

RESOLUTION NO. 22-103

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, AUTHORIZING THE PURCHASE OF TWO FIBERGLASS STORAGE TANKS FROM PLAS-TANKS INDUSTRIES, INC. IN AN AMOUNT NOT TO EXCEED \$93,012.00, ON A BRAND NAME BASIS, AND IN THE BEST INTERESTS OF THE CITY, PURSUANT TO SECTION 2-844, 2-797(1) AND 2-797(4)(b) OF THE CODE OF ORDINANCES; AUTHORIZING ANY NECESSARY BUDGET ADJUSTMENTS; AUTHORIZING THE CITY MANAGER TO EXECUTE NECESSARY DOCUMENTS UPON CONSENT OF THE CITY ATTORNEY; PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, two fiberglass ferric sulfate storage tanks at the wastewater treatment plant require replacement, and City staff has identified that Plas-Tank brand storage tanks would replace the original tanks as an exact fit, and thereby avoid additional or increased costs caused by any need for piping or foundation redesign and construction to accommodate differently configured storage tanks; and

WHEREAS, Key West Code of Ordinances section 2-797(1) permits the purchase of goods and services without competition on a sole source basis under certain specified conditions; and

WHEREAS, Key West Code of Ordinances section 2-844(a) provides "Since use of a brand name specification is restrictive of product competition, it may be used only when the purchasing agent makes a written determination that only the identified brand name item will satisfy the city's needs;" and

WHEREAS, the purchase of fiberglass storage tanks from Plas-Tank Industries, pursuant to the brand name specifications provisions of Key West Code of Ordinances section 2-844 is permitted; and

WHEREAS, pursuant to City Code Section 2-797(4)(b), the City Manager finds that exceptional circumstances exist to exempt a purchase from the competitive bid requirements in the best interests of the City; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF KEY WEST, FLORIDA, AS FOLLOWS:

Section 1: That the purchase and shipping of two fiberglass storage tanks from Plas-Tanks Industries, Inc. in an amount not to exceed \$93,012.00, on a brand name basis and in the best interests of the City, pursuant to Sections 2-844, 2-797(1) and 2-797(4)(b) of the code of ordinances, is hereby approved.

Section 2: That funds adequate for this purchase are budgeted in FY 21/2022 in account No. 401-3504-535-6500 for the replacement of the tanks and control units.

Section 3: That the City Manager is authorized to execute any necessary documents, upon consent of the City Attorney.

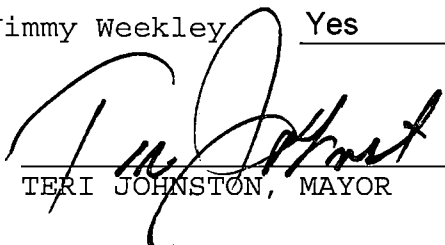
Section 4: That this Resolution shall go into effect immediately upon its passage and adoption and authentication by the signature of the Presiding Officer and the Clerk of the Commission.

Passed and adopted by the City Commission at a meeting held this 3rd day of May, 2022.

Authenticated by the Presiding Officer and Clerk of the Commission on 4th day of May, 2022.

Filed with the Clerk on May 4, 2022.

Mayor Teri Johnston	<u>Yes</u>
Vice Mayor Sam Kaufman	<u>Yes</u>
Commissioner Gregory Davila	<u>Yes</u>
Commissioner Mary Lou Hoover	<u>Yes</u>
Commissioner Clayton Lopez	<u>Yes</u>
Commissioner Billy Wardlow	<u>Yes</u>
Commissioner Jimmy Weekley	<u>Yes</u>



TERI JOHNSTON, MAYOR

ATTEST:



CHERYL SMITH, CITY CLERK



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

MEMORANDUM

TO: Patti McLauchlin, City Manager

Cc: Todd Stoughton, Assistant City Manager

FROM: Matt Willman, Utilities Coordinator

DATE: April 4, 2022

SUBJECT: Approving the Purchase of Plas-Tanks Industries, Inc. Fiberglass Storage Tanks in the Amount of \$93,012.00 Pursuant to Code 2-844 (a), Brand Name; Use, and 2-797 (4), Exemptions; Exempt Contractual Services.

