manager shall not incur any costs to be reimbursed as part of the Cost of the Project, except as County may specifically authorize in writing.
- 2.3.6 The Guaranteed Maximum Price (G.M.P.) and date of Substantial Completion shall be subject to additions and deductions by a Change Order as provided in the Contract Documents, which must be done in writing by the parties.
- 2.3.7 The Guaranteed Maximum Price (G.M.P.) shall include in the Cost of the Project only those taxes which are enacted and in effect at the time the G.M.P. was determined. The County shall not be responsible for any taxes for which it is exempt from by law.

2.4 Construction Phase

2.4.1 General

- (1) The Construction Phase shall commence on the date identified in the Notice to Proceed to be issued by the County.
- (2) The Construction Manager shall cause all Work required by the Contract Documents to be properly completed in accordance with the terms of the Contract Documents and within the Contract Time.
- (3) Construction Manager's Staff The Construction Manager shall maintain sufficient off-site support staff, and competent full-time staff at the Project site authorized to act on behalf of the Construction Manager and to coordinate, inspect and provide general direction of the work and progress of the subcontractors, and the Construction Manager shall provide no less than those personnel during the respective phases of construction. The Construction Manager shall not change any of those designated persons unless mutually agreed to by the County and Construction Manager. In such case, the County shall have the right of approval of the qualifications of replacement personnel. Such approval will not be reasonably withheld.
- (4) The Construction Manager shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during the progress of the work. The superintendent shall represent the Construction Manager and all communications given to the superintendent shall be as binding as if given to the Construction Manager.

- (5) The superintendent shall be in attendance at the Project site not less than eight (8) hours per day, five (5) days per week, and any time work is being performed at the jobsite, unless the job is closed down due to a general strike or conditions beyond the control of the Construction Manager or until completion or termination of the Contract. It is understood that such superintendent shall be acceptable to the County and the Architect and shall be the one who will be continued in that capacity for the duration of the project, unless the County otherwise agrees. The superintendent shall not be employed on any other project for or by Construction Manager or any other entity during the course of the work.
- Lines of Authority The Construction Manager shall establish and maintain lines of authority for its personnel, and shall provide this description/definition to the County and all other affected parties such as the code inspectors of the permitting authorities, the subcontractors, the Architect/Engineer and the County's representatives, to provide general direction of the work and progress of the various phases and subcontractors. The County and the Architect/Engineer may attend meetings between the Construction Manager and subcontractors, however, such attendance shall not diminish either the authority or responsibility of the Construction Manager to administer the subcontractor.

2.4.2 Administration

- Those portions of the Project that Construction Manager does not customarily (1) perform with Construction Manager's own personnel shall be performed under subcontracts or by other appropriate written agreements with Construction Manager. Construction Manager shall obtain bids from subcontractors and from suppliers of materials or equipment fabricated to a special design and within the time periods established in Attachment "E" for the Project from the list previously reviewed and, after analyzing such bids, shall deliver such bids to the County and Architect/Engineer for review and comment. Based upon that review and comment, Construction Manager shall then determine, subject to the reasonable objection of Architect/Engineer or County, which bids will be accepted. Construction Manager shall not be required to contract with anyone to whom Construction Manager has reasonable objection. Notwithstanding anything herein to the contrary, Construction Manager covenants and agrees that it shall competitively bid all subcontracts. Further, with respect to all such subcontracts, Construction Manager covenants and agrees that it shall select and contract with the lowest, responsive and qualified bidder, unless otherwise consented to in writing by County.
- (2) Subcontracts and agreements with suppliers furnishing materials or equipment fabricated to a special design shall conform with payment provisions and shall

- not be awarded on the basis of cost plus a fee without prior written consent of County.
- (3) Construction Manager shall schedule and conduct weekly meetings at which County, Architect/Engineer, Construction Manager and appropriate Subcontractors can discuss the status of the Project. Construction Manager shall prepare and promptly distribute meeting minutes within two (2) business days after any such meeting is held.
- (4) Construction Manager shall provide Monthly Written Reports to County on the progress of the entire Work. Construction Manager shall maintain a daily log containing a record of weather, subcontractors working on the site, number of workers, Work accomplished, problems encountered and other similar relevant data as County may require. The log shall be available to County at all times.
- 2.5 <u>Professional Services</u> Construction Manager shall not be required to provide professional services which constitute the practice of architecture or engineering, unless such services are specifically required by the Contract Documents for a portion of the Project, or unless Construction Manager has specifically agreed in writing to provide such services. In such event, Construction Manager shall cause such services to be performed by appropriately licensed professionals.
- 2.6 <u>Unsafe Materials</u> If reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance encountered but not created or brought on the site Construction Manager shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to County and Architect/Engineer in writing. County shall be responsible for obtaining the services of a licensed laboratory to verify the presence or absence of the material or substance reported by Construction Manager and, in the event such material or substance is found to be present, to verify that it has been rendered harmless.

In accordance with Section 255.40, Florida Statutes, the County will require that the Construction Manager certify (at project completion) that to the best of his/her knowledge and ability no asbestos-containing materials and/or supplies have been purchased and/or installed on this Project.

(Florida Statute 255.40 Use of asbestos in new public buildings or buildings newly constructed for lease to governmental agencies; prohibition - The use of asbestos or asbestos-based fiber materials is prohibited in any building, construction of which is commenced after September 30, 1983, which is financed with public funds or is constructed for the express purpose of being leased to any governmental entity.)

2.7 Weather Protection - The Construction Manager will be responsible to ascertain what temporary enclosures, if any, of building areas should be provided for and may be provided as a practical matter, in order to assure orderly progress of the work in periods when extreme weather conditions are likely to be experienced. All costs associated with this shall be the responsibility of the Construction Manager.

2.8 Job Site Requirements

- (1) The Construction Manager shall provide for each of the following activities as a part of the Construction Manager's Construction Phase services:
 - Maintain a log of daily activities, including manpower records, weather, delays, major decisions, etc. and require the same of subcontractors
 - Maintain a directory of companies on the Project with names, addresses, telephone numbers, emergency telephone numbers and fax numbers of key personnel.
 - Establish and enforce job rules governing parking, clean-up, use of facilities and worker discipline.
 - d. Provide labor relations management for a harmonious, productive Project.
 - e. Provide a safety program for the Project to meet OSHA requirements. Monitor for Subcontractor compliance without relieving them of responsibilities to perform work in accordance with the best acceptable practice.
 - Provide a quality control program.
 - g. Miscellaneous office supplies that support the construction efforts which are consumed by his own forces.
- 2.9 <u>Job Site Administration</u> The Construction Manager shall provide as part of the Construction Manager's Construction Phase services, administrative functions during construction, including but not limited to, the following:
 - (1) <u>Job Meetings</u> Hold weekly progress and coordination meetings to provide for an easy flowing Project. Implement procedures and assure timely submittals, expedite processing approvals and return of shop drawings, samples, etc. Coordinate and expedite critical ordering and delivery of materials, work sequences, inspection and testing, labor allocations, etc. Review and coordinate each Subcontractor's work. Review and implement revisions to the Schedule. Monitor and promote safety requirements.

Use the job site meeting as a tool for preplanning of work and enforcing schedules and for establishing procedures, responsibilities, and identification of authority for all to clearly understand.

Identify party or parties responsible for follow-up on any problems, delay items or questions and document and implement the course for solution. Revisit each pending item at each subsequent meeting until resolution is achieved. Require all present to make any problems or delaying event known to those present for appropriate attention and resolution.

- (2) Shop Drawing Submittals/Approvals Check Shop Drawings and implement procedures for submittal and transmittal to the Architect/Engineer of such drawings for action, and closely monitor their submittal and approval process. Provide copy of all correspondence to County. Construction Manager will provide one (1) approved Submittal or Shop Drawing to County.
- (3) <u>Material and Equipment Expediting</u> Closely monitor material and equipment deliveries; implement inspection and follow-up procedures on commitments of all Suppliers and Subcontractors.
- (4) Payments to Subcontractor Develop and implement a procedure for review, processing, and payment of applications by Subcontractors for progress and final payments.
- (5) <u>Document Interpretation</u> Refer all questions for interpretation of the documents prepared by the Architect/Engineer to the Architect/Engineer.
- (6) Reports and Project Site Documents Record the progress of the Project. Submit written progress reports to the County and the Architect/Engineer including information on the Subcontractor's work, and the percentage of completion. Keep a daily log available to the County, the Architect/Engineer and the Permitting Authority inspectors.
- (7) Substantial Completion The Construction Manager shall secure the Certificate of Occupancy and notify the County and Architect/Engineer, in writing, that the Project will be ready for inspection to determine if it is substantially complete and ready for inspection on or after a specific date, which date shall be stated in the notice. The notice shall be given at least seven (7) calendar days in advance of said date. Inspection and testing shall take place at time(s) mutually agreeable to the Construction Manager, Architect/Engineer and County. The inspection will be conducted jointly between the Architect/Engineer, County and

Construction Manager's representative. The inspection shall determine if substantial completion has been accomplished and the Architect/Engineer shall produce a Certificate of Substantial Completion (Attachment "J") and a written list of unfinished Work and defective work, commonly referred to as a "Punch List", which must be finished and corrected to obtain final completion.

At the County's option a specific area or segment of the project may be inspected and/or determined substantially complete.

(8) Final Completion - The Construction Manager shall notify the Architect/Engineer and County, in writing, that the Project will be ready for final inspection on or after a specific date, which date shall be stated in the notice. This notice shall be given at least seven (7) calendar days in advance. That inspection and any necessary testing shall be conducted in the same manner as the inspection for Substantial Completion. When the Project is finally and totally complete, including the elimination of all defects, a Certificate of Final Completion (Attachment "K") will be issued by the Architect/Engineer and the Project shall be submitted to the County for final acceptance.

The County and Architect/Engineer shall conduct the inspections. The County may elect to have other persons of its choosing also participate in the inspections. If one or more re-inspections are required, the Construction Manager shall reimburse the County for all costs of reinspection or, at the County's option, the costs may be deducted from payments due to the Construction Manager. The Total Project Schedule shall include these notices and inspections as activities.

The Construction Manager shall secure and transmit to the Architect/Engineer all required guarantees, affidavits, releases, bonds and waivers, manuals, record drawings, and maintenance books as part of final completion (in triplicate) unless stated otherwise in the Project specifications.

- (9) Start-Up With the County's personnel, direct the checkout of utilities, operations, systems and equipment for readiness and assist in their initial start-up and testing by the subcontractors.
- (10) Record Drawings The Construction Manager shall monitor the progress of Work on marked-up field prints which, at Substantial Completion, shall be submitted to the Architect/Engineer who will prepare the final record drawings.

(11) Administrative Records - The Construction Manager will maintain at the job site on a current basis, files and records such as, but not limited to the following:

Contracts and Purchase Orders
Shop Drawing Submittal/Approval Logs
Equipment Purchase/Delivery Logs
Contract Drawings and Specifications with Addenda Cost
Proposal Requests
Meeting Minutes
Lab Test Reports
Contract Changes
Material Purchase Delivery Logs
"As-Built" Marked Prints

Monthly Progress Reports Correspondence Files Transmittal Records Inspection Reports Punch Lists

The Project records shall be available at all times to the County and Architect/Engineer for reference or review.

(12) County Occupancy:

The Construction Manager shall provide services during the Construction Phase which will provide a smooth and successful County occupancy of the Project. The Construction Manager shall provide consultation and project management to facilitate County occupancy and provide transitional services to get the work, as completed by the contractors "on line" in such conditions as will satisfy County operational requirements.

The Construction Manager shall conduct the Construction Manager's preliminary punch list inspection and coordinate the completion of all punch list work to be done with County occupancy requirements in mind.

The Construction Manager shall catalog operational and maintenance requirements of equipment to be operated by maintenance personnel and convey these to the County in such a manner as to promote their usability (in triplicate). The Construction Manager shall provide operational training, in equipment use, for building operators to a maximum of eight (8) hours.

The Construction Manager shall secure required guarantees and warranties, assembled and organized (in a binder) and deliver same, in

triplicate, to the County in a manner that will facilitate their maximum enforcement and assure their meaningful implementation.

The Construction Manager shall continuously review "As-Built" Drawings and mark-up progress prints to provide as much accuracy as possible.

(13) Warranty - Where any work is performed by the Construction Manager's own forces or by Subcontractors under contract with the Construction Manager, the Construction Manager shall warrant that all materials and equipment included in such Work will be new except where indicated otherwise in Contract Documents, and that such Work will be of good quality, free from improper workmanship and defective materials and in conformance with the Drawings and Specifications. With respect to the same Work, the Construction Manager further agrees to correct all work found by the County to be defective in material and workmanship or not in conformance with the Drawings and Specifications for a period of one (1) year from the Date of Final Completion or as may be set forth with respect to specific warranties contained in the trade sections of the Specifications. The Construction Manager shall collect and deliver to the County any specific written warranties given by others as required by the Contract Documents. Also, the Construction Manager shall conduct, jointly with the County and the Architect/Engineer, a warranty inspection nine (9) months after the date of County Occupancy. This warranty inspection will be scheduled by a representative of the County.

ARTICLE 3

COUNTY'S RESPONSIBILITIES

- 3.1 <u>County's Information</u> The County shall provide full information regarding County's requirements for the Project.
- 3.2 <u>County's Representative/Project Director</u> The County shall designate a representative who shall be fully acquainted with the Project and shall define the lines of County authority to approve Project Construction Budgets, and changes in Project. The County's representative shall render decisions promptly and furnish information expeditiously.
- Architect and Engineer's Agreement The County shall retain an Architect/Engineer for design and to prepare construction documents for the Project. The Architect/Engineer's services, duties and responsibilities are described in the Agreement between the County and the Architect/Engineer, a copy of which will be furnished to the Construction Manager upon request.

- 3.4 <u>Approvals and Easements</u> The County shall pay for necessary approvals, easements, assessments and charges required for the construction, use or occupancy of permanent structures or for permanent changes in existing facilities.
- 3.5 <u>Legal Services</u> The County shall furnish such legal services as may be necessary for providing the items set forth in Article 3 and such auditing services as the County may require.
- 3.6 <u>Drawings and Specifications</u> The County will provide to the Construction Manager a reproducible set of all drawings and specifications reasonably necessary and ready for printing.
- 3.7 Cost of Surveys & Reports The services, information, surveys and reports required by the above paragraphs shall be furnished with reasonable promptness in accordance with the approved schedule at the County's expense, and the Construction Manager shall be entitled to rely upon the accuracy and completeness thereof.
- 3.8 <u>Project Fault or Defects</u> If the County becomes aware of any fault or defect in the Project or non-conformance with the drawings and specifications, the County shall give prompt written notice thereof to the Construction Manager and Architect/Engineer.
- 3.9 <u>Funding</u> The County shall furnish, in accordance with the established schedule, reasonable evidence satisfactory to the Construction Manager that sufficient funds will be available and committed for the cost of each part of the Project.
- 3.10 <u>Lines of Communication</u> The County and Architect/Engineer shall communicate with the Subcontractors or Suppliers only through the Construction Manager while such method of communication is effective in maintaining Project schedules and quality.
- 3.11 Lines of Authority The County shall establish and maintain lines of authority for County's personnel and shall provide this definition to the Construction Manager and all other affected parties.
- 3.12 Permitting & Code Inspections The County recognizes and coordinates with the Permitting Authority and expects the Construction Manager to do the same.

ARTICLE 4

PERMITTING AND INSPECTION

- 4.1 Permits, Fees and Notices Unless otherwise provided in the Contract Documents, the Construction Manager shall secure and the County shall pay for any Brevard County building permit or other County permits and governmental fees and licenses necessary for proper execution of the Contract and which are legally required. Any other entity/jurisdiction permits shall be included in the Guaranteed Maximum Price (G.M.P.) and secured and paid for by the Construction Manager. County Impact and Solid Waste fees will also be paid by the County. Copies of all permits shall be submitted to the County.
- 4.2 The Construction Manager shall comply with and give notices required by laws, ordinances, rules and regulations and lawful orders of public authorities bearing on performance of the work required for the Project.
- 4.3 It is not the Construction Manager's responsibility to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations. However, if the Construction Manager observes that portions of the Contract Documents are at variance therewith, and such variance was not discoverable during the Construction Manager's review of these documents for the purpose of determining the G.M.P., the Construction Manager shall promptly notify the Architect/Engineer and County, in writing, and necessary changes shall be accomplished by appropriate modification.
- 4.4 If the Construction Manager performs Work knowing it to be contrary to laws, statutes, ordinances, building codes, and rules and regulations without such notice to the Architect and County, the Construction Manager shall assume full responsibility for such Work and shall bear the attributable costs.

ARTICLE 5

SUBCONTRACTS

- Definition A Subcontractor is a person or organization who has a direct contract with the Construction Manager to perform any of the work. Nothing contained in the Contract Document shall create any contractual relation between the County or Architect/Engineer and any Subcontractor.
- 5.2 <u>Bids/Proposals</u> The Construction Manager shall request and make every attempt to receive, at a minimum, three (3) bids/proposals from Subcontractors and Suppliers and will award those contracts to the most qualified and responsive low bidder <u>after</u> the Construction Manager and County have reviewed each bid/proposal and agree that the Subcontractor is qualified to perform the work.
- 5.3 Required Subcontractor and Subcontract Conditions.

5.3.1 Subcontractual Relations - By an appropriate written agreement, the Construction Manager shall require each Subcontractor to the extent of the work to be performed by the Subcontractor, to be bound to the Construction Manager by the terms of this Agreement and associated Contract Documents, and to assume toward the Construction Manager all the obligations and responsibilities which the Construction Manager by this Agreement, assumes toward the County and the Architect/Engineer. Said agreements shall preserve and protect the rights of the County and Architect/Engineer under the Contract Documents with respect to the work to be performed by the Subcontractor so that the subcontracting thereof will not prejudice such rights. Where appropriate, the Construction Manager shall require each Subcontractor to enter into similar agreements with his Subcontractor's Subcontractor. Any subcontractor shall indemnify the County from any and all liability. Special consideration will be acknowledged as received for such a provision.

The Construction Manager shall make available to each proposed Subcontractor, prior to the execution of the Subcontract, copies of the Contract Documents to which the Subcontractor will be bound by this Article 5.3 and identify to the Subcontractor any terms and conditions of the proposed Subcontract which may be at variance with the Contract Documents. Each Subcontractor shall similarly make copies of such Documents available to his Sub-subcontractor.

- (1) Subcontractors must submit a complete pre-qualification form demonstrating their work experience, financial condition, and adherence to schedule. The Subcontractors financial condition must demonstrate that adequate fixed and liquid assets and equipment are available to properly perform the subcontract.
- (2) Workforce The Subcontractor must agree to perform no less than fifty (50%) percent of the Project construction work utilizing its own forces.
- (3) All subcontracts shall provide:
 - a. LIMITATION OF REMEDY NO DAMAGES FOR DELAY
 The Subcontractor's exclusive remedy for delays in the performance of the
 work outlined herein caused by events beyond its control, including delays
 claimed to be caused by the County or Architect/Engineer or attributable
 to the County or Architect/Engineer and including claims based on breach
 of contract or negligence, shall be an extension of its contract time.

In the event of a change in the work the <u>Subcontractor's</u> claim for adjustments in the contract sum are limited exclusively to its actual cost

for such change, plus, no more than five percent (5%) for profit, and five percent (6%) for overhead.

The subcontract shall require the Subcontractor to expressly agree that the foregoing constitutes its sole and exclusive remedies for delays and changes in the work and, thus, eliminates any other remedies for claim for increase in the contract price, damages, loss or additional compensation.

- b. Each subcontract shall require that any claims by Subcontractor for delays or additional cost must be submitted to Construction Manager within the time and in the manner in which the Construction Manager must submit such claims to the County, and that failure to comply with the conditions for giving notice and submitting claims shall result in the waiver of such claims.
- 5.4 Responsibilities for Acts and Omissions The Construction Manager shall be responsible to the County for the acts and omissions of its employees and agents and its Subcontractors, agents and employees, and all other persons performing any of the work or supplying materials under this contract to the Construction Manager.

ARTICLE 6

6.1 At the time a Guaranteed Maximum Price (G.M.P.) is established, as provided for in Article 7, a Project Substantial Completion Date, a Project Final Completion Date and a County Occupancy Date for completion of the Project shall be established in accordance with Attachment E. The Construction Manager agrees to complete the construction in accordance with the agreed upon Substantial Completion Date, Final Completion Date and County Occupancy Date. The Construction Manager acknowledges that failure to complete the Project within the construction time set forth in the approved schedule will result in substantial damages to the County. TIME IS OF THE ESSENCE WITH RESPECT TO THIS CONTRACT.

It is specifically agreed by and between the parties that the County may deduct a sum in the amount scheduled below from the amount of compensation to be paid to the Construction Manager, Sundays and Holidays included, that the Project remains uncompleted. This amount as scheduled and agreed upon as a proper measure of liquidated damages, which the County will sustain per day by failure of the Construction Manager to complete the Project by the time stipulated in this Agreement, is not to be construed in any sense as a penalty provision. Both parties agree that the below-listed numbers apply based on an estimate of

damages, per day, that are anticipated to result due to the Construction Manager's failure to complete the Project.

Project Substantial Completion
Project Final Completion

\$500 per day \$250 per day

Liquidated Damages will be assessed for each day beyond the contracted project Substantial Completion date, until actual project Substantial Completion is achieved. From the date of Substantial Completion, the Construction Manager shall be granted thirty (30) days for completion of punch list items, associated inspections and approvals, and submission and approval of required closeout documentation, at which time Final Completion shall be obtained. Final Completion liquidated damages will be assessed for each day beyond the thirty (30) days period from actual Substantial Completion.

The date of County Occupancy shall occur as described in Article 2.9(7) and Article 1.3, hereinabove. Warranties called for by this Agreement or by the Drawings and Specifications shall commence on the Date of Final Completion of the Project unless specified otherwise in the Project Specifications.

ARTICLE 7

GUARANTEED MAXIMUM PRICE FOR CONSTRUCTION

- 7.1 The Construction Manager will establish and submit in writing a Guaranteed Maximum Price (G.M.P.) to the County for its approval, guaranteeing the maximum price to the County, for the construction cost of the Project or designated part thereof, based on a review of the contract drawings and specifications. Such G.M.P. will be subject to increase or deduction for changes in the Project as provided in Article 10 and for County direct purchases, if any, in accordance with Attachment "C". All costs in excess of the final approved G.M.P., as adjusted up or down in accordance with the terms of this Agreement, are the responsibility of the Construction Manager. Any savings between the G.M.P., as adjusted, and the sum of the actual cost of the Project plus the Construction Manager's fees, will be withheld by/returned to the County. The G.M.P. includes all taxes in the Cost of the Project which were legally enacted and in effect at the time the G.M.P. was established.
- 7.2 County-Direct Purchases In the event the County opts to make County Direct Purchases, as outlined in **Attachment "C"**, the Guaranteed Maximum Price shall be reduced by the cost of the materials plus applicable sales tax so that all sales tax savings accrue to the benefit of the County. The Construction Manager shall diligently process all County Direct Purchase invoices for the project in order for the County to benefit from applicable vendor discounts. The Construction Manager will be required to submit all invoices to County in sufficient amount of

time in order for the project to benefit from the vendor discount. All costs associated with missed discounts by the Construction Manager will be deducted from the Construction Manager's contract via deductive change order at project completion. County reserves the right to waive the Construction Manager's responsibility for missing discounts.

At the time of execution of the contract, the Construction Manager will verify the time schedule for activities and work which is adopted by the Construction Team and used to determine the Construction Manager's cost of work. Surplus funds from bids received below the applicable line items, including line items within the General Conditions, in the G.M.P. will be set aside for contingency. Construction contingency funds will be used for the purpose of defraying the expenses due to unforeseen circumstances relating to construction. The Construction Manager will be required to furnish documentation evidencing expenditures charged to this contingency prior to the release of funds by the County. Documentation for use of the Contingency shall be determined by the Construction Team. The Architect/Engineer and County shall verify and approve the actual costs.

If bids are received above the applicable line item in the G.M.P. the deficiency will be taken from the contingency via an approved Authorization to Initiate Work/G.M.P. Realignment form. However, such events shall not be cause to increase the G.M.P. If bids are not received for a portion of the work at or below the applicable line item amount in the G.M.P., the Construction Manager reserves the right to perform that portion of the work or negotiate for its performance for the specified line item lump sum amount or less.

ARTICLE 8

CONSTRUCTION MANAGER'S FEE

- 8.1 In consideration of the performance of the contract, the County agrees to pay the Construction Manager as compensation for his services fees as set forth in Subparagraphs below subject to the retainage specified below.
 - (1) Construction Phase Fee Prior to commencement of the Construction Phase, the County will direct the Construction Manager in writing to proceed into the Construction Phase. The County retains the right to review the need and effectiveness of any employee or employees assigned by the Construction Manager, should the Project Director question the need for the employee or employees. A percentage of the agreed upon Construction Phase Fee shall be paid monthly based on percentage (%) of work completed, less retainage, in accordance with subsection 12.1 below. The Construction Manager's first monthly Certificate for Payment shall be submitted no earlier than thirty (30) days

following the issuance of the Notice to Proceed, and the final monthly payment shall be paid only when construction of the Project is finally completed, all original, final release of liens are received, closeout documentation has been submitted and occupancy of the Project accepted by the County. If construction is authorized only for a part of the Project, the fee paid shall be proportionate to the amount of work authorized by the County.

- (2) Adjustments in Fee For changes in the Project as provided in Article 10, the Construction Phase fee shall be adjusted as follows:
 - (a) The Construction Manager shall be paid an additional fee subject to negotiation if the Construction Manager is placed in charge of reconstruction of an insured or uninsured loss excluding any condition that may have been caused from negligent acts by the Construction Manager, subcontractors or others for whose acts the Construction Manager is responsible.
- (3) Costs and Expenses Included in Construction Manager's Construction

 Phase Fee The following are included in the Construction Manager's fee
 for services during the Construction Phase and are included in the G.M.P.

 (See Attachment "L" for Allowable Costs, Overhead associated with the
 Construction Manager's Construction Phase Fee referenced in Article 8):
 - (a) Corporate costs including expenses and overhead and profit related to this project by the Construction Manager's principal and branch offices.
 - (b) Costs of all data processing, accounting, purchasing and associated staff which is performed at the home office.
 - (c) General operating expenses incurred in the management and supervision of the project, except as expressly included in Article 9.
 - (d) Salaries or other compensation of the Construction Manager's employees at his principal and branch offices.
 - (e) Those services set forth in Paragraph 2.1, 2.2, 2.3 and 2.4; except as expressly included in Article 9.
 - (f) Relocation expenses for Construction Manager's personnel.
 - (g) Costs of all project estimating, safety, scheduling and accounting staff.
- 8.1.3 The Construction Manager will establish and submit in writing to the County for approval a Guaranteed Maximum Price, guaranteeing the maximum price to the County, for the construction cost of the Project or designated part thereof, based on a review of the contract drawings and specifications. Such Guaranteed Maximum Price will be subject to

modification for changes in the Project as provide in Article 10. However, the actual price paid for the Work by the County shall be (1) the Cost of the Project as defined in Article 9, plus the Construction Manager's fees, or (2) the GMP, whichever is less, when the Work is complete. All costs in excess of the final approved GMP are the responsibility of the Construction Manager.

ARTICLE 9

COST OF THE PROJECT

9.1 <u>Definition</u> - The term "Cost of the Project" shall mean costs reasonably and necessarily incurred in the Project during the Construction Phase for construction services and paid by the Construction Manager which are included in the Construction Phase Fee, less County direct purchases made in accordance with Attachment "C" upon completion of the Project. Such costs shall include the items set forth below in this Article, and shall also include, but are not limited to, those set forth in Attachment "M" - "Allowable General Conditions".

The County agrees to pay the Construction Manager for the Cost of the Project subject to the limits set forth in Articles 9.2 and 9.3 plus the Construction Manager's fees stipulated in Article 8, provided the total does not to exceed the GMP.

- 9.2 <u>Direct Cost Items</u> (See Attachment "M" "Allowable General Conditions")
 - (1) Labor wages paid for the on-site Project Superintendent directly responsible for the operation and supervision of the project, clerical and Quality Control personnel (as opposed to wages paid to management or supervisory personnel who are not part of the on-site project management) in the direct employ of the Construction Manager in the performance of the Construction Manager's work under this Agreement, acceptable salary or wage schedules and such fringe benefits, if any, as may be payable with respect thereto (labor burden not to exceed 40% for payroll and 15% for per diem).
 - (2) Payments due to Subcontractors from the Construction Manager or made by the Construction Manager to Subcontractors for their work performed pursuant to contract under this Agreement.
 - (3) Cost of the premiums for insurance <u>above and beyond the minimum</u> required by <u>Brevard County</u> (\$1 million) and cost of premiums for bonds which the Construction Manager is required to procure by this Agreement specifically for the construction of this project.

- (4) Sales, use, gross receipts or similar taxes related to allowable direct costs of the Project imposed by a governmental authority, and for which the Construction Manager is liable. No costs shall be paid by the County to the Construction Manager for any expenses made necessary to correct defective workmanship or to correct any work not in conformance with the Plans and Specifications or to correct any deficiency or damage caused by negligent acts by the Construction Manager.
- (5) If approved by the County, the Construction Manager, when qualified, may self-perform all or a portion of the work for any item listed on the estimate or G.M.P. breakdown where it is deemed advantageous due to schedule or economic benefit for the direct cost of the work.
- (6) Legal costs reasonably and properly resulting from prosecution of the Project for the County, including handling claims for changes by subcontractors and vendors, subject to the following limitations:
 - (a) The County approved incurring such costs in advance, which approval shall not be unreasonably denied; and
 - (b) The legal costs were not incurred as result of the Construction Manager's own negligence or default.
- (7) Costs for such temporary facilities during construction, as approved by the County, including temporary water, heat, power, sanitary facilities, telephones, radios and computers with software.

9.3 Allowances

Within the G.M.P., there may be specific items which the Construction Manager and County have agreed to include as allowances in the estimates until such time as the cost and schedule impact of these items can be more specifically ascertained. At the time that the Costs of the Work of allowance items becomes known (either through a subcontract price or by virtue of either (A) scope of work and cost agreed to by Construction Manager and County or (B) an actual buyout of the item), the G.M.P. and Scheduled Completion Date will be adjusted (either increased or decreased) by the actual Costs of the Work and schedule impact of the item. With respect to increases and decreases to the amount of an allowance item, Construction Manager shall be entitled to the Construction Manager's fee, subject to the limits set forth in Article 8, on the adjusted amount of such allowance, and the G.M.P. shall be adjusted by reason thereof, by Change Order. Allowances must be agreed to by both parties. Allowances included within the G.M.P. constitute approval of said allowances at the time the Guaranteed Maximum Price is approved.

9.4 Public Records Law and Audit Requirements

In the performance of this Contract, the Construction Manager shall keep books, records and accounts of all activities related to the Contract in compliance with generally accepted accounting procedures and in compliance with the Public Records Laws of the State of Florida (Including, but not limited to Chapter 119, Florida Statutes).

All records or documents created by Construction Manager or provided to Construction Manager by the County in connection with the activities or services provided by Construction Manager under the terms of this agreement, are public records and Construction Manager agrees to comply with any request for such public records or documents made in accordance with Section 119.07, Florida Statutes.

Records, documents, books and accounts ordinarily and necessarily required for the performance of this Contract shall be kept, maintained and open to inspection by the County, County's representative, and members of the public during regular business hours.

The Construction Manager shall provide the public with access to public records on the same terms and conditions that the public agency provides the records and at a cost that does not exceed the cost provided for in Chapter 119, Florida Statutes, or as otherwise provided by law (see also County Administrative Order, AO-47).

The Construction Manager shall also ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

No reports, data, programs or other materials produced, in whole or in part for the benefit and use of the County, under this Contract shall be subject to copyright by Construction Manager in the United States or any other country.

The Construction Manager shall meet all requirements for retaining public records and shall transfer, at no cost, to the County all public records in possession of the Construction Manager upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the County.

Failure to comply with the provisions of this Section 9.4, shall result in the County taking enforcement action against the Construction Manager including the cost to the County for gaining the Construction Manager's compliance which will include, but are not limited to, the gross hourly rate of the County's

employee(s) contacts to the Construction Manager to obtain compliance with this section, litigation filing fees and attorney's fees.

IF THE CONSTRUCTION MANAGER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSTRUCTION MANAGER'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS FOR THE FACILITIES DIVISION, MARY BOWERS AT (321) 633-2050, mary.bowers@brevardfl.gov, 2725 Judge Fran Jamieson Way, Suite A207, Viera, FI 32940.

ARTICLE 10

CHANGES IN THE PROJECT

- 10.1 Change Orders The County, without invalidating this Agreement, may order Changes in the Project within the general scope of this Agreement consisting of additions, deletions or other revisions which may cause an increase or decrease in the G.M.P., and/or the Construction Completion Date. All changes in the Project G.M.P. or Construction Completion Date not covered by an authorized contingency, as described in Article 7.3 must be authorized by a written Change Order or Construction Change Directive, and signed by the County, Architect/Engineer and Construction Manager before the change is implemented. It shall be the County's discretion as to whether each change order requires the Architect/Engineer signature. Maximum allowable mark-up on any change order is 5% Profit, 5% Overhead, and a 2% Bond.
- A Construction Change Directive is a change directive signed by the Project Director and the County Manager directing an addition, deletion, or revision in the scope of work and/or schedule. The Construction Change Directive is necessary when no Agreement exists among the Architect/Engineer of record, County and the Construction Manager on the dollar amount of a necessary change in the scope of work and/or an extension of time to the construction contract. The Construction Change Directive is used (1) when an unsafe, hazardous or other similar condition exists; (2) when failure to achieve prompt resolution of the change will result in a demobilization of the Construction Manager, its subcontractors and/or agents; or (3) when failure to achieve prompt resolution will result in additional cost, and/or a significant delay in completing the project. A Construction Change Directive does not change the contract price or the contract time, but is evidence that the parties expect that the change will

be incorporated in a subsequently issued Change Order or be covered by an authorized contingency.

- A Change Order is a written order to the Construction Manager signed by the County, Architect/Engineer, and Construction Manager, issued after the execution of this Agreement, authorizing a change in the Project and/or an adjustment in the construction authorization, the Construction Manager's fee, or the Construction Completion date. Each adjustment in the G.M.P. resulting from a change order shall be documented clearly to separate the amount attributable to the cost of the change in the Project from the original cost of the Project.
- 10.1.3 The increase or decrease in the Guaranteed Maximum Price resulting from Change Orders in the Project shall be determined by one of the following ways:
 - (1) by mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation by the Architect/Engineer and County;
 - by unit prices stated in the Agreement or subsequently agreed upon;
 - (3) by cost as defined in Article 9 plus a mutually acceptable fixed or percentage fee; or
 - (4) by the method provided in Subparagraph 10.1.4.
- 10.1.4 If none of the methods set forth in Subparagraph 10.1.3 is agreed upon, the Construction Manager, provided he receives a written order signed by the County, shall promptly proceed with the work required by the Construction Change Directive involved. The cost of such work shall then be determined on the basis of the reasonable expenditures and savings of those performing the work attributed to the change. However, in the event a Change Order is issued under these conditions, the Architect/Engineer will establish an estimated cost of the work and the Construction Manager shall not perform any work whose cost exceeds that estimate without prior written approval by the County. In such case, and also under Article 10.1.3 above, the Construction Manager shall keep and present, in such forms as the County may prescribe, an itemized accounting together with appropriate supporting data of the increase in the Cost of the Project as outlined in Article 9. The amount of decrease in the Guaranteed Maximum Price to be allowed by the Construction Manager to the County for any deletion or change which results in a net decrease in cost will be the amount of the actual net decrease in the Cost of the Project and the Construction Manager's fee subject to the limits set forth in Article 7.

- 10.1.5 If unit prices are stated in the Agreement or subsequently agreed upon and if the quantities originally contemplated are so changed in a proposed Change Order that application of the agreed unit prices to the quantities of Work proposed will cause substantial inequity to the County or the Construction Manager, the applicable unit prices and Guaranteed Maximum Price shall be equitably adjusted.
- 10.1.6 Should the Construction Manager or his contracted subcontractors encounter:
 - concealed conditions in the performance of the Work below the surface of the ground; or
 - (2) concealed or unknown conditions in an existing structure be at variance with the conditions indicated by the Drawings, Specifications, or County furnished information; or
 - (3) unknown physical conditions below the surface of the ground; or
 - (4) concealed or unknown conditions in an existing structure of an unusual nature; differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Agreement, then the Guaranteed Maximum Price and the Construction Completion date shall be equitably adjusted by Change Order upon a request for Change Order in accordance with Article 10.2. and Article 11.

Upon discovery of concealed or unknown conditions, the Construction Manager shall notify the County and Architect/Engineer within twenty-four (24) hours of discovery, and not proceed with Work until such notice has been given and a response is issued by the County. The Architect/Engineer will evaluate the alleged unknown or concealed condition and, if warranted, recommend to the County that the G.M.P. and schedule be increased or decreased accordingly. No claim under this Article may be made unless notice, as herein provided, is given prior to Work being performed. No equitable adjustment shall be permitted if this notice provision is not complied with.

Within ten (10) calendar days of submitting its Notice, the Construction Manager shall submit to the County its Request for Change Order, which shall include a written statement of all details of the claim, including a description of the work affected. Within thirty (30) days from Notice, the Construction Manager shall submit detailed schedule impact and detailed cost analysis indicating quantities, unit prices, etc.

The Construction Manager shall review any County directed change and shall respond in writing within seven (7) calendar days after receipt of the proposed change (or such other reasonable time as the County may direct), stating the effect of the proposed change upon the Construction Manager's Work, including any increase or decrease in the contract time or price. The Construction Manager shall furnish to the County an itemized breakdown of the quantities and prices used in computing the change in Contract price.

The County and Architect/Engineer shall review the Construction Manager's proposal and respond to the Construction Manager within seven (7) calendar days of receipt. If a change to the Contract price and time for performance are agreed upon, both parties shall sign the Change Order. Changes to the Contract time and/or price shall be effective when signed by both parties. It shall be the County's discretion as to whether each change order requires the Architect/Engineer signature.

10.2 Claims for Additional Cost or Time

All claims for additional cost or time shall be made by request for a change order submitted as provided in Article 16.