Action statement: Staff requests approval to purchase 2 fiberglass ferric sulfate storage tanks from Plas-Tank Industries, Inc. in the amount of \$93,012.00 on a brand name and exempt basis as exceptional circumstances exist that warrant this purchase without competitive bidding in the best interest of the city. Plas-Tank Industries storage tanks replace the original tanks as an exact fit, purchasing another tank brand or design would cause considerable cost increases due to foundation redesign and construction.

Background:

The City's wastewater treatment plant has two ferric sulfate tanks. Only one is in use because as one has reached the end of its useful life. The one that is in use is in disrepair. The tanks are pre-manufactured by Plas-Tank Industries, Inc. and all the connecting piping and concrete foundation is fitted for those tanks.

Purpose and Justification:

Plas-Tank Industries, Inc. provided a quote for two in kind replacement tanks with identical pipe connection penetrations and tank size that will fit to the current Plas-Tanks foundation and connections. It is at the recommendation of Perez Engineering & Development, Inc. that the tanks be replaced in kind with Plas-Tank tanks. Replacing with in-kind tanks substantially reduces the down time for reconnection and costs associated with redesign. It also falls within the City's strategic plan for Environmental Protection, Priority 4; Goal 3; Action 6; Upgrade & Maintain systems as per DEP compliance program, as it relates to the Richard A. Heyman Environmental Pollution Control Facility and proper maintenance of that facility.

Key to the Caribbean – Average yearly temperature 77° F.

Options:

1. Purchase from Plas-Tank Industries, Inc. two pre-manufactured in-kind tanks quoted with delivery for \$93,012.00.
2. Purchase tanks from another manufacturer of different dimensions and foundation/piping that will greatly increase the downtime and cost for the ferric sulfate needed for the treatment process.

Financial Impact:

\$150,000 was budgeted, and \$134,705 remains in this account 401-3504-535-6500 for the replacement of the tanks.

Recommendation:

Staff recommends option #1; purchase two (2) in kind replacement tanks from Plas-Tank Industries, Inc. for \$93,012.00 pursuant to code of ordinances 2-844 (a), name brand and 2-797 (4) exempt contractual services.



QUOTATION



Certified to
NSF/ANSI 61



Plas-Tanks Industries, Inc.

39 Standen Drive • Hamilton, Ohio 45015 • Phone (513) 942-3800 • FAX (513) 942-3993 • www.plastanks.com

DATE	QUOTATION NO.	YOUR INQUIRY NO.	TERMS	F.O.B.	EST. COMPLETION AFTER DRAWING APPROVAL
2/18/2022	FL221690-1		See Notes	Destination	See Note

YOUR PLAS-TANKS REPRESENTATIVE

City of Key West, Utilities Department
1300 White Street
Key West, FL 33040
Attn: Steve Gardner
Tel: (305) 809-3700

DXP/Carter & Verplanck
4910 W. Cypress Street
Tampa, FL 33607
Attn: Tyler Tedcastle
Tel: (813) 287-0709
Mobile: (850) 264-9391

THE PLAS-TANKS EQUIPMENT OFFERED IN THIS QUOTATION IS EXCLUSIVELY WARRANTED FOR A FULL THREE YEARS FROM DATE OF COMPLETION. NON-FRP ACCESSORY ITEMS, SUCH AS LEVEL CONTROL EQUIPMENT, MIXERS, PUMPS, ETC... CARRY THE ORIGINAL EQUIPMENT MANUFACTURERS WARRANTY. THANK YOU FOR THIS OPPORTUNITY TO BE OF SERVICE.

ACCEPTANCE OF THIS QUOTATION AND ISSUANCE OF A PURCHASE ORDER AGAINST THIS QUOTATION INDICATES THAT THE CUSTOMER OR CUSTOMER'S DESIGNATED REPRESENTATIVE HAS REVIEWED THE QUOTATION IN ITS ENTIRETY AND ACKNOWLEDGES THAT THE QUOTATION SATISFIES THE REQUEST FOR THE EQUIPMENT THAT WAS SPECIFIED. ANY REQUESTS FOR ADDITIONS AND/OR CHANGES TO THIS QUOTATION AFTER ACCEPTANCE AND ISSUANCE OF THE PURCHASE ORDER WILL NEED TO BE REVIEWED AND ASSOCIATED COSTS APPLIED, IF APPLICABLE.

IN RESPONSE TO YOUR INQUIRY WE ARE PLEASED TO SUBMIT THE FOLLOWING QUOTATION SUBJECT TO TERMS AND CONDITIONS NOTED ON THE LAST PAGE

Quantity: Two FRP Ferric Sulfate Storage Tanks

Plas-Tanks filament wound reinforced thermoset plastic vessels, manufactured in accordance with Specification ASTM-D-3299-18. The inner surface and interior layers are included in the structural wall calculation. The inner corrosion liner is fabricated with Derakane 411 Signia vinyl ester resin reinforced with 1 Ply 'C' Glass surface veil and backed with chop strand fiberglass laminate to a full 100 mils. Balance of laminate fabricated to full wall thickness with the same resin as above. Exterior surface finished with a white gelcoat.

Vessels are to be: Flat bottom w/anti-buoyancy design, dish top, with an inside diameter of 10'-0", a straight shell height of 13'-0" and a nominal capacity of 7,640 gallons.

NOTE: Terms and conditions of sale noted on the last page are an important part of this instrument, changes and/or amendments to the terms and conditions must be in writing and approved by Plas-Tanks Industries, Inc.
Changes made on orders having previous customer approval will be assessed a charge of \$100.00 plus the cost of the change.
Retainers are not authorized unless approved in writing by Plas-Tanks Industries, Inc.
If equipment is not accepted for shipment after a mutually agreed completion date, we reserve the right to invoice storage charges.



QUOTATION



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Vessels are to have the following accessories:

Tie down lugs; 316 stainless steel
Lifting channels; 316 stainless steel
1 - 2" conically gusseted flanged nozzle; fill
1 - 2" conically gusseted flanged nozzle; pump suction
1 - 2" conically gusseted flanged nozzle; overflow
1 - 2" conically gusseted flanged nozzle; vent
1 - 2" conically gusseted flanged nozzle; level element (device excluded)
1 - 2" conically gusseted flanged nozzle; high level alarm system
1 - 24" side flanged manway w/cover, Teflon/neoprene filler gasket & 316 stainless steel fasteners
1 - 2" conically gusseted flanged nozzle; drain
8 – FRP pipe support clips
FRP ladder
Hydro-test
Post Cure
Corrosion resistant nameplate

Vessels are designed for storage of Ferric Sulfate, specific gravity 1.2, ambient temperature, atmospheric pressure, 140 mph winds, seismic conditions in accordance with IBC 2015, outdoor installation.

FULL THREE YEAR WARRANTY	PRICE EACH:	\$40,081.00
		(x)2
		\$80,162.00
F.O.B. Destination: Freight Prepaid and Added, unloading by consignee		
Freight to: Key West, FL	Via: Truck	\$12,850.00
	Total delivered price:	\$93,012.00

NOTES: Terms are 35% with submittal of fabrication drawings, due upon receipt of invoice, balance Net 30 days upon completion of order.

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Presently, most drawings are being e-mailed 10 to 15 business days after receipt of hard copy purchase order. Fabrication lead time is variable based on current schedule and the project's complexity. Please contact the factory for current lead times before placing your order. Delivery schedule to be confirmed after receipt of drawing approval.

The freight estimate (above) was determined at the time that the quotation was originally prepared. Dimensions provided to the carrier are based on average height, length, and width values for vessel(s) of the size(s) quoted. Should orientation of fittings/accessories or fuel cost increases over time affect a higher freight cost at time of shipment, we reserve the right to adjust the freight cost to reflect this increase.

The pricing in this quotation is valid for 160 days from date of issue.

Quoted price does not include state sales tax. Please furnish a copy of your Tax Exemption Certificate or your State or Federal Identification Number indicating that you pay sales tax direct to your state. We are not licensed to collect state sales tax.

All vessels are designed for atmospheric pressure conditions **ONLY**. Vent connection **MUST** be directly vented to the atmosphere (+/- 0 PSIG), NOT through a fume collection system, piping system, or any other means that would obstruct air flow. Venting **MUST** be failsafe and must not create pressure or vacuum under any upset condition or by operator error. Any design other than the aforementioned must be disclosed **IMMEDIATELY** prior to order issuance.

Plas-Tanks Industries is ISO 9001:2015 Registered and a certified ASME RTP-1 Code Stamp Holder

Respectfully submitted,

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Sam Patrick
Sales Manager
SLP:qc

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THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

**To: Patti McLauchlin, City Manager
Christina Bervaldi, Interim Finance Director**

From: Steve Gardner

Date: April 18, 2022

Reference: Ferric Tank Replacement

Pursuant to purchasing Code 2-844 relating to Brand Name Specifications, "Since use of a brand name specification is restrictive of product competition, it may be used only when the Purchasing Agent makes a written determination that only the identified brand name item will satisfy the City's needs."