- of the Construction Manager is delayed at any time in the progress of the work by any act or neglect of the County or the Architect/Engineer, or of any employee of either; or by any separate Construction Manager employed by the County; or by any changes in the work caused by labor disputes, fire, or unusual delay in transportation, unavoidable casualties, or any causes beyond the Construction Manager's control that did not exist at the time this Contract was entered into or for which the Construction Manager should have been aware of at the time this Contract was entered into; or by delay authorized by the County pending resolution of disputes, and such delay extends the completion date, then the Substantial Completion date shall be extended by Change Order for such reasonable time as the Construction Team may determine.
- (2) All change orders must indicate that the Contract Time for Completion is not changed or is either increased or decreased by a specific number of days. The previous Time for Completion and, if there is one, the new Time for Completion must be stated. The Construction Manager must provide written justification for an extension of the Time for Completion to the Architect/Engineer and to the County. The written justification must demonstrate an anticipated actual increase in the time required to complete the Work beyond that allowed by the Contract as adjusted by prior

change orders or amendments to the Contract, not just an increase or decrease in the time needed to complete some portion of the total Work. No increase to the Time for Completion shall be allowed unless the additional or changed Work increases the length of the critical path. Approved increases in time required to complete the Work shall be added to the Time for Completion. Decreases in time as a result of the change order shall be demonstrated by a decrease in the critical path of the Work if CPM scheduling is properly used and updated by the Construction Manager. If no CPM is used the County shall determine the appropriate decrease by the best means possible. Approved decreases in the time needed to complete the Work shall be deducted from the Contract completion date. The change to time and Contract price allowed by each change order shall include all time and monetary impacts of the change, whether the change order is considered alone or with all other changes during the course of the project. Failure to include a change to time and Contract price in a change order shall waive any change to the time and Contract price unless the parties mutually agree in writing to postpone a determination of the change to time and price resulting from the change order. Such a determination may be postponed not more than forty-five (45) days to give the Construction Manager an opportunity to demonstrate a change in the time and price needed to complete the Work.

Only delays which are determined to extend the critical path for the schedule for constructing the Project will result in a time extension. Neither the County nor the Construction Manager shall be considered to own the schedule float time.

10.3 Minor Changes in the Project (Realignment of Work)

The County and/or Architect/Engineer will have authority to order minor changes in the Project not involving an adjustment in the Guaranteed Maximum Price or an extension of the Construction Completion Date and not inconsistent with the intent of the Drawings and Specifications. Such changes shall be affected by written order. Documentation of changes shall be determined by the Construction Team, and included in the Project Manual. Changes shall be approved by the Project Director, Architect/Engineer. It shall be the County's discretion as to whether a Realignment of Work requires the Architect/Engineer signature. All changes or realignments of work performed within the Guaranteed Maximum Price will not include overhead, profit or General Condition additional costs, since costs are absorbed within the Guaranteed Maximum Price (G.M.P.).

10.4 In any emergency affecting the safety of persons or property, the Construction Manager shall act at his discretion, to prevent threatened damage, injury or loss.

Any increase in the Guaranteed Maximum Price or extension of time claimed by the Construction Manager on account of emergency work shall be determined as provided in Article 10.

ARTICLE 11

DISCOUNTS

All discounts for prompt payment shall accrue to the County to the extent the Cost of the Project is paid directly by the County or from a fund made available by the County to the Construction Manager for such payments.

To the extent the Cost of the Project is paid with funds of the Construction Manager, all cash discounts shall accrue to the Construction Manager. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment, shall be credited to the Cost of the Project.

ARTICLE 12

PAYMENTS TO THE CONSTRUCTION MANAGER

- 12.1 Monthly Statements The Construction Manager shall submit to the County a sworn statement along with the Certificate for Payment, showing in detail all monies paid out, cost accumulated or costs incurred on account of the Cost of the Project during the previous period and the amount of the Construction Manager's fees due as provided in Article 8. This data shall be attached to the Certificate for Payment Form shown in Attachment "N", and shall include, but not be limited, to the following:
 - Daily Reports;
 - Updated Project Schedule;
 - Daily Red line As-Builts review;
 - Provide a billing report with each payment application that shows a breakdown of costs incurred by line item. This report should correspond with the amounts being charged on the Schedule of Values.
 - Provide backup copies of all invoices that the County is being billed for, including vendor invoices, payments to subcontractors, cell phone statements, insurance, petty cash receipts, etc. These invoices should be coded by the line item that they correspond to on the billing report and Schedule of Values.
 - Provide backup copies and documentation of all costs incurred under General Conditions.

- Provide backup copies of all payroll that details which labor amounts were paid to whom on a weekly basis.
- Provide copies of all subcontractor agreements.
 - * The amounts charged on the Payment Application must be accurate and correspond with the total dollar amount of backup provided by the Construction Manager.

Payment by the County to the Construction Manager of the statement amount shall be made in accordance with Florida Statute 218,735.

Ten percent of each payment shall be held by the COUNTY as retainage until 50-percent completion of such Project, which shall be deemed to have occurred when 50% of the GMP, as increased or decreased from time to time, has been expended. At that time, the retainage shall be reduced to 5% and the Construction Manager shall be entitled to request payment or release of up to 50% of the previously withheld retainage amounts, provided the retainage is not the subject of a good faith dispute, the subject of a claim brought pursuant to s. 255.05. Florida Statutes or otherwise the subject of a claim or demand by the COUNTY.

The parties agree that the retainage amount can be kept at ten percent (10%) through 50-percent completion of the Project as the Continuing Construction Manager (at risk) Services Agreement governing this Agreement was entered into in 2018 despite the cap outlined in Section 255.078, Florida Statutes, reducing the retainage to five percent (5%). County may refuse to certify payment and withhold a Certificate for Payment in whole or in part, in accordance with subsection(s) above, to such extent as may be reasonably necessary to protect the County from loss because of:

- (1) defective work not remedied;
- (2) third party claims filed or reasonable evidence indicating probably filing of such claims;
- (3) failure of Construction Manager to make payments properly to subcontractors, consultants, or for labor, materials or equipment;
- (4) evidence that the Project cannot be completed for the unpaid balance of the GMP, as adjusted;
- (5) evidence that the Work will not be completed by the Scheduled Completion Date, as adjusted, and that the unpaid balance would not be adequate to cover the liquidated damages for the anticipated delay:
- (6) failure to carry out the Work of the Project in accordance with the Contract Documents; or

If the County is unwilling to certify payment in the amount of the Application for Payment submitted by the Construction Manager, County will provide

Construction Manager with written reasons for its refusal, within three (3) calendar days. If Construction Manager and County cannot agree on a revised amount, County will, within one (1) day of the aforesaid notification, promptly issue a Certificate for Payment as to the undisputed amount with respect to which County concurs.

- Final Payment Final payment constituting the unpaid balance of the Cost of the Project and the Construction Manager's fee, shall be due and payable in accordance with Florida Statutes after an acceptable Certificate of Final Completion has been issued and all contractual closeout obligations have been met by the Construction Manager. Before issuance of final payment, the Construction Manager, subcontractors and agents shall submit original, sworn, notarized statements that all payrolls, material bills, and other debts connected with the Project have been paid or otherwise satisfied, warranty information is complete, Final As-Builts in AutoCad format acceptable to the County, have been submitted and instruction and documentation for the County's operating and maintenance personnel is complete.
- 12.3 Payments for Materials and Equipment Payments will be made for material and equipment not incorporated in the work but insured, itemized, delivered and suitably stored at the site or another location subject to prior approval and acceptance by the County on each occasion.
- 12.4 Withholding Payments to Subcontractors The Construction Manager shall not withhold payments to Subcontractors if such payments have been made to the Construction Manager. Should this occur for any reason, the Construction Manager shall immediately return such monies to the County, adjusting pay requests and project bookkeeping, as required.

ARTICLE 13

INSURANCE, INDEMNITY WAIVER OF SUBROGATION

Indemnification - The Construction Manager agrees to indemnify and hold harmless the County and their employees from all claims, losses and expenses, arising out of or resulting from the performance of the products or services to be contracted, provided such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease, death or personal injury, or to property damage, including loss of use resulting therefrom, (but not loss of use for which liquidated damages are assessed under the Agreement) and (2) is caused in whole or in part by any negligent, willful, intentional, knowing, or reckless act or omission of the Construction Manager, any subcontractor, any of their employees and/or

agents in the performance of this contract. The Construction Manager agrees that it will pay the costs of the County's legal defense, including fees of attorneys as may be selected by the County, and shall defend, satisfy, and pay any judgments which may be rendered against the County in connection with the above hold harmless agreement. The Construction Manager acknowledges specific consideration has been received for this hold harmless/indemnification provision. The County's liability obligations hereunder shall be subject to the right of sovereign immunity and limited to the extent of the protections of and limitations on damages as set forth in Section 768.28, Florida Statutes. Nothing in this Agreement is intended to inure to the benefit of any third party for the purpose of allowing any claim which would otherwise be barred under the doctrine of sovereign immunity or by operation of law. Nothing herein shall constitute a waiver of the County's sovereign immunity.

(2) The County shall cause any other Construction Manager who may have a contract with the County to perform construction or installation work in the area where work will be performed under this Agreement, to agree to indemnify the County and the Construction Manager and hold them harmless from all claims for bodily injury and property damage (other than property insured under Paragraph 13.2(3)) that may arise from the Construction Manager's operations.

Loss Deductible Clause - Brevard County Board of County Commissioners shall be exempt from, and in no way liable for, any sums of money which may represent a deductible in any insurance policy. The payment of such deductible shall be the sole responsibility of the Construction Manager and/or Subcontractor providing such insurance.

13.2 Insurance

- (1) The Construction Manager shall not commence any construction work in connection with this Agreement until the Construction Manager has obtained all of the following types of insurance and such insurance certificate(s) have been submitted to the County and have been approved by the County, nor shall the Construction Manager allow any Subcontractor to commence work on his subcontract until all insurance required of the Subcontractor has been so obtained and approved. All insurance policies shall be with insurers qualified and doing business in the State of Florida.
- a. <u>Workers' Compensation and Employer's Liability Insurance</u> Workers

 Compensation insurance providing statutory benefits as required in the State of Florida. The Contractor shall require any subcontractor to provide evidence of

this coverage. Additionally, if the contract requires working on or around a navigable waterway, the Contractor and all subcontractors shall provide evidence of United States Longshoremen's and Harbor Workers (USL&H) coverage and contingent coverage of Jones Act (Marine Employers Liability) in compliance with Federal statutes or proof of exemption. The Contractor shall be responsible for compliance with these requirements by each subcontractor, vendor or supplier.

- b. <u>Commercial General Liability</u> Including but not limited to bodily injury, property damage and personal injury with limits of not less than \$1,000,000.00 combined single limit per occurrence, including products and completed operations, to include:
 - "XCU" (Explosion, Collapse, Underground Damage) The Construction Manager's Liability Policy shall provide "XCU" coverage.
 - Broad Form Property Damage Coverage, Products and Completed Operations Coverage - The Construction Manager's Liability Policy shall include Broad Form Property Damage Coverage, Products and Completed Operations Coverages.
 - 3. Contractual Liability Work Contracts The Construction Manager's Liability Policy shall include Contractual Liability Coverage designed to protect the Construction Manager for confractual liabilities assumed by the Construction Manager in the performance of this Agreement.
- Automobile Liability Including bodily injury, property damage liability for all vehicles owned, hired, leased and non-owned with limits of not less than \$1,000,000.00 combined single limit, per accident.
- d. Construction Bond With limits of not less than 100% of the total construction cost of this project. Construction Bond shall be recorded in the official record of the County in which the project is located. These bonds shall remain in effect at least until one (1) year after the date when the final payment is approved. Any bonding company submitting a Bid Bond or Construction Bond to Brevard County must be licensed to transact a fidelity and surety business in the State of Florida, and hold a Certificate of Authority from the Secretary of the Treasury under Act of Congress, approved by July 30, 1947 (U.S.C. 613), and approved by Brevard County. Acceptable surety companies shall be licensed to do

business in Florida and shall have an A.M. Best Rating of "A-" and financial size V or higher.

e. <u>Builder's Risk Coverage</u> - The Construction Manager shall take out and maintain during the life of this Agreement a "Builder's Risk Policy" completed value form as a cost of the Project, issued to provide coverages on an "all risk" basis including theft. This coverage shall not be lapsed or canceled because of partial occupancy by the County prior to final acceptance of the Project.

The Construction Manager shall require each of his Subcontractors to procure and maintain insurance during the life of the respective subcontracts.

(2) <u>Certificate of Insurance</u> - The County shall be furnished proof of coverage of Insurance as follows:

Certificate(s) of Insurance will be furnished to the County within <u>five (5)</u> days of Notice to Proceed. These shall be completed and signed by the authorized Resident Agent, and shall be dated and show:

- (1) The name of the insured Construction Manager, the specific job by name and job number, the name of the insurer, the number of the policy, its effective date, and its termination date.
- (2) The General Liability and Auto Liability certificates of insurance shall indicate that the policies have been endorsed to cover the County as an additional insured to the extent of liability assumed by the Construction Manager under this Agreement, and that these policies may not be canceled or modified without thirty (30) days prior written notice to the County.
- (3) The insurance coverages enumerated above constitute the minimum requirements and shall in no way lessen or limit the liability of the Construction Manager under the terms of the Contract.

*Certificates of Insurance shall be submitted to the County within five (5) days of Notice to Proceed, and no work shall commence on site until all submitted Certificates of Insurance are acceptable to the County.

- (1) The County and the Construction Manager waive all rights against each other, for damages caused by perils covered by insurance provided under Article 13.2 to the extent covered by such insurance except such rights as they may have to the proceeds of such insurance held by the County and Construction Manager as trustees. The Construction Manager shall require similar waivers from all Subcontractors and their Subsubcontractors.
- (2) The County and Construction Manager waive all rights against each other for loss or damage to any equipment used in connection with the Project and covered by any property insurance. The Construction Manager shall require similar waivers from all subcontractors and their subsubcontractors.
- (3) The County waives subrogation against the Construction Manager on all property and consequential loss policies carried by the County on adjacent properties and under property and consequential loss policies purchased for the Project after its completion.
- (4) If the policies of insurance referred to in this Article require an endorsement to provide for continued coverage where there is a waiver of subrogation, the County of such policies will cause them to be so endorsed. Failure to obtain proper endorsement nullifies the waiver of subrogation.

ARTICLE 14

TERMINATION OF THE AGREEMENT AND COUNTY'S RIGHT TO PERFORM CONSTRUCTION MANAGER'S OBLIGATION

14.1 Termination by the Construction Manager - If the Project is stopped for a period of thirty (30) days through no act or fault of the Construction Manager, a subcontractor, or any of its agents or employees, or any other persons performing any of the work under a contract with the Contractor, and due to: (1) a court order; (2) an order of a governmental authority having jurisdiction; or (3) as a result of an act of government, such as a declaration of a national emergency making materials unavailable, then the Construction Manager may, upon seven (7) days written notice to the County, request undisputed payment for all work executed, the Construction Manager's fee earned to date, and for any proven loss sustained upon any materials, equipment, tools, construction equipment, and machinery, including reasonable profit, damages and terminal expenses incurred by the Construction Manager.

14.2 County's Right to Perform Construction Manager's Obligations and Termination by County for Cause -

- (1) If the Construction Manager fails to perform any of its obligations under this Agreement, the County may, after seven (7) days written notice to the Construction Manager and the Surety(ies), during which period the Construction Manager fails to perform such obligations, make good such deficiencies. The G.M.P., or the actual cost of the Project, whichever is less, shall be reduced by the cost to the County to address such deficiencies and the Construction Manager's Construction Phase Fee shall be reduced by an amount required to manage the remedial action to address such deficiencies.
- (2) If the Construction Manager is adjudged bankrupt; or if he makes a general assignment for the benefit of his creditors or if a receiver is appointed on account of his insolvency; or if he persistently or repeatedly refuses or fails, except in case for which extension of time is provided to supply enough properly skilled workmen or proper materials and fails to maintain the established schedule (failure to maintain schedule shall be defined as any activity on the critical path that falls forty-five (45) days or more behind schedule) which has been adopted in Attachment E; or if he fails to make prompt payment to subcontractors for materials or labor; or persistently disregards laws, rules, ordinances, regulations, or orders of any public authority having jurisdiction, or otherwise is guilty of a substantial violation of a provision of the Agreement, then the County may, without prejudice to any right or remedy and after giving the Construction Manager and his surety, if any, seven (7) days written notice, during which period Construction Manager fails to cure the violation, terminate the employment of the Construction Manager and take possession of the site and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Construction Manager, and may finish the Project by whatever method he may deem expedient. In such case, the Construction Manager shall not be entitled to receive any further payment until the Project is finished nor shall he be relieved from his obligations assumed under Article 7. Reasonable termination expenses incurred by the County may be deducted from any payments left owing the Construction Manager (excluding monies owed the Construction Manager for subcontract work).

14.3 Termination by County for Convenience

(1) If the County terminates this Agreement other than pursuant to Article 14, it shall reimburse the Construction Manager only for the costs incurred up to the point the notice of termination was received by the Construction

Manager for any unpaid, uncontested cost of the Project due him under Article 9. The County shall also pay to the Construction Manager fair compensation, either by purchase or rental at the election of the County, for any equipment retained. In case of such termination of Agreement the County shall reimburse the Construction Manager for obligations and commitments made before notice of termination was received by the Construction Manager.

- (2) After the establishment of the Guaranteed Maximum Price or at the completion of the Construction Phase, if the final cost estimates or lack of legislative funding make the Project no longer feasible from the standpoint of the County, the County may terminate this Agreement and pay the Construction Manager his proportionate fee due in accordance with Article 8.1, plus any costs incurred pursuant to Articles 9 and 10.
- (3) Any termination by County, for cause, which is later determined to be invalid shall be considered a termination by County for convenience.

14.4 Termination for Prohibition Against Contracting with Scrutinized Companies

(1) The Construction Manager certifies that it and its subcontractors are not on the Scrutinized Companies that Boycott Israel List. Pursuant to Section 287.135, F.S., the County may immediately terminate this Agreement at

its sole option if the Construction Manager or its subcontractors are found to have submitted a false certification; or if the Construction Manager, or its subcontractors are placed on the Scrutinized Companies that Boycott Israel List or is engaged in the boycott of Israel during the term of the Agreement.

If this Agreement is for more than one million dollars, the Construction Manager certifies that it and its subcontractors are also not on the Scrutinized Companies with Activities in Sudan, Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria as identified in Section 287.135, F.S. Pursuant to Section 287.135, F.S., the County may immediately terminate this Agreement at its sole option if the Construction Manager, its affiliates, or its subcontractors are found to have submitted a false certification; or if the Construction Manager, its affiliates, or its subcontractors are placed on the Scrutinized Companies that Boycott the Scrutinized Companies with Activities in Sudan List, or Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or engaged with business operations in Cuba or Syria during the term of the Agreement.

The Construction Manager agrees to observe the above requirements for applicable subcontracts entered into for the performance of work under this Agreement.

- As required by Section 287,135(5), Florida Statutes, prior to entering into an agreement/contract (formal contract or purchase order in excess of \$1 million dollars to provide goods or services to County/Brevard County, Individual with authority to execute this Agreement for the Construction Manager shall file a sworn statement with the contracting officer or Purchasing Director, as applicable verifying that none of the three conditions above exist. If the Construction Manager is found to have falsified the affidavit attached as Attachment "O", the County/County may terminate the contract.
- (3) If subsequent to the submittal of the attached affidavit, the Construction Manager (1) has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel; (2) is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; or (3) is engaged in business operations in Cuba or Syria, the County/County may terminate the agreement/contract.

ARTICLE 15

ASSIGNMENT AND GOVERNING LAW

- 15.1 Neither the County nor the Construction Manager shall assign his interest in this Agreement without the written consent of the other except as to the assignment of proceeds.
- 15.2 This Agreement shall be governed by the Laws of the State of Florida.
- 15.3 Venue and Attorney's Fees: Venue for any legal action brought by any party to this Agreement to interpret, construe or enforce this Agreement shall be in a court of competent jurisdiction in and for Brevard County, Florida. In the event of any legal action to enforce the terms of this Agreement, each party shall bear its own attorney's fees and costs and ANY TRIAL SHALL BE NON-JURY.
- 15.4 Severability: If any provision of this Agreement is held by a Court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall nevertheless continue in full force without being impaired.

ARTICLE 16

NOTICE OF CLAIM: WAIVER OF REMEDIES; NO DAMAGES FOR DELAY; DISPUTE RESOLUTION

- 16.1 The County's liability to Construction Manager for any claims arising out of or related to the subject matter of this contract, whether in contract or tort, including, but not limited to, claims for extension of construction time, for payment by the County of the costs, damages or losses because of changed conditions under which the work is to be performed, or for additional work, shall be governed by the following provisions:
 - (a) All claims must be submitted as a Request for Change Order in the manner as provided herein;
 - (b) If the Construction Manager claims that any instructions given to him by the Architect/Engineer or by the County, by drawings or otherwise, involve extra Work not covered by the Contract and not discoverable with a review of the plans and specifications, then, except in emergencies endangering life or property, Construction Manager shall give the Architect/Engineer and the County written notice thereof before proceeding to execute the Work. Said notice shall be given promptly enough to avoid delaying the Work and in no instance later than twenty (20) calendar days after the receipt of such instructions.

The Construction Manager must submit a Notice of Claim to the County and to the Architect/Engineer within twenty (20) days of when the Construction Manager was or should have been aware of the occurrence of the event giving rise to the claim; and

(c) Within ten (10) days of submitting its Notice of Claim, the Construction Manager shall submit to the County its Request For Change Order, which shall include a written statement of all details of the claim, including a description of the work affected. Within thirty (30) days from the Notice of Claim the Construction Manager shall submit a detailed schedule impact and detailed cost analysis indicating quantities, unit prices, etc. establishing the basis for the amount of the claim.

The Construction Manager agrees that the County shall not be liable for any claim that the Construction Manager fails to submit as a Request for Change Order as provided in this section.

After receipt of a Request for Change Order, the County, in consultation with the Architect/Engineer, shall deliver to the Construction Manager its written determination of the claim. As to disputed matters subject to the determination by final County action (not actions for breach of contract or

- tort) the County's written decision following compliance with the dispute resolution procedure set forth in sections 16.4 through 16.6 below shall be final County action.
- 16.3 For work the Construction Manager performs with its own forces, and in addition to the adjustments provided for in Article 8, the Construction Manager's exclusive remedy for delays in performance of the construction caused by events beyond its control, including delays claimed to be caused by or attributable to the County or the Architect/Engineer, including claims based on breach of contract or negligence, shall be a claim submitted in compliance with Article 16.1 above, for an extension of the scheduled construction time. In the event of a change in such work that will modify the G.M.P., the Construction Manager's claim for adjustment in contract sum are limited exclusively to its actual costs for such changes, including costs involved in claim preparation, plus five percent (5%) overhead, five percent (5%) profit and a two percent (2%) bond in the General Conditions. The Construction Manager expressly agrees that the foregoing constitute its sole and exclusive remedies for delays and changes in such work, and eliminate any other remedies for claim for increase in the contract price, delays, changes in the work, damages, losses or additional compensation.
- 16.4 In the event of any dispute over a proposed change order or any other matter arising out of the implementation or interpretation of this contract the following dispute resolution process shall apply.
- Within three (3) days after denial of a contractor's change order or (a) contract modification request in an amount, individually or in total, less than the authorized purchasing level approved for the County Manager by the County Commission (currently at \$100,000) the contractor may submit to the County Manager or a designee with experience in the oversight of construction projects for a department or business other than the department responsible for monitoring the disputed request, documentation of the contractor's position in the dispute or disagreement. The County Manager or designee, within five (5) days after the receipt of the contractor's documentation, shall review the request and make a final determination as to whether denial was arbitrary or capricious based upon the sufficiency of the work under the terms of the contract, applicable regulations and relevant construction standards. Based upon the sufficiency and degree of completion, as well as any defects in the work and the amount reasonably required, if any, to correct or repair defective work, the reviewer shall make the final determination as to whether a written change order or contract modification should be approved by the County Manager.

- (b) If the denied request or disputed amount exceeds the County Manager's purchasing authority, the County Manager shall present a report, recommendation and the contractor's claim and documentation, to the County Commission for a final determination within thirty (30) days after receiving the contractor's documentation for the claim. The Commission shall make its decision using the standards specified in subparagraph (a) above.
- 16.5 Within thirty (30) days after denial of a request for a change order or contract modification by the project manager or engineer involving (1) an amount in excess of the County Manager's expenditure authority or (2) for the amount the contractor claims to be due at the time the project is ready for beneficial use or occupation, the County may, at the County's option in lieu of the procedure specified in subparagraph 16.4, submit the dispute to a mediator with knowledge or experience in construction management, as agreed upon by the parties. Upon referral to a mediator, the County and contractor shall each pay half the estimated cost of the mediator, up front. Within fifteen (15) days after the date of submittal, the mediator, applying the standards set forth in subparagraph 16.4, shall investigate the dispute and submit a written recommendation for disposition of the dispute to the County Manager or a designee with the qualifications specified in subparagraph 16.4. Within fifteen (15) days after receiving the mediator's recommendation, the County Manager shall submit the recommendation to the County Commission, along with a staff report analyzing the dispute and mediator's recommendation. Based on the standards set forth in subparagraph 16.4 above, the Commission shall decide whether to grant or deny, in whole or in part, the amounts recommended by the mediator. The Commission's decision will be deemed final action on the disputed claim for the purposes of ripening the decision for judicial review. If the mediator recommends that no change order or contract modification be granted, the contractor shall reimburse the county for any amounts paid by the county to the mediator.
- 16.6 The deadlines for completing the dispute resolution process described in subparagraphs 16.4 and 16.5 may be extended by mutual agreement of the contractor and the county.

ARTICLE 17

COUNTY'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE

CONTRACTS

- 17.1 The County reserves the right to perform construction or operations related to the Project with the County's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Construction Manager claims that a delay or additional cost is involved because of such action by the County, the Construction Manager shall make such claim as provided in this Agreement.
- 17.2 The County shall provide for coordination of the activities of the County's own forces and of each separate contractor with the Work of the Construction Manager, who shall cooperate with them. The Construction Manager shall participate with other separate contractors and the County in reviewing their construction schedules when directed to do so. The Construction Manager shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Construction Manager, separate contractors and the County until subsequently revised.
- 17.3 Unless otherwise provided in the Contract Documents, when the County performs construction or operations related to the project with the County's own forces, the County shall be deemed to be subject to the same obligations and to have the same rights which apply to the Construction Manager under the Conditions of the Contract.
- 17.4 The Construction Manager shall afford the County, and separate contractors, reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities and shall connect and coordinate the Contractor's construction and operations with the Construction Manager, as required.
- 17.5 If part of the Construction Manager's Work depends for proper execution or results upon construction or operations by the County or a separate contractor, the Construction Manager shall, prior to proceeding with that portion of the Work, promptly report to the Architect/Engineer or County apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Construction Manager to report shall constitute an acknowledgment that the County's or separate contractors completed or partially completed construction is fit and proper to receive the Construction Manager's Work, except as to defects not then reasonably discoverable.
- 17.6 Costs caused by delays or by improperly timed activities or defective construction shall be borne by the party responsible thereof.

17.7 The Construction Manager shall promptly remedy damage wrongfully caused by the Construction Manager to completed or partially completed construction or to property of the County or separate contractors.

ARTICLE 18

MISCELLANEOUS

- 18.1 <u>Interest</u> Any monies not paid when due to either party under this contract shall not bear interest except as may be required by Section 218.70 <u>et seq.</u>, Florida Statutes, ("The Local Government Prompt Payment Act").
- 18.2 Harmony Construction Manager is advised and hereby agrees to exert every reasonable and diligent effort to assure that all labor employed by Construction Manager and his Subcontractors for work on the Project, including those subcontractors utilized via County direct purchases, shall work in harmony with and be compatible with all other labor being used by building and Construction Managers now or hereafter on the site of the Project.

Construction Manager further agrees that this provision will be included in all subcontracts of the Subcontractors as well as the Construction Manager's own contract; provided, however, that this provision shall not be interpreted or enforced so as to deny or abridge, on account of membership or nonmembership in any labor union or labor organization, the right of any person to work as guaranteed by Article 1, Section 6 of the Florida Constitution.

- 18.3 Apprentices If the Construction Manager employs apprentices on the project, the behavior of the Construction Manager and the County shall be governed by the provision of Chapter 446, Florida Statutes, and by applicable standards and policies governing apprentice programs and agreements established by the Division of Labor of the State of Florida Department of Labor and Employment Security. The Construction Manager will include a provision similar to the foregoing sentence in each subcontract.
- 18.4 Minority Participation The Construction Manager shall diligently attempt to award his material contracts, subcontracts and sub-subcontracts to firms having a letter of certification as a minority business from the "Office of Minority Business Assistance, Department of General Services, or any other Federal, Florida County or City certification.
- 18.5 Minority Employment Information The Board of County Commissioners requires construction contracts, who would otherwise be required to file and EEO Form 1 Report under Federal Law (currently Federal law requires filing for employers with more than 15 employees), to submit an EEO Form 1 Report with the

submission of their G.M.P. This requirement extends to any subcontractors who are required to submit the EEO Form 1 Report (over 15 employees) under Federal law. Failure to submit an EEO Form 1 Report with your G.M.P. will be reason to declare your proposal "non-responsive" to the proposal requirements. However, the information will be used for statistical purposes only and will not be used in any way as a basis to award a contract. See **Attachment** "P"

- 18.6 Public Entity Crime Affidavit attached as Attachment "P".
- 18.7 Non-Collusion Affidavit of Prime Bidder attached as Attachment "Q".
- 18.8 Copyright Clause No reports, data, programs or other materials produced, in whole or in part for the benefit and use of the County, under this agreement shall be subject to copyright by Contractor in the United States or any other Country.

18.9 Employment Eligibility Verification (E-Verify)

- (1) The Construction Manager:
 - shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Construction Manager during the term of this Agreement; and
 - (b) shall expressly require any subcontractors performing work or providing services pursuant to this Agreement to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the term of this Agreement; and
 - (c) agrees to maintain records of its participation and compliance with the provisions of the E-Verify program, including participation by its subcontractors as provided above, and to make such records available to the County consistent with the terms of the Construction Manager's enrollment in the program. This includes maintaining a copy of proof of the Construction Manager's and subcontractors' enrollment in the E-Verify Program.
 - (d) Compliance with the terms of this section is made an express condition of this Contract and the County may treat a failure to comply as a material breach of this Agreement.
- (e) A contractor who registers with and participates in the E-Verify program may not be barred or penalized under this section if, as a result

of receiving inaccurate verification information from the E verify program, the contractor hires or employs a person who is not eligible for employment.

(f) Nothing in this section may be construed to allow intentional discrimination of any class protected by law.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK, SIGNATURES TO FOLLOW.

Reche/Sadoff, Clark Reviewed for legal form and content Alex Esseesse, Asst. County Attorn	As Approved By the Board on: 21 Sep 2021
STATE OF FLORIDA COUNTY OF BREVARD The foregoing instrument was acknowled	Heard Construction, Inc. By: Construction Manager Date Name: Dog Dog Iged before me by means of physical presence or
Klaria I to the	2022 by ANDREW DAY of
Notary Seal	Notary Public Meussa Ann Wouver
SSA ANN INC.	Notary Signature Why Chill
TO WAY PURE	My Commission Expires 11 10 2026
MY COMMISSION SYNDERS AND	• • •

ATTACHMENT "A"

CONSTRUCTION TEAM ASSIGNED REPRESENTATIVES

County

Brevard County Facilities Department

Tim Lawry

Mike McGrew

Mary Bowers

Sherry Collett

Project Director

Construction Coordinator

Support Services Manager/Contracts

Special Projects Coordinator II

Architect-Engineer

B.R.P.H.

Construction Manager

President

Vice President/Principal-In-Charge

Vice President of Operations

Project Manager

Project Administrator

Project Superintendent

Estimator/Cost Control

Schedules

ATTACHMENT "B" Lori Wilson Park Restroom Scope of Work

- Complete site work and site utilities per contract drawings (BRPH dated 12/17/21).
- Demolish existing restrooms as shown on contract drawings (BRPH dated 12/17/21).
- Prepare foundation for new Owner provided CXT buildings per specifications.
- Provide and install building plumbing as shown on contract drawings (BRPH dated 12/17/21).
- Provide and install new electrical service as shown on contract drawings (BRPH dated 12/17/21).
- Provide and install new sidewalks with detectable warning mats as shown on contract drawings (BRPH dated 12/17/21).
- Provide and install 18x24 mirrors above sinks, install owner provided soap dispenses, toilet paper dispensers and napkin receptacles.
- Obtain all required construction permits.

ATTACHMENT "C"

DIRECT PURCHASING PROCEDURE CONSTRUCTION MANAGEMENT AGREEMENT

INTENT: The County intends for these procedures to guide the County's direct purchases of selected materials so that the County may take advantage of its tax-exempt status. All monies which would have been payable as taxes, if not for County direct purchase under these procedures, will inure solely to the benefit of the County. The County's direct purchase of materials will not minimize or conflict with the Construction Manager's responsibility for the purchase, installation, coordination, storage, protection, warranty, etc. of the materials as described herein and in the plans and specifications of the Contract. Specifically, the Construction Manager acknowledges that it retains all rights, obligations, and responsibilities outlined herein for any items the County purchases directly, and the Construction Manager shall be responsible for ensuring the provisions outlined in the Contract are followed and enforced against any supplies and/or subcontractors.

<u>Definitions</u>: For the purpose of these Procedures, the following words have the following definitions.

- a) <u>Contract</u>: Construction Manager Agreement by and between Construction Manager and the County for the procurement and installation of restrooms at Lori Wilson Park located in Cocoa Beach, Florida.
- b) <u>County Purchased Materials</u>: Materials purchased directly by the County through execution and delivery of a Purchase Order.
- c) G.M.P. Guaranteed Maximum Price established under the Contract.
- d) Materials: Tangible Personal Property necessary for completion of the Project.
- Materials Deduction Summary: Written document signed by County's representative and Construction Manager setting forth the amounts of County Purchased Materials, plus applicable taxes were the purchase not exempt from such taxes, as reflected in the parties' previously executed deductive change order(s) to the Contract showing deduction of such Materials from the G.M.P.
- f) County: See Definition in Article I, section 1.3.
- g) County's Representative: See Definition in Article I, section 1.3.
- h) Project: See Definition in Article I, section 1.3.

- Purchase Order: The County's request for Materials from a particular vendor or supplier when fully executed and delivered to the Construction Manager, and the County's promise to pay for the Material specified upon delivery and acceptance at the Project Site, and presentation of an invoice by the Construction Manager to the County certifying payment of same.
- Material Requisition: A request by the Construction Manager to the County that the County directly purchase specific items described in sufficient detail, including quantity, grade, brand, etc., along with the vendor or material supplier and that vendor or material supplier's quoted price for the Materials.

Overview: The County requires the Construction Manager to notify the County's Representative of Materials needed for the Project exceeding \$5,000.00 in value, through a Material Requisition form. For the purpose of these Procedures, the Construction Manager will assign to the County any rights the Constriction Manager may have under quotes, contracts or commitments received from the particular vendor or supplier for the Materials described in the Material Requisition. Any Materials purchased by County pursuant to these Procedures shall be referred to as "County Purchased Materials", and the responsibilities of the County and Construction Manager relating to such County Purchased Materials shall be governed by the terms and conditions of these Procedures, which shall take precedence over other conditions and terms of the Contract Documents where inconsistencies or conflicts exist. The invoiced amount of County Purchased Materials and applicable sales tax had the purchases not been tax exempt, once finalized through the County's Purchase Order and after confirmation of completed delivery and acceptance pursuant to this Procedure, will be deducted from the G.M.P., as defined in the Contract, by deductive change order.

County Direct Purchasing Requirements and Procedures: When Materials purchased for the Project are estimated to be \$5,000 or greater and time will allow for an County Direct Purchase, Construction Manager will prepare a Material Requisition form, (to be provided by the County), acceptable to County, and which specifically identifies the Materials which County may, in its discretion, elect to purchase directly. The Material Requisition form shall be complete when submitted, subject to modifications by the County that seek to ensure this Contract as adhered to and accomplished within the time frames established in Attachment "E", and all information requested provided. Along with the Material Requisition the Construction Manager should provide:

- a) The name, address, telephone and fax number and contact person for the material supplier;
- b) Manufacturer or brand, model or specification number of the item;
- Quantity needed as estimated by Manager;
- d) The price quoted by the supplier for the Materials identified therein;
- e) Any sales tax associated with such quote if it were not purchased by a tax exempt entity;
- f) Shipping and handling cost, including associated insurance;
- g) Delivery dates as established by the Manager;
- h) Subcontractor's written acknowledgment of these Procedures for County Direct Purchase of Materials.

After receipt of the Material Requisition, the County's Representative will determine whether the County will directly purchase the Materials described in the Material Requisition, and communicate consent or decline to purchase the materials to the Construction Manager as soon as practicable, or within twenty four (24) hours. Brevard County's Purchasing Division shall be the County's approving authority on Purchase Orders of County Purchased Materials, but the Purchasing Division must coordinate with the Facilities Department and County Attorney's Office to ensure proper use of this Procedure. Any necessary documents, including, but not limited to, tri-party agreements for the item(s) purchased under this Procedure will be executed by all parties. If the County consents to purchase the Materials, the County shall issue a Purchase Order/contract, and the Construction Manager shall deliver the Purchase Order/contract to the subcontractor. The Purchase Order/contract shall require (1) that the supplier provide the required shipping. (2) that the supplier provide the required shipping and handling insurance, and (3) delivery of the County Purchased Materials on the delivery dates provided by the Construction Manager in the Material Requisition.

The Construction Manager shall be fully responsible for all matters relating to the receipt of County Purchased Materials under these Procedures, including, but not limited to, preparation of shop drawings and submittals, verifying correct quantities, verifying documents of orders in a timely manner, coordinating purchases, providing and obtaining all warranties and guarantees required by the Contract Documents, inspection and acceptance of the goods at the time of delivery, and loss or damage to equipment and materials due to the negligence of the Construction Manager. The Construction Manager shall coordinate delivery schedules, sequence of delivery, loading orientation, and other arrangements normally required by the Construction Manager for the materials furnished. The Construction Manager shall provide all services required for the unloading, handling and storage of materials through installation. The Construction Manager agrees to indemnify and hold the County harmless from any and all claims of whatever nature resulting from non-payment of goods to suppliers arising from the actions of Construction Manager. TIME IS OF THE ESSENCE WITH THE WORK OUTLINED IN THE CONTRACT. SUBSTANTIAL HARM WILL BE DONE TO THE COUNTY FOR CONSTRUCTION MANAGER'S FAILURE TO ENSURE THE TIMELINES OUTLINED IN ATTACHMENT "E" ARE MET.

The Construction Manager shall ensure that County Purchased Materials conform to the Specifications, and determine prior to incorporation into the Work, if such materials are patently defective, and whether such Materials are identical to the Material ordered and match the description on the bill of lading. As County Purchased Materials are delivered to the job site, the Construction Manager shall inspect all shipments from the suppliers, and, if in conformance with the Purchase Order, approve the vendor's invoice for materials delivered. The Construction Manager shall assure that each delivery of County Purchased Material is accompanied by documentation adequate to identify the Purchase Order against which the purchase is made. This documentation may consist of an itemized delivery ticket, packing slip or invoice from the supplier conforming to the Purchase Order against which the purchase is made, together with such additional information as the County may require. The Construction Manager will then forward the documentation to the County.