Additionally, "The Purchasing Agent shall seek to identify sources from which the designated brand name item can be obtained and shall solicit such sources to achieve whatever degree of price competition is practicable. If only one source can supply the requirement, the procurement shall be made under the sole source procurement provisions of section 2-797".

In this case, the sole source vendor, Plas-Tank Industries, Inc. provided a quote for two in kind replacement tanks with identical pipe connection penetrations and tank size that will fit to the current Plas-Tanks foundation and connections. It is at the recommendation of Perez Engineering & Development, Inc. that the tanks be replaced in kind with Plas-Tank tanks. Replacing with in-kind tanks substantially reduces the down time for reconnection and costs associated with redesign

Purchasing Code 2-797 (1) b. states, "A contract may be awarded without competition when the department head makes a written determination and the purchasing agent verifies that, after conducting a good faith review of available sources, there is only one source for the required commodity or contractual service."

After a good faith review, this confirms that Plas-Tank Industries has replacement products that is a sole source to match the exact layout of the existing operation that satisfies the City's needs.

A handwritten signature in black ink, appearing to read "Steve Gardner", written over a horizontal line.

04/18/2022

Date

A handwritten signature in black ink, appearing to read "Jessica Durocher", written over a horizontal line.

4/18/2022

Approved by Jessica Durocher
Purchasing Agent

Date

Key to the Caribbean - average yearly temperature 77 ° Fahrenheit.

M E M O R A N D U M

SITE DATA

ZONING DISTRICT: M

FLOOD ZONE: AEB
F.J.R.M. - U.S. NAVAL RESERVATION 12 FED; PANEL #1508; SUFFIX "C"; DATED: 02-18-2005

LEGAL DESCRIPTION: KWP PT SEC19-30-31 TWP17S R14255E FLEMING KEY SPOL AREA 053-30911
(B DEED NO 19221)

DESIGN DATA

THE WORK DEPICTED HEREIN WAS DESIGNED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 8TH EDITION (2017)

ASCE 7-10, ASCE 24-14

THE WORK DEPICTED HEREIN WILL NOT YIELD ADDITIONAL IMPERVIOUS COVERAGE

THE FOLLOWING LOADINGS WERE USED:

FUTURE PROPOSED FLOOD ELEVATION: AEA NAVD = 9.35' NOV029 (NOT IN THE LAMA)

DESIGN FLOOD ELEVATION (D.F.E.) 9.35' + 1.0' = 10.35' NOV029, FLOOD DESIGN CLASS II

WIND LOAD: 200 MPH (ASCE 7-10) 3 SECOND GUST, EXPOSURE D, RISK CATEGORY II

INDEX OF DRAWINGS

T-1 - SITE PLAN

S-1 - DEMOLITION PLAN / TANK ANCHORAGE

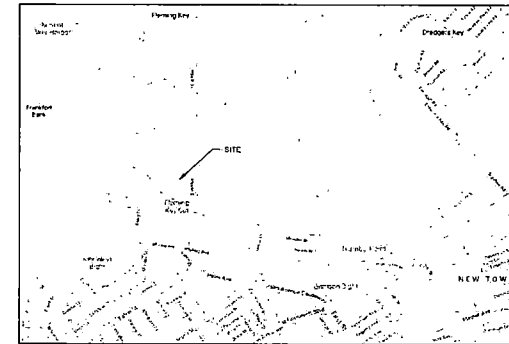
P-1 - PLUMBING SCHEMATIC / MONITORING SYSTEM SCHEMATIC

GENERAL NOTES

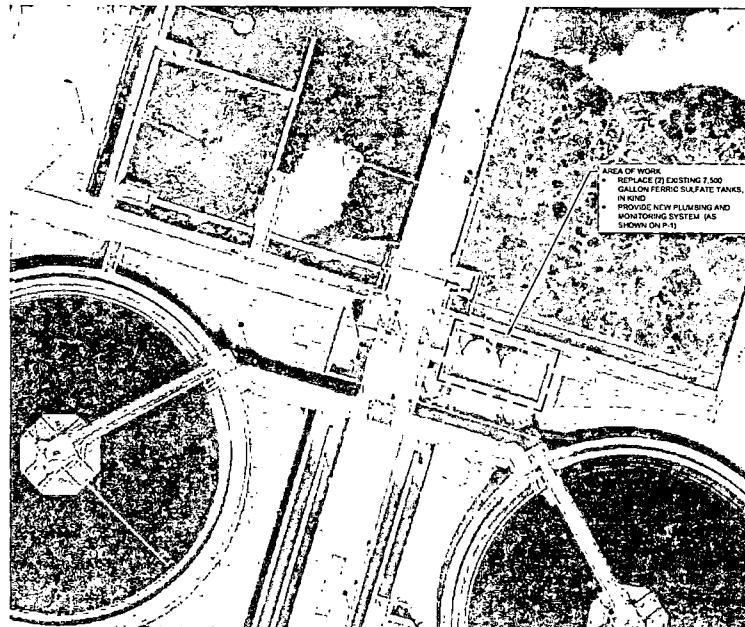
1. THESE PLANS ARE FOR THE WORK AT THE LOCATION SO DESIGNATED HEREIN
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO COMPLETE THE WORK AND MAKE STRUCTURE READY FOR USE
3. THERE SHALL BE NO DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD
4. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE BID CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK SITE AND REPORT ANY DISCREPANCIES, DIFFERENCES OR CONDITIONS THAT ARE UNSATISFACTORY OR UNSAFE
5. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY DISCREPANCIES, DIFFERENCES, UNSATISFACTORY OR UNSAFE CONDITIONS. ANY MODIFICATIONS OR CHANGES MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER AND ENGINEER OF RECORD SHALL NOT BE ALLOWED. ANY REMOVAL, RESTORATION OR OTHER IMPACT AS A RESULT OF NOT OBTAINING SUCH PRIOR APPROVAL WILL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR COMPENSATION FROM THE OWNER
6. THE CONTRACTOR SHALL PROVIDE FOR THE SAFETY, PREVENTION OF BURLY OR OTHER LOSS AT THE JOB TO ALL PERSONS EMPLOYED IN THE WORK, PERSONS VISITING THE WORK AND THE GENERAL PUBLIC. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE PREVENTION OF DAMAGE, DUE TO THE WORK, TO MATERIALS OR EQUIPMENT AND OTHER PROPERTY AT THE SITE OR ADJACENT THERETO
7. NO RESEARCH AS TO THE PRESENCE OF UNDERGROUND UTILITIES HAS BEEN INCLUDED ON OR PERFORMED FOR THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING SUNSHINE UTILITY LOCATE SERVICE PRIOR TO ANY CONSTRUCTION WITHIN ANY PUBLIC RIGHT-OF-WAY OR OTHER AREAS WHERE UNDERGROUND UTILITIES MAY BE PRESENT (I.E. IN AND AROUND UTILITY EASEMENTS, ETC.)
8. THE GENERAL CONTRACTOR SHALL PROVIDE AN ON-SITE DUMPSTER IN A LOCATION COORDINATED WITH THE OWNER FOR THE DISPOSAL OF REMOVED MATERIAL AND CONSTRUCTION DEBRIS. THE DUMPSTER SHALL BE EMPTIED AT APPROPRIATE INTERVALS TO PREVENT OVERFLOW AND UNSIGHTLY CONDITIONS
9. THE CONTRACTOR SHALL PERFORM ALL WORK IN STRICT CONFORMANCE WITH THE PLANS, THE FLORIDA BUILDING CODE, 8TH EDITION (2017), LOCAL CODES AND ORDINANCES, MANUFACTURER RECOMMENDATIONS AND ACCEPTABLE TRADE PRACTICES. ANY CONFLICT BETWEEN THESE REQUIREMENTS AND THE MOST STRINGENT REQUIREMENTS SHALL GOVERN THE WORK
10. SHOP DRAWINGS OF ALL PREFABRICATED STRUCTURAL FLOOR AND ROOF SYSTEMS AND MECHANICAL SYSTEMS SHALL BEAR THE SEAL OF A FLORIDA PROFESSIONAL ENGINEER AS REQUIRED BY THE FLORIDA BUILDING CODE, 8TH EDITION (2017) AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD BY THE CONTRACTOR FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION
11. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ANY INFORMATION THAT THE CONTRACTOR CANNOT OBTAIN FROM DIMENSIONS, DETAIL OR SCHEDULE SHALL BE OBTAINED FROM THE ENGINEER OF RECORD
12. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO PREVENT ANY CONFLICTS
13. THE CONTRACTOR SHALL FURNISH ALL SUBCONTRACTORS WITH A COMPLETE SET OF PLANS. ALL CHANGES SHALL BE NOTED ON THE DRAWINGS AND (2) COMPLETE AS-BUILT SETS SHALL BE DELIVERED TO THE OWNER AFTER COMPLETION OF WORK