If the Construction Manager discovers defective or non-conformities in County Purchased Material upon inspection, the Construction Manager shall not use such non-conforming or defective Materials in the Work and instead shall promptly notify the County of the defective or non-conforming conditions and coordinate the repair or replacement of those Materials without any undue delay or interruption to the Project. All repair, maintenance or damage-repair calls shall be forwarded to the Construction Manager for resolution with the appropriate supplier, vendor, or subcontractor. If the Construction Manager fails to perform such inspection, the condition of which the Manager either knew or should have known by performance of an inspection, Construction Manager shall be responsible for all damages to the County resulting from Construction Manager's incorporation of such Materials into the Project, including liquidated or delay damages.

On a bi-weekly basis, Construction Manager shall be required to review invoices submitted by all suppliers of County Purchased Materials delivered to the Project Site during that month and either concur or object to the County's issuance of payment to the suppliers, based on Construction Manager's records of materials delivered to the site. In order to arrange for the prompt payment to the supplier, the Construction Manager shall provide to the County a list indicating the acceptance of the goods or materials within fifteen (15) days of receipt of said invoice for goods or materials. The list shall reference the applicable purchase order and include a copy of the invoices, delivery tickets, written acceptance of the delivered items, and such other documentation as may be reasonably required by the County. Upon receipt of the appropriate documentation in duplicate, the County shall prepare a check drawn to the supplier based upon the receipt of data provided. This check will be delivered directly to the supplier. If any discounts are available from the supplier or vendor, they shall accrue to the benefit of the County, and the amount quoted by the vendor, plus applicable tax, shall be deducted from the G.M.P. The Construction Manager agrees to assist the County to immediately obtain partial or final releases or waivers as appropriate.

Following performance of the Purchase Orders by the suppliers, and submittal of documentation confirming same to County with an invoice for payment by County, the Construction Manager shall execute and deliver to the County at the end of each month along with the Construction Manager's regular pay requests, a Materials Deduction Summary setting forth the full value of all County Purchased Materials, plus all taxes which would have been payable on the purchase of the Materials had they not been County purchased. The Materials Deduction Summary shall show all sums to be deducted by an appropriate deductive change order, and ultimately the G.M.P., to date. The County, or their authorized representative, shall be the approving authority for the County on the Materials Deduction Summary for County Purchased Materials.

The Construction Manager shall maintain records of all County Purchased Materials incorporated into the Work. These records shall be available for inspection by the County upon request.

Notwithstanding the delivery of County Purchased Materials to the Project Site for the Construction Manager's inspection, custody and incorporation into the Work, the County shall retain legal and equitable title to any and all County Purchased Materials. The transfer of possession of County Purchased Materials from the County to the Construction Manager shall constitute a bailment for the mutual benefit of the County and the Construction Manager solely for the purposes set forth herein. The County shall be considered the bailer and the Construction Manager the bailee of the County Purchased Materials. County Purchased Materials shall be

considered returned to the County for purposes of their bailment at such time as they are incorporated into the Project or are returned to the vendor or supplier at the discretion of the Construction Manager prior to payment for the Purchase Order by County.

The County shall purchase and maintain Builder's Risk Insurance sufficient to protect against any loss or damage to County Purchased Materials. Such insurance shall cover the full value of any County Purchased Materials not yet incorporated into the Project from the time the County first takes title to any of such County Purchased Materials and the time when the last of such County Purchased Materials is incorporated into the Project, or are returned to the vendor at the Construction Manager's discretion prior to County's payment for same.

The County shall in no way be liable for any interruption or delay in the Project, for any defects or other problems with the Project, or any extra costs or time resulting from any delay in the delivery of, or defects in, County Purchased Materials. The Construction Manager shall be responsible in any and every way for ensuring the materials and timelines required herein are met.

ATTACHMENT "D"

DRAWINGS AND SPECIFICATIONS

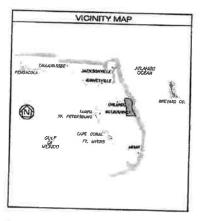
Attached.

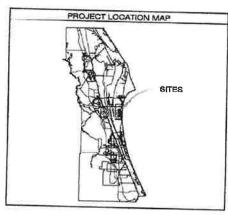
LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COCOA BEACH, FLORIDA FOR

TOURISM DEVELOPMENT OFFICE



Ι.









a. Aller Delt, ill construction electronici montre, construction electronici del electronic



LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COCCA BACK, BOUND OURISM DEVELOPMENT OFFICE



COVER SHEET

G-001

ABBREVIATIONS

DRAWING INDEX

STORY

ľ

4

1

1

2

1

-	Connect in
Architects, Co.	givens, Construc
- Mercent	-
E Contract	W Drawn some, and Steinman
Designation of the last of the	Plant is a 180
minutes in pa	mite by follow Copy
-	W. 100 - 10-

LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COOM REALL TUBIES TOURISM DEVELOPMENT OFFICE



COMMISSION OF THE PROPERTY OF

C-001

GENERAL NOTES

LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COOM REACH, FLOWING TOURISM DEVELOPMENT OFFICE



GENERAL NOTES

C-002

DEMOLITION AND EROSION CONTROL PLAN - NORTH

LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT

TOURISM DEVELOPMENT OFFICE

COCOA BEACH, FLORIDA

A CONTINUES AND A CONTINUES AND A CONTINUE AND A CONTIN

West York

DEMOLITION AND EROSION CONTROL PLAN - SOUTH

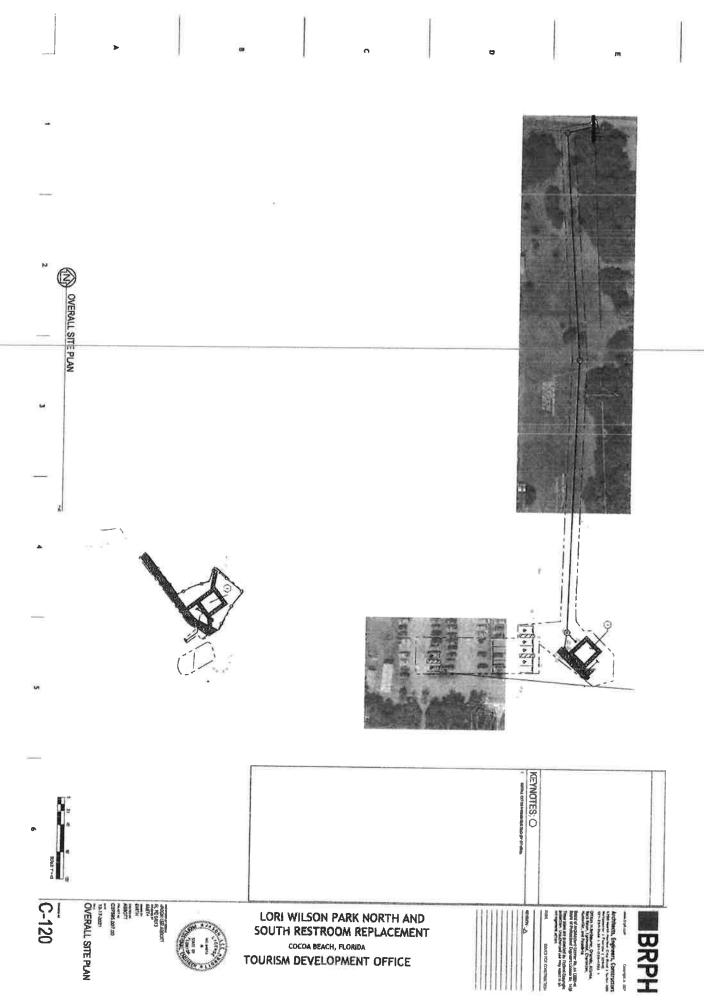
AGONT TERMOT TO AND EROSION CONTROL PLAN - SOUTH

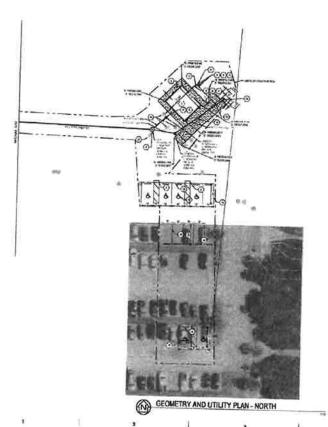


LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COCOA BEACH, FLORIDA

COCOA BEACH, FLORIDA
TOURISM DEVELOPMENT OFFICE

Andrew Longiture of the Control of t





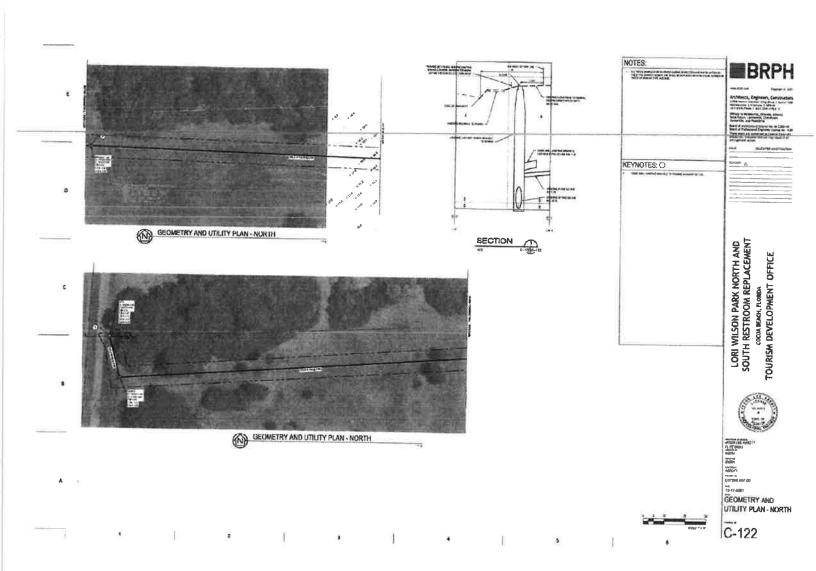
NOTES:	
Total Control of the	BRPH
 designation of the control of the cont	Art District, Engineers, Constructions, School and Scho
KEYNOTES: CI	TAX SHAPE Deliveries
E-property of the Control of the Con	Torre A
ACMINISTRACION OF DESIGNATION	
STATE OF THE PERSON NAMED IN	7
High Street, and an address of the latest and the l	
Comment of the Control of the Contro	
WHEN THE PARTY AND ADDRESS OF THE PARTY IS	l
THE RESERVE AND ADDRESS OF THE PARTY AND ADDRE	1
(Month of the Address)	
Area rations.	1 o E
CONTRACTOR OF THE PERSON OF T	1 多点
-	₹ ₹ ₩
COLUMN TO STREET WAS AND THE PARTY AND THE P	定程 光
PROPERTY THE PROPERTY AND PARTY.	
-	K⊋ 0
indicational implication control on the street, and opposite of cap-lag-	\(\frac{1}{2} \) \(\frac{1}{2} \)
AND PERSONAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN	~ 2 4 X
Printed Limit Links, in profess printed Constitution of	95 25 9 35
PROPERTY CA.	8052
College and and parties there	₽9 € 0
March of the later of a character of the march of	LORI WILSON PARK NORTH AND OUTH RESTROOM REPLACEMEN COOM BEAR, ROUM URISM DEVELOPMENT OFFICE
	LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COON BLAN, ROUN TOURISM DEVELOPMENT OFFICE

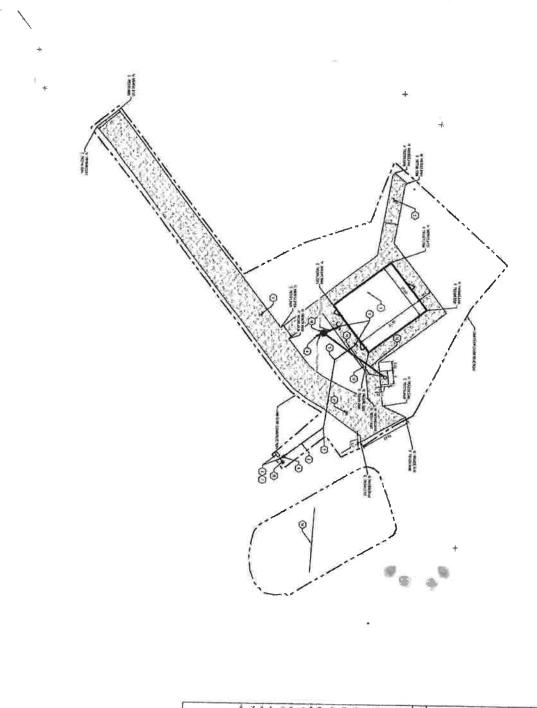


GEOMETRY AND UTILITY PLAN - NORTH



C-121





ABONIERADO DE CONTROLO DE CONT

GEOMETRY AND UTILITY PLAN - SOUTH



LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT

COCOA BEACH, FLORIDA TOURISM DEVELOPMENT OFFICE

GRADING AND DRAINAGE PLAN - NORTH

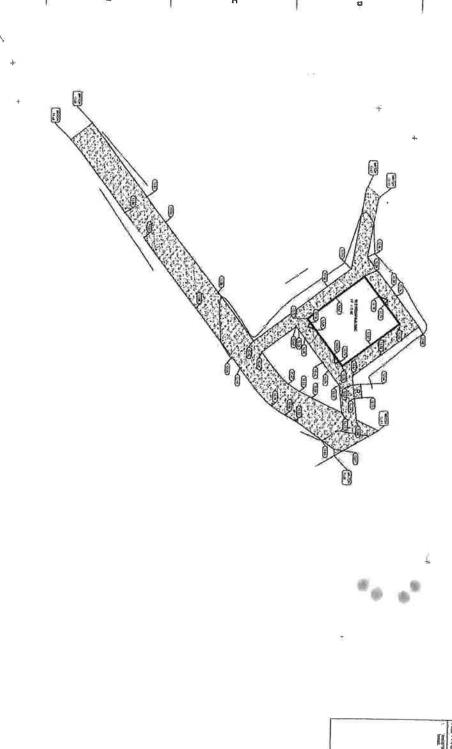
Modern A

AND THE PROPERTY OF THE PROPER

LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT

COCCOA BEACH, FLORIDA
TOURISM DEVELOPMENT OFFICE





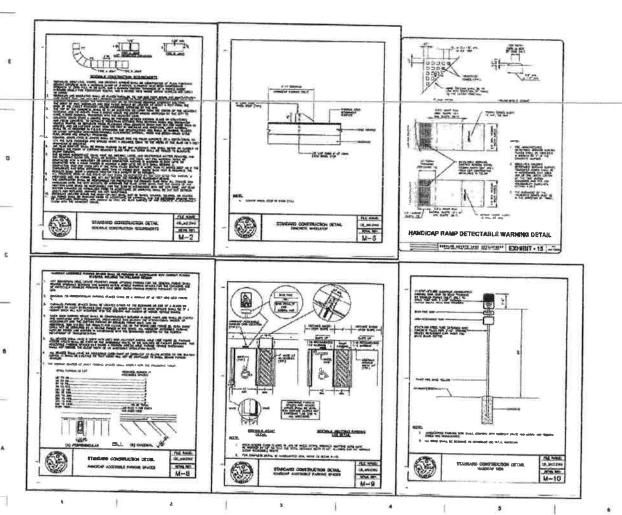
SOUTH
C-142

GRADING AND DRAINAGE PLAN - SOUTH



LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COCOA BEACH, FLORIDA TOURISM DEVELOPMENT OFFICE





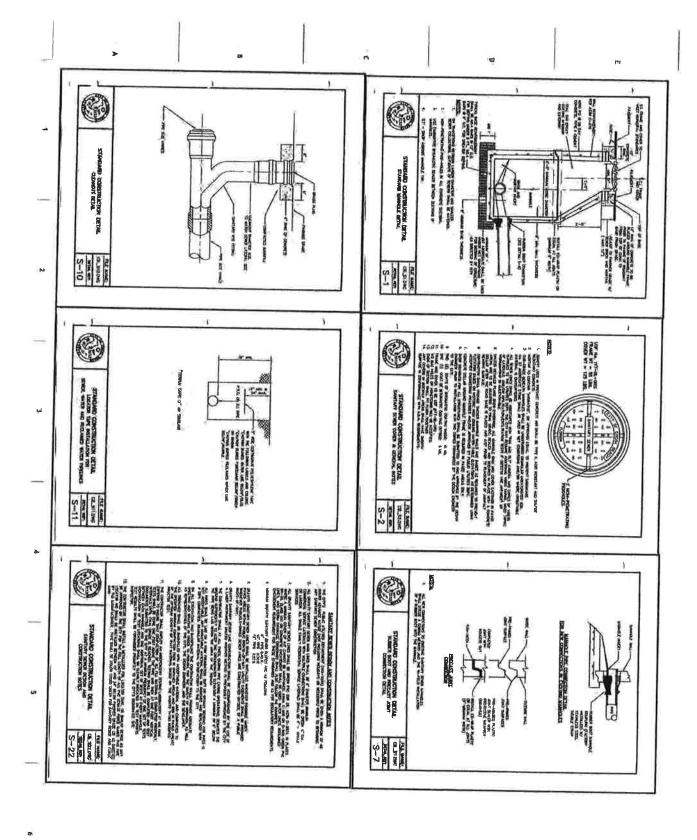
A seem

LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COCK MEACH, MONION TOURISM DEVELOPMENT OFFICE



STATE OF THE CONTRACT OF SITE DETAILS

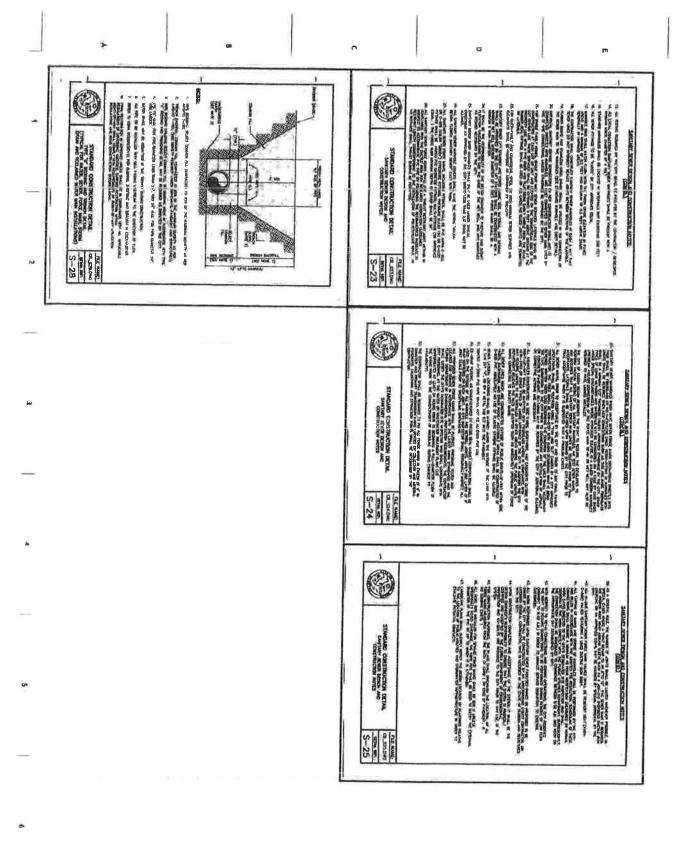
C-501



C-502 ASSOCIATION OF THE PARTY OF THE **UTILITY DETAILS**



LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COCOA BEACH, FLORIDA TOURISM DEVELOPMENT OFFICE



TOTALITY DETAILS



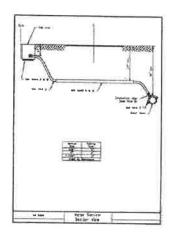
n i formand, Grados, Atorial, Santi, Igenerad, Osierdos, James, an Pigatero Si autorestato (Loques etc. de 100, de implemento (Loques etc. de 100, de implem

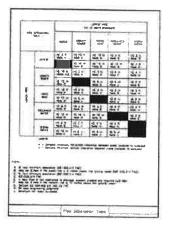
STATE OF CONTRACT

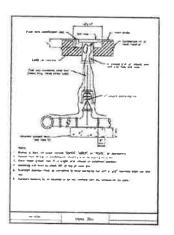


E

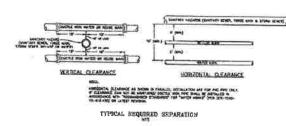
c

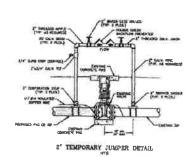






1







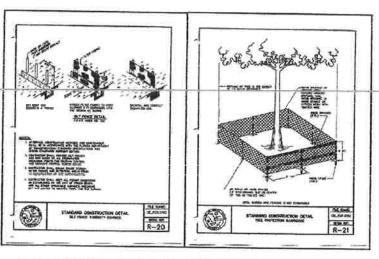
BRPH

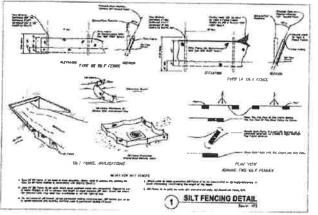
Applicate, Capraces, Cananagaia, water for a facility and a series of many and a series of the series of the series of the series of the series of plants Addition, Single, vitaria, National, and Assume, the series of the series of



THE CONTRACT OF THE CONTRACT O

C-504





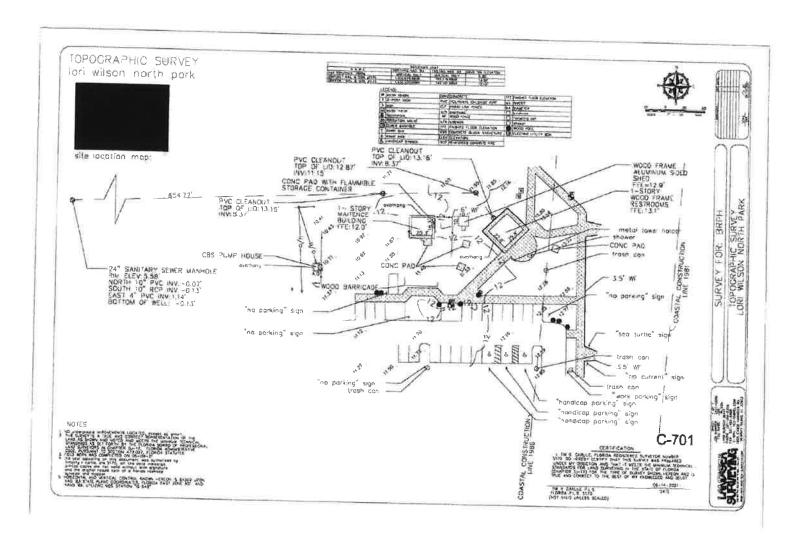
MARCHAN OPPORT OF THE PROPERTY OF THE PROPERTY

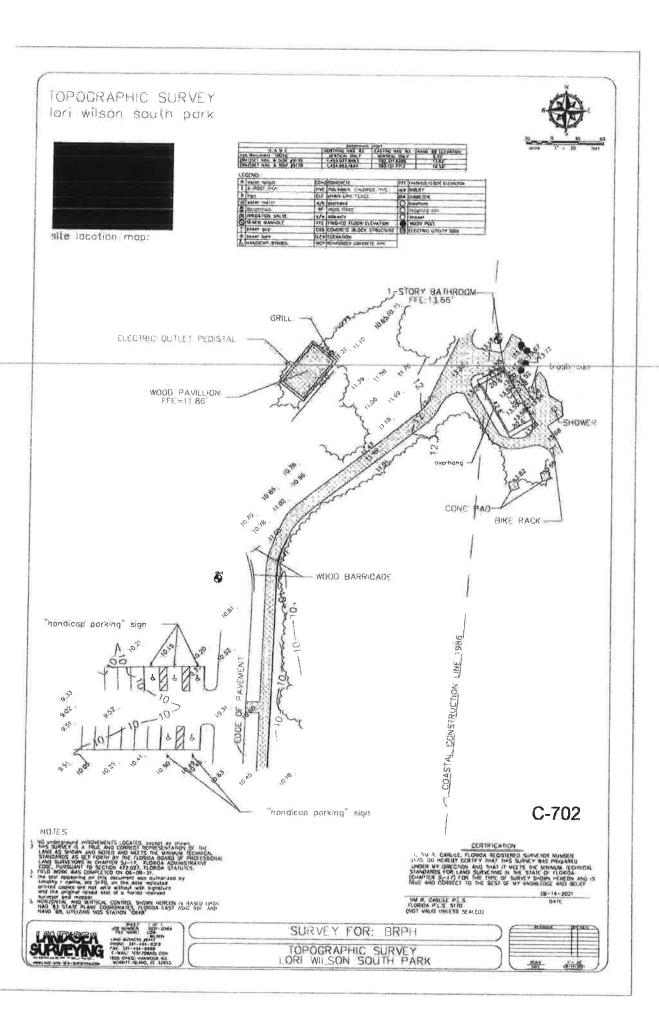
LORI WILSON PARK NORTH AND SOUTH RESTROOM REPLACEMENT COCH BLOOMEN OFFICE

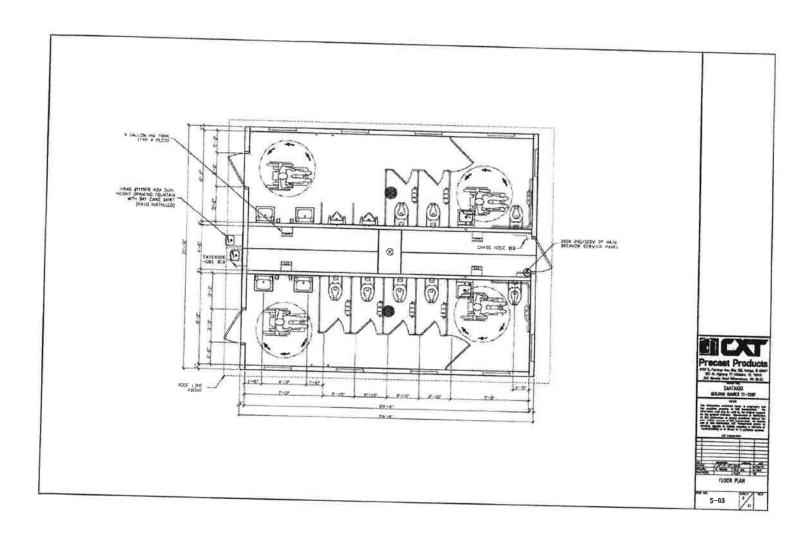


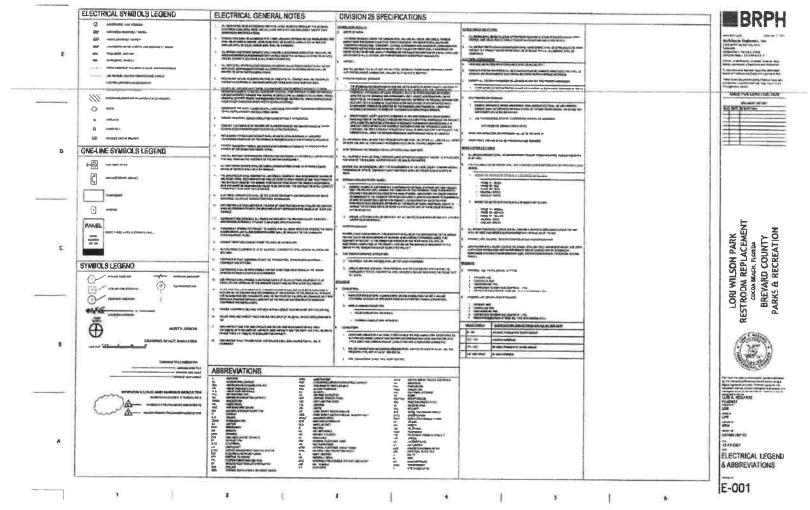
Solice So

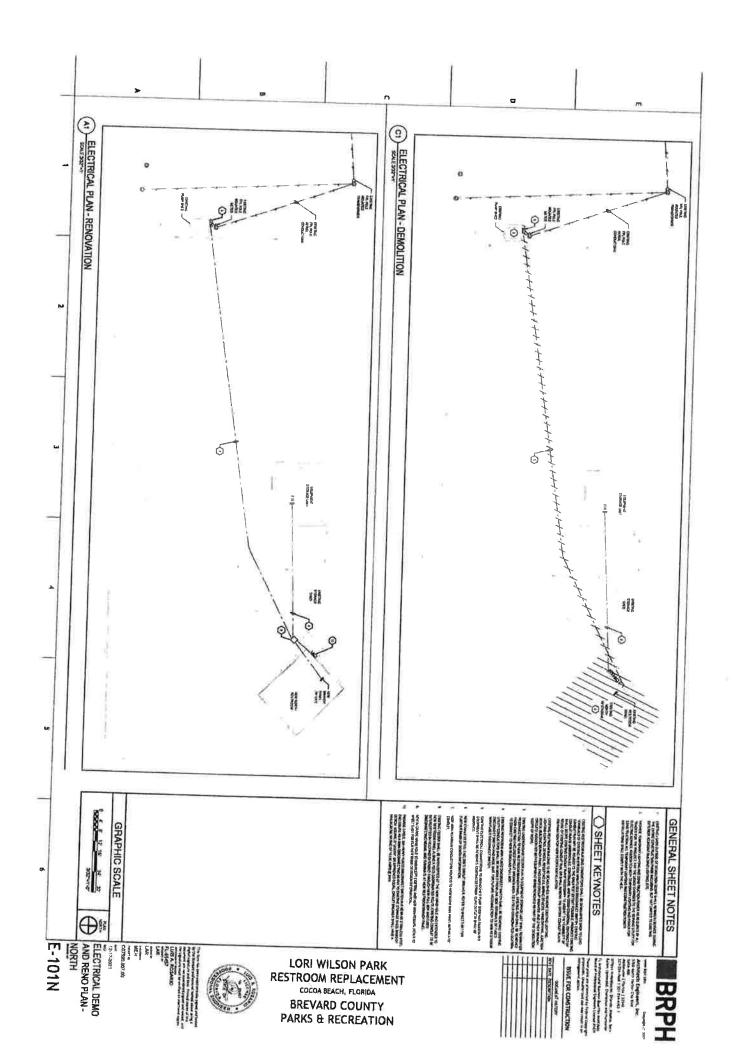
C-505

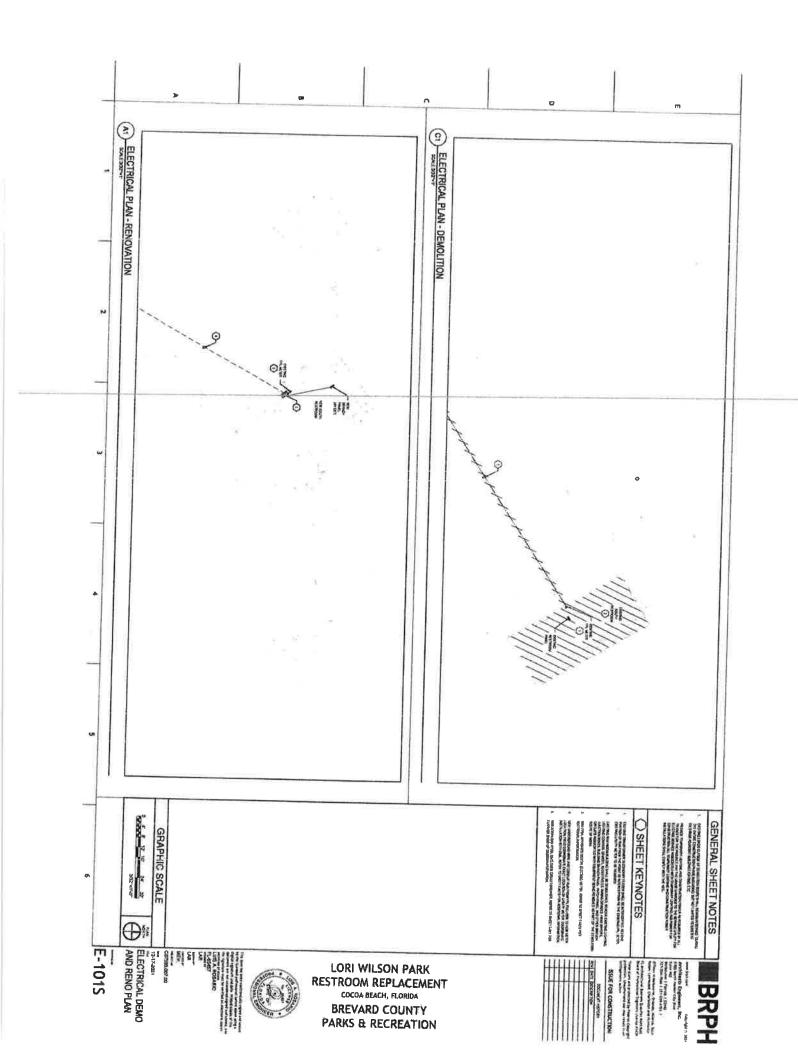


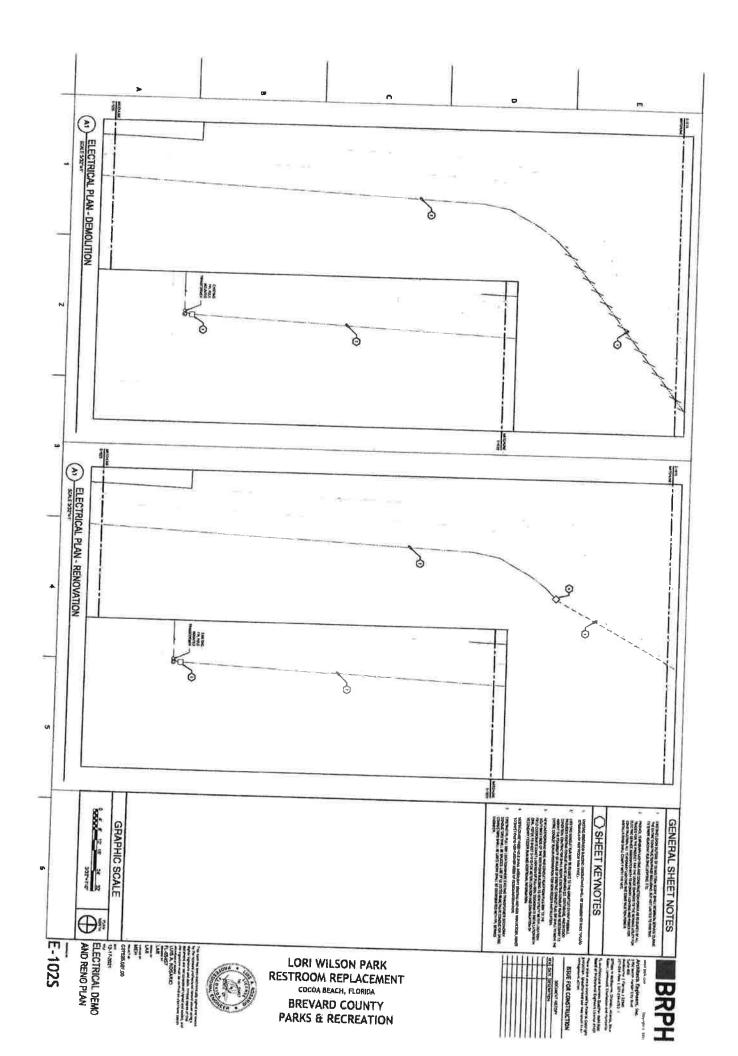


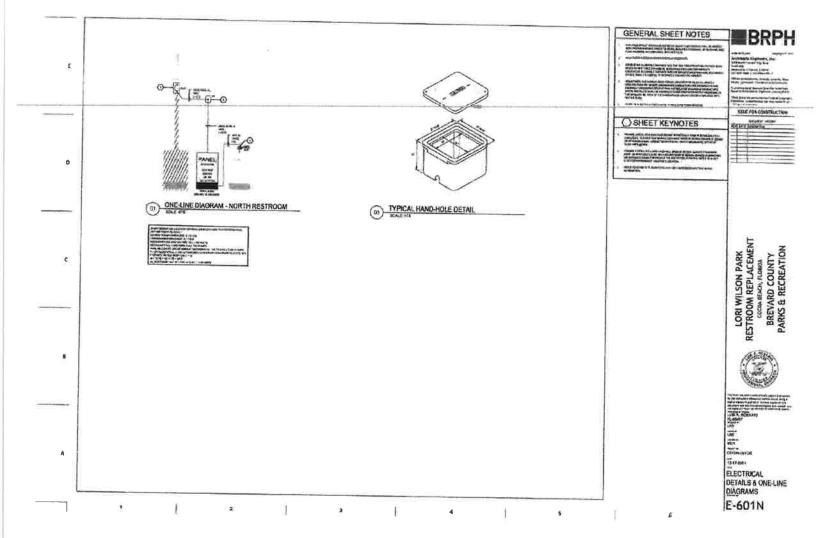


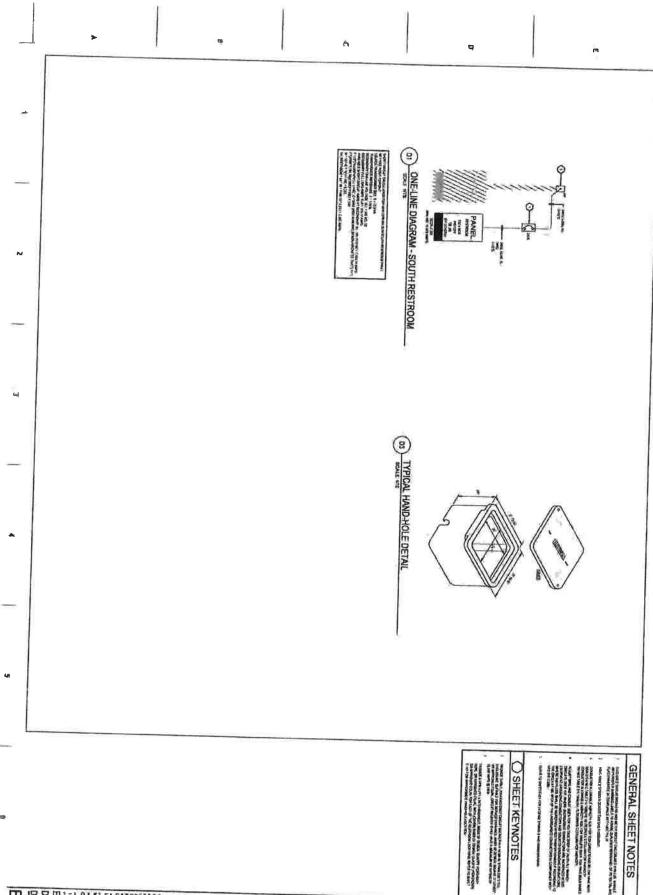












LUMA ROZAMO
LAR

LAR

CAMBRIDADO

REPORTO

REPOR



LORI WILSON PARK
RESTROOM REPLACEMENT
COCOA BEACH, FLORIDA
BREVARD COUNTY
PARKS & RECREATION

ACTIONS TRANSPORTS INC.

ACTIONS TRANSPORTS INC.

THE PROPERTY INC.

T

BRP





February 15, 2022

Mr. Thomas Campbell State of Florida Dept. of Business and Professional Regulations 1940 North Monroe Street, Suite 90A Tallahassee, FL 32399-0772

RE:

CXT, Inc.