SULFATE TANK REPLACEMENT

RICHARD A. HEYMAN ENVIRONMENTAL
POLLUTION CONTROL FACILITY
KEY WEST, FLORIDA



LOCATION MAP



SITE PLAN

SCALE: N.T.S.

CIVIL ENGINEERING - REGULARITY PERMITTING - CONSTRUCTION MANAGEMENT
PEREZ ENGINEERING
& DEVELOPMENT, INC.
Key West, Florida 33040
TEL: 305.231.2100

REYNOLDS ENGINEERING SERVICES, INC.
CERTIFICATE OF AUTHORIZATION NO. 18897
November 2, 2020
305.244.5977
10150 Bay Drive
Key West, Florida 33040
TEL: 305.231.2100

REVISIONS: ORIGINAL - JAC/PSD
1
2
3
4
5
6

SULFATE TANK REPLACEMENT
WASTEWATER TREATMENT PLANT
TRUMBO POINT ANX
KEY WEST, FL 33040

CITY OF KEY WEST
UTILITIES DEPARTMENT
1200 WHITE ST
KEY WEST, FL 33040

JOB NO. 201616
DRAWN JCH
DESIGNED JCH
CHECKED JCR
SHEET T-1

TANK DESIGN REQUIREMENTS

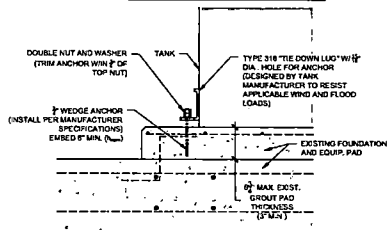
TANK TO BE MANUFACTURED AND DESIGNED BY PLAS-TANK INDUSTRIES, INC. MEETING THE FOLLOWING CRITERIA:

- DESIGN FLOOD LOAD (PER ASCE 24-14) AND WIND LOAD (PER ASCE 7-10) ACTING CONCURRENTLY PER APPLICABLE ASCE 7-10 LOAD FACTORS AND ASCE 24-14 SECTION 9.7 (FACTOR OF SAFETY = 1.5)
- D.F.E. AS SHOWN IN TYP. SECTION
- DESIGN WIND LOAD AS STATED IN DESIGN DATA ON SHEET T-1
- EACH TANK SHALL BE IDENTICAL. (2) TANKS TOTAL, MEETING THE PREVIOUS PLAS-TANK JOB NO. 10517
- WITH THE EXCEPTION OF THE REQUIRED (15) TIE DOWN LUGS, AS SHOWN ON THESE PLANS
- TANK DESIGN SHALL BE SIGNED AND SEALED BY A STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER
- THE DESIGN AND SHOP DRAWINGS AS WELL AS THE FABRICATION OF TANKS, WILL BE SUBJECT TO THE INSPECTIONS AND APPROVAL OF THE ENGINEER OF RECORD
- THE HANDLING AND INSTALLATION OF THE TANKS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS
- PER F.B.C. - BUILDING, CH. 1, SEC. 107.3.4.1, DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL

DEMOLITION NOTES

1. PRIOR TO SUBMITTING A BID, VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE, AND ALSO AFTER AWARD, BUT PRIOR TO THE START OF CONSTRUCTION
2. ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE, AND SHALL BE PROPERLY REMOVED FROM THE SITE, COMPLY WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT
3. ALL COST OF DEMOLITION INCLUDING PERMIT FEES, DISPOSAL FEES, ETC. ARE THE RESPONSIBILITY OF THE CONTRACTOR
4. IF IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF AND TO CONFORM WITH ALL APPLICABLE DEMOLITION AND DISPOSAL CODES, SAFETY REQUIREMENTS, AND ENVIRONMENTAL PROTECTION REGULATIONS OF ANY GOVERNMENTAL BODY HAVING JURISDICTION OVER THE WORK
5. PROVIDE SAFETY BARRICADES AS REQUIRED TO PROTECT THE SAFETY OF THE GENERAL PUBLIC AND WORKERS ASSOCIATED WITH THE PROJECT
6. PROVIDE BRACING AND SHORING AS REQUIRED TO TEMPORARILY SUPPORT STRUCTURAL MEMBERS DURING CONSTRUCTION, BRACING & SHORING OF STRUCTURAL MEMBERS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER
7. DEMOLISHED MATERIAL CLASSIFIED AS CLEAN FILL MAY BE DISTRIBUTED ON-SITE WHEN SPECIFICALLY APPROVED BY THE ENGINEER