Hillsboro, TX

Model: S-356 & S-357 Santiago

Dear Mr. Campbell:

Enclosed please find one set of documents for the above-noted model.

PFS Corporation hereby certifies that it has examined the building plans and other documents submitted by the manufacturer for certification and found them to be in compliance with the following codes and standards:

2020 Florida Building Code Building

2020 Florida Building Code Residential

2020 Florida Building Code Mechanical

2020 Florida Building Code Plumbing

2020 Florida Building Code Fuel Gas

2020 Florida Building Code Energy Conservation

2020 Florida Building Code Accessibility

2017 National Electrical Code

61G20-3 FAC for Product Approval

If you have any questions concerning this submission, please feel free to contact this office at any time.

Approved By:

Mark Severson

Plan Reviewer - SMP0000020

Enclosures: As Stated

CC:

Luke Lehman

File



Date Received at PFS:	
IBC Transmittal No. (by PFS):	
Project No. (by PFS):	

ADDITIONAL OR MODIFIED ACCEPTANCE (MODULARS/PANELIZED)

This form is to be used only when the manufacturer is seeking acceptance of an additional model, modified model or model name change which uses a previously accepted building system.

Model Name/ No. Santia	go S-356 & S-357				
THE WE P	NODEL Revised Me	odel*			
		TECHNICAL DATA			
				Conforms	
Floor Plan Showing:			Yes	No	N/A
Braced Wall Method or	Shearwalls		1		
Building Size (LxW Dir	mensions)		1		
Room Sizes, Light & Vo	entilation Schedule		1		
Exit Requirements			7		
Electrical Outlet Spacing	g & Smoke Detector		1		
Location of Labels & Da	TECHNICAL DATA TECHNICAL DATA	1		-	
Use Group, Type Const.		1			
Plumbing System Design or Referen	ice No. (1		
					1
HVAC/Furnace Size/Model No. (1
Thermal Performance Calculations of	r Reference No. (1		
Electrical Load Calculations or Refer	rence No. ()	1):
Service Size and Location (1		
Applicable Building Codes			1		
Submit model to the followingstates:	Florida			<i></i>	
*Description of Modification:					
Requested by:	Luke Lehman	Pluta	2/9/2022		-
(designer)		Dute.	we we do Whate.		-
For PFS Use	' 1				
Staff Plan Reviewer Weste	Devenson 1BC	C Certification #:	Date: 2/15/2022		
Structural Calculation(s) Reviewed By Remarks:		P.E. #:	Date:	-	
**(1) copy sent to IBC within 15 day	vs of approval.	and the same of th			
VERBAL APPROVAL GIVEN	By Whom:	To Whom	Univa		
MODEL WAS DEVIATED		AS THINK	Date;		_
**(1) copy sent to IBC within 15 day VERBAL APPROVAL GIVEN MODEL WAS DEVIATED	ys of approval. By Whom: Revision Number:	To Whom	Date:		

oc: \fo**rms\form-m** Rev 05/13/08 mb



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark Reverson

Title:

Staff Plan Reviewer

Date:

2/15/22

FLORIDA COMMERCIAL PLANS REVIEW CHECKLIST

22-4035 Santiago S-356&S-357 Manufacturer: CXT Inc. Model Name/Number:

PFS Reference/Project #

Reviewer: Mark Severson

Date Reviewed: 2/10/2022

Approval Date: 2/15/2022

REF.	BEC DECLEDATED TO			ms (by	PFS)
	PFS REQUIREMENTS	PLAN SHEET PAGE # AND NOTES	YES	NO	N/A
(B)	BUILDING:			1	
B-1.	Occupancy classification		x		
B-2.	Special occupancy requirements		Y		
B-3.	Minimum type of construction		ж		
(FRC)	FIRE RESISTANT CONSTRUCTION:				
FRC-1.	Fire resistant separations		x	-	
FRC-2.	Fire resistant protection for type of construction		X		
FRC-3.	Protection of openings and penetrations of rated wails		X	\vdash	_
FRC-4.	Fire blocking		1	-	×
FRC-5.	Draftstopping		+		x
FRC-6.	Calculated fire resistance				X
(FSS)	FIRE SUPPRESSION SYSTEMS:				x
FSS-1.	Early warning		4		
FSS-2.	Smoke evacuation systems schematic				-
FSS-3.	Fire sprinklers				
FSS-4.	Standpipes		-		-
FSS-5.	Pre-engineered systems		-		
FSS-6.	Riser diagram				
(LS)	LIFE SAFETY:				
LS-1.	Occupant load capacities		x	-	
S-2.	Egress capacities		x		
JS-3.	Early warning systems		^		x
.S-4,	Smoke control				X
S-5.	Stair pressurization		-	-1	X
.S-6.	Systems schematic				X
OLER)	OCCUPANCY LOAD/EGRESS REQUIREMENTS:				
DLER-I.	Gross occupancy load		x		
DLER-2.	Net occupancy load		x	-	
LER-3.	Means of egress		x	-	
LER-4.	Exit access		x	-	
LER-5.	Exit and exit discharge		x	-	
LER-6.	Stairs construction/geometry and protection			-	х
LER-7.	Doors		x		

REF.	PFS REQUIREMENTS PLAN SHEET PAGE # ANI		Conforms (by PFS		
		PLAN SHEET PAGE # AND NOTES	YES	NO	N/
OLER-8.	Emergency lighting		x		
OLER-9.	Exit signs				x
OLER-10	Specific occupancy requirements		x		- 41
OLER-11	Construction requirements		x	-	-
OLER-12	Horizontal exits/exit passageways		x		
(SR)	STRUCTURAL REQUIREMENTS:		-		
SR-1.	Termite protection		x		-
SR-2.	Design loads		x		
SR-3.	Wind requirements		x		
SR-4.	Building envelope		x		
SR-5.	Structural calculations (if required)		X		
SR-6.	Wall systems			-	
SR-7.	Floor systems		x	-	
SR-8.	Roof systems		x	_	
SR-9.	Threshold inspection plan		^	-	
SR-10.	Stair systems				X
(M)	MATERIALS:				
M-1.	Wood				
M-2.	Steel				X
M-3.	Aluminum		X		
M-4.	Concrete				х
M-5.	Plastic		х		
VI-6.	Glass				х
M-7.	Masonry		х		
M-8.	Gypsum board and plaster				x
И-9.	Insulating (mechanical)				X
И-10.	Roofing				х
И-11.	Insulation				х
AR)					×
R-1.	ACCESSIBILITY REQUIREMENTS: Accessible route				
R-2.	Vertical accessibility		х		
R-3.	Toilet and betting With				ж
R-4.	Toilet and bathing facilities		х		
R-5.	Drinking fountains				x
R-6.	Equipment		х		
R-7.	Special occupancy requirements Fair Housing requirements		х		
	Tail Housing requirements				х
R)	INTERIOR REQUIREMENTS:				
l-1.	Interior finishes (flame spread/smoke develop)		x	-	-
L-2.	Light		x	-	_
k-3.	Ventilation		x		
-4.	Sanitation		x		
	PFS				

PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

& Mark Severson

Title:

Staff Plan Reviewer

Date:

2/15/22

REF.	BUTC DATA COMME			Conforms (by PF		
	PFS REQUIREMENTS	PLAN SHEET PAGE # A NOTES	ND YES	NO	N/A	
(SS) SS-1.	SPECIAL SYSTEMS:	1000			x	
	Elevators					
SS-2.	Escalators			1		
SS-3.	Lifts					
(E)	ELECTRICAL:					
E-1.	Wiring services		ж	-	-	
E-2.	Feeders and branch circuits		×			
E-3.	Overcurrent protection		×		-	
E-4.	Grounding		×			
E-5.	Wiring methods and materials				-	
E-6.	GFCI's		x			
E-7.	Equipment		×	-	-	
E-8.	Special occupancies		X		-	
E-9.	Emergency systems				X	
E-10.	Communication systems				x	
E-11.	Low-voltage				X	
E-12.	Load calculations		x			
	Sout Wildutations		×			
P)	PLUMBING:				-	
P- ,	Minimum plumbing facilities		x			
P-2.	Fixture requirements					
P-3.	Water supply piping		x			
P-4.	Sanitary drainage		×			
P-5.	Water heaters					
P-6.	Vents		X			
-7.	Roof drainage		х			
-8.	Back flow prevention		X			
-9.	Irrigation		X			
-10.	Location water supply line				х	
-11.	Grease traps		X			
-12.	Environmental requirements				х	
-13.	Plumbing riser		×			
			X	-		
(I)	MECHANICAL:			-	x	
-1.	Energy calculations					
1-2.	Exhaust systems including clothes dryer exhaust			_	-	
-3.	Kitchen equipment exhaust			_		
-4.	Specialty exhaust systems					
-5.	Equipment (including compliance with wind zone	9)		-		
-6.	Equipment location			-		
	Make-up air					
-8.	Roof mounted equipment					
-9.	Duct systems	1000				
10.	Ventilation	efs.		-	-	
	Combustion air	PFS CORPORA				
	Chimneys	Approval Limited to Factory E		niv		
	Fireplaces and vents		7		-	
	AC Equipment Complying with Wind Zone	State:	Florida	Н	-	
		Signature: S Mo	irk fevers		-	

Signature: Mork feverson
Title: Staff Plan Reviewer
Date: 2/15/22

Dee				Conforms (by PFS)			
REF.	PFS REQUIREMENTS	PLAN SHEET PAGE # AND NOTES	YES	NO	N/A		
M-14.	Appliances	110120	 	-			
M-15.	Boilers				_		
M-16.	Refrigeration		+				
M-17.	Bathroom ventilation			-	_		
M-18.	Laboratory						
(G)	GAS:				x		
G-1.	Gas piping						
G-2.	Venting		+				
G-3.	Combustion air				-		
G-4.	Chimneys and vents		1				
G-5.	Appliances		-				
G-6.	Type of gas		-				
G-7.	Fire places		+				
G-8.	LP tank location						
G-9.	Riser diagram/shut-offs						
(61G20-)	PULF 61C20 2. STATE PROPERTY APPROVED						
3.001	RULE 61G20-3: STATE PRODUCT APPROVAL Scope		х				
3.002	Definitions						
3.003	Exceptions						
3.004							
3.005	Optional Statewide Approval Generally Product Evaluation & Quality Assurance for State			12			
3.006	Approval Product Validation by Approved Validation Entity for State Approval			-			
3.007	Product Approval by the Commission						
3.008	Approval of Product Early State Stat						
-File 177, CAS	Approval of Product Evaluation Entities, Product Validation Entities, Testing Laboratories, Certification Agencies, Quality Assurance Agencies and Accreditation Bodies						
.009	Criteria for Certification of Independence			-	1110		
.010	List of Approved Product Evaluation Entities, Validation Entities, Testing Laboratories, Certification Agencies, Quality Assurance Agencies and Accreditation Bodies						
.011	Forms	to be the control of					
.012	Revisions to Product Approvals or Entity Approvals		\vdash	_			
.013	Revocation or Modification of Product Approvals and Entity Certifications			-			
.014	Investigations						
015	Equivalence of Standards						
016	Reference Standards						

Form 159 rg. Rev. 3.10.17



Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

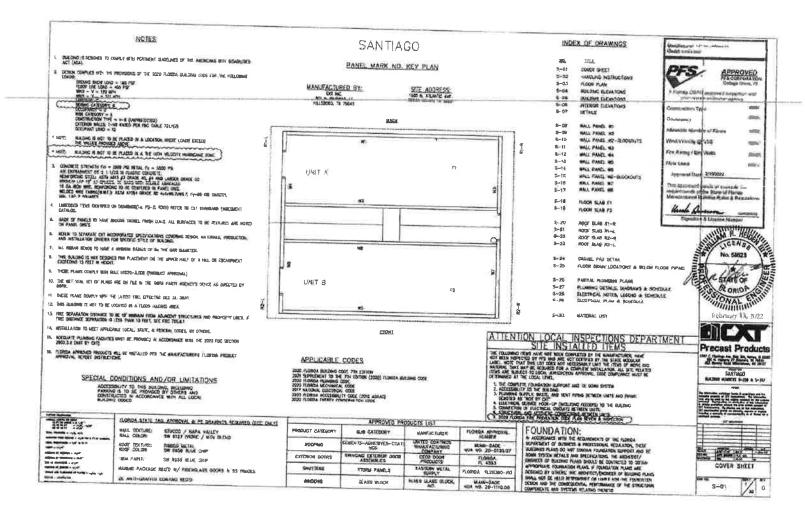
& Mark Severson

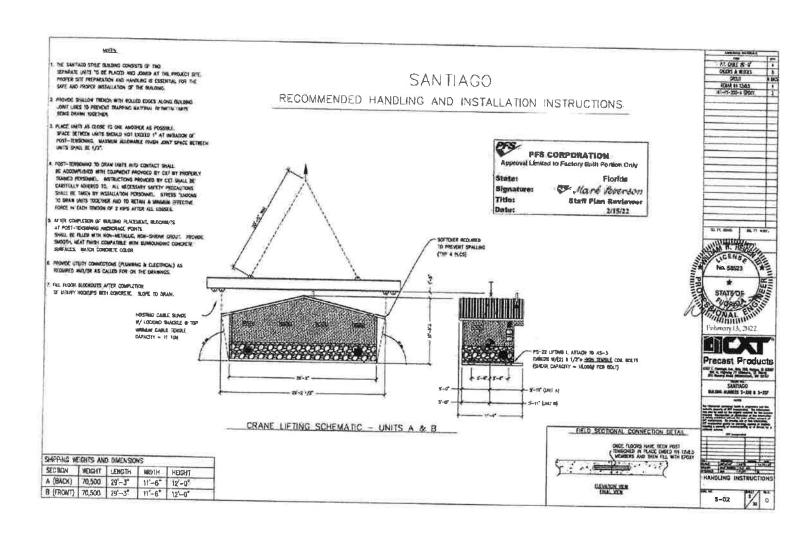
Title:

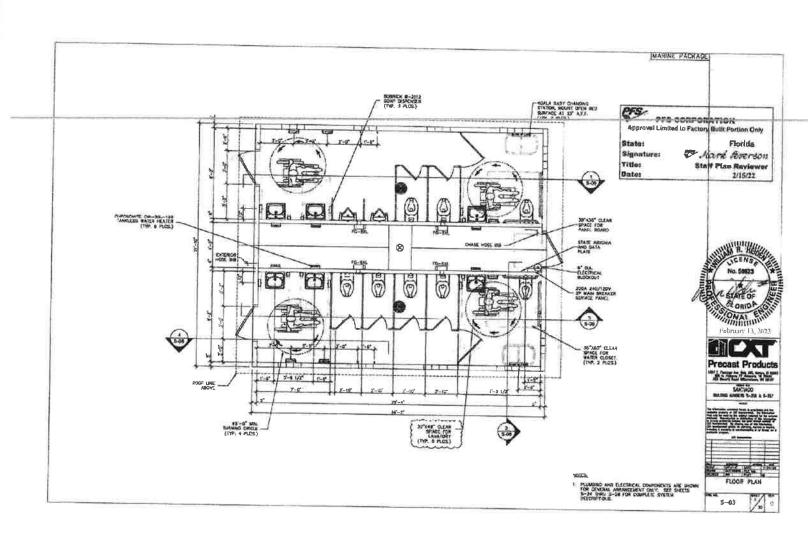
Staff Plan Reviewer

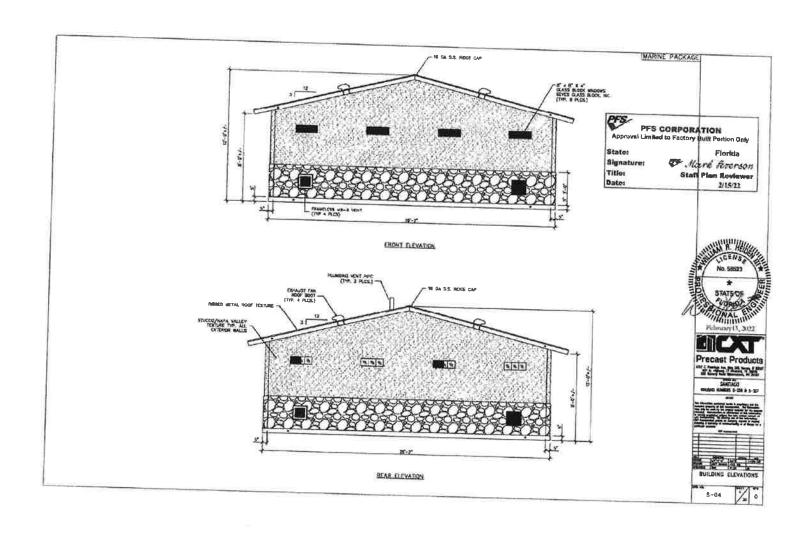
Date:

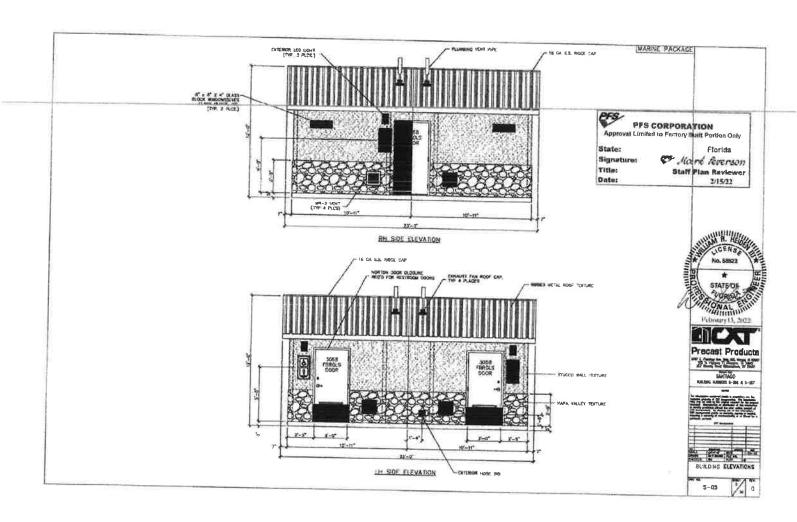
2/15/22

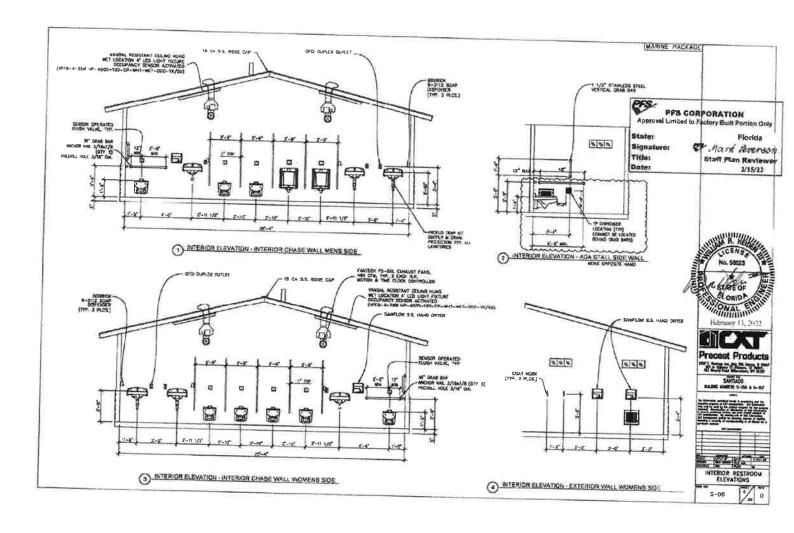


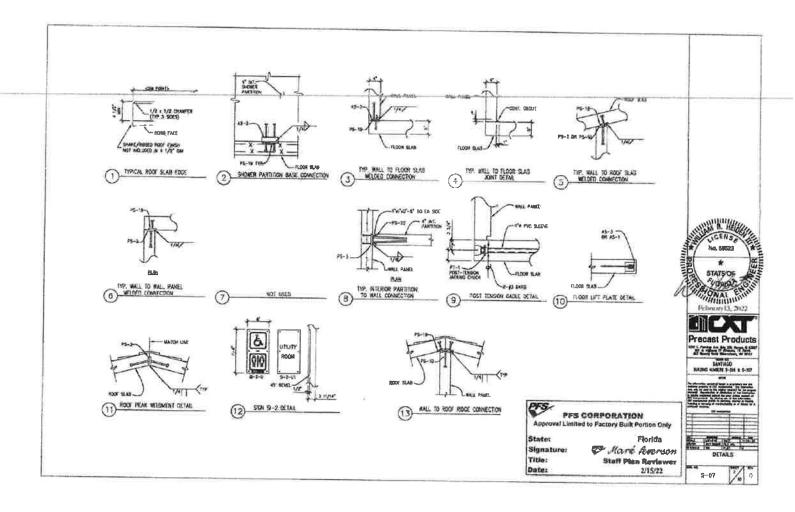


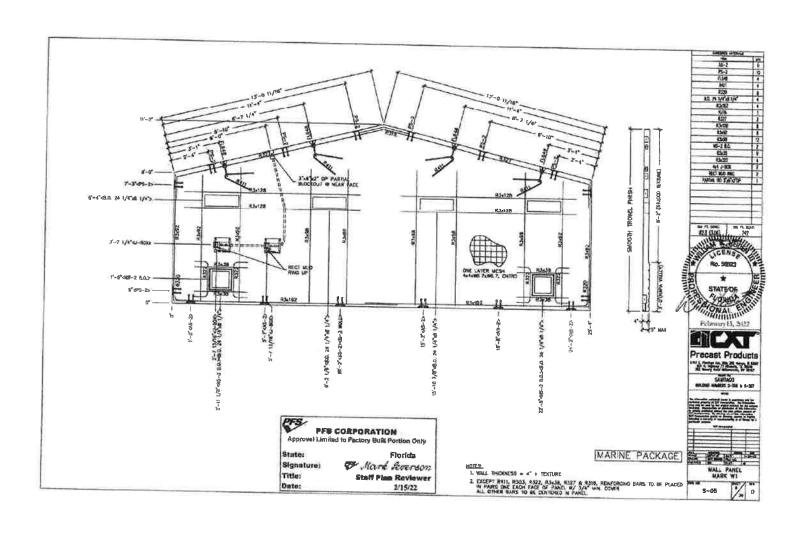


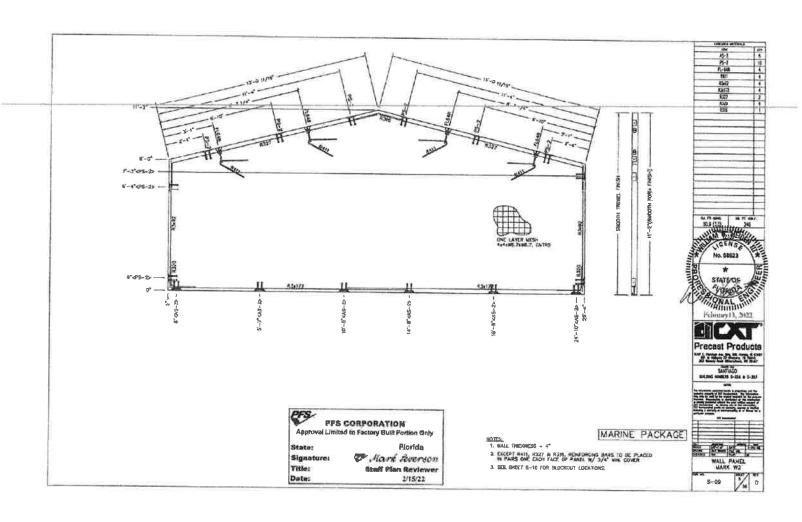


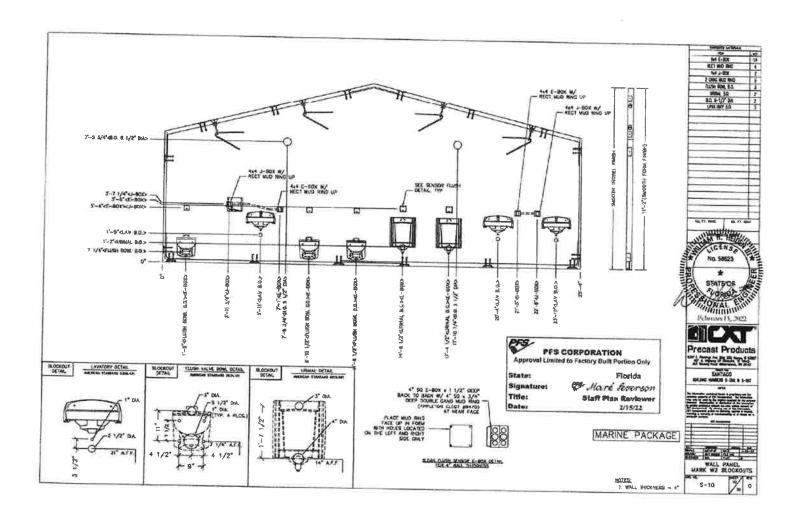


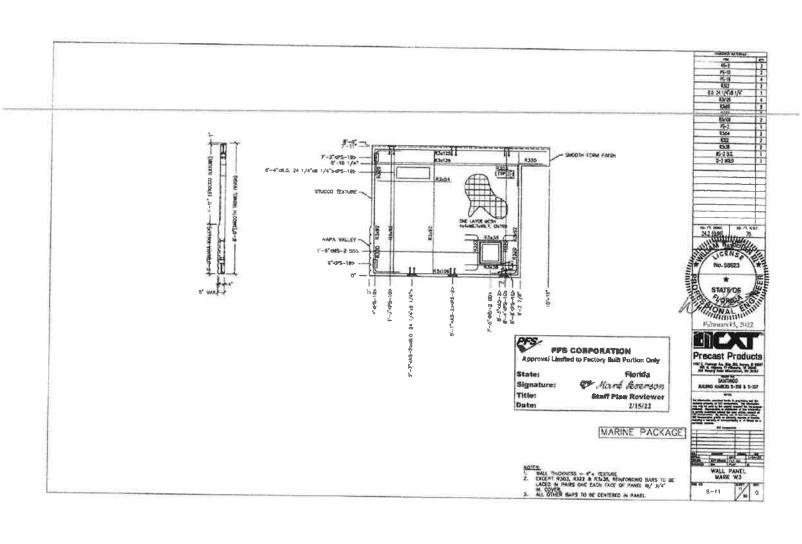


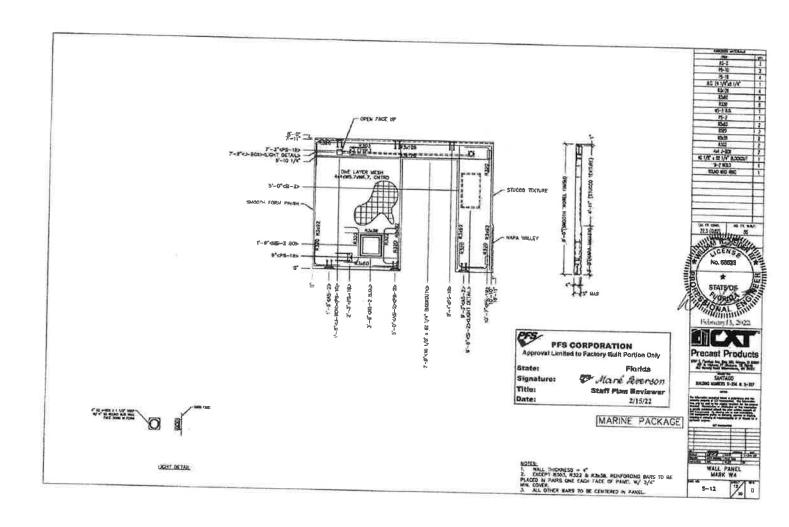


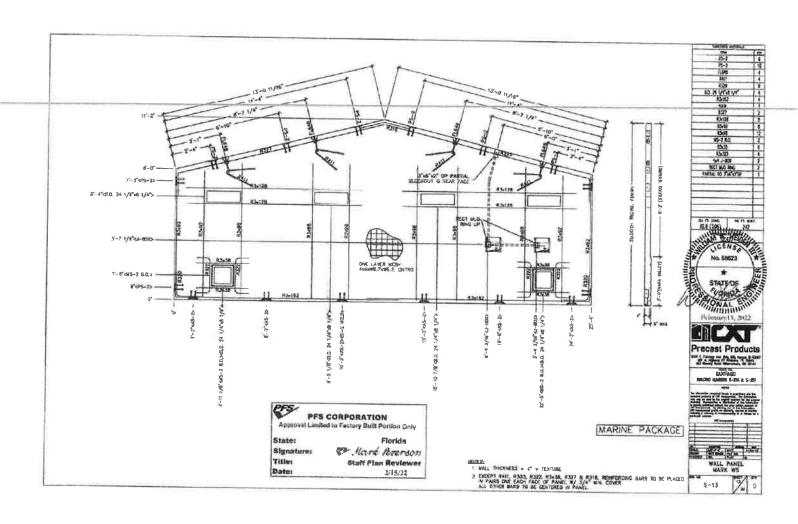


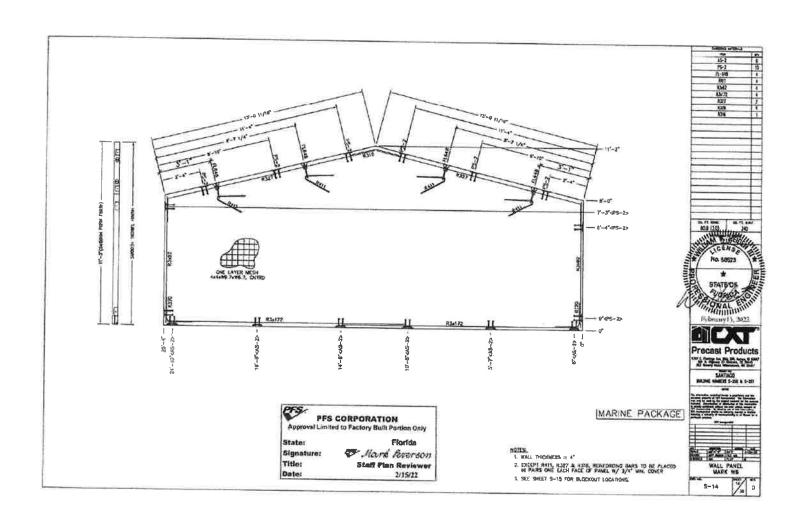


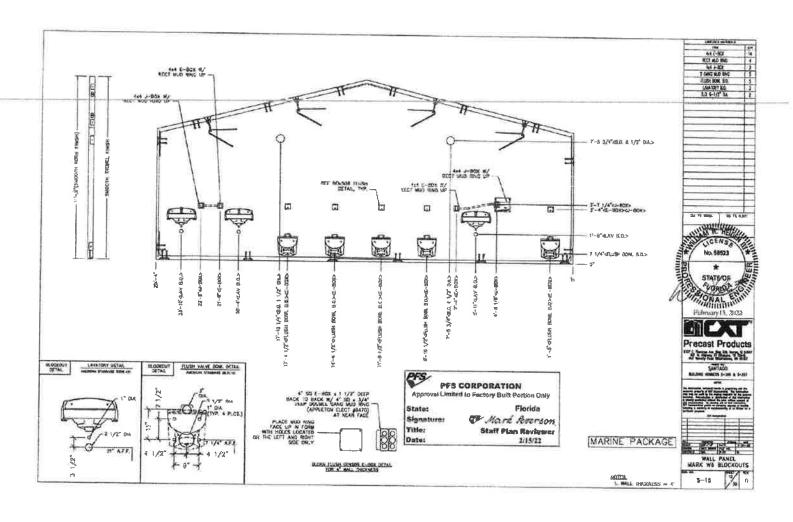


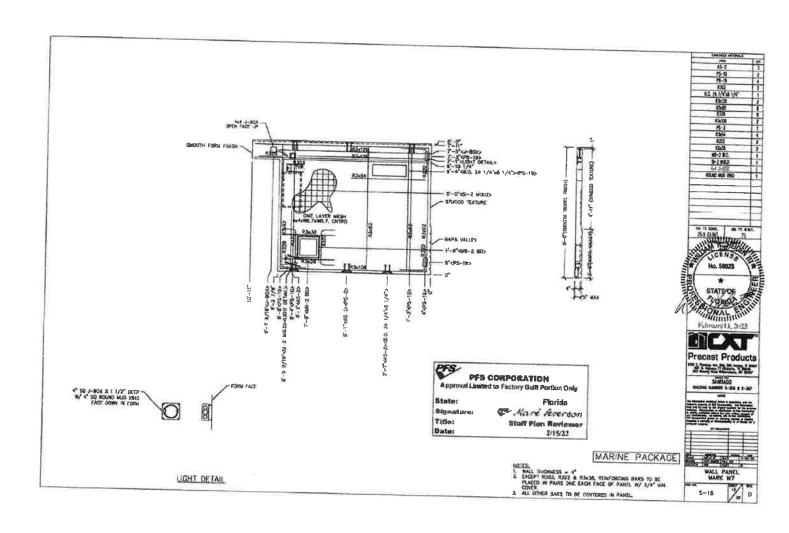


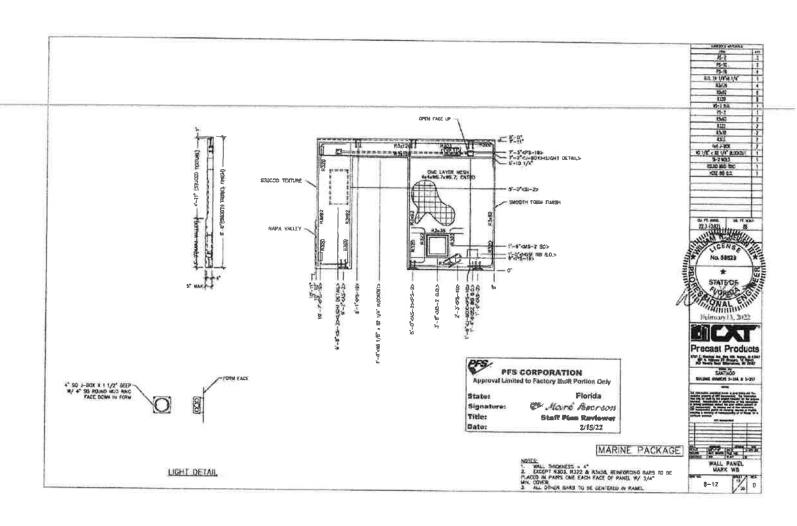


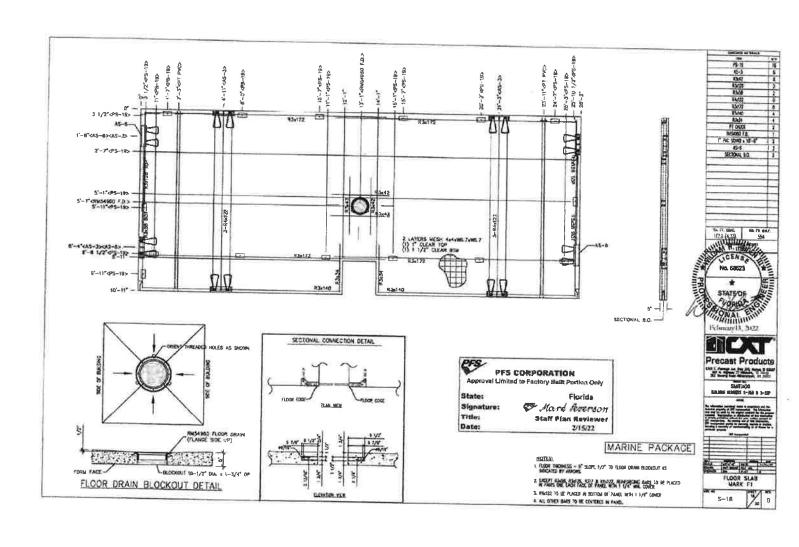


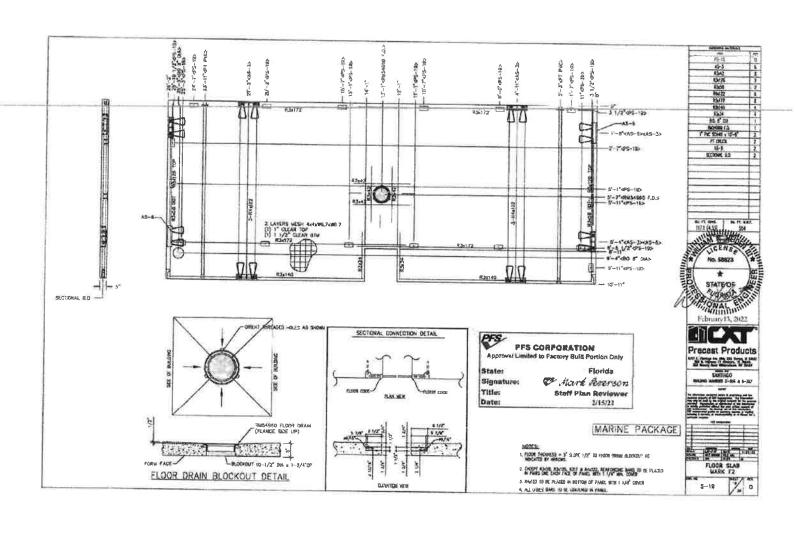


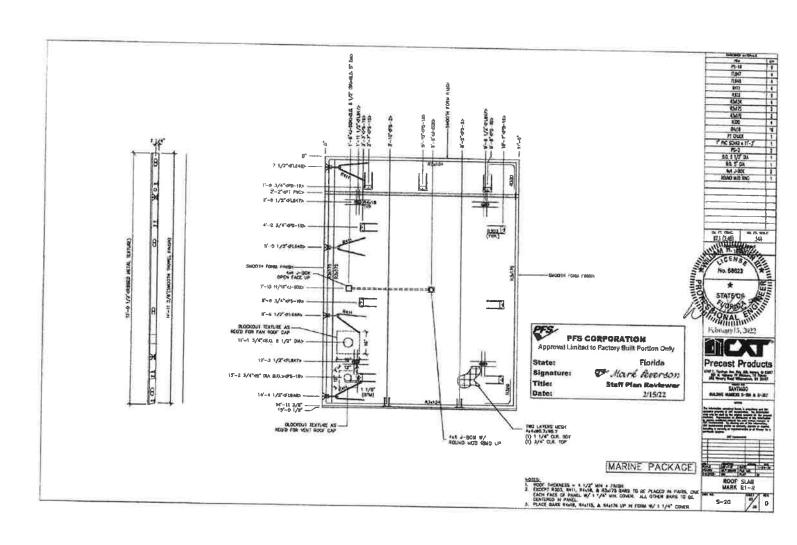


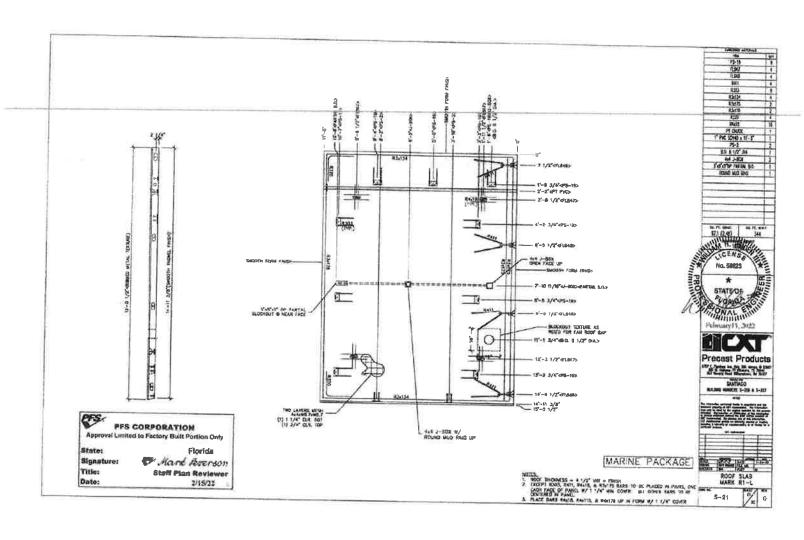


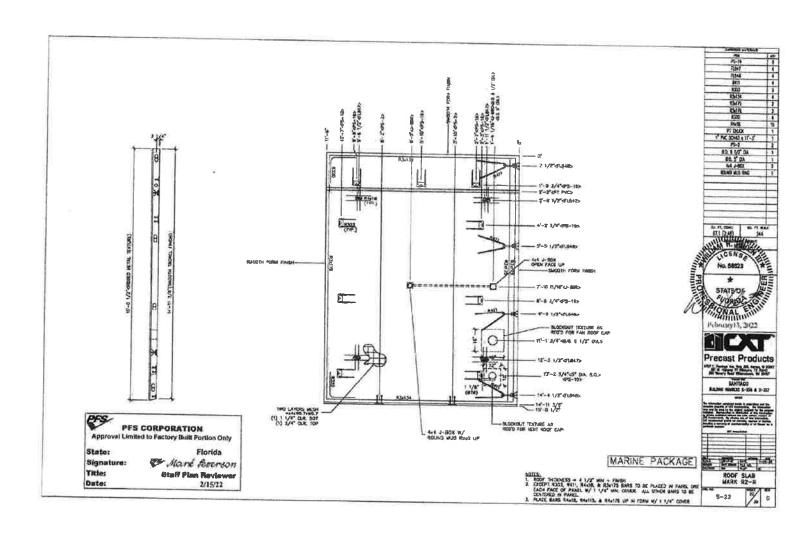


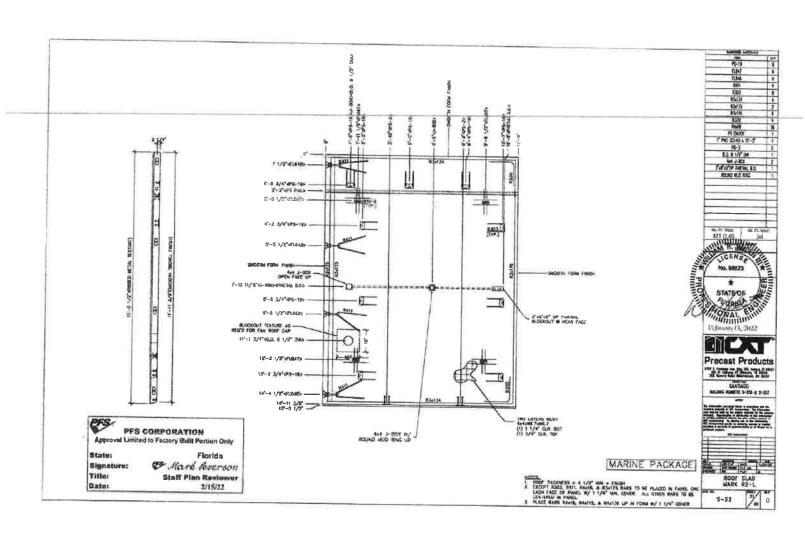


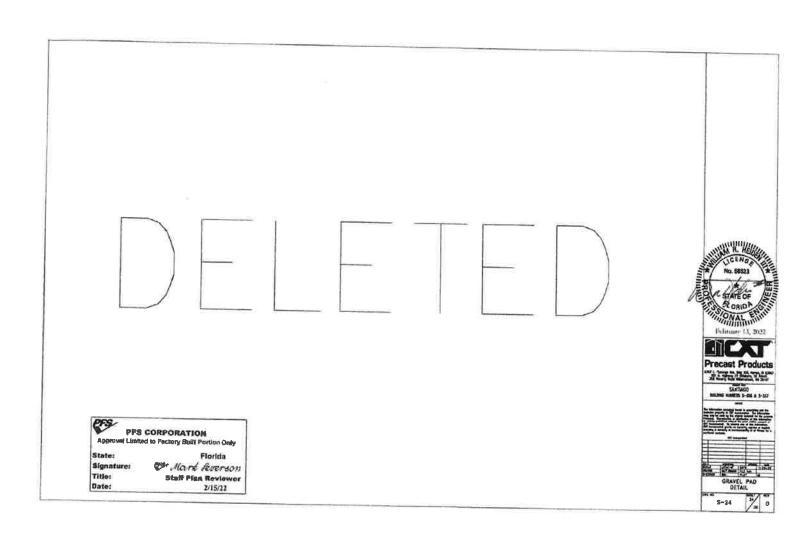


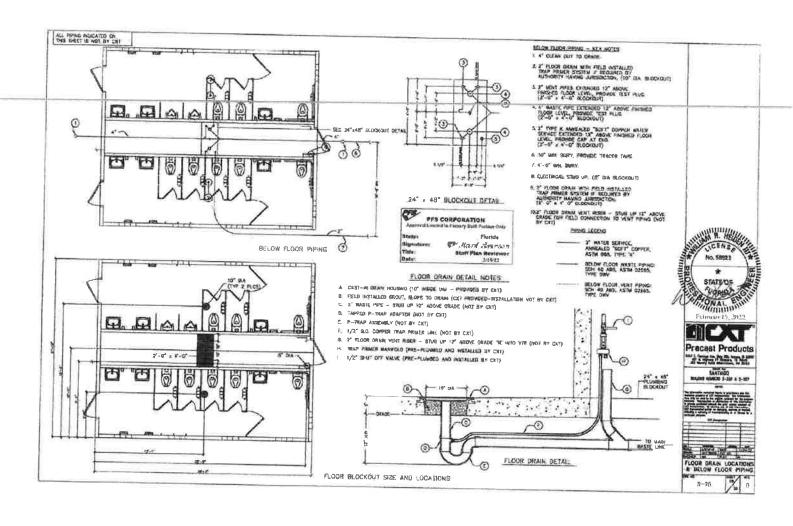


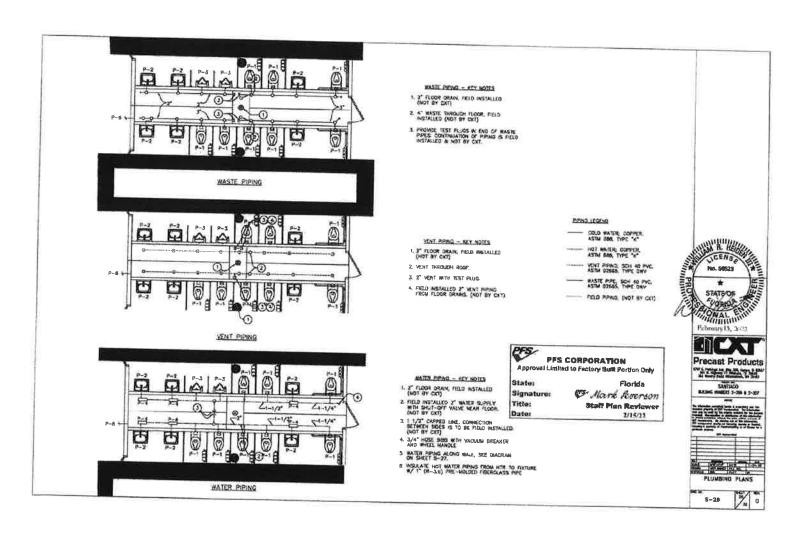


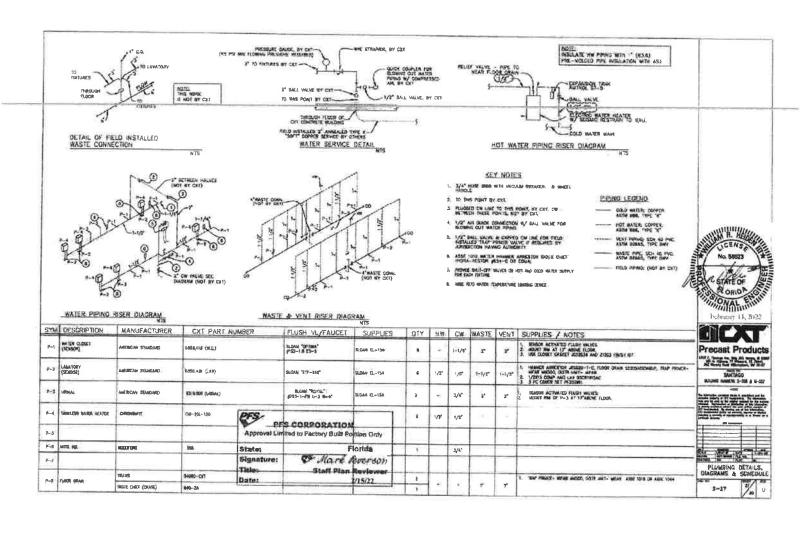


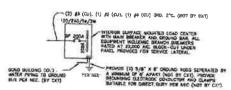












ONE-LINE POWER DIAGRAM

CENERAL ELECTRICAL NOTES

- IN THE PROPERTY STATE STATE AND A STATE STATE AND STATE STAT
- A. ALL MICHAELES SHALL BE OFGE PASTECHES BY CHICAGO BREAKING, OR BY CTHER WITH
- TO MAY COMPANY BY MEED WITH MEET COMMUNICATION OF THE CONTINUE WESTERN SHAPE OF
- 4. MALLET ATT ARREST IN ACCRETAL OR ASTVALED ENGINEERING
- 7. NOVIE ALL COMMUTE IN LITERY ROOM AT COMMIT ON FASE OF MALE.
- A ALL STEWART AND ALL THOSE SHALL SEET THE SOLVE AND SHALL SEET COSTS.

 6. INSTANTA WINE SIZE SHALL SEE SEE AND STREAM WELFATEN MILESS HOVED EINSTRUCK.
- E. SELECTIVE SHAMES AND COMMANDATION IN MALLIES, IN MALLIES, IN CASE SOME CARD LOCATIONS OF SOMES, INTER TO MALL PAREL & OFFICE SHAMES FOR CARD LOCATIONS OF A SOMES, ITER
- ALL COMMUNIOS AND CARLES WAS THE PROPERTY TORNALIST OF APPROVED SHALL STUDE EXPERTING THE DIRECT TO THE REPARTY AND REPORT RECOVERY THAN ANAPOLOUS APPROVED.
- YOU ESPECIAL BURNISH LOGISTUTES REQUIRED FOR EACH HAND OFFICE.
- IN PROPERTY 2 FOLE ION DESCRIPECT FOR SWITCH HEATER, BASEN HEATER EXPONT TO ME JANUAR

				12004	er.	17, 744	POTAL CALOU	SAITED VI	LENB	32.7	64
CHIQUIT			1,040			TNONE			_		-
1 CHASS RECEPTACES	966		(VA)	163	-71	AND THE CHANGES		000	GVEC	1,040	-
3 MINN LIGHTS AND FANS	(A/Qipa	H	165	14		Z (UDINS - CANS)		T IROOM	14		(A)
5 MANS PRHAND DRYERS	1/2/34	N.	26	10	15	4 VIONANZE LIBRETS AND FARIS		IP/20A	T N	360	
7 JANUAS PR HAND DRIVER AT	15/000	1.4	1.140	4.5	٨	D INCHES REPUMPERTER		TEVOTA	1 19		
AND MAN HOUSE DRIVER AT	1PQ4A		1.142	96	Ħ	A INOMENS RR HAND OFFER BY		TENDOA	N.	1.160	
PRINK FR HAND CRIVE #3	1P00A		1.343	94	A	TO WORKERS BY MAND CHYCE BY		TPIDDA		1.540	
11 MEAG VIII AT	197304	I N	Z400	20.0	4	12 PLUMENT SEASONS		17-75A		1,140	-
3 SENS WIE	19964	15	2.400	200	A	CR WITCHESTER WHY MO			1.75	140	
12 MENS WHAT	197004	16	2400	20.0		14 TYPOMENS WIN #1		1FY33A		7.600	- 20
7 SYCORESIS Upo as	189204	M	7.400	240		IS MOMENS PECENTACLE		19/064	N	3.600	3
NIMENS RECEPTACLE	16/20A	11	185	78	21	20 WILDERS PROCESTABLE		IFIGNA		150	
HENERECKPTACLE	1890A	H	300	80	71	22 EXTERIOR LYDYTS		191254	R	209	
79	-	1		-	7	WIE A COMPANY CANADO		JH/26A	C	- 42	. (
77		-			21	74. 35					
271		-	_	-	21	201					
				-	^}	681					
31											
3				-	21	201					
SOTE MAZINEM ALLDONANE MC 15 22	IX AMPS PANAL NA	DOFE	ATIONS	MLL.	- 1	30 301 04D				SWE	
SOTE: MAXIMUM ALLDONAL E NO 12 22 BE PROGRED AND BY CATE OF TRANS	IK AMPS PANEL NA FORMAN CANADAY	DOIFE	ATIONS I	MEA NVA		CAD				CHIQU	
SOTE MAZINEM ALLDONANE MC 15 22	IK MIPS PANAL M FORMER CANADRY	DOFE	ATIONS I	MEA NVA		CAD CICHEMUODS		42	41-23	- 50	V6
SOTE MAZINEM ALLDONANE MC 15 22	IK MIPS PANEL IN FORMER CANADRY	DOIF C	ATKING I	MEA NVA	-	CAD CICHEMUODE PRC (187 10KW)		1400	#1-25 #1.00	1400	VA VA
SOTE MAXIMUM ALLDONALE MC 15 22	IS AMPS PANEL M FORMER CAUACITY	DOFE	ATKING I	MEA NVA	-	CAD CICHIMUODE REC (187 10KW) NON-CONTACOUR		42 1400 20 866	#1-25 #1-00 #1-00	1400 20:408	VA VA
SOTE MAZINEM ALLDONANE MC 15 22	IX AMPS PLANE NO FORMER CANAGERY	DOFFC EFC	ANONE (MEA NVA	-	CAD CICHEMUGGS REC (187 10KVA) NON-CONTINUOUS LEVISEBT MOROR		1400 20 (400 21 (400	#1-25 #1-00 #1-09 #1-25	100 1400 20 408 425	VA VA VA
SOTE MAXIMUM ALLDONALE MC 15 22	IK AMPS PANALAN FORMAN CANACITY	DOI: C	CATIONS I	MELL NVA	-	CAD CICHIMUODE REC (187 10KW) NON-CONTACOUR		42 1400 20 866	#1-25 #1-00 #1-09 #1-25	1400 20:408	VA VA VA

H. HELE

STATE OF TOP OF THE PROPERTY IS, 2022

Precast Products

THE DECK

5-28

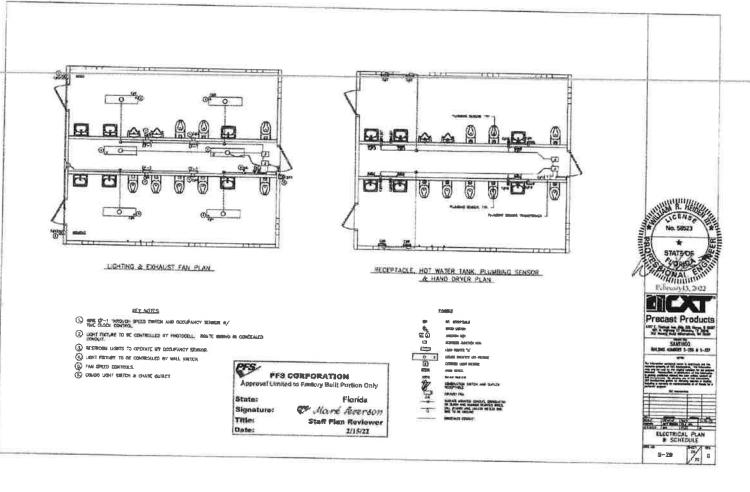
PANEL SCHEDULS

	Dal		
NUMBER	WOLLAGE	BATTS	DESCRIPTION:
۸	120	28	ELIMINARE (9F84 INSTRUCT UDIT TIXTURE, 19978—4-239 HP-4000K-170-02-WHT-WET-00C-TH/SK SURVACE WOUNTED, ED JAMES LOW TEMPERATURE, 1995 JAMES ACTIVATED W/ADDITIONAL OCCUPANCY SENSOR ACTIVATED W/ADDITIONAL OCCUPANCY SENSOR 708 FAN CONTRIDE
el	120	14	SWOOP 610 LED EXTUROR CIGHT, YMP610-1AW HP-JSOCK-120-DP-SRZ-CAT/PC EXTEROR, WANCA: RESERVAY, WALL WORNTO, I WART, GLEAR SCHMATIC LIDES, RUET M PHOTOFLECTRIC COMPRO.
q	120	28	CUMMAIRE WITEA MITTHOR USHT FIXTURE, WITEA-128W ND-4000W-120-CF MHI-WEI- DK/SD SHITACE WALL WITEA BLASS LOW TEMPERATURE DRIVEN, WALL SWITCH COUNTROL.

HOLE, THE SOUNCE OF EFFICIENCY OF EXCEPTION LIGHTED IS TO BE A MINIMAN

SW	100	MODEL #	Ow	SOMES	WEITE	Lips	l vis
ti-e	FAICTECH	FG-8/Q	694	6.0	120	L.b	413

PFS CORPORATION
Libertal to Fection Gely Florida Mark Brerdon Mart Plan Reviewes 21522



The part of the	WALL PAME, W	WILL PARKE AND						
## 1						TRALL PANEL HE	West Presidence	F and the second
Column C		/to late				Delita mente		
April			64 f-800 16			the er	50 IN	
April					8-1		15-7 E	
State						81 1		
State						PLANS 6		
15 15 17 18 17 18 18 18 18 18								
Description	2.3.25 t/V d 1/V 4					200		
State	R3/152 4							
Column C	836							
Act	E277 [1]		120000 13			426		20 0-41 m
Description Process	CASE 2				S-1 1			
1					RMC 2			
STATE 1 STATE STATE 1 STATE 1 STATE 1 STATE 1 STATE 1 STATE STAT			-				65	
Section 1				2377 2			-	FS-CORPORATION.
1		-						
61 Fig. 1 1 1 1 1 1 1 1 1 1							- Individual of	mich to Facility Build Pottion Only
### \$2 100				9-1 VOD 1			10000	
MARIN E MATTER							State:	
Title: Staff Elan Reviewer Staff Elan							Signatural	USC Hand Andrew
Title: Staff Elan Reviewer Staff Elan	THE PERSON IN							Pricera vererson
Companies Comp						T Charles	Title	Staff Plan Reviewer
1. The second se							Date	
100 100					-		- Interior	
100 100								
100 100								William S. March
100 100	and I was							THINK IT HOLD
12.1 10.2	26 (106)		CLFLORE STATES		BLTL SIGN I SHITL	Towns I was a little		
13.00 13.0								ON PLEME MITTERE SET WAR
1	19,420		APPROVE MARK	ATTIGUISHE WORLD			The state of the s	51"/ NO. 58823
1	- END	UD		1530	1345	12.420		STEENE SERVE STOP
1			FLOOR SAN IT	Personal 1			2.10	三 三 三 三 三 一 一 三 三 一 一 一 一 一 一 一 一 一 一 一
1							300F SLAP #2-4	STATEOS
Property 1 Property 1 Property 2 Property 2 Property 3 Prop								A La les
Property 1 Property 1 Property 2 Property 2 Property 3 Prop		AS-7 3					che i der	- In 100 1000
10.25 1 10.25			AG-3 8					HAM IN CONTACT E
10.25 1 10.25					1001			130 The second
10.00 1 10.00								TANK 4 Halaman 1 1
Mode 1 Mode 2 Mode 3 Mode 4								MO 4 PERSEPTED, 20
100 1 100 1 100 1 100 1 1								
Description Color								
Color Colo		45-2 20. I	1340					0.00
Tright T		B-1 1					E3626 1	1903 Precast Proc
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$							101	
Column C								Black III Street Street
SAME 1 1 1 1 1 1 1 1 1		15d8 2					M DEXX 1	Pi Deft 1
## 100 1 1 1 1 1 1 1 1 1								C' by south or C'
\$-1.00 1 50.5 17 50.5	15-7 84 1					75-2 2		
10 10 10 10 10 10 10 10	3-2100		Danie 1			\$0.51/7 DA		
7. 1004. 10.71 and 10.71 a				SCHOOL 10 1				MANUAL TO THE PARTY OF THE PART
1. Cash								TOTAL PROPERTY AND ADDRESS OF THE PARTY OF T
7. 1004. 10.71 and 10.71 a			11					PART AND SEC.
C. COMA M. F. C. COMA M. F. COMA M.		- III						The state of the s
## 15 15 15 15 15 15 15 15						1-11		
								The second
75 (2.10.00) 86 117.1(4.35) 554 177.1(4.35) 556 511.12.00 314 53.1(2.00) 314 53.1	PE 0004 10 /1 4 M/					1		A STATE OF THE PART OF THE
FOR STATE OF		77 1 /0 879 BB				STREET BUILDING	50 00 L 50 0	
1865 1346 President and province and provinc								ATTERIAL US
	5885		PROPERTY AND A		STREET, SCOT			

CXT Inc. (Precast Division)

Calculations

Santiago S-356 & S-337 Structural Analysis

Design Loads

400 psf Live Floor Load 180 psf Ground Snow Load Wind Speed – 170 mph Exp. C Seismic Design Category: B

Design Standards

2020 Florida Building Code 7th Edition ASCE 7-16/ ACI 318-14

> UL-752 Bullet Resistance Classification: Level IV Report #: 2012-647



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

2/15/22

THIS REPORT CONTAINS AS BAGES, ENCLODING THE COVER AND THE TABLE OF CONTENTS. ANY ADDITIONS TO, ALTORATUSES OF, OR CHARTEORIZED USE OF ENCHAPTS FROM THIS REPORT ARE EXPOSELY FOREIDDEN.

No. 58523

No. 58523

STATE/OF

STATE/OF

ONAL

February 13, 2022

Table of Contents

Description	Page(s)
2018 International Building Code	
ASCE 7-16 MWFRS and C&C Wind Loads	ŧ
ASCH 7-16 Snow Loads	2
ASCU 7-16 Seismie Loads	3-4
Roof Panel Analysis	5-6
Wall Panel Analysis	7-24
Floor Analysis	25-26
Huilding Analysis	27

Appendix: (Provided Upon Request) UL-752 Bullet Resistance Testing



All attached documents are for reference only and designed or approved by others.

THIS BEPORT CONTAINS IS PAGES, INCLUDING THE COVER AND THIS TABLE OF CONTENTS, ANY ADDITIONS TO, ALTIGIST HONE OF, OR UNACTHORIZED USE OF EXCERPTS FROM THIS REPORT ARE EXPRESS Y FOREIGNS.

No. 58523

No. 58523

STATE/OF

STATE/OF

Pebruary 13, 2022

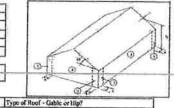
Main Wind Force Resisting System Loads (ASCE 7-16)

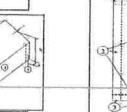
		Santiago S-JS6 & S-JS7	,,,,,
Category	11	IBC TABLE 1604.5: Risk Category of Buildings and Other Structures.	-
Exposure	C	See § 26.7.3: Exposure Categories, General.	_
Velocity	170 mph	See Figure 26.3-1A thru 26.5-2D; Basic Wind Speed (3 second Gust)	=
hwind	\$ 00 R	Windward wall height	
hitte	8.00 C	Leonard wall beight	_
W.bailding	26 ft	Width of the building	_
Lbuilding	21:83 (1	Length of the building	
H.building	11.60	Height of the building (to the ridge). Enter 0 if unknown	_
Roof Rise	1	Roof pitch (per foot)	_
9	14.04 deg	Roof Angle	-
Kd	0.85	Wird directionality factor, 0.85 when using load combinations, 1.0 otherwise.	_
Kd K	0.00	The same and the s	
K ₂	0.00	7	
c,	0.00	See Figure 26.8-1. Multipliers for Obsuming Topographical Factor Krt.	

Kirt.	1	Topographic factor
h	9.800 ft	Mean roof height
a,	7.65	Natural frequency
Floobitity	Nigd	Building fleebility
a	9.5	Terrain factor
Au	900 n	Termin factor

Velocity Pressure Exposure Coefficiera 0.849 | jat wiralward case

Velocity Pa	essure (27,5,2)
Q,	53.38 psf





Partially Enclosed if the building meets both of the following conditions:

Gable

1. Total area of openings in one wall exceeds area of openings in the balance of the building by more than 10%.
2. Total area of openings in one wall exceeds 4 sq. ft. or 1% of area of that wall and the total area of openings in the balance of the building does not exceed 20% of the area in the balance of the building does not exceed 20% of the area in the balance of the building.

Zont	Opening Area	Gross Area	Agi	Aci	Condition i	Condition 2	Condition 3	Condition 4	Type:
Vindward sidewall	0 sq A	174 6 sq ft	1251.8 sq ft	U sq B	0.00	0.00	0.00	0.00	Enclosed
Vindward endicall	0 sq ft	254,8 sq Q	1171.7 sq ft	Dag a	0.00	0.00	0.00	0.00	Erclosed
coward sidewall	O sq n	174,6 sq ft	1251.8 sq ft	O sq ft	9.00	0.00	0,00	0.00	Erclosed
coward ordinall.	n pa u	254,# 4q ft	1171.7 sq ft	A cro	0.00	0.00	0.00	0.00	Enclosed
loof.	n pa 0	567,6 sq ft	858 9 sq 0	O so ft	0.00	-0.00	0.00	0.00	Enclosed

	Enclose

		External Pressure Coefficients		
C	0.8	Sec 27.3.3 Roof Overlangs		
	0.8	Windward walf (Use with qz) Fig. 27.3-1		
Cp	-0,462	Leeward wall (wind cornel to ridge) (Use with 9h)	L/B =	1,19
C.p	0.500	Leoward wall (wind parallel to ridge) (Use with gh)	1/8 =	0.84
	-0.7	Sidewalls (Use with gh) Fig. 27.4-1		

Neg. Windward Loeward

Ga	0.65
----	------

Internal	L(casurer:
Negative	-9.61 psf
Positive:	9.61.ps/

0

0

Ridge when Tiets >= 10degrees	-0;108	-0,640	-0,4R1	
	0 to W2	1 1/2 to h	I leto 2h	>2h
Roof Pressure Coefficients (Fig.27.3-1) Normal to Ridge when Theta < 10 deg.	-0.90	-0,90	43.50	-0,10
Roof Pressure Coefficients (Fig 27.3-1)	4),90	-0.90	-0.50	-0.30

9.W0 ft

-64.86 psf -117.44 psf -107.57 psf

-133.46 ps

Pos. Whitward

Wall Pressures:	w/ Negative	w/ Positive Interns
Windward	45.91 psf	26.69 psf
Lecuani (wind remui)	+16.00 psf	-30.56 psf
Leeward (wird parallel)	-15,00 psf	-32,30 psf
Side Wall	-22.15 psf	-11.37 psf

dditional Overhang Pressure:	36.30 psf
------------------------------	-----------

Height:

25.89 psf

10.0 sq ft -38.84 psf 25.89 psf -91.55 psf 25.89 psf -117.44 psf

	ores: Wind Parallel to or all roof slopes:
Location.	w/ Positive Internal
D to M2	-30.45 psf.
MZ to b	-50.45 psf
h to 2h	-32 30 psf

	& CLADDIN		
	500	A pe D,	
15,21 pst	-43,51 bsf	15,23 ps/	
15.21 gaf	-64.85 psf	15:21 psf	110
	-117.41 psf		de
15.21 mil	+107.57 msf (15.21 mf	

My resulte tricing	-18.02
*WORST CASE LO	ADING

Pressures Wind Perpendicular to Ridge 8 >= 10 deg w/ Negative Internal

How Pressures; Wind Perpendicular to ridge for 8 × 10 deg:		
Госацоп.	w/ Positive Internal	
0 to 1/2	D,00 gaf	
N2 to h	0.00 psf	
h to 2h	0.00 psf	
Oxer 2h	0.00 psf	

Upder pressures at the ridge time-only applies to mof pitches: > 7

15.21 ps 15.21 ps -133.46 ptf



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

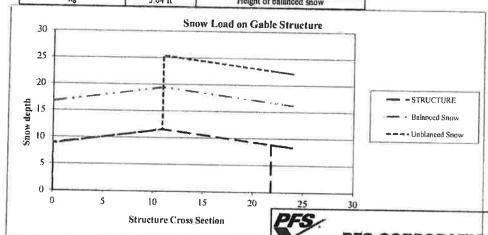
ASCE 7-16 SNOW LOAD CALCULATION

Category	П	IBC TABLE 1604.5: Risk Category of Buildings and Other Structures.
Exposure	C	See § 26.7.3: Exposure Categories, General
Pg	180 psf	See ASCE Figure 7.2-1: Ground Snow Load
W.building	26 ft	Length of the building
L. building	21.83 ft	Width of the building
H.building	11,6 ft	Height of the building (to the ridge). Enter 0 if unknown.
Roof Rise (per foot)	3	Roof pitch
9	14.04 deg	Roof Angle

ASCE Table 7.3-2 - Thermal Condition;	Ci
All structures except as indicated below:	1.0
Structures kept just above freezing and others with cold, ventilated roots in which the thermal resistance (R-value) between the ventilated space and the heated space exceeds 25°h (deg*sq ft/BTU).	1,1
Unheated and open air structures	1.2
Structures intentionally kept below freezing	1.3
Continuously heated greenhouses with a roof having a thermal resistance value (R-value) less than 2.0*h (deg*sq ft/BTU).	0.85

C _t	1.2	(Choose from table above)
Is		ASCE Table 1.5-2
Surface	Unobstructed	ASCE § 7.4
Roof type	Gable	
Hor. Eave to Ridge Distance - windward	13 ft	
Roof Exposure	Partially exposed	ASCE Table 7.3-1
Ce	1,	ASCE Table 7.3-1
Cs	1	Slope Factor from Figure 7.4-1
Low Sloped?:	Yes	ASCE § 7.3,4
Pr	151.20 psf	Flat Roof Snow Load
P _t	151.20 psf	Sloped Roof Snow Load
Use unbalanced?	Yes	ASCE § 7.5.1
Pwindward	0.00 psf	ASCE § 7.6.1
Piceward	180,00 psf	ASCE § 7.6.1
Piccward 2	180,00 psf	ASCE § 7,6,1
Distance from Ridge to Edge of P _{leewant} loading	13,0 ft	ASCE Figure 7.6-2

_	Ϋ́	30.00 pcf	Snow density	Eq. 7.7-1 of ASCE 7
_	S	4	Run per rise of 1	ASCE § 7.1
	h _d	7.87 ft	Height of drifting sr	now on lecward side
	h _ե	5.04 ft	Height of balanced snow	



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

Seismic Loads (ASCE 7-16)

	Scisinc Dodds (ASCE 1-10)	
	Santiago S-356 & S-357	7-
11	IBC TABLE 1894.5; Risk Category of Buildings and Other Structures.	
0.14 g	Max. Earthquake Ground Motion of 0.2 see Spectral Response Acceleration	ASCE Figure 22-1
0.07 g	Max. Earthquake Ground Motion of 1.0 see Spectral Response Acceleration	ASCE Figure 22-2
D (Default)	Site classification (Use D if unknown unless jurisdiction, or geotechnical data determines Site Class E or F.)	ASCE 20.1
16.0 sec	Long Period Transition Period	ASCE Figure 22-14
A.S	Internediale precest sheer walls	1
4,00	Response Modification Factor	ANCE Table 12.2-F
2.5	System Over strength Factor	-
0.02	Approximate period parameter	ASCE Table 12.8-2
0.75	Approximate period parameter	ASCE Table 12.8-2
10.01.0	Height in feet from base to highest level of structure	PROCE TROPETED C
	0.07 g D (Default) 16,0 sec A.5 4,00 2.5 0.02 0.75	Santiago S-356 & S-357 II IBC TABLE 1804, S. Ruk Category of Buildings and Other Structures 0.14 s. Max Enrichauske Ground Motion of 0.2 so Spectral Response Acceleration 0.07 g. Max. Enrichauske Ground Motion of 1.0 see Spectral Response Acceleration D. (Default) Sinc classification (Use D if unknown unless jurisdiscion, or geotechnical data determines Site Class & or F.) Long Period Transition Period A. S. Internaciatele process shear walls 4.00 Response Modification Factor 2.1 System Over strength Factor 0.22 Approximate period parameter 0.75 Approximate period parameter

-			- The Company of the Co	Value 1"	Value 27	**-Used for interpolation
F,	1.6	Interpolated Value	ASCE Table 11.44	1.6	1.6	J. Comment of the Comment
F.	2.4	Interpolated Value	ASCE Table 11.4-2	2.4	2.4	
Sms - Fa * S.	0.216 g	Adjusted MCF Spectral Re	spense Acceleration at sh	ort periods		TASCE II 4-1
C E . C	0.162	14.1/ (1400.0 10				- 112222 V 1000 V

Adjusted MCE Spectral Retnomer Acceleration at 1 sec period (MCB = Maximum considered carthquake)

S ₀₀ + 2/3 Sm,	9,144 g	Design Spectral Acceleration	Parameters	JASCE 11.4-3
Sm = 2/3 Sm;	0.109 g	Design Spectral Acceleration	Parameters	ASCE 11.4-4
I _k	r - r	Importance Factor	ASCE Table 1.5-2	7

Sebmic Design Cate	8	
Bestad on Son	A	Führ (1 6-1
Hosed on Sor	В	Pable (1.6-2

Geotechnical Investigation Report Required?

Na

	QUIVALENTL	TERAL FORCE PROC	EDURE	
T, + C, 4 hn 4	D.11 sec	Approximate fundamenta	l period	ASCE 12.8-7
Ti = Sin/Sim	0.76 sec			The state of the s
T	0,11 sec	Fundamental period of th	c structuro (can bo la	ken as Ta per ASCE 12.6.2
C, = Spd(R/I)	0,036	ASCE 12.8-2		
C, orgi	0.010	ASCE 12.8.5 & 128-6		
Cimas	0.242	ASCE 12.8-1 & 12.8-4		
Ca	0.036	1000000		
Ř.	1.000	ASCE 12.8.3		
W	158.62 kip	110-1103		
V = C * W	T4.28 kip	ASCE 12-8-1	Shear with move	r ippd
M, o	140,8 k-f).		Overturning Mai	ment with snow load
V = C, = W	12.46 kip		Shear without si	now load
M, ≠	122.4 k-fi		Overturning Mor	stent without snow load

12.7	2	12.8-11:11.7	12.8-13		LOAD	WITH SNOW			
M _a Fraction	V ₄ (Stary slicer)	F.	Cox	w,*b,*	w,	Pr (flat roof snow load)	h, ar h.	Story: Height	Level
0.0 k-ft 3.30	14.06 kip	14.06 kip	0.985	920.4 k-ft	91,96 kig	151,2 psf	10,01 ft	9.80 0	Roof
9/4 K-11 2/30	11.00 kg	110000					0.00.0	0.00 ft	Walls
137,8 k-ft 3,84	14,28 kip	0.21 kip	0.015	13.9 k-ft	66 66 kip		0.21 A	0.21 R	Floor
140.8 k-tt	M _a =	1 22111		934.3 k-ft	158.62 kip	W-ii	D 00 D	ű fi	Base

			WITHOUTSN	OW LOAD		12.8-12	12.8-17;17.7	F		12.10-1
Eural	Story Height	h, or h,	Pr (flat roof: anove load)	44,	w;*h,*	C _{rr}	F,	V, (Story skear)	M.	F _{pr} (hepress
Roof	9.80 0	10.01 ft	Dasí	71.79 kip	718.5 k-ft	0.981	12.22 kg	12.22 kip	QU k-N	4.14 kip
Walls	0.000	0.00 ft					- Inches	Total City	CO K-11	4.14 819
Floor	0.21 ft	0.21 0		66.66 kip	13.9.k-ft	0.019	0.24 kip	12.46 kip	119.8 k-ft	3,84 kip
Base	On	0.000 ft	W-s	138,45 kip	732.4 k-fr		3,01,00	Mo =	122 # k-Ω	Stocking



PFS CORPORATION

Approval Limited to Factory Bullt Portion Only

State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

Center of Mass & Rigidity

Santiago S-356 & S-357

				X	Y	0
		48 + QQ	Lawer Right	348	276	
Whit	X Helative	Y Relative	Shear Fe		Dist to CoRx	Chat to Colly
1,500	Stiffness	Stiffness	(Da	plf 1	\$1.(TN)	dy (N)
IAL	0.00%	24.51%	811	32	43 337	128,000
M5.	0.00%	25.45%	844	33	40.334	26 000
W3	32.04%	0.00%	1,061	97	110.663	75 600
175	18.00%	0.00%	590	53	197.334	56 201
985	0.00%	24 51%	811	32	43,337	128 000
Wo	0.00%	25,49%	844	33	43 334	26 000
WIT	32.03%	0.00%	1,060	33 97	110 666	75 593
WB	17.93%	0.00%	594	54	197 234	54 557

-			Celt Edge	Top Edge	Right Edge	Bottem Edou	Spot of T	North C	d Gravity		
Siab	Thickness	Weight	X	Y	1	1		Patring	Chlamix	1770	Live
RIL	43	10065	0	0	174	144	(par)	X	Y	W SCOW	W/D show
RIA	40	10065	174	-		120	151.2	B7.0	09.0	15108	10065
R2-L	45	10005	1 12	122	348	136	151.2	261.0	680	15108	10065
R2-R	45	10065	1	1.38	174	276	151.2	87.0	207 O	15100	10065
61	-		1/4	133	346	276	151.2	261.0	207.0		
F2	2	17565	17	7	331	769	400	174.0		15100	10065
Totals		17565	17	136	331	202	400	174.0	1380	17565	0
LOCATE	1	63060							203.5	17565	. 0
			75				1	174.0	145.3		

Torsional I	Eccentricity	War	West		Total T	
- ax	67	(W MOON)	(with show)		(Wassen)	Wgt
42.78	7.26	158,620	138.450	roof	01 000	71 700
Center o	f Gravety			floor	56 660	11,130
_ X	Y				4 44,444	
174.6	145.3					
Center o	f fligidly					
	Y					
217.3	136.0					

Wate	Ancherage Required to Resist Overturning From Design Moment (kg-1)		twer Right relatance	Anchor Si Memoris	pper Lett relations	Overturning status using just connection to ediscent walls
WI	-18750	77.57	check -	(kip-4)	check	in editoriz save
WZ	-105 15	77.57	4	77.57	100	7) 10 10
W3	13.12	49.50		77.57		1 To
W4	21.74			55 48		The Property
W5	187.50	49.58		98.40	12.0	
WE		77.57		77.57		
WZ	-165.15	77.57		77,57		The state of the s
	-12.13	60.36		49.65		
Ma	-21.78	69.30	1000	48.65	Married Williams	

Overfurning resistance considers only the exight of the well, the weight of the roof supported by the wall, and connection to edjacent walls. (Roof yeight supported by other walls has not been considered. Connection to adjacent wells is taken as the connection capacity, not to exceed that portion of the adjacent wall weight that can be reseasably strated to the connection.

		Wall Overterring Checks Using Base Anchors Only Must investigate ONLY if connection to adjacent walks as insufficient							
Well	Design Moment (kip-11)	Toward L	ower Right Insistance	Anchor F Anchor F Moment	Upper Left Insistance	Continue Loading Unity	Required Tension Capacity per Base Anchor (b)		
Wf	-187.50	201 BG	THE RESERVE TO THE PERSON NAMED IN	201.89	check	Check			
W2	-185.15	106 18			SECTION 1		£3488£		
W3	13.12	44 30		196.16		250	[3457]		
W4	-21.74	50.00	140	48.32		F	(3939)		
W5	-187.50	201.89	100	201 89			(4055)		
MA	-185 15	196 16				1	(3468)		
W/	-13.13	46 32		196.10	-		(3457)		
WB	-21 78	41.70		51.41		100	148983		
-				21.91	the state of the s		(3925)		

	SAME ALL	restigate ONLY If	both base anchor	alone and adiaco	nection to Adjecent and walls along are	Walls
Well	Shear Required	Tensori Avalable	Resistant From Bas	oe (kip-it) e Anchara	Unity C	heck of inchors
	I's Capacity	(% Capacity)	Lower Right	Upper Left	Lower Right	Upper Let
WI	3.5%	100.0%	279.46	279 46	THE REAL PROPERTY.	CHARGOS WITH
W2	4.3%	100 0%	273 73	273.73		
W3	7.7%	100.0%	93.94	116.79	the state of the state of	
194	45%	100 0%	99.64	112.18	- 10	
W5	35%	100.0%	279.46	279 46	THE PARTY OF THE PARTY OF	211
W6	43%	100.0%	273 73			
W7	1.7%	100.0%		273.73		
WB	4.5%		117.69	93.04	(40)	
110	9,376	100 0%	111 08	100.08		200



State:

Florida

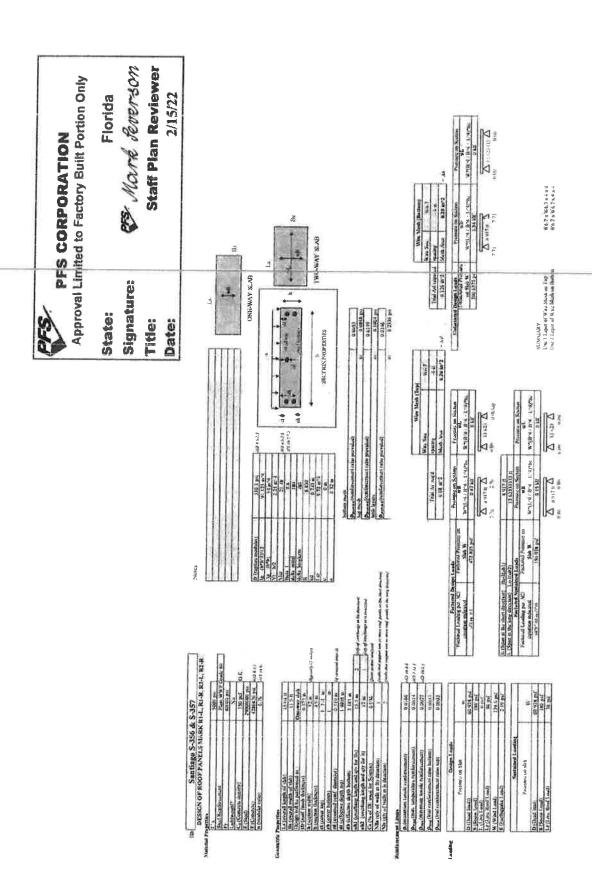
Signature:

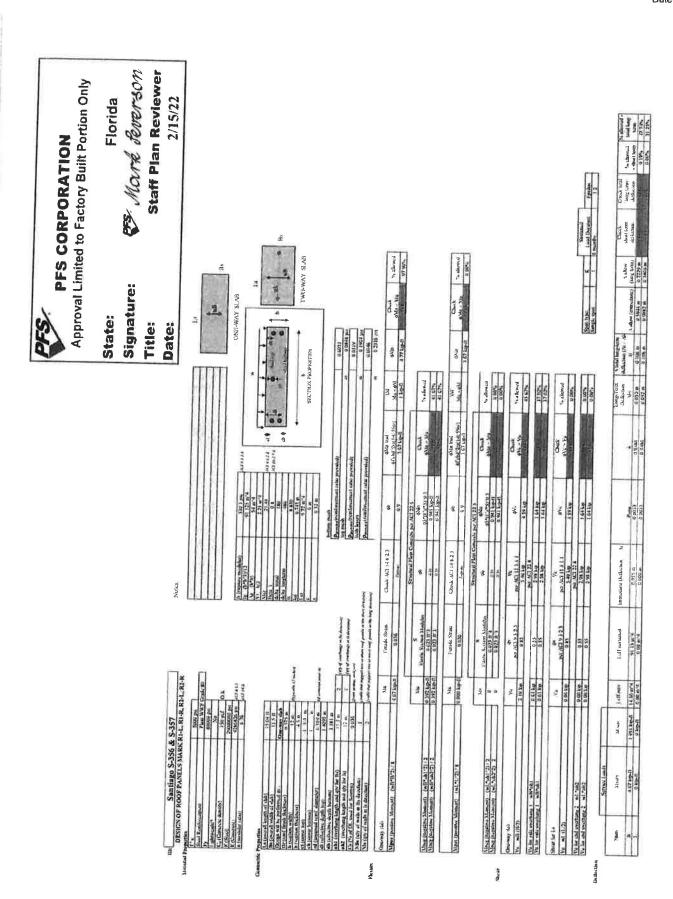
& Mark Severson

Title:

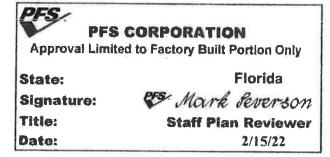
Staff Plan Reviewer

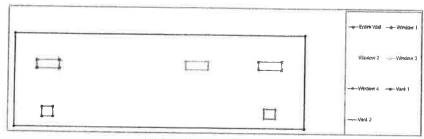
Date:





DESIGN OF WALL MARKED WI Wis peaced their So wrappy suggested, stallar breaked, and subject to not adjusted states a contact case of the seal. Which peaced their So wrappy suggested, stallar breaked, and subject to not adjusted states a loading where necessarian measurements and deficience operate at such length of the seal. The cross section is contact every the people of the seal great. So that the contact case of the seal great. So that the contact case of the seal great. So that the contact case of the seal great. So that the contact case of the seal great. Conceptual of greatly lead to the seal greatl	IDi	Cause Care a Care		41
Street S	- un	Santiago S-356 & S-357 DESIGN OF WALL MARKED WI	ACT's Alternate Design of Stander Walls	parer
Second Control of the Part Control of		E SECURIO DI PARA TERRATE	Wall manufactured that he would understand and adverted and advert to make of others we from lateral hands or the constraint.	1
Character State Character	F-9252		monapole and deflections occur is mid-beight of the unit.	1000
Commont gives Common agree Com	- STOPHER	-	The cross section is compact every the hought of the well print.	MOIIE
Name Property Name Property Name Property Name Na			The man-cross sections that he foreign experience.	87145
Name Property Name Property Name Property Name Na			Concentrated gravity leads are distributed over the well tensile	Ter ex
Control Programmer Control	Statestal	Properties	The cortical abuse the Ag at moth-builds that end encoded 0.06 fc	erres.
Control Cont	transition.		Application of the second seco	-
Common National Common Natio		Steel Rentfercement Plain WWF Grads 60	Quemetric Properties	_
Figure 19900 ps		Py were much \$5000 per	V Christiane 10	
Figure 19900 ps		PY relief 60000 W.T	Dreshog of Wall X	
Common		Comunicie duranty 150 pcf	Center of greats X 173 997	-
Common		E (Steel) 5000000 put	Wisk West 1 11 100 com in	-
Water personners Vic. Spirit Sp		li (Cincrato)]	Contri well Vis	
Married Processor State		n (modular ratio) 5.76	Walter reports Tree years Yes	
Proc. 25		Shear Parameters		-
Part		Phis Das	H (height with) 113 m	-
		Ve Villiep		-
		Phi*Vel 2454 kip	bet efe t	-
Activation 1992	Meiman	Well Reinforcement Construments	h (teefan thekess) 4 m	
Section Color Co	SATISFACTOR IN	rea min verti 0 for 1	s (week top) 2 m	_
Mathematic plants 11 to 11 to 11 to 12 to 12 to 13 to 14 to		100 min lice 0.003		-
### Action The process of the proc		Max Vortest spreng 11 is	difficient death men 1.84 or	
And Design Leefs (personne from met) Lateral Design Leefs (personne mode)		Max floruprial spacing 18 is	abjefforte deth beten) El m	\neg
Activate Description Des	median	THE RESERVE OF THE PERSON OF T	Chestic anticional of the	
Secretarial Content	- Annual	Arfel Design Laufy (natures from man)		
Secretarial Content		D (Quad hed) - Ww (Wall wought) 110.94 and	Dead Land (III, Set) Good	
Light Land Section Line Lond (1, 1/10) Line		21 (Noove Lond)] 180 par	Street Lind (Sf. htt) 0 gaf	
		1. (Lore Load) Opel	Live Lead (LL, lat) 0 par Wee Strak	\neg
Tributed States 1715 per Sertinged Cond (Wilds) 73.1 per Sertinged Cond (Wilds) 73.1 per Sertinged Cond (Wilds) 73.1 per Sertinged Cond (Wilds) 73.2 per		Li Live Reof Landin 10 auf	i.mc Reof Land (Liz hi) 0 psi Was See! Wall	-31
Tested Licking per (C)		Sufferhouse Loads 2.19 of	Wind Line (W1_fat) 73.53 out 1	3
Featured Looking per ACT		Howard total Title	Arch Area 0.20 w 2	
Fection Action per CC ACT to p 23				
Packed Printers on Read (b)	ertsecoi /	Asietty Applied Loude	Factored Laterally Applied Londs	1
Aliei Pressure on Section		Personal Loading per ACT ACT og 3-3	Pacternal Landing per ACT 107 eg. n.r.	
Control Cont		Pacakto Primines on Roll Wij 172 803	Success Oreasine on Wall War 120.56 graf	
Part		Axial Pressure on Section	(-
Assumption check 33 No.		Pati) 2.52 kip	Latent Pressure on Section	
Part		A CANADA TO THE PARTY OF THE PA	No. 2017 CO 2120	-1
Check ACT Check Check ACT Check AC		Amengelian check		
Check ACT Check Check ACT Check AC		1004 52 500 pm	Unfectored Latershy Applied Loads	_
Lateral Personners in Mend (Personners in New York) SO 5175 ptf		Chert 40 (4914) OX	Landownk Resources Well-We 75.54 pt	
Comparison of Section			Lagrad Service on Earlier	-1
Atlai Pressure an Section Pill 1.73 kg	(factiten)	Artify Applied Lords	Les W.D. 47 [174 - 1, 48] OM	-1
Action Personner on Section Personner on Section Personner on Section Personner of Section Personner o		Unfactored Pressura on Reaf aWy 300 6375 ptf	the Wig. 1719 4 - (-7) GORGE	_
Taiwed Looking got AC		Artel Proper on Section		
Printed Looking per ACT		PB 1,73 kg		
Finite Coding pot AC ACT up 24				
Service Loader Service Loader Service Loader	rar_		Unfection	71 40
Particol		Vie well of the Second ACT of 34	Service Loads	
Check Mean ACT 11 5.5.1		Parvoil 115	Anal 1.D kg	
Mail 0.985 15pc	1	Check Short ACL (13.5.) CLK	Menson account of the	-
March Marc			Med 0 MS bines	-1
Control Cont			All ORTH Appen	
Control Cont			De 9.005 in	
Section Control Cont			Check deflection O.E.	4.1
According to the color According to the color	anable (apacts.	Heur	_
Separate		fg - (6*8*3912) - 64 m*4	Assumption shock	
Dispute metabols SOL 10.0 pt		M (0.9) (0.9.2	Spen Uty t.er	
Met		O (regress resolution) Sto. \$10 and	net Troute Strain 9 010 0 010	-
State O.S.		Mar 16 971 kg in	Check ACL [ESC.] Fation Private	_1
Trad Ast nergy 0.073 e^-7		Beta 11 0.8	1.455 (2.45)	
1.55 1.55	1	Truit Ast reg'd 9 073 6 2	ACI re (144)	
ACT BAX ACT BAX	1		Maj 2180 kg aj 0 005 kig B	
	1	la data		***
Company Comp				-1
				-
A SM 1 CC P P P P P P P P P	- It		1930 mar waryon - way 1,000 top 8 1,000 top 8	-
1	- 1	8, 0,119 m	As Add 1 cock 0 and 2 an	-
1	1	Ass 0.23 m 2	Addennal need reg 4 0 of at 2 0 of at 2	1
Check Solids 190 1	1		Add but the 1	1
f_presignment intended predifferencement	ŀ		97/100/d 1 0	3
The part	1		ur spacing of 18 0	-
Fig. (International Particle Perificacionscol) Q 0227 Also Al + 641 Q 27 m ⁻² Q 20 m ⁻²		/www.(miss tumperstand.muttercommit) 0.0014	As widt's 0.000 km-st 0.000 km-st	4
	r	Face (minimum laterale reinforcement) 0.0027	MI An Areal College	-
Partial (dealer count into provided) 0.0000 Check 3No > No.	ŀ			4
Chook 2340 > 34u	Ē	For a (irini resolvencement ratio buttom) 0,0053		
** slowed \$1375. 9 00%		For a (irial run Responses ratio bustons) 0,0053	OV.	4
	ŀ	For a (irial run Responses ratio bustons) 0,0053	OV.	7





REINFORCEMENT AT OPENINGS

Leading		Material Pa	porties
Pu (factorized lead from reef)	0.47 kW	45 (effective depth bestewn)	1.44 0
Ww (weight of panel per sq ft)	0.05 kgf	a (block of street)	0.15(6) pm
			2 At " By (0 13 " FE '6)

Oposing	Hostumal Location	Versical Location	i; length of aparing	If height above garange	(-) Weight of Opening (LDS)	Per rotal fission and panel lend	Ww. total Discovered lead	Atu (nu+1,/2)/3
Window !	1.92 ft	3,990	20211	2720	\$6.19	0.14 kW	44100	
Window 2	8.42.0	1,970	2.02.0	27111	86.19		0.61.534	0.21 bp-0
Weston 1	1498	5.990	2.02.0	2740		0.14.49	0 61 MT	0.21 Vp-ft
Wandern 4	2t.4f fr				16.19	0.14 Fil.	0.61 M	0.21 kip.ft
Vont 1		599 ft	24211	274.0	25.19	0.14 kif	0 61 kif	02110-0
	2.00 (1	10	111	7.411.0	50.17	OMEN	DESME	9 57 kp-5
Vot 2	21.92 0	12	10	7 58 11	50.17	0 15 5 7	OASSIE	0.07144-0

Opering Window I	46	As reg'd	Day sign	any roard.	4Mn - 6MN(db - 6/2)	Check
	0.9	0.002 m 2	No.1	1	15.51 km-ft	OK
Window 2	0.9	0.002 m 2	No.3		15 51 kip.ft	OK
Window 3	0.9	0 602 m 1	No J	1	15.51 kip.ft	
Wandow 4	0.9	0.002 m'2	No.1	-		OK.
Vent 1	0.0	0 5-12			15,51 6 9-0	0.8
Vent 2	0.9		No 1	- 0	0.15-8	OX
	0.7	9 m 2	No.1	0	0100	O.K.

CONNECTIONS

				Fu	Resistance Value		
	Base Anchora		Laterat	Bare	Overturning.	I usamera	
Quantity	Maximum	Maximum	Steer	Moment +	Moment.	Money o	Mambal
in Sheet	R - Detance	L. Distance	Ma	No-9	No. 5	No. 9	The state of
- 6	290	290	73 254	201.89	201.89	77.57	72.57

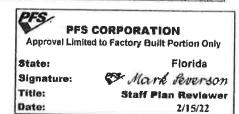
Total Tension		A1	Sase A	ochors		
21.646	Dot.	Fension (kip)	Shee	L - Dat	Moreant a	T Monard
Items Anchor I	14.00	364	12.21	290 in	0.205 kg*8	87.701 km*f
Base Asshor J	\$7.66	3.64	12.21	217 in	4.697 kip*ft	58.765 kip*ff
Hase Anchor 1	122 in	3.64	1221	182 in	15.573 km*0	14 636 Lip*d
Stess Archor 4	182 m	3.04	12.21	1,22 in	34.656 kip*fl	15 577 50010
Best Ausber 3	237 in	364	-12.21	67 m	38.768 log*ft	4.697 Up*II
Base Anchor 6	200 in	3.64	1291	14 0	87.991 kg*fl	9 303 No.U

		Wall Competions							
	Quantity of Anchors	of each Anchor	Load from Adjoining Well	re of well to	Adjoining Wall	Cital prochesy	L - Dist	Allowable Force	Overturning Morners. Resistance (No. 5)
Wall Connection 1	- 2	1,531	5 990	41.98%	WI	- 0	304 000		Up Len Low Highs
Wall Commection 2	2	1,531	6 110	41.98%	WI	304	0000	3062	77571 0000

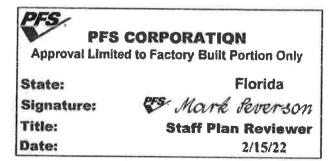
- 10		-	Avan Scien						
1	Gengo Force (b)	Corrections of Ba Capacity (b)	Reserve	Geargn (PLF)	Wait Shear Capacity Resistance (PLF) 19580	check	Required Shear Capacity (b) per Base Connector		Reserve
	2301	73254	70687	60	1958G	OK	431	(70607)	OK

RIGIDITY

		CALCUID	TED VALUES	96%	Feat	16.17244014	
	Per	Length	Height	Fored Top?	Useable?	Stiffness (k)	Defection
	Lebel	(inches)	(inches)	(YAN)	[Y/AC]	(1000 No / W)	(in / 1000 kip)
Window I	Entire Well	304	115	Y	Y	16 821	0.059
MUNICON I	-	304	1024	Y 1	Y	197.842	0,005
	A	23.04	10.24	7	Y	14 073	0071
		256.72	10.24	4	Υ.	167.047	0,006
Yandow 2	0'	304	10.24	Y	Υ	197.542	0 005
1	C	101.04	10.24		Y	65.557	0.015
	0	170.72	10.24	Y	Y	116 227	0,009
implow 3	C.	304	10.24	Y	Y	197 842	0.005
	6	178.8	10.24	Y	Y	116 279	0 009
		100.96	10.24	Y	4	65 505	0015
indirec 4	D'	304	10.24	Y	¥	197.842	0 005
	G	255.92	10.24	Y	V	187,177	0.006
	H	22.84	10:24	Y	Y	13,936	0072
Veni i	- 6	304	12.04	Y	7	168.240	0,006
		29.16	12.04	Y	9	15.278	0.005
	- 1	262.84	1204	Y	Y	145 435	0.007
Veni Z	p.	204	12.04	Y	Y	168 240	0,000
	- 6	263.04	12.04	9	Ŷ.	145 546	0 007
	M	20.90	1204	Y	Ÿ	15 102	0.000

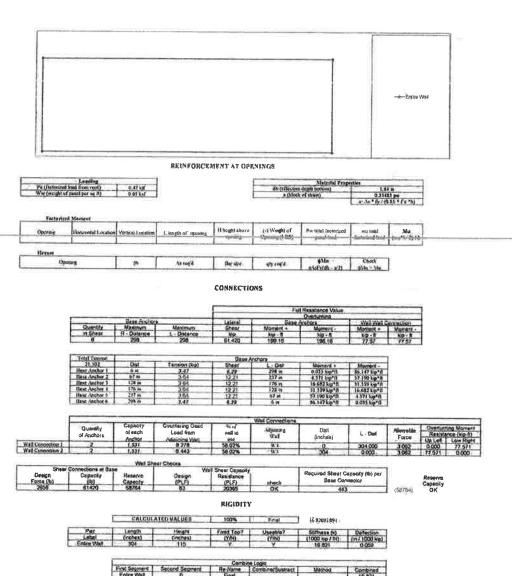


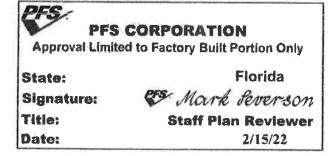
			Come	rw Lego		
A	First Segment	Second Segment	Ra-Name	Cambine/Scot/ett	Method	Combined
Window i	Entire Was	- 4	Ka		Defection	0.054
	A	0	Alt		Shiftees	181,120
	A's	An .	AD		Defection	0.000
Nisidow 2	Ab	- 6	- 82		Cefection	0.055
	C	0	CO		Saffness	181 764
	O'a	CO	O'b		Collection	0.050
Nindow 3	0.0		Ca EF		Defection	0.055
	E	E.	EF		Stiffness	161.764
	C'a	EF.	Cb		Deflection	0.061
Vindov 4	Cb	O.	- Qn		Onfrection	0.056
	0		GH		Stiffrens	181.113
	Dia	GH	Ob		Defection	0.061
Vept 1	05	6,	E%		Deflectors	0.061 0.055
	1		u		St/finess	160 713
	E3 .	- 4	150		Deflection	2,052
Vest 2	Eb .		Fa		Defection	0.056
	- J.	- M	LM	1	Sifrata	160 708
	Fø	LM	Final		Defection	0.062



m	Santiago S-356 & S-357 DESIGN OF WALL MARK		ACI's Alternate Design of Stender Walls
	DESIGN OF WALL MARK	ED W2	franchise for the state of
			WAR passed shall be samply supported, aviable leaded, and subject to yet of alone on few lates to be
Nutes		1	memoral and deflections occur at mil-beight of the wall. The trons seems is constant over the beight of the wall panel.
		Į.	The wall creat account shall be toward controlled
		1	The self-cross sections shall be terrated controlled. Phi ¹ Ma > Mer.
-	- The state of the		Concentrated gravey lands are distributed over the wall length. The vertical stees Put/Ag 21 med-heighs shall not exceed 0.06° fc
tierbi i	reparties		The vertical stress Pu/Ag at mid-height shall not exceed 0.06*fc
	Sicel Reinferconcet Plan W	000 pri WY Grade to	Generatic Properties
	Ty was much 80	1000 pel	
	Pyrishar 60	000 pcf	Y Corridante 112
	Lightweight* Concrete Society)	Se	
	K (Sted) 299	50 pcl O K.	Content of years 179 000
	E (Constrain) 129	0000 pri #7 #3 /	Wall Weight: 12(350on p.
	6 (modular ratio)	6.76	Comret water 1 co
_			Wall then supports 2 med parelled VCs
	Shear Parameters	0.85	top throats of sporing as note: (I (thought of walt): 115 or
	Ve L		Th (kingh of well) 25 313 ft
	Phillie 26	121 kip 10211 2.1 4 1) 2.1 4 154 kip 10211 1	Annibus militie performed as Chaptery state
Elimino.			b (section width) 12 in
Catalan ,	Well Keinforcement Regularments		b (needloo thickness) 4 is
		6013 (0111)	cb (cover tog) 1 m
	Max Vertical specine	002 H2 H2 H	rd (around min. Garage) # 317 m.
		it in leaves	ds (effective depth top) 1.84 is
Hard.			of (affective depth luttorn) 1 B4 er
ding	VIOLET TO		Cotto COCumitée Server 6016
	Arial Design Loads (pressure from re D (Deal test) - We (Wax neight) 110	et)	Lateral Unsign Loads (pressure on wall) Doed Load (PA, kr) 0 gsf
- 1		O pel	Come (and (and and))
- 1	L (Line Load) 0	pal	Seow Load (51-41) 0 gal
- 1	1# (Live Roof Load)	pef [N	Live Lond (Lf. ht) 0 puf Whe Meth r; Read Lond (Lf. ht) 0 puf Wee Seel W.C.2
1	W (Wed Local) 1,99	opu	
:5	21	9 psf Ear	West Cane (W., 20.) 73-34-pef 1940/95 10 thquake Lood (H.f. lat) 1 3 pef Mesh Ares 0.20 m 2
-			
end As	felly Applied Loads		But att to be to be to
ł	Factored Leading per ACI ACI Factored Pressure on ReaC Wy 473	og 9.3	[Factored Laterally Applied Loads [Factored Loading per ACI] act of the
	771 A71	1203	Financial Personal Visit New 120 Ac put
E	Asial Pressure on Section		
1.		119	Latern Pressure un Section
	The state of the s		Law - W*(I, W/(I'4 + I, 4)) 0 kW
1	Assumption rheck PW-	92 pm	the W*(0.74/10'4 - (.40) 0.7248
	0.00176) jed	Unfactored Laterally Applied Lauda
	Omit Not 1182 H	×.	Souldard Protect at Walnut 25 54 ptf
riand A	Mally Applied Loads		Lateral December Co. Co.
T	Lifettored Prosume on Reef uWr 100 60	175 pdf	Lateral Pressure on Section Law W(L-4/11-4-L-4) OAF
-	AGE III	175 pa	10m - W*(L*4/11'4 - L'4) 00f 14
-	Atlal Persons on Section		
	PH 133	l kip	
	Vactored Loading per ACII ACI o	g 9.1	Deflections
100	Via wall*(Hir-26h) (2) 0		Service Louds
- 1	Check Show ACT 11, 8.5.1 (2)		[Asia] 1.72 Gp
-	Check Show ACT 11, 5, 5, 1] (3)	8	Lateral 0 127 Mirrord screece defluction 0.77 in 2 850 kpc or 0.850 kpc or 0.850 kpc or
			Allowed service deflection 0.77 in Max 0.560 kpc w
			430 V-607 EP-18
			Del 2 903 in
ble Cap	nacky		
L	ig (6°5°3y12) 64 m	a -	Hener
	14 (0°5) 48 a	71	Assumption therk
-	Y1 63 2		South House the
	9 (nepture modular) 330 33 Nec 16 971	O pol	
	Mer 16,971 Bata 1 03	log-us	Atos 1.453 kip-il
	Total Ant por'd 0.077		
	0 5 83616	2648	ACI eq. (14-6)
-	kd 0.542	in .	Mu] 2,110 kip-ft 2,000 kip-ft
	10 292		AC193.1
	5 9.00		h 0.9 5.9
		2	Thin with * (AAP)(dd - 4/2) 2.020 km-6 2.020 km ff
	6 0.3348 6 0.419	in .	DM - Mpox - pM
	Ase 0.23 e	1	As Add't soy'd 0.01 m'2 0.00 m'2
-	lerdefection 3.61 in	7.4.	Additional read road 0.01 m ⁻² 0.00 m ⁻²
1	be 55.72)	17	AAII her ske 3 3 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	(,(maximum tenulu reinfercement) u pin		(a. Naccod (d. 18 d.
6.	(maximum tensils rentiercement) 0 i) in my (max. temperature rentiercement) 0,001	1	Na midet 0,070 km-ft 0,000 km-ft
1	me (interamente teorale reinforcement) 0.002		
	na (Wal reinforcement yatio bestern) 0 001		AM As As add 0 27 st 2 0.20 is 2
	middle (reinflectament ratio provided) 0 009		Mn - 61451cdb - 4/2) 2,543 kip-0 2.016 kip-0
L.P.	2.00		
LE			Check thin > Ma
L.P.			Check 9\lambda \times \text{Np} \tag{O} \times \text{O} \text{N}.

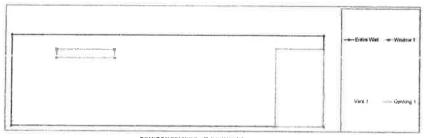






ith	Santiago S-356	& S-357	ACT Alternate Design of Steinfer Walte
	DESIGN OF WAL	L MARKED W3	I was the second of the second
Nates			when the control of t
			The wall cross sections shall be intended covereded.
			Philips - Sec Consorbitish greety deals are destructed over the useff lought the ventual error for the side philips is all not exceed 0 to 4 for
Saterial Properties			Central privity knots are distributed over the used length The territories are feel and feel feel feel feel feel feel feel fee
MARCIAN L'OPERIES	re	1000	The state of the s
	Your Reinforcement	Nose psi Plan WWF Grade 10	Gunnatric Properties
	Fy were mesh	80000 and	X Corydanie UX
	Lightweight?	60000 psr	Y Chardense 1 Direction of West Y
	Concrete density	190 mf	Costa of gastry N 124 000
	Concrete density E (Steel)	150 pcf 29000000 pm	Center of graves Y 87 400
	F. (Contrete) n (modular ratio)	4290000 psi	Was Weight Shirt Girls Su
	m (modular ratio)	5.75	Contral west? Ver
	Shear Perameters		Well that supports 2 med panels 1 No. They though ad supports a media O
	Phis	0.85	my things of specing in well 0 it is a second of the in the interest of the in
	Vel	3.123 km	[h (cogh of war)] 10.917 ft
	Phi ² Ve	2434 kip	Actives all to perform the performance Towners the
down Wall Reinforcemen	d Gentlement		b (section miles) 12 in b (section theliness) 4 in
The second	ros min.vas	9.0012	
	Fine min hay	0 002	et (cover high) = ni Act easy
	Max Votical spagma	II is	ref (manned reset of processes) at \$10 in
Ma	ax like inortal spacing	il n	di (effective depth top) 1.84 in
One			to (citietiene depth betterm) 1 54 m
	alel Design Loads /com	are from each	
D (Oosd heat)	Valet Design Loads (press Wir (Wall weight)	110.99 per	
		rate per	Dead Lead (Uf., kt) 0 psf 0 west spint No. Show Lead (St. kt) 0 psf
-	l, (Live Land)	0 346	Live Load (U.J. lat) D and
	W (Wind Load)	Jo puf	Low Roof Level (Lt.z.br) 0 ml
E	(Verthquake Load)	1396 ptf 2 19 ptf	Wed Load (W. lat) 23.54 pcf Spaing 4 st
			Earthquaks Lond (El. lat) 1 ft pef Nesh Arca 0.20 or 2
red Axially Applied Load			
Factor	of Landau are Afril	141-7-	Festured Laterally Applied Loads
Factorod P	of Londing per ACT vexaura on Rouf We	AC(eq. 9.3 172 805	Particul Linday per ACI ACI se se se
G	The same of the sa	372.195	Factored Loading per ACT ACT 24 No. Factored Loading Per ACT ACT 24 No. Factored Loading ACT 24 No. Factored Loading ACT 25 No. Factored Loading ACT ACT 25 No. Factored Loading ACT ACT 25 No. Factored Loading ACT
	Axial Pressure on S	ection	1
	Pall	21/10	Lateral Persuage on Section
1			1,00 - 10°(1, '4 / 1,' 4 - 11' 4)
	Assumption the	Ok .	the wighterine trap 0 00 kgr
	0.06*/c	30 208 pm	Untrectored Laterally Applied Louis
	Check ACULE #24	OK.	Landermont Mantaum are Wigd affen . 75 34 per
THE COURT COURT	2007		
tared Axially Applied Los Unfactored Pres	ols	TANTAN T	Lateral Pressure on Section Les : WAL-4 - (1/4) 5 03 24
T. Tomaconaco, Con-	See on stood days	100.6375 psī	The WALL 4 17.4 - 17.4 0.09 FE.
	Asial Pressure on Se	ction	
	70)	162109	
T Faces	diament will	APPLICATE TO SECOND	(De Bécsione
Was	M.D*(HA-2db)) 1	ACI oq. 9-1 0.11	Service Londs
	Pho*1/27	133	Asiai 62 kg Lateral 0,02 kg
Churk S	Sear ACT (1.5.5.1)	0.6	Lateral 0,02 kg
			Alternal service deflection 0.64 in
			Mul 2.730 kpc m M 2.766 kpc w
			Di Olion
			Check deflection O.X.
de Capacity	T. Carriera		Desure
	le (b*h*3)/12	61 m ⁻¹	Assumption chack
	An (h²h) Vi b/2	48 in 12	Span Hou
91	(rivetura modules)	530,330 _{0m}	ned Tennile Strain 0 000 0 000
	Mo	16-971 kg-m	Check ACI 14823] Teams I from
	licis 1	9.1	Most 0 830 kp-fi
	Trial (Ot regid	0.073 w 2	ACIes (JEA)
	14	8.836162645 0.532 m	ACI eq. (144) Mel 1,000 kg-8 0,040 kg-3
	Lu	192 m ¹⁴	The state of the s
	4	0.003	ACTORI
2	4	0.005	B 69 09
		0,714%3 pei	134 w min 1 - d-147 y (dit - m²2) 2 020 tig-ft 2 020 kig-ft
		0 419 is	13M Mijore 6M 0.000 Mg-H 0.000 Mg-H 0.000 Mg-H As 6M1 copd 0.00 m ² 0.00 m ²
	- No	0.23 612	A4 Add rood 0.00 m ²
	feedeflectioni	1.61 ans	\(\frac{\text{Additional rend up d \text{ \ 0.00 in 2}}{\text{Additional rend up d \text{ \ 0.00 in 2}}\) \(\frac{0.00 in 2}{\text{ \ 0.00 in 2}}\) \(\frac{0.00 in 2}{\text{ \ 0.00 in 2}}\)
	fordefloction (c)		4171074 0 0
	de de	54 90 m*4	12.44
referense south	delta delta la remiserement)	130 m 4 0.0166	or species of 6 6
Fragitman temperature	defta defta de reinferecement) o reinferecement)	0.0014	or specing of 0 0 0 As soft 0 0000 kp. ft 0 0000 kp. n
Face (Itrali: trimperation Face (Itrimessum tomas	della della de remiserementi o rentiocementi lo rentiocementi	0.0014 0.0027	or specing of 0 0 As odd 1 0.000 kp. ft 0.000 kp. n
Face (minimum tomal face (minimum tomal face (trial real forces)	le della le remfere operati o remfere operati le remfere operati o remfere operati o remfere operati oni ratio bottomi	0.0014 0.0027 0.0053	or specing of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Face (Introduced to the face)	le della le remfere operati o remfere operati le remfere operati o remfere operati o remfere operati oni ratio bottomi	0.0014 0.0027	Fr Specific Fr Fr Fr Fr Fr Fr Fr F
Face (Inter-second terral Face (Inter-second terral Face (Intel road-forcement	le della le remfere operati o remfere operati le remfere operati o remfere operati o remfere operati oni ratio bottomi	0.0014 0.0027 0.0053	or specing of 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0





REINFORCEMENT AT OPENINGS

Loading	and the second
Put (Testerared load from roof)	0.4733
Ww (ovent of sand per of it)	0.05 kal

Meterial Fra	perties
dis (effective depth increase)	Lain
a (block of strain)	0.33483 prá
	a As " fy ((0.85 " Fe %)

Opening	Horicontal Lecation	Vertical Location	(, length of spaning	Id buight above	(-) Would of	I'w total Acimized	sen total	Ma
Window I	137.8	5.99 n	2024	1320	6969	0.07 km	0.54W	D. H. Noo-D
Upst I	4920	10	10	6.0	50.00	031ff	0.7714	0.05 kg-ft
Opving I	9.21 ()	0.0	1 63 11	10154	575.40	0 06 UF	O SX AN	0.1246-0

Opening	ψb	As roy'd	(tar size	qity req'd.	ANIM . arzh	Alfa a Ma
William I	7.9	0.001 (**2	No.1	1	7.01 kip (1	O.K.
Veni I	0.9	0 072	No.3	H	g Lan	OK
Opining f	0.9	0 002 n°2	No.1	-	5 01 kin ft	OX

CONNECTIONS

				A			
Date Anchora			Latural	Gana	Anchors	I Wall-Wast C	Acortion
Quantity	Maximum	Majorium	Shear	Moment +	Mornard -	Morrant +	Moment
n Shear	R - Orstance	L - Distance	kip	kip - ft	No.1	kp · ft	260 · ft
3	99	100	38 627	44.30	48 32	40.50	68.40

Total Temper			Basq Ar	chors		
10.921	Dot:	Tansian (%p)	Stear	t, - Dist	Moment +	Moment -
Olsse Archor I	31 91	264	12.21	100 :=	2.945 kip*ft	10 342 km*ft
Hate Anchow 2	51 H	3.64	12.21	70 m	11.401 Vig*ft	10.342 kp*ft 14.667 kp*ft
Hose Jacher 1	35 FI	364	1221	12 is	\$0.03E kig*ff	1.107 kg*ff

		Was Connections										
	Quantity of Anchors	of each Accion	Countering Deep Load from Amoleine West	% of visit to use	Adjoining Wall	Dist (inches)	L - Qiat	-Allowable Force	Greaturning Womers Resistance (kip ft) United Low Bodd			
Well Connection 1	2	2,702	17.133	50 00%	W1	101	128,000	5 406	1302 57 664			
Wait Commochine 2	2	2.702	18819	50 00%	W2	107	24.000	5 406	44204 (0.842			

	And the second second second	Wall She	er Checks			
	Convections at Ba	14	The state of the s	Wall Shear Caseoly		I am a series and a series
Perign Force (b)	Capacity (b)	Reserva	(PLF)	Resistance (PLF)	check	Required Shiper Capacity (Ib) per Base Connector
2015	36627	33612	243	16643	OK	979

73.0	m. t-	-

		CALCULA	TED VALUES	824	Frei	6.105924329	
	Piec	Langth	Height	Fened Top?	Useable?	Goffnesa (k)	Defection
	Cabel	(inches)	(inches)	(7/89)	(V/V)	(1000 Ng FIN)	[et / 1000 kip)
	Eritro VVat	13!	96	- Y	Y	7.710	0 130
Window t	K	131	8.76	Y	Y	105.335	0 0009
	Λ.	18.64	8 26	Y	Y	14 252	
		87.92	6.76	Y 1	ν.	70 580	0070
Vont 1	B'	131	12	Y	Y	72575	Q 014
	C	83 04	12	Y	Υ.	45 614	0.072
	D	35.96	12	Y	Y	19,753	0.052
Opening (C.	131	87.2	9	Y	9,392	
	E	110.68	82.2	Y	Y	7.600	0.132
	F	-0.04	31	Y	N	0.000	0.106 0.132 0.000

			Comb	ne Logis		
	First Segment	Second Segment	Re-Name	Combine/Subtract	Method	Combined
Vindow I	Entire Wat	K	As		Defection	0.120
	A	8	AB		Suffriesa	84.832
	Ale	A0	Α'n		Onfection	0.132
Vent t	Ab	0.	D'a		Deflection	0.118
	C	. 0	CO		Shiftness	55.077
	8'a	CO	65		Deflection	0.133
pering !	86	C.	Cle		Defection	0.027
		F	EF		Stifferen	7.600
	Ca	EF	Final		Defection	0.150



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

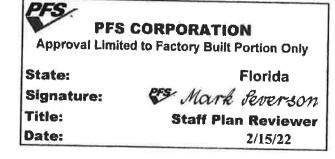
Mark Severson

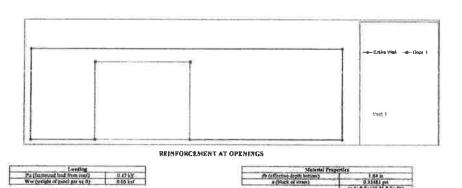
Title:

Staff Plan Reviewer

Date:

10: Santiago S	-356 & S-357 VALL MARKED W.			ACT's Observate Design of Strader	Web	
Julian de 1	VALL MARKED 194		Water Colors	Attamptions from the methodel apparted, anish leading and subject to east-of-	ing/	
Netra			was prost scar to simply to	memoris and deflections come it with him	plane seaform tatoral loadin	d April marianne
				The unit event action occur at making the cross section is constant over the health	of the wal penel.	
		- T		The wall cross sections shall be tonson a	correlat	
				Phylids — Mor Concentrated gravity hads are distributed over the vertical stress Pu/Ag at mid-height shell no	r the sail keets	- 6
sicrial Properties				The vertical stress Put-lig at mid-height shall no	4 a second 0.06*Fc	7
Sheel Steam Foregonien	Flain WWF Cleade 80			Geometrie F		
Ty wre min	\$0000 mi	_		Partition of the	X Cortid	Auto 8
Pyrche	13g 60000 pcT				Y Corne	inale 7
Lightweight Conveyed density	No.	os.			Ocean of gree	NY YEAR
E (Nice)	27939690 tris				Conter of gravi	by X 29 bon by Y 81 799
E (Concent)	1290000 pui	MTXU.			Conter of grave Wall W. Contral v	1115 GO1 Da
n (modulie ratio	6.76				Contral v Waltibut supports I mod pa	nak? Yes
Shear Paramet	en .				kep though of opening on	melle tital
97ni 9	0.83	A(70323			leg though of spoons on 11 (height of s 1.h (length of s	nait) yo n
790*Vi		M2113116 11212			Analysis will be perform	(0917 n
	200119				b (section wi	des Ten-way slab des 12 m
train Wall Reinforcement Requirements					is Occasion this loss	ESO 1 10
rice min wert	0.0012	102.0132			el (turrer	wp) 2 m
Mex Vertical spacing	18.00	4CF/F1)			ob (cover bones)	terti (I. 119 in
Max Theurestal spacing	If a	Marie S			di (effective deptir	(to) LEI m
ing					- of Culfactive slepch been	actif t H4 in
Asial Desfan Loads (October Comments				Carrier (II, and for Sea Ecombicity - Axial L	end only
A that Design Loads (D (Deed head) Wes (Wall weight)	119.94 puf	100	erni Design Loads (preesure ar nd Load (IX, lus)		(s quil)	ord 1 in light No
5 (Snow Load)	110 pcf	So	res 1.04d (31, lett)	0 psf 0 psf		
Le (Live Roof Loos)	O psf 30 psf	E	ve f.ond (Lf., M1)	O pef	Wes	Wesh 1
W (Wind Load)	139.6 psf	Line Ro	of Load (1.1.4 lat) d Load (Wi. lat)	0 per 75.54 per	Weet	Steel Walt
E (Earthquike Louis)	2.19 pd	Earthque	ke Load (kl. lat)	1 8 pd	Mesh A	ing I in
					Mon A	Nu 0.20 at 2
mé Aslady Applied Loads				6.3		
Factored Leading per ACI Factored Pressure on Roof Wi	ACT eq. 9-5 172 105			(Factored Late	rally Applied Lords	W
A security Lateral on Wood Asi	111 103	→ !			Pacticod Loading per A	C1 SC7 sq 94
Asial Presture	on Section					101 101 10 PM
Patt	2.39 kp				Latent Pressy	re on Session
Assessed	Title .				Los - WYCL 4/1/4-1P The - WYD 4/1P4-1	45 0.03 52
Assumption PW/Ag 0 06*Fc	49.792 pci	-		24/5/2-53	The last well-red server	0 000 10
0.06*174	300 put.			Unfestured La	strasily Applied Londs	
Get AC (1828	O.K				Lifecus franch ye Wylyn	Fr) 75.34 pdf
ared Axially Applied Loads					Lateral Protect	m an Series
L'afactared Princice on Reol'uWr	100 6175 psf				140 " W"(L"4 L"4 - H"	411 0 00 14
Atlat Pressure	The state of the s	=			the / wept avite of	U GREFA.
PB	1.6 Mg	-				
	14.00	_				
T Research to the	700			Deflextion		
Factored Loading per ACH Vir - wells*(The 36) / 2	AC1 eq. 4.3	-		Heathing	Nenter I	and.
196/3/6/20	1.13				AN	
Check Shear ACT [13.5.1]	OK				Later	MI COOLAN
					Allowed service dathers	m 064 m
						M 2.738 kip-m
						a 9010m
e Capacity			1740		Check deflects	M CK
br concivisi	6fm ²	-	Herme			
V(= k/2	43 m 2			Asset	regition eleck	
(r (reports modelite)	530 330 psi			not Tennile Sirve	0010	I.w
Mor	16.771 kip-is	-		Chock ACI 14.82	Targen	9 010
Heta II	0.8	*		Min	0.820 km/l	
Trial Ast roofd	0.071 m ² 2			1		
ü	0.562 m	4		Me	1 eq. (14-6)	0.450 kip-fl
lu	2321114	-		F****		7 0.430 topin
- 5	0.001	7			C17.3.1	
	4 005	1		A CHARLES TO A CHARLES		0.9
	033483 psi			(Min Initial - SAMP) (et - 1/7)	2.020 kip-ft	2.000 kip-ri
AM	0.419 is 0.27 m ⁻¹ 2	-		DM -Mgos - gAl As AddT regel	0.000 kg-ft	0.000 kip-B
Sendeffection	36194	1		/Addressed retail roof d	3,00 m²2	0.00 p/2
le)	64.00 in 14	1		AGETOM 120	1 1	1
fa(maximoun textele reinforcement)	0.0164			or spacing of	- 0	0
foreg (min. temperature reinforcement)	0.0014	+			0.000 Lig-N	0.000 kip-ft
free (minimum tantife remforcement)	0.0027	1		As addf (
Fixed (tried reinforcement ratio bestern)	0.0031	1		Au · As · As add1		0.20 m'2
Paramatrianforcement ratio provided)	9,0098	1		Clin - AlsFy(db - W2)	2016 kg-A	2.016 km-0
		- C		Check 6Ms > Mu	ox.	0.K
				% allowed	50.60%	22 32%
				200700	120,99	44.3404





	Feeterin	ni Moment							
	Ормонуд	Dorountil Locatem	Versent Location	I, length of opening	II height above cockets	(-) Would of Our in (LOS)	Per total distorted accel land	say (ola) Farmined (oad	Mu (441, 2513
ł	Deer 1	2.24 H	- 6 #	1.14.6	3.150	110.93	0.05 146	0.33 kir	0.19 kp-fl
- 0	- Short	697.0	1.8	+ 0	6.0	10.00	0314	0.7714/	0.04 km 0

Pleasure	gii gii	As rescri	Dat year.	gity regist.	\$Mn	Check
Dear I	0.9	0.000 in 2	No.3	7.	691 VO-0	QV(n > May
Vent I	0.9	0 16/2	No.3	0	B-gx c	OK

CONNECTIONS

			Full Resistance Value							
1111-01					Qveturing					
State Anchora		Listacel	Base /	Snohers .	Wall-Wall Connection					
Quartery	Maximum	Medituri	Shear	Moment +	Moment -	Monwest +	Moment			
IA Shear	R - Distance	L - Defence	Nig.	No. P	ko-ft.	Mp.A	kip - ft			
3	119	110	35 627	50 08	43.70	49.56	60 48			

Total Tennos	Base Anchora								
10.921	Ont	Tension (No)	Shear	L - Diet	. Mement +	Morrent -			
Hese Anchor 1	21 se	3.64	12.21	119 in	1.124 kin/fil	31 376 kig*fi			
Hate Anchor 2	21.40	354	12.21	60 m	12.853 kip*ft	4.910 top*0			
Base Wicker 1	119 in	3.64	12.21	12 m	36.107 kin*ft	0.397 kip*ft			

{		Well Connections										
	Cruertidy of Anchora	Capacity of each Anchor	Countering Deed Load from Adoleses Well	wall to	Adjoining Walk	Chat (inches)	j Oint	Allovable Force	Overturning Moment Resistance (April) Up Left Low Rocki			
Well Connection 1	2	2,793	17,133	50 00%	Wi	3	128 000	5.406	1.352 57.664			
- Wall Connection 2	2	2.703	15 819	50 00%	WS	107	24,000	5.400	48 204 10 517			

Shear Conventions of Game			Wall Street Capacity			desired and a second second		
Design Force (lb)	Capacity	Reserve Capacity	(PUF)	Resistance (PLF)	check	(laquinul Shear Capacity (lb) per Bask Cornicion		Reserve
1640	36627	34987	136	9349	OK	547	(34907)	OK

RIGIDITY

		CALCULA	CHULAN CHE	46%	Eirot	3.512271174	
	Plet	Length	Height	Fixed Too?	Usestle?	Sulfrees (k)	Defection
	Label	(inches)	(inches)	(5/86)	(VAN)	(1000 kip / W)	(in / 1000 kie)
	Entire Wall	131	96	y	Y	7.716	0.130
Door I	A.	131	52.2	Y	y	9.392	0.106
	A	26.68	82.2	7	Y	0.529	1.889
	8	64.04	02.2	9	4	3 353	0.798
Vent 1		131	12	Y	Α	72 575	0014
	C	83,04	12	Y .	Ψ.	45 814	0.022
	0	35.96	.12	Y	Y.	19.263	0.052

	Combine Logic										
	First Sagmant	Second Segment	Re hains	CombinerSubwest	Meshed	Continue					
or I	Entire Well	N'	A'e		Defection	0.023					
		Ð	A3		Shifmens	3.882					
	An	AB	AD		Defection	0.281					
1 4	Ab	3.	ens.		Defection	0.267					
	C	0	CO		Stiffcens	65.077					
	B'a I	CD	Fire		Definction	5 282					



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

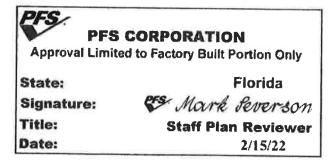
Mark Severson

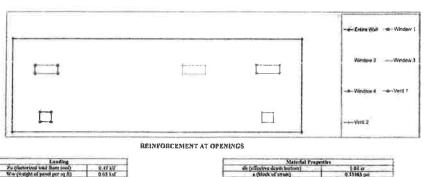
Title:

Staff Plan Reviewer

Date:

1197	Santiago S-356 & S-357	100000	Design of Streets Wells	
	DESIGN OF WALL MARKED	Assumptions	from this methodology	- MES
		Wall panel shall be simply supported, axially leaded, or	from this methodology; I subject to out-of-plane uniform lateral loading where navacuna	107
Nates		moneus and deflection	it occur at mail-beight of the wall and over the height of the wall panet	
		The wall criss spots	this whall the less soon constrution.	407
		76	*Ma > Mgr	407
		The vertical stress Parks as	s are distributed over the real length mid-hopphs shall not energed 0.05°Fc	- ACT
ESCURAL S.	ropentes fel 5000 no			_J*()
	Shool Resulteneous Plan WWY Crafe		Geometric Properties	
	ry wee meta; 800/Q pm		N Correlinate 22 Y Correlinate 260	-
	Py rekey 60000 per			-
	Contrate density 150 pcf	Ox.	Contex of grants X 171.907 Contex of grants Y 86.007 Wall Weight 1510.000 Counts nat? VA	7
	E (Steet) 29000000 mil		Confer of gravity Y 265 000 Walf Weight 12120 000 1	
	E (Constetu) 420000 mi n (modular ratio) 6.76	163931	Count nett VO	25
	n (modular ratio)) 6.76			
	Shear Parameters		iny fough alapseing or many 6 ft ft H. (height of small) 117 in Lin (laught of small) 55 hill in Alapse will be performed as One may it	-
	PN(1 0.65	etrests	Lh (larger of wall) 35 311 0	v -
	Ve 1.123 kip Plu*Vc 2.654 kip	######################################	Alayan will be performed on One-way to	
			h (sexton width) 12 m	
lamin)	Wall Reinforentunt Regulerments		h (section flockness) 4 so	
	roc min vert 0 0012 roa min ber 0 902	#31412	et (cover sigs) 2 v	
	Max Vertical spacing III in	20117 20117	Indianament and Research in 1900 in	
	Man Derivental specing 18 et	17141	dt (cffoelwa dapth top) 1.64 m	
			# (ciffeelwardopth top) 1.84 m dr (ciffeelwardopth beitser) 1.84 m Cr (% of (3) and for forms 3.006	_
ting	Atlal Dieler Lords frances &	1	Paccetratty - Axed Lead 1 is	-
- 1	Asial Design Lunds (pressure from roof) O (Ocad load) Wee (Wall weight) 110.94 asi	Lateral Design Loads (pressure on wall) (Soid Load (SS, lar) O pal	Is wall Spite Not	
	100 100			
ì	L (Loc Lond) 0 pul	Live Road (Li.f. ht) 0 puf Live Road (Li.f. ht) 0 puf	Wro Siesh	-
1	Le (Leu Roof Lond) 16 psf W (Ward Lond) 139.5 psf	Line Roof Lend (Lis lat) 0 pel	Wine Roc West	
- 1	E. (Cardiquako Load) 2.19 psf	West Lond (WL tet) 73.34 paf herstopako Lond (EL tat) 1.8 paf	hercog 4 m	
	A STATE OF THE STA	1.6 pg	Mesh Aca 0.20 it 2	_
red A	stally Applied Loads		(And the Control of t	
	Factored Leading per ACH ACT on 9-1	-	Factored Laterally Applied Loads	
- [Factored Leading per ACI ACI og 9-5 Factored Processes on Roof We 172 845	-	Factored Londing per ACT 120 pg to Foreign Personne on Wolfeline 120 fd par	
- 1	THE TAX AND ADDRESS OF THE PARTY OF THE PART	<u>=</u>	Serviced President Well Way 120 66 per	-
	Axial Frantier on Section Pull 2 52 kgs		Lateral Pressure on Section	
- 12	23204		The Writing of the state of the	\equiv
- 1	Assumption check Put/4 52 500 pos	T	(Ibe - Wegt 1 1994 - L'49) 0.12 kg	
- 1	Put/lg 52 560 gas 0.06*Fc 100 gas		Cofestored Laterally Applied Loads	7
- 1	9.06*Fc 700 pm DWFAC 1+82N CX		Columns Pennes or Values . 73,54 pm	
			T	
tored.	Asially Applied Loads Uniference Persons on Roof (We) 100.6375 par		Laboral Pressure on Section Lab - W ⁴ (L-9-/1194 - L-94) 0 ldf	-
	Unfectored Personne on Roof (We) 100.6375 pul		11w W (1/4/11/4- 1/4) 0 03 km	
E	Anial Premium an Section	1		
L	PD 123 kg			
1			Charles and the control of the contr	
-T	Pastered Leading per ACI ACI on 9-3		Deflection	
- [Va well*(0w-20b)/2} 0		Service Loads	
1	Ph/*Vu2 1.33		Asial 1.73 kg	-
4	Check Sheer ACI 11 3.3-1 U.S.		Abouted serving Addressing A 77 la	\neg
			Maa 0.865 kip in	
			M 9 574 Kip in De 9 505 m	
			Clock defloctor OX	\dashv
Me Ca	quelly	Deven		
-	(K - (p.u.)2) 61 m.e	Train.	Assumption check	-
-	At (6°0) (6 w 2 Yi - 6/2) 1		Span He Lw	\dashv
t	fi (regrate medulus) \$10,136 pur		Span He Lw Span Span He Span	7
	Moi 16,971 kip-it	-	Check ACI 14 8 2 31 Tenant Secure	
-	Deta 11 OA		Mus 1.483 kpp-ft	
- 1	Trial Autropy 0.073 m 2		ACI eq. (14-6)	
	10 8 8361672438 8d 0:532 m		Mu 2.130 kg/lt 0.500 kg/lt	
	Ler 192 w 1		AC1932	_
-	G 0.00)		h 09 09	\rightarrow
-	4 000	Dia	141 - AAUNGO - 473 3 020 km 0 2000 km 0	-
-	8 U.3348) psi		1355 Mgan - gM 0 100 kg-ft 0 000 kg-ft	
-	Asc 9 23 m ²		As A401 royd 401 m 2 603 m 2	
	fordefloction 1.61 m ² 4	1	Additional road road 0.91 in 2 0.00 m 2	-
-	fe 55.62 in 14		district 3 3	-
	r _i (maximum Hrisde esinfosponomi) 0.0166	-	or specing of 18 0	-
	(min temperature reinforcement) 0.0166		(to mid) 0.070 km/ft 0.000 km/ft	
-	face (institute tensils conferences) 0 0027			
			Att - As - At add1 0 27 m 2 0 20 m 2	-
E	funa (trial resultingement ratio beginne) 0.0033			
E	fua (trial reinflessement ratio bestimes) 0.0033 Dentine (ceinforcement ratio provided) 0.0000		4n - 6/16/y(db - 6/2) 2.541 km.n 2.016 km.tt	-
E	funa (trial resultingement ratio beginne) 0.0033		Check (Mar > Mu O K O K	





Luxding		
(Next front tool)	QATAM	dh (ci
of pained pur set (8)	0.65 kaf	

Opening	Denzontal Encation	Vertest Lucation	I large of opening	II buight above.	(=) Wroght oil	18 to total Incorpled	wu total	Mu feets that
Wedne I	1,92.0	1.99 ft	2020	2760	\$6.19	0.14 MF	0 61 100	0.21 kip-ft
Wasion 2	1470	5,090 (1	2.02.0	2748	85.19	0.14 500	0.01 kU	0.21 kg/s
Wanders 1	149.0	5.948	282.11	2310	18.19	0.14 MF	0.61 NM	021 kpd
Window 4	21,41,0	5.99 /1	2028	2.74ft	55.19	Ø.14 kif	0.51 13	0.21 kip ff
Vont I	2.03 (1	1.0	10	7.58 0	50.17	0.34 kV	0.33 Fit.	007 kip-ff
Vent 2	21.970	1.0	10	7.48.0	10.17	O IN SV	OSSIN	0.025-0

Oyetang.	фb	As (call)	But me	qry red'st:	\$\frac{4\frac{1}{2}}{2} = \frac{4\frac{1}{2}}{2}	Check able > Ma
Window I	9.9	9.992 m 2	No. 3	1	15.11 log-11	O.K.
Window 2	0.9	0 002 m 2	No.1		19.51 kip-ft	OX.
Window I	0.9	0.002 or 2	No. 1		13.51 kip-H	QX.
Window 4	0.9	0.002 is 2	No. 1		15.51 kip-0	O.K.
Vent (0.9	0 m 2	No. I	0	0 kp-0	OK.
Vent 2	0.9	0 m 2	No. 1	0	O kip-fi	O.K.

CONNECTIONS

			Full Resistance Value								
10.11	The second secon				Overturning	1					
	Base Archors		Base Acchora		Base Acchors			Base /	vochors	Wait-Wall Connection	
Quantity	Magmam	Magerum	Sheet	Mornert +	Marrent -	Morrard v.	Moment				
ns Shear	R - Distance	L - Distance	kip	NG-R	No-ft	199 · A	Mp - A				
6	200	290	73254	201.80	201.89	77.57	77.57				

Tetal Tennes	Case Androis									
21.846	Dist	Terreion (kip)	STARRE	L-Dat	Mamerit *	Moment -				
Usus Arsebor 1	14 in	3.64	12.21	290 (1	@ 205 kep*ff	47.991 kg*A				
faso Anchor 2	67 H	3.64	12.21	237 at	4.697 kip*()	51.763 kg*0				
Dave Anchor I	122 m	3.64	12.21	192 in	15.573 km*ft	11.636 bo*f				
Inio Anchor 4	182 m	364	1221	122 W	34.636 km*n	13.571 kg 'fl				
Isse Anchor 5	237 80	3.64	17.21	67 m	31.761 kg*ft	1 697 kig*ft				
lase Anchor 6	201 01	3.64	12.21	14 n	87 991 kg ft	0.305 kip*ft				

		Well Compactions								
	Quantity of Archors.	Capacity of each Accher	Countering Dead Load from Adjoining World	Nall to	Adjourne Wat	Dist (inches)	Les Chieph	Allejerateler Force	Resistance (kip.m) Up Left Low Rists	
Well Connection 1	2	1,521	5.601	41.22%	WW	0	304 000	3 062	0.000 77.5/1	
Wall Connection 2	2	1,531	5.999	41.22%	W7.	304	0000	3.052	77 571 0 000	

			Wall She	ar Checks				
		Connections at Ba		1	Wat Shear Capacity		Required Shear Capacity (tb) par	
	seigre ce (ds)	Curpacity	Reserve	(PLF)	Restance	check	Base Corvector	
1 2	6A7	73254	70667	80	1666	OK	200	170G

MIGIDITY

	CALCUL		TEO VALUES	96%	Froat] IE 1724-01-4		
	Pier	Length	Height	Fixed Top?	Usesbla?	Stiffness (k)	Defection	
	Letel	(iochea)	(inches)	DOM:	IYEO	(1000 kg / W)	(in / 1000 kip)	
	Entire Walt	304	115		Υ .	16,821	0.059	
Wandare I	A'	304	1024	Y	V	197,842	0.005	
1	A	23.04	10.24	Υ	¥	14.073	0.071	
	5	256.72	10 24	Υ	Y	167,047	0.008	
Window 2	B.	304	1024		Y	197 842	0.005	
	C	101.04	10.24	Y	Y	55.557	0.015	
	0	178.72	1024	Y	Y	116 227	0.009	
Window 1	C:	304	10.24	9	9	197.842	0.005	
	E	170.0	10.24	9	Y	116 279	0.009	
		100.96	1024	V	Y	63 505	0015	
Window 4	O'	304	10.24	9	Ŷ	197.842	9,005	
	0	256.92	10.24	9	Ÿ	167 177	0.004	
	H	22.84	10.24	Y	Y	13 936	0.072	
Vot 1	6	304	12.04	Y I	Y	168 240	0.006	
		29.16	1204	Y	Ý.	15.278	0.065	
	7	262.84	1204	Y Y	Y	145.435	9 007	
Vent Z	P	304	12.04	Y	Y	166 240	0000	
		263.04	1204	Y I	V	145 548	0.007	
	ù	28 96	1204	Y I	Ý	15.162	0.066	



State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

	-		Comb	ne Logic		
Worldow I	First Segment	Second Segment	Re-Name	Combine/Subtract	Method	Combined
N. COMISSION, E	Entire Wall	- A	AB		Deflection	0.084
	^		AB		Soffress	181,120
fundow 1	A.	AS	Ah		Oufection	0.060
T Median	Ab	8.	B'e		Defection	0.055
	C	0	CO		Salforall	181.764
findow 3	8a	CO	Ob		Defection	0.060
	80	C.	Ch		Defection	0.055
		- 1	EF.		Stiffman	181.784
Indove 4	C.S	CF.	Ch		Deflection	0.061
suitoté 4	0	0,	D'a		Ceffection	0.056
			OH.		Stream	181,113
Share i	0'0	GH	06		Defection	0.061
Veni i	0.6	£'	E'a		Deflection	9.055
	-		Q.		Stiffness	160 /13
E . A	Ex	<u>y</u>	Ew		Defection	0.052
Voni 2	6)	p'	FA.		Defection	0.056
	-	м.	LM		Stiffness	169.708
	Fa	LU	Final		Definctions	0.003



Approval Limited to Factory Built Portion Only

State:

Florida

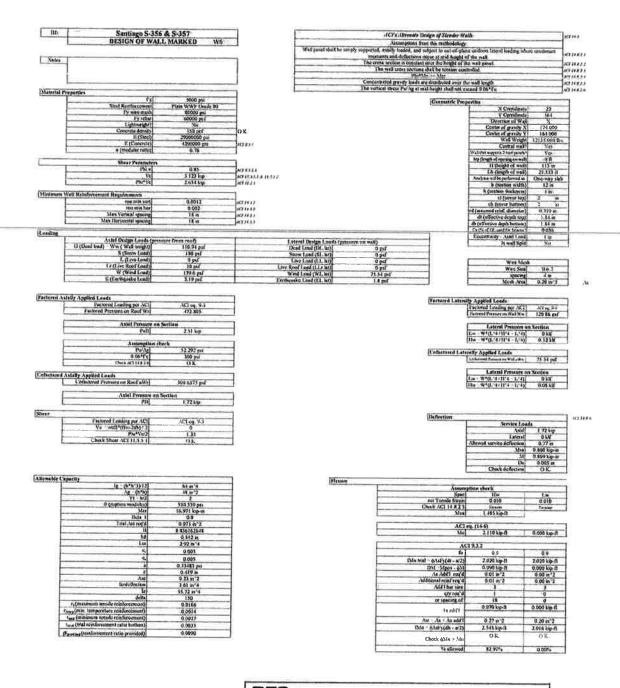
Signature:

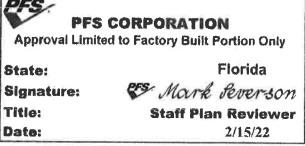
Mark Severson

Title:

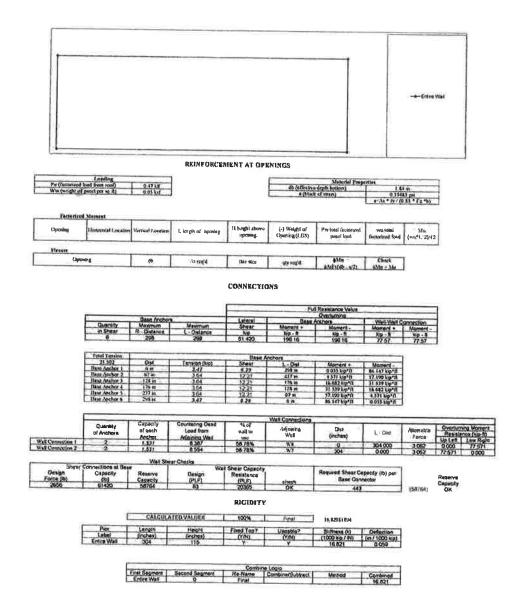
Staff Plan Reviewer

Date:





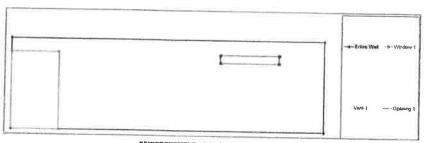
Page 20 of 27 Date: 02/08/2022





ttie Santingo S-3:	56 & S-357	_	ACT's Misconde Design of Stander Wala
DESIGN OF WA	LL MARKED W?	_}	Assumptions from this methodology: Well moved shall be accorde supported, wealth leaded, and subject to carted-place softings lateral leading subject maximum.
			mentunity and deficiency occur at and health of the well
Notes			monunity and deficiency occur at mid-hopfe of the self. The cross section is constant over the hopfe of the nell percol.
1		1	The well cross sections shall be tourist controlled.
L		_	Conscitated gravity leads are distributed every the wall length (ac) a
airriet Properties		-1	The vertical stress Pol Ag as mid-height shall and exceed 0.00° fc error
C.	5000 psi		Geometrie Properties
Stock Reinforcement Fy was much	Plate WWF Crade 80 80000 gui	-	S Consteads 578 V Consteads 118
Syrtho	60000 pcf	-	Y Cornégate 238 Uniceron of Wall: V
Py reber Lightneight! Concrete Sonith	15		Centur of gravity X 128 000
E (Steed)	110 pcf 29000000 psi	O.K.	Control of gravity Y 211 992
E (Concrete)	4290000 gti	1011	Wat Works 1650 000 the Court self? Yes
n (modular ratio)	6.76		(Val by inspects 2 res (needs) No.
Shear Parameter			by Greght of spring on well 0 ft Fi (height of well) 95 in
PMV	0.85	KT 8333	Lit (longh of wall) 10,917 ft
Ve	3.323 km	MANUAL WALLS	Control william and prompt at 1 th control with
L. Parvel	2.654 km	Transis	h (messan metal) 12 in
simum Wall Reinforcement Requirements	and the second	7	h (section thickness) i et
for min yers	0.0012	(0.14.17	all (cover horton) 4 4s
Man Vertical apacing	0 002 (A m	1031411	of (neuros rind, diameter) 6 3/9 in
Max Thereonel spacing	15.0	167 (4.7.5 167 (4.7.5	di (effectiva depth may) 1,84 m
	4.0		Colfs of 6A year for Females D Gib
ding			I Fromwitte and food
Axlad Design Luade (p. 1) (Design Luade (p. 1) (Design) Ww (Wall weight)	110.94 put		treal Design Londs (pressure on nell) is nell Spfe! No
S (Shew Load))	190 Act	9	tow Load (St. hr)
t. (Live Feed) Lr (Live Roof Lead)	0 paf		rec (out (11, br)) G and Was Moth
W (Wind Load)	10 pcf 139 6 pcf	1,0vg R	of times (1.1.r. lat) 0 pm (Wina Street 1415.7
K (Kerbquelor Loud)	2.19 pc	Harrison	nd Lood (Wf. hr) 75.54 pcf pices 4 in heat ord (EL. hr) 1 Epsi Mesh Ayon 0.20 m 2
the state of the s	3225	THE STATE OF THE S	Ment del Anna
ared Asially Applied Loads		÷	
Factored Loadies our ACI	ACL on 0.1	-	Festered Laterally Applied Louds
Fastered Leading per ACI Fastered Pressure on Roof Wei	ACT og (4.3 472.803	1	Pathyred Londing per ACT oCT og 8 s' Fathered Propose on Wed We 120 8th per
T 7074	and the latest		
Astal Pressure Pull	2.41 kig	-	Lateral Pressure on Section
1901	2/0 kg		1.6. W(0, 4) ((4 + 1)(4) 0.00 Mr 1.6. W(1)(4 + 1)(4 - 1)(4 0.00 Mr
Assumption	rheck		
Assumption Pul/tg 9.061f4	30.201 par	-	Unfactored Laterally Applied Loads
Check ACT 11 # 2 to	300 ps	-	Columned Networks Wildows 75 St gold
		1	Latent Pressure on Section
tored Asiatly Applied Loads Unfactored Pressure on Reof s/We	300.6175 psf		f.or W*(J.*4/),*4 - 18*45
Little and a second con second service	socaris gu-	J	ere malliande red gwen.
Anial Pressure of	n Section	1	
Pn]	1.623/p	J	
		1	(Neffection '
Factored Loading per ACT	ACI og #-1 0.11		Service Louds
Vir = whEb*((fw-36b) / 2 Phi*Vo?)	(3)	-	April 1 62 top
Check Shaur ACI 11 5.3.1	Ok	-1	Allowed service deflection 4 64 m
		3	Mid 2 730 kip-m
			301 2.400 kip-se
			Onch deflection O.K
		LD.	Check senseons tax
rable Capacity		1	Pleasure"
In (6/6-3912)	64 m'4	4	Assumption check Soul Hy Loc
Ag * (690) V1 - M2	1	1	Span 1(tv Line met Tunnik Stgan 0,010 0,010
(regetini minkeles)) Mer	539 530 gs.l 16.971 kg/m	1	Charle ACI (4.8.2.3) Tomas Tomas
Mer Beta 1	16,971 kg-in	4	Mus C #10 kip-ti
Trui Ait roy'd	0.011 m ⁻¹	4	70-40
0)	X 23616264X	3	ACT eq. (14-6) Mil 1.020 kg-ft 0.430 kg-ft
fid	0.542 w	1	
Let	20291		AC19.33
1	9 (00)	+	6 09 09
	0.3343 ps	1	DAN (Feb.) \$4157(d) - 472) 2 020 kg-ft 2 020 kg-ft 1 1020 kg-ft 1 114 - 1150 kg-ft 0 000 kg-ft 2 000 kg-ft 2 000 kg-ft 1
c c	0.119 m	1	As Add) reside (000 m) 0.00 m 3
And landerheiten	0.28 6/2	1	Additional reinf rog 4 0.00 ts/2 0.00 ts/2
introconstant to	561.00 in 4	1	Add her size 3 3
delta	190	1	gly reg 6 0 0
A (miximum tinishs remforcement)	0.0166		2000 A 2000 A
tions (tobs temperation scientificement)	0.6014	1	(V) dett i
f _{eta} (minimum fenzio reinferconcut) / _{Mat} (trial reinferconcut ratio bission)	0.0027	4	Att - At - At Add1 0.10 n° 1 0.20 m° 2
Parametronierconuni ratio provided)	0.0000	1	DMs \$\(\alpha\rightarrow\rightarr
(Passing President Control (Schulett))	WAN	J	Check asin > Mu O.K. CER.
			(v.alhamod) 50,60% 22,32%





REINFORCEMENT AT OPENINGS

Patientered load from coal) 0 47 kg	Material Proper	tles
Ww (weight of panel per sq 8) 0.05 kef	site (offertive depth bottom)	1.84 is
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a (Monk of strain)	0.33433 pm

Opening	Illarizatus Location	Vortical Localities	L length of opening	() height above operating	(-) Weight of Opening (LHS)	If w total factoryed panel load	on total Distanced load	Mu
A robot I	7.120	5.920	2.02 8				metalline inte	(00.10.0)14
Vent I	- 10	1.0	10	1.1211	69.69	0.07 VIC	0.541/	0.18 km-R
Occupy I	on.	98		8.6	10.00	0.3 Kir	0.7715	0.06 km-ft
	4.11	40	168.0	/1350	571.40	0 06 kH	ASTAIR	A 125

Opening	46	As reg'd	tim size	qly regid:	4Mn	Chock
Watdow 1	0.9	0 001 m'2	No 3		201100	ALL ALL
Vest 1	0.9	0 m 2	No.1			0.5
Opening 1	0.9	0 002 m 1	35-1		6011-0	- 08

CONNECTIONS

				FV	Resistance Value Overturning		
O. meda:	Haze Acchora		Lateral	Usse	Anchors	Well-Well	Corperties
in Shear	Materium	Maximum	Shear	Moment +	Moment -	Momard +	Morres
3	100	L - Datance	100	Jop - 1	Np - 4	lop - A	hg - 2
	1 100	- 76	36 627	40.32	44.30	69 35	48.63

Total Territor			Gase A	viction		
Hara Anchor C	Qet	Tension (Np)	Shear	L - Drst	Morrant +	Manuel
Dase Anchor 1	12 m	3.64	12.21	99 n	1.107 kg*ft	10 015 km*0
Hink Asher 3	707 84	354	12.21	61 m	14.167 80-11	1 11 404 big*2
Hase Anthor 3	100 54	3.64	12.21	11	10 11111	7 7 7 7 7 7 7

		Capacity	I' de se de se		Walf Connections				
Cara	Otsenidy of Anchors	of each	Countaring Dead Load from Addining Wall	wall to	Adjoining Walf	Q/st (Inclus)	L Ont	Altorable	Overturning Moment Resistance (No.4)
Wall Connection 1 Wall Connection 2	2	2,703	16.619	50 00%	Wh	26	105,000	5 406	11.713 47.303
t - to an extended to		2,702	17.133	50 00%	185	128	3000	5.400	57.664 1.303

Shear	Connections at Ba	10		Wall Shear Capacity		1		
Porce (Ib)	Capacity (b)	Reserve Capacity	(PLF)	Resistance (PLF)	check	Required Shear Capacity (it) per Base Connector		Reserve
2014	36527	33013	243	16637	ÖK	936	(£1866)	Capaci

RIGIDITY

		CALCULA	ATEG VALUES	82%	Enel	6.30547949	
	Par	Length	Height	Ford Top?	Usesbia?	Stiffness (5)	Defession
	Lebel Entire Well	(inches)	[inshes]	(YAV)	(440)	(1000 kp / PI)	(in / 1000 kip)
Wadaw f	CLINER AARD	131	90	Y	Α,	7./16	0 130
10 -100-177	A	67.84	0.20	Y	Y	105 335	0.009
		18.92	5.20 5.20	1 5 1	Y	70516	0014
Vort I	9,	131	12	1 1	<u> </u>	14 319	0.070
	C C	30	17			72 575	0014
	. 0	63	12	V 1	-	19 286 45 792	0.052
Dooring !	C,	131	82.2	Y	V-	9.392	0.022
	- 5	0	82.2	9	N	0.000	0,000
	-	11084	82.2	Y	Y	7.597	0.132

			Comb	ne Logia		
He .	First Segment	Second Segment	Re-Name	Combine/Subtract	Method	Continue
Window I	Entire Wat		Alt	2000	Defection	0.120
	-	8	AB.		Stiffness	84,935
Vent I	A	AB	Ab	4	Deflection	0.132
read 1	Ab	0	- 63		Defection	0.118
	B'a	0	CO		Stiffnosis	65.078
Opening I	80	CO	95		Defection	0.133
special r	6		Ca		Defection	0.027
	0		- 55		Stiffness	7 597 9 159
	L 99 1	- Ki	First		Deflection	0.150

PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

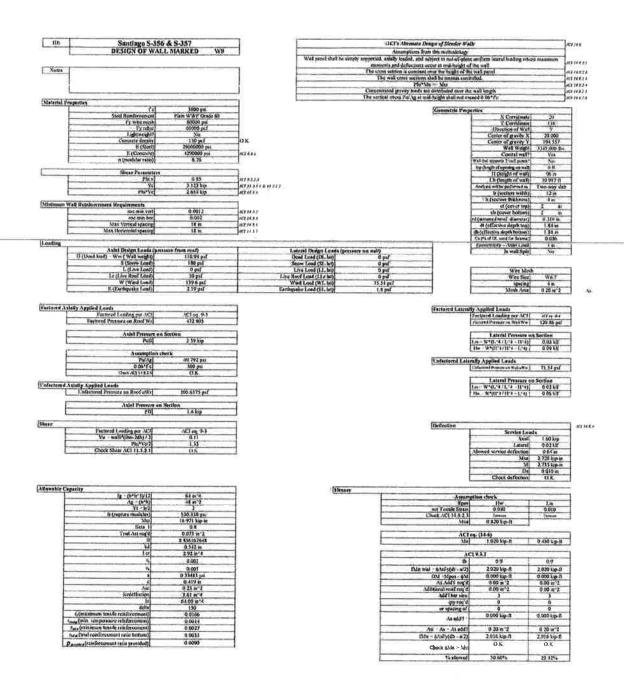
Mark Severson

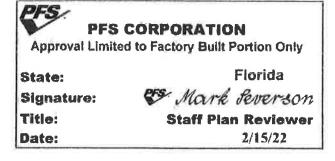
Title:

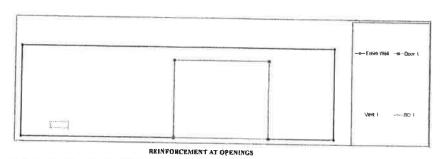
Staff Plan Reviewer

Date:

2/15/22







Loading	-
Pie (Bekerined lead from roof)	0.47 kg
Ww enought of paced per sq (1)	0.05 ksf

Material Pr	operties.
sils (effective depth bettern)	(840
a (block of strain)	0.11481 psi
	# /A4 * No / (0 13 * Co 15)

Ореніну	For somuli Cocabas	Votical Location	1, kingth of opening	opening 11 height above	(-) Weight of Opening (LIIS)	Pw total factorized punct load	factorized load	Mu (wa*L^22/)2
Dive i	3.32.0	9.0	3.34 //	1450	1143.93	0.04 80	0.000	
Vent I	.î jî -	1.6	1.0	4.0	30 pg	9340	0.5178	0.49 kg-ft
001	E O'E M	BTER		5.71.0			0.77 kii	0.06 km-fl
00.1	E-0/2 M	B.73 ft	951.0	5.73 ff	17.01	0.36 kH	0.5118	H

Opening	# b	Ve req'il	Har-men.	giy rag'd.	4Mn -	Cheek
Door I	0.9	9 999 in 2	No. 3	-	(S) - (b)/3//4	
- You'r	0.9	9 % 2	No. 1		601 kp/R	OX
DO t	0.9	0 in 2		- U	O kip-fr	O.K
	9.7	49.7	No.3	0	d No.11	O.K.

CONNECTIONS

		7	Full Resistance Value						
Base Anchors			Latinat	-	Overturning				
Quentily	I Maumum	Maximum	Caterat Shear	Date	Anchers	Well-Wall Connection			
in Shear	R - Distance	I - Datance	O/Mar	Moiment +	Moment -	Moment - Moment			
. 3	100	119	35.627	41.70	5141	60 30 40 KS			

Total Tonaica	Date Andreis								
10.923	Dist	Termion (kip)	Shear	L - Dist	Mamael a	T Manual			
Date Anchor 1	12 m	364	12:21	119 m	0.417 km²ft	36 107 kg*fl			
Base Anshor 2	- 60 m	164	12.21	71 10					
Hase Anchor 1	100 in	364	12.21	31 16		12.853 kip*A			
	-	100	164	21 18	1 30 342 kg 'fl	1 2450 km*n			

				70 4 1 1 1 1 1	Wall Connections					
	Olambiy of Anchoru	of each Anchor	Countering Doed Load from Adjoining Wall	Mah po Mah po	Adjusting Well	Dist. (inches)	k - Omt	Allowable Force	Overfurning Moment Registance (tip-ft)	
Wall Connection 1	2	2.703	18.819	50 00%	486	- 24	100.000		Up Lat Law Rote	
Walt Connection 2	2	2.793	17 133	50.00%	WY	128	3,000	5.406	11.713 47.303 57.664 1352	

Design	Connections at Ba Cépacity	Reserve	Design	Wat Stream Capacity Resistance		Required Shear Capacity (tb) per
Force (th)	(5)	Cepacity	(PLF)	(PLF)	chaek	Base Ceremeter
1635	36627	34992	136	9314	OX	545

RIGIDITY

		CALCULA	TED VALUED	46%	Final	1.329126666	
	Pier	Langth	Height	Fixed Top?	Useable?	Stiffness (k)	Defection
	Entire Was	(inches)	(inches)	(Y/N)	(VAV)	(1000 kg / IN)	(in / 1000 kip)
Decr 1	Crimin Was	131	96	Y	Υ.	7.716	0 130
area (A	63.84	52.2	1 1	Y	2.392	0.106
	0	27.08	#2.5	1 1	- Y	3335	0300
Vant I	9'	131	12	1 0	- 1	0.539	1,654
	Ç	36	12	V V	•	72 575 19 286	0014
	0	83	12	Y	Ý	45 792	0.052
IO I	g	131	6.48	Y	Y	134.664	0007
	-5-	12 24	648	Y	Y	11 517	
		1112	6.48	9	Y	114 774	0.007

			Comb	ne Legic		
	First Segment	Second Segment	Rn-Name	Contine/Subtract	Method	Combinat
UVY I	Entire Was	K	A's		Defection	0.023
	A	0	AB		Stiffness	3.874
	No.	AU	Ab		Defection	0.281
ast	A6	- 0.	80		Defection	0.267
	C	D	ÇQ	•	Stiffoess	65 078
0.1	B'a	CD			Defection	0.283
,	- 00	C.	C		Defection	0275
			EF.		Briffness	125 791
	C)e	EF.	Final		Defection	0.200



State:

Florida

Signature:

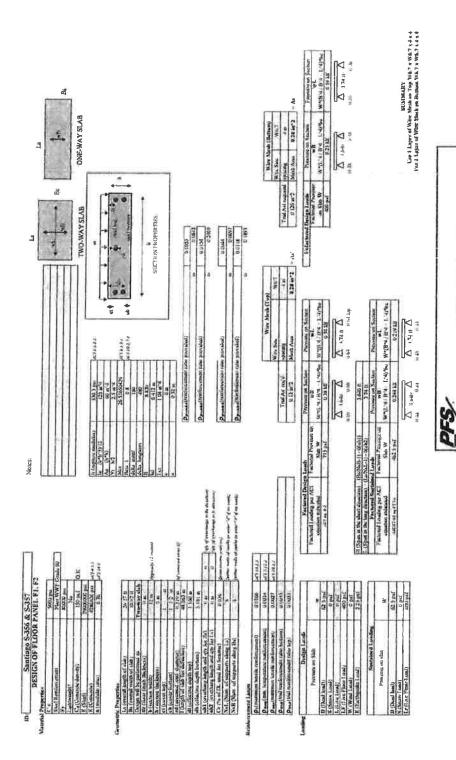
Mark Severson

Title:

Staff Plan Reviewer

Date:

2/15/22



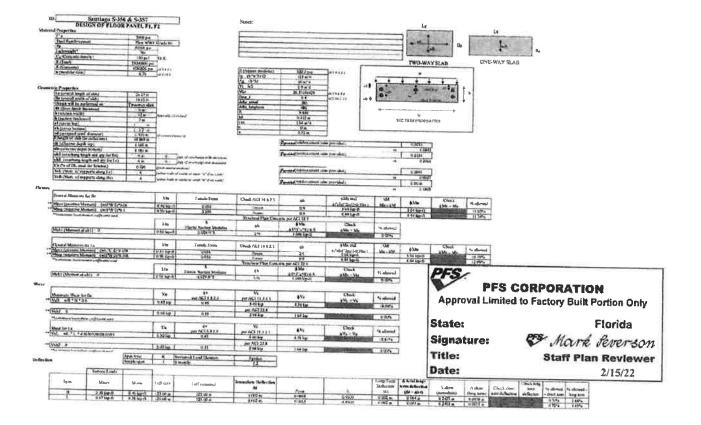
Approval Limited to Factory Built Portion Only Florida PFS CORPORATION Signature:

State:

Mark feverson

Staff Plan Reviewer 2/15/22

> Title: Date:



Page 27 of 27 Date: 02/08/2022

Al Length of roof panel 1900 ft 17 Area of Roof 657.00 ft 12 16 16 17 16 17 16 17 16 17 16 18 18 19 18 18 19 18 18	ID:	Santiago S-356 & S-3	57				ľ
18 (with of roof panel) 23 00 ft Wv.(weight of vaul)** 0 1 1 1 1 1 1 1 1 1	Committee	atta					0
Al.Length of toof pased 39.00 ft Wir (roof pased vesight) 4.00 1.00 ft 4.00 ft 4.00 ft 4.00 ft 5.00 ft 5.			m array	V 1111	L.on	diag	
NA Area of Score							0 16
							40260
Description of buildings 21.8.3 ft We (estimated weight of buildings) 132 ft 132 ft 133 ft 134 f			Ww (total wa	dis punel weig	(ht)		630601
We (voliding) 26 ft We (catinated weight of building w/ vault) 139					The same		351301
McArea of buildings 367.58 Br2 We (quantity of waters) 0 0 0 0 0 0 0 0 0							138450
Section of Safety Factor of					building w	vault)	138450
Modern of Vanil Lips 0.00 ft 2 1.50							151.2 p
No. Accord Vault 0.00 ft^2							400 ps
Part							1500 ps
Second S							57.25 p
Weight of vault is not considered in sliding resistance			WLIst (MW	RS lateral w	ind pressur	c)	61.91 p
We (depth of floodwater)		547.56 ft^2	yw (specific v	weight of wan	ct)		62 A pc
CHECK SLIDING RESISTANCE 7.1 Vestimic (from seismic analysis with soow) 3997.2 lb 3.7 Vestimic (from seismic analysis without snow) 3488.9 lb 7.1 Vestimic (from seismic analysis without snow) 3488.9 lb 7.1 Vestimic (from seismic analysis without snow) 3488.9 lb 7.1 Vestimic (from seismic analysis without snow) 3488.9 lb 7.1 Vestimic 7.1 Vestimic 7.2	Iw (depth of floodwater)	in	**Weight of	sault is not co	ensidered in	sliding resistar	
CHECK SLIDING RESISTANCE 7" Vseismic (from seismic analysis with snow) 39972 lb 37* Vseismic (from seismic analysis without snow) 3488.9 lb Vseismic Vseismic (from seismic analysis without snow) 3488.9 lb Vseismic Vseismic vseismic analysis without snow) 3488.9 lb Vseismic vseis	u (sliding factor)	0.40	F	S (Octor of v	Conv requir	0.44	1 00
Shear	- Additional designation of the second secon			O (mator of h	nety requir	cuj	1.00
Shear		7*Vseismie (from seismie analysis wif	h snow)	1007.2	0. 1		
Viving = Wilde Mink 1807 1907	Shear						
* Load adjustment per IBC 1605.3 load combinations Sliding Resistance with Snow							
Factor of Safety				10071.5	, 10		
FScismic FScismic FScismic FScismic Safety FScismic FScismic FScismic Safety FScismic FScismic FScismic FScismic Safety FScismic FScismic FScismic Safety FScismic FScismic FScismic FScismic Safety FScismic FScismic FScismic FScismic FScismic FScismic FScismic FScismic Safety FScismic FScismic FScismic Safety FScismic FScismic Safety FScismic Safety FScismic Safety FScismic Safety Safe	Sliding Resistance with Snow	Pslide = u*(.6*We+.75*PSFr*Ar)	Pslide	63483.1	2 lb	Venued	
Psicismic Pside Vicismic Pside Pside	Factor of Safety				12		0.6
Factor of Safety	D ACTOR OF SHARLY	FSscismic « Pslide / Vscismic	Fscismic +	15.9	2	1.0	(0.5)
Factor of Safety	Sliding Resistance with No Snow	Pslide ≈ u*.6*We	Palide =	33228	ib		
Factor of Safety FSwind = Otr / Vwind Fswind Z.10 Z.10		FRANCE BULLY	7 6 7 7 Y				-
CHECK OVERTURNING RESISTANCE	Factor of Safety				5		(2.5
2**Otecismic (from seismic analysis with snow) 39.423 kip-ft 3**Otecismic (from seismic analysis without snow) 34.276 kip-ft Otwind = (WLlat*Lb*H*2/2) + (Fopmw*Lb*Wb*2/2) 513.386 kip-ft 513.386 k		FSscismic = Pslide / Vscismic	Facismic	9.5	3	1.0	1000
A 2 270 kip-ft		CHECK OVERTURNING	RESISTANCE				
Otwind = (WLlat*L8*H*2/2) + (Fupmw*L8*Wb*2/2) \$13.386 kip-ft				39.423 ki	ip-ft		
* Load adjustment per IBC 1605.3 load combinations. Overturning Resistance with Snow	Shear			34.270 ki	p-ft		
Overturning Resistance with Snow Otranov = (.6*We-f.75*PSFr*Ar)*(Wb/2) Oursnow = 1097.011 kip-ft Factor of Safety FSwind = Otranow / Otwind FSwind = 2.14 ≥ 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		Orwind = (WLlat*Lb*H^2 / 2) + (Fupmw*L	5°W6^2/2)	513.386 k	ip-ft		
Factor of Safety FSwind = Otrsnow / Otwind FSwind = 2,14 ≥ 1.0 1.		oad adjustment per IBC 1005,3 load combination	5.				
FSwind = Otranow / Otwind FSwind = 2,14 ≥ 1.0 1.0	Overturning Resistance with Snow	Otranov = (.6*Wc+.75*PSFt*Ar)*(Wb/2)	Otranow =	1097.0111	kip-ft	Parent	
Factor of Safety	T	FSwind = Oursnow / Otwind	[FSwind =]	214	151		100
Factor of Safety FSwind = Otr / Vwind FSwind = 2.10 ≥ 1.0 D	Factor of Safety				2		70
Factor of Safety FSwind = Otr / Vwind FSwind = 2.10 ≥ 1.0 D	Overturning Resistance with No Snow	Otr = 6*Wo*Wb/2	l Otr 1	(079 910 1	cin.ft		
Factor of Safety FSwind = Otr / Vwind Fswind = 2.10 ≥ 1.0 0 FSscismic = Otr / Vscismic Fseismic = 31.51 ≥ 1.0 CHECK BEARING PRESSURE CONDITION					20.		
CHECK BEARING PRESSURE CONDITION	Factor of Salety					1.0	District of the
					>	1.0	AUG
Net Pressure Pnot = (Wev + PSF)*Ar + PSF(*Af) / Ab 821.62 paf		CHECK BEARING PRESSU	RE CONDITION	٧			
	Net Pressure	Pnot = (Way + PSFr*Ar + PSFf*Af)	Ab I	821.62 p	osf		
Allowable Pmax ≥ Poct 1500 psf ≥ \$21.62 psf	Alfowable	Pmax > Poct 1%	10 msf > 121 52 m		TOWNS .		

CHECK BUOYANCY FORCE CONDITION

Huoyant Force	Fb = pw*Av*Hw+yw*(Cab*(Hw-Vh)	Fb =	34167.47 lb	
Factor of Safety	FSb = Wo / Fb	FSb =	4.05	2	1,00

The weight of the building exceeds the hugyant force due to hydrostatic pressure acting on the horizontal surface of the vault, therefore, the design is sufficient against buoyancy.

- 1) The referenced building is made of flood damage resistant 5000 psi reinforced concrets.
 2) The vault system, if existing, is designed to minimize infiltration into system and can be considered water right to a height of 17°
 3) Flood Ventilation is available at threshold level and flood ventilation exceeding (" per sq. 8, of floor area is provided to more than 12" A.F.F.



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

2/15/22



COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information

Energy Code:

2020 Florida Building Code, Energy Conservation

Project Title:

Santiago S-356 & S-357

Project Type:

New Construction

Construction Site:

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

	A Area Category		B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Restroom (Office)		-	470	0.71	224
2-Chase (Workshop)			101	0.81	334 82
			To	tal Allowed Watts =	416

Proposed Interior Lighting Power

A Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture		D Fixture Watt.	(C X D)
1-Restroom (Office) LED: A: Other:	1	4	20	4.4.0
2-Chase (Workshop) LED: C: Other:	1	4	28	112
	1		28	56
	101	tal Propose	d Watts =	168

Interior Lighting PASSES: Design 60% better than code

Interior Lighting Compliance

Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2020 Florida Building Code, Energy Conservation require OMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspec

Name - Title

Signature

Date

PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Es Mark Severson

Title:

Staff Plan Reviewer

Polece Title:

2/15/22 Santiago S-356 & S-357

Data filename:

February 13, 2022

No. 58523

Report date: 02/08/22

Page 1 of 6



COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code:

2020 Florida Building Code, Energy Conservation

Project Title:

Santiago S-356 & S-357

Project Type:

New Construction

Exterior Lighting Zone

3 (Other (LZ3))

Construction Site:

Owner/Agent:

Designer/Contractor:

Allowed Exterior Lighting Power

Area/Surface Category

В C Quantity Allowed

No. 58523

February 13, 2022

Tradable Allowed Watts

Watts / Wattage (B X C)

Main Entries (Pedestrian and vehicular entrances and exits)	9 ft of door	21	Yes	189
	Tol	al Tradable	Watts (a) =	189
		Total Allov	wed Watts =	189
	Total Allowed Su	pplemental	Watts (b) =	500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast

Lamps/ Fixture Fixture Watt.

1

Fixture (CXD)

Main Entries (Pedestrian and vehicular entrances and exits, 9 ft of door width): Tradable Wattage

LED: B: Other:

14 3 42 Total Tradable Proposed Watts =

Exterior Lighting PASSES: Design 94% better than code

Exterior Lighting Compliance

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2020 Florida Building Code, Energy Conservation requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the inspection the kill will.

Name - Title

Signature

Date



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark feverson

Title:

Staff Plan Reviewer

are itle

Santiago S-356 & S-357

2/15/22

Data filename:

Report date: 02/08/22

Page 2 of 6



COMcheck Software Version COMcheckWeb Inspection Checklist

Energy Code: 2020 Florida Building Code, Energy Conservation

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
[PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

	CORPORATION If to Factory Built Portion Only
State:	Florida
Signature:	Mark Severson
Title:	Staff Plan Reviewer
Date:	2/15/22

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title:

Santiago S-356 & S-357

Data filename:

Report date: 02/08/22

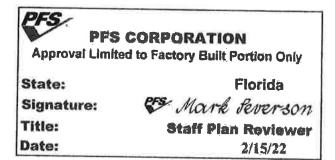
Page 3 of 6

Section	Rough-in Electrical Inspection	C	
& Req.ID		Complies?	Comments/Assumptions
2 [EL22] ¹	Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent,	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1. I [EL18] ¹	conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1. 2 EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	□Complies □Does Not □Not Observable □Not Applicable	
) EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft, have controls 1)	□Complies □Does Not □Not Observable □Not Applicable	PFS CORPORATION
405.2.2.	sensors (per C405.2.1) have time- switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2	□Complies □Does Not □Not Observable □Not Applicable	Approval Limited to Factory Built Portion Only State: Florida Signature: FS Mark Severson Title: Staff Plan Reviewer
-			Date: 2/15/22

1 High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)	
------------------------	---	------------------------	---	---------------------	--

Section # & Req.ID	Rough-In Electrical Inspection	Çomplies?	Comments/Assum ptions
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL23] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL26] ¹	specific uses installed per approved lighting plans, 1. Display and accept	□Complies □Does Not □Not Observable □Not Applicable	
[FFS8] ₃	location with ready access and where controlled lights are visible.	□Complies □Does Not □Not Observable	
EL30]3	Exterior lighting systems provided with controls complying with C405.2.6.1 through C405.2.6.4 for daylight shutoff and decorative	□Not Applicable □Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:



1 11 1 1	The state of the s	
1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)

Project Title: Santiago S-356 & S-357 Data filename:

Report date: 02/08/22

Page 5 of 6

Section & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3.2 [FI18]1	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not	See the Interior Lighting fixture schedule for values.
		□Not Observable □Not Applicable	
C405.4.2 [Fl19]1	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not	See the Exterior Lighting fixture schedule for values.
		□Not Observable □Not Applicable	
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment,	□Complies □Does Not	
	programming, and operation.	□Not Observable □Not Applicable	

Additional Comments/Assumptions:



High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
----------------------	---	------------------------	---	---------------------

Project Title: Santlago S-356 & S-357

Data filename:

Report date: 02/08/22

Page 6 of 6



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

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

GAF I Campus Dr. Parsippany, NJ 07054

SCOPE:

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

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

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

DESCRIPTION: GAF Roof Coating Maintenance Systems

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

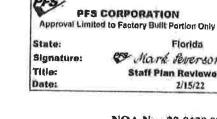
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

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

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

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

This NOA revises NOA No.19-0325.08 and consists of pages 1 through 18. The submitted documentation was reviewed by Jorge L. Acebo.



Mark Severson Staff Plan Reviewer 2/15/22



NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 1 of 18

ROOFING COMPONENT APPROVAL

Category:

Roofing

Sub-Category:

Cement-Adhesive-Coatings

Material:

Elastomeric

State:

Florida

Signature:

Mark Peverson

PFS CORPORATION
Approval Limited to Factory Built Portion Only

Title:

Staff Plan Reviewer

Date:

2/15/22

SCOPE:

This approves "United Coatings" Roof Maintenance Systems" as a maintenance roof coating system as manufactured by GAF, as described in this Notice of Acceptance, designed to comply with the Florida Building Code and the High Velocity Hurricanes Zone of the Florida Building Code.

Test

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Container

Product	<u>Container</u> <u>Sizes</u>	Specification	Product Description
United Cleaning Concentrate Manufacturing Location #4	l & 5 Gallon	Proprietary	Biodegradable cleaning agent with specific functional ingredients for degreasing and removing soils and biological residues for proper cleaning of roof surfaces.
Acrylex 400 Primer Manufacturing Location #1 & #2	1 & 5 Gallon	Proprietary	Acrylic latex primer for use over metal, masonry and wood surfaces.
Acrylex 400 Multisurface Roof Primer Manufacturing Location #1 & #2	1 & 5 Gallon	Proprietary	Acrylic latex primer for use over metal, masonry and wood surfaces.
CleanAct Rinsable Primer Manufacturing Location #7	2 & 5 Gallon	Proprietary	Water based, rinseable primer used directly on rubber roof (EPDM) applications.
SureBond Primer Manufacturing Locations #1 & #2	2 & 5 Gallon	Proprietary	Acrylic primer used for sealing masonry, metal and chalky surfaces.
UniBase Primer Manufacturing Location #1 & #2	5 Gallon	Proprietary	Low viscosity, highly penetrating, acrylic polymer primer.
TPO Red Primer Manufacturing Location #3	5 Gallon	Proprietary	Solvent-based primer for TPO membranes. May be used interchangeably with Topcoat TPO Red Primer.
XR-2000 Primer Manufacturing Location #3	5 Gallon	Proprietary	Water-based Acrylic primer for Kynar coated metal.
Lock-Down Primer Manufacturing Location #5	1 & 5 Gallon	Proprietary	Moisture-Cure urethane primer for corrosion protection on metal surfaces.
Epoxy Primer Manufacturing Location #1 & #2	1 & 5 Gallon	Proprietary	Single component epoxy primer/sealer designed to penetrate and seal porous surfaces.
United Coatings™ Roof Mate™ Butter Grade Flashing Manufacturing Location #1	2 & 5 Gallon	Proprietary	Water based, high solids elastomeric sealant.
United Coatings [™] Roof Mate [™] Spray Grade Flashing Manufacturing Location #3	2 & 5 Gallon	TAS 139	Water based, high solids elastomeric sealant.

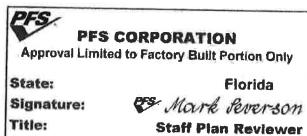


NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 2 of 18

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Container Sizes	<u>Test</u> <u>Specification</u>	Product Description
United Coatings™ Roof Mate™ Liquid Fabric Manufacturing Location #3	5 & 55 Gallon	TAS 139	Water based, high elasticity flashing compound.
United Coatings™ Roof Mate™ Fabric Manufacturing Location #6	4", 6" and 12" wide Rolls	Proprietary	3 oz./yd² polyester reinforcing fabric
FlexSeal** Sealant Manufacturing Location #3	1 & 5 Gallon or 1 Quart	TAS 139	Solvent-based elastomeric sealant.
United Coatings [™] Diathon [®] Base Coat Manufacturing Locations #1 & #2	5 & 55 Gallon	Proprietary	Acrylic elastomer base coating for use over spray polyurethane foam.
United Coatings™ Diathon® Roof Coating Manufacturing Locations #1 & #2	5 & 55 Gallon	ASTM D6083	Acrylic elastomer top coating for use over spray polyurethane foam in conjunction with United Coatings™ Diathon® Base Coat.
United Coatings™ Roof Mate™ Base Coat Manufacturing Locations #1 & #2	5 & 55 Gallon	Proprietary	Acrylic elastomer base coating for use over approved substrates.
United Coatings™ Roof Mate™ Top Coat Manufacturing Locations #1 & #2	5 & 55 Gallon	ASTM D6083	Acrylic elastomer top coating for use over approved substrates in conjunction with United Coatings™ Roof Mate Base Coat.
United Coatings™ Roof Mate™ MB Plus Coating Manufacturing Location #3	5 & 55 Gallon	Proprietary	Water based, low VOC primer used to block asphalt bleed through.
United Coatings™ Roof Mate™ TCM Coating Manufacturing Location #3	I, 5 & 55 Gallon	ASTM D6083	A premium acrylic, water based elastomeric membrane system used to protect various types of roofing surfaces.
United Coatings™ SurfaceSeal SB Roof Coating Manufacturing Location #3	5 & 55 Gallon	ASTM D6083	Solvent based, sprayable thermoplastic rubber sealant used to protect and restore aged roof surfaces and to increase a roof's reflectivity.
FireOut™ Fire Barrier Coating Manufacturing Location #3	5 & 55 Gallon	Proprietary	Low VOC, water based fire barrier coating.
Unisil Primer (A & B) Manufacturing Location #8	5 gal.	Proprietary	A two component, 1 to 1 ratio, water-based epoxy primer
United Coatings™ RoofShield® I.S. Coating Manufacturing Locations #2	55 Gallon	ASTM D6083	A two-part acrylic polymer dispersion system.

Manufacturing Locations #2



2/15/22

Date:

MIAMIEDADE COUNTY

NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 3 of 18

MANUFACTURING LOCATIONS:

- Phoenix, AZ
- 2. Charleston, SC
- 3. Walpole, MA
- Olympia, WA 4.
- 5. Richmond, MO
- 6. Spartanburg, SC
- 7. Fountain Inn. SC
- 8. Brookfield, WI

PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Co Mark Severson

Title:

Staff Plan Reviewer

Date:

2/15/22

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
PRI Construction Materials	GAF-306-02-01	Proprietary	05/19/11
Technologies LLC	GAF-499-02-01	ASTM D6083	05/19/16
	GAF-500-02-01	ASTM C794	05/19/16
	GAF-508-02-01	Proprietary	03/12/14
	GAF-661-02-01	Proprietary	06/03/16
	GAF-498-02-01	ASTM D6083	09/16/16
	GAF-658-02-01	Proprietary	06/07/16
	GAF-659-02-01	Proprietary	06/03/16
	GAF-660-02-01Rev1	Proprietary	06/16/17
	GAF-661-02-01	Proprietary	06/02/16
	GAF-662-02-01	Proprietary	06/07/16
	GAF-663-02-01	Proprietary	06/03/16
	GAF-665-02-01	Proprietary	06/03/16
	GAF-664-02-01	Proprietary	06/03/16
	GAF-666-02-01	Proprietary	05/31/16
	GAF-667-02-01	TAS 139	07/01/16
	GAF-668-02-01	TAS 139	07/01/16
	GAF-669-02-01	Proprietary	07/06/16
	GAF-671-02-01	TAS 139	07/01/16
	GAF-672-02-01	Proprietary	07/06/16
	GAF-673-02-01Rev1	Proprietary	06/16/17
	GAF-689-02-01	ASTM C794	06/22/16
	GAF-690-02-01	ASTM C794	06/22/16
	GAF-691-02-01	ASTM C794	06/22/16
	GAF-692-02-01	ASTM C794	06/22/16
	GAF-694-02-01	ASTM D1876	06/22/16
	GAF-694-02-02	ASTM D1876	06/22/16
	GAF-694-02-03	ASTM D1876	06/22/16
	GAF-754-02-01	Proprietary	06/16/17
	GAF-762-02-01	Proprietary	06/16/17
	GAF-712-02-01	Proprietary	07/21/16
	GAF-778-02-01	ASTM D6083	10/13/17
	GAF-906-02-01	Proprietary	01/25/19
	GAF-907-02-01	Proprietary	01/25/19
	GAF-908-02-01	Proprietary	01/25/19
	UCMC-013-02-01	ASTM D6083	05/19/16
	UCMC-014-02-01	ASTM D6083	05/19/16
NEMO etc.	4p-GAF-19-SSLAP-01.A-R1	ASTM D6083	08/13/19

MIAMIDADE COUNTRY

NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 4 of 18



PFS CORPORATION

Approval Limited to Factory Built Portlon Only

State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

2/15/22

Substrate:

New or existing galvanized Metal Roof System

All General Limitations Apply.

COATING APPLICATIONS:

APPLICATION INSTALLATION PROCEDURES:

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer:

Acrylex 400 Primer or Acrylex 400 Multisurface Roof Primer applied at 0.5 gal./sq.

(Optional)

Base Coat:

United Coatings[™] Roof Mate[™] Base Coat is applied at a minimum rate of 1.5 gal./sq.

Intermediate Coat: (Optional)

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Primer:

Acrylex 400 Primer or Acrylex 400 Multisurface Roof Primer applied at 0.5 gal./sq.

(Optional)
Base Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

United Coatings Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

(Optional)
Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Primer: (Optional) Acrylex 400 Primer or Acrylex 400 Multisurface Roof Primer applied at 0.33 gal/sq.

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal/sq.

Substrate:

New smooth Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating applied at 0.5 gal./sq.

Finish Coat:

United Coatings™ RoofShield® 1.S. applied at 3.0 gal/sq.



NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20

Page 5 of 18

New or existing smooth Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate™ TCM

Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat:

United Coatings[™] Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

(Optional)

Finish Coat:

United Coatings Roof Mate TCM Coating is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings[™] Roof Mate[™] TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings Roof Mate MB Plus Coating is applied at a minimum rate of 1.00 gal/sq.

Intermediate Coat:

(Optional)

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.00 gal./sq.

ÓR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.0 gal./sq.

Substrate:

New granulated Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

Coating applied at 1.0 gal./sq.

Fînish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal/sq.



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

🥰 Mark leverson

Title:

Staff Plan Reviewer

Date:

2/15/22



NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 6 of 18

New or existing granulated Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings™ Roof Mate™ Base Coat or United Coatings™ Roof Mate™ MB Plus Coating

is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: (Optional)

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate TCM

Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat:

(Optional)

United Coatings Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat:

United Coatings Roof Mate MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Substrate:

Existing granulated Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions

Base Coat:

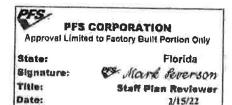
United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

Coating applied at 1.0 gal./sq.

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal/sq.





NOA No.: 20-0130.07. Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 7 of 18

New or existing Spray Polyurethane Foam Roof (SPUF)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings Diathon Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate

1 - 2 coats of United Coatings" Diathon® Roof Coating is (are) applied at a minimum rate of

Coat(s):

1.0 gal./sq. per coat.

Finish Coat:

United Coatings Diathon® Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Substrate:

New smooth SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

Coating applied at 0.5 gal./sq.

Finish Coat:

United Coatings[™] RoofShield[®] I.S. applied at 3.0 gal./sq.

Substrate:

Existing smooth SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions.

Base Coat:

United Coatings[™] Roof Mate[™] Base Coat is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat:

United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.00 gal./sq.

(Optional)

Finish Coat:

United CoatingsTM Roof MateTM Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions.

Base Coat

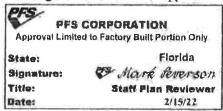
United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

Coating applied at 0.5 gal./sq.

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.





NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 8 of 18

New or existing smooth SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings Roof Mate MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat:

United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.00 gal./sq.

(Optional) Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

(Optional)

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

(Optional)

United Coatings SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark Peverson

Title:

Staff Plan Reviewer

Date:

2/15/22

NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 9 of 18

MIAMI-DADE COUNTY

New or existing Granulated SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings[™] Roof Mate[™] Base Coat or United Coatings[™] Roof Mate[™] MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

(Optional)
Finish Coat:

United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat;

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate TCM Coating

is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

United Coatings' Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

(Optional)
Finish Coat:

United Coatings[™] Roof Mate[™] TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings[™] Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

(Optional)

United Coatings[™] SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings[™] SurfaceSeal SB Roof Coating, United Coatings[™] Roof Mate[™] TCM Coating or United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions.

Primer:

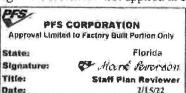
United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

Coating applied at 1.0 gal./sq.

Finish Coat:

United Coatings[™] RoofShield[®] I.S. applied at 3.0 gal./sq.





NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 10 of 18

New Granulated SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions.

Primer:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

(optional)

Coating applied at 1.0 gal./sq.

Finish Coat

United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate:

New Granulated APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

(optional)

Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate:

Existing Granulated APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions.

Primer:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof

Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate:

New or existing smooth APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.

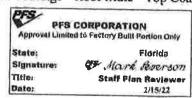
Intermediate Coat:

United Coatings SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.

(Optional) Finish Coat:

United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.





NOA No.: 20-0130-07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 11 of 18

New or existing Granulated APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat:

United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.00 gal./sq.

(Optional)
Finish Coat:

United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat:

United CoatingsTM Roof MateTM MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal/sq.

OR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate TCM Coating

is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

(Optional)

United Coatings™ Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat:

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat:

(Optional)

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.

Finish Coat:

United Coatings[™] SurfaceSeal SB Roof Coating, United Coatings[™] Roof Mate[™] TCM Coating, or United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.00 gal./sq.



PFS CORPORATION

Approval Limited to Factory Built Portion Only

State:

Florida

Signature:

Mark Severson

Title:

Staff Plan Reviewer

Date:

2/15/22

NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20

Page 12 of 18



Existing smooth APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions.

Primer:

United Coatings™ Roof Mate™ MB Plus Coating is applied at 0.5 gal./sq.

Finish Coat:

United Coatings™ RoofShield® L.S. applied at 3.0 gal./sq.

Substrate:

New or existing EPDM

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner:

CleanAct Rinsable Primer is applied in strict accordance with GAF's published installation

instructions.

Base Coat:

United Coatings[™] Roof Mate[™] Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

United Coatings[™] Roof Mate[™] Top Coat is applied at a minimum rate of 1.0 gal./sq.

(Optional) Finish Coat:

United Coatings" Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

(Optional)

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.

Substrate:

New EPDM

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer:

CleanAct Rinsable Primer is applied at 0.2 gal/sq.

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.





NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 13 of 18

New or existing TPO

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer:

TPO Red Primer applied at 0.5 gal./sq.

Base Coat:

United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

(Optional)

United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Primer:

TPO Red Primer applied at 0.5 gal./sq.

Base Coat:

United Coatings Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

(Optional)

Intermediate Coat: (Optional)

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal/sq.

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: (Optional)

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat:

(Optional)

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Substrate:

New TPO

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

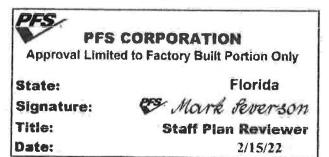
Primer:

TPO Red Primer is applied at 0.25 gal./sq. or United Coatings SurfaceSeal SB Roof Coating is applied at 0.5 gal./sq.

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.





NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 14 of 18

New or existing PVC

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat:

United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.

(Optional) Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR.

Base Coat: (Optional)

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

(Optional)

Finish Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Substrate:

New PVC

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer:

Unisit Primer (A & B) is applied at a rate of 0.33 gal./sq.

(Optional)

Finish Coat:

United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate:

Existing Hypaton (CSPE)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner:

United Cleaning Concentrate is applied in strict accordance with GAF's published installation

instructions.

Base Coat:

United Coatings Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

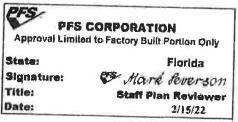
United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

(Optional)

Finish Coat:

United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.





NOA No.: 20-0130,07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 15 of 18

Structural Concrete

All General Limitations Apply.

Application on Concrete shall not be as a roof system or a waterproofing system see General Limitation #1.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer:

Epoxy Primer applied at 0.4 gal./sq.

(Optional)

OR

SureBond Primer applied at 0.4 gal./sq.

Base Coat:

United Coatings 151 Roof Mate 155 Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: (Optional)

United Coatings^{1M} Roof Mate^{1M} Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings 12 Roof Mate 12 Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

(Optional)

United Coatings Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat:

United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat:

(Optional)

United Coatings SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat:

United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings Roof Mate Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Primer:

SureBond Primer is applied at 0.4 gal./sq.

(optional) Finish Coat:

United Coatings RoofShield I.S. applied at 3.0 gal./sq.

PFS CORPORATION Approval Limited to Factory Bullt Portion Only Florida State: Signature: Mark feverson

Title:

Staff Plan Reviewer 2/15/22

Date:



NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 16 of 18

FIRE BARRIER APPLICATION

Substrate:

Wood Deck

System Type:

Fire barrier for use under mechanically secured anchor sheets, insulations or roofing

membranes.

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Fire Barrier:

FireOut™ Fire Barrier Coating is designed to provide fire barrier protection over wood decks. Apply at a rate of I gal./sq. Allow to dry prior to application of roof cover. Consult a current Approved Roofing Materials Directory for applicable fire ratings.

*See General Limitation #3.

PFS CORPORATION Approval Limited to Factory Built Portion Only State: Florida 15 Mark Severson

Signature:

Staff Plan Reviewer

Title:

Date:

2/15/22



NOA No.: 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 17 of 18

BUILDING PERMIT REQUIREMENTS:

1. This Notice of Acceptance.

 Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.

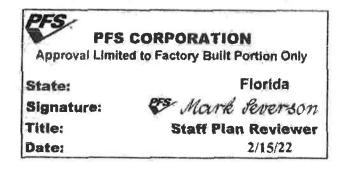
3. Approved Applicator Certificate (designated by GAF) listing the contractor & approved applicator's name.

GENERAL LIMITATIONS:

- GAF products are not approved as and shall not be used as a Roof or Waterproofing System as required by the Florida Building Code Chapter 15 HVHZ.
- 2. GAF products shall only be used as a roof or exterior maintenance coating over the substrates specified herein in accordance with Chapter 15 of the Florida Building Code.
- 3. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire rating of this product.
- 4. GAF products shall not be applied in inclement weather conditions.
- 5. The products listed herein are components of roof assemblies and are approved for use with roof assemblies that list any of the products listed herein as part of their Roof Assembly Notice of Acceptance.
- All products listed herein shall have an unannounced follow-up quality control program from an approved listing agency. Follow up test results shall be made available to Miami-Dade Product Control upon request.
- 7. GAF products shall not be applied over prepared roofing; i.e., asphalt shingles, fiber-cement shingles, quarry slate, cement or clay roof tile, metal shingles, wood shingles or shakes.
- 8. Change in materials, use, or manufacture of any of the products listed herein shall be cause for termination of this Notice of Acceptance.
- 9. GAF products shall be applied in accordance with manufacturer's published application instructions. Refer to GAF's published installation instructions for detailed installation requirements and recommendations.
- 10. The use of a reinforcing fabric in a maintenance coating is only to enhance the coating's ability to deliver efficient and long term performance through the protection of the underlying roof system and in this particular use does not become a roof system itself.
- All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
- 12. All approved products listed herein shall be labeled in compliance with TAS 121 and shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



END OF THIS ACCEPTANCE



MIAMEDADECOUNTY APPROVED

NOA No.; 20-0130.07 Expiration Date: 04/01/24 Approval Date: 05/07/20 Page 18 of 18