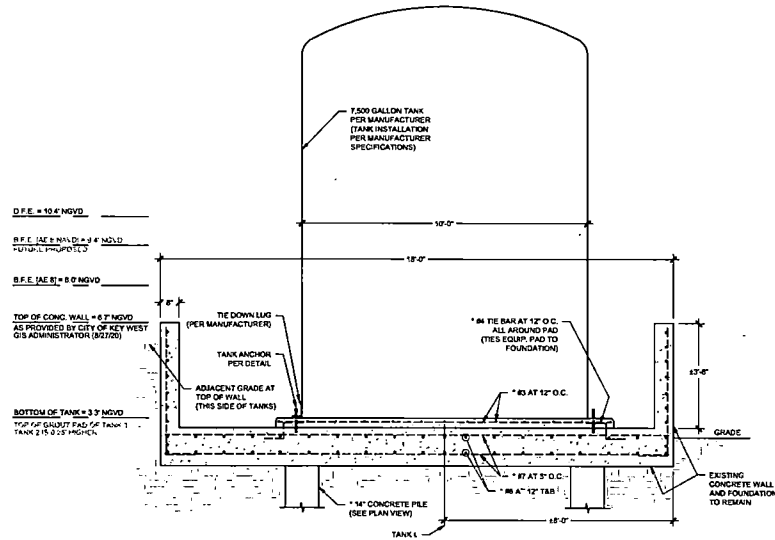
- ALL ANCHOR AND FASTENER HARDWARE TO TYPE 316 STAINLESS STEEL
- WEDGE ANCHOR SHALL BE 3" X 10" HLT. QUICK BOLT T2 SS 316
- WEDGE ANCHOR SHALL HAVE A MIN. EMBED. OF 8" (MIN.)
- INSTALL WEDGE ANCHOR PER MANUFACTURER'S SPECIFICATIONS



TYP. DETAIL - TANK ANCHOR

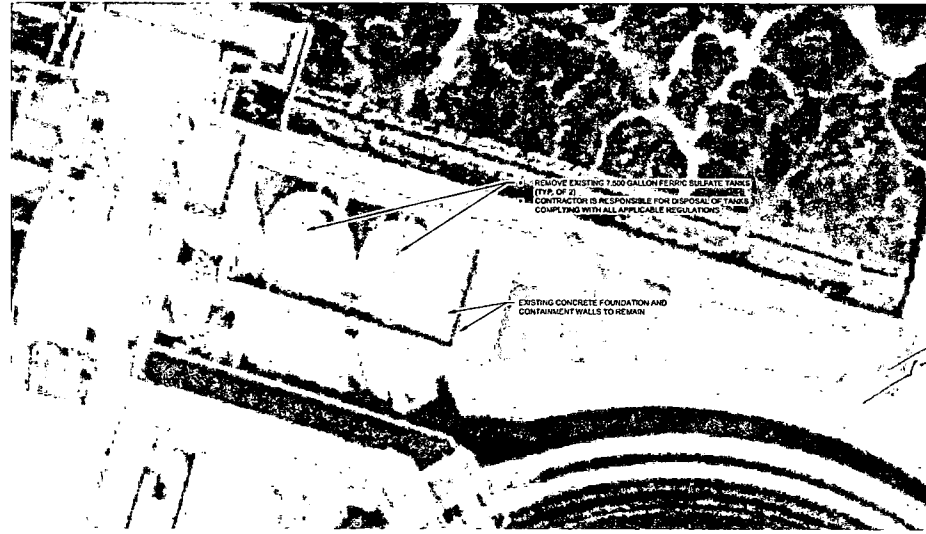
TYP. OF 12 PER TANK

SCALE: 1/4" = 1'-0"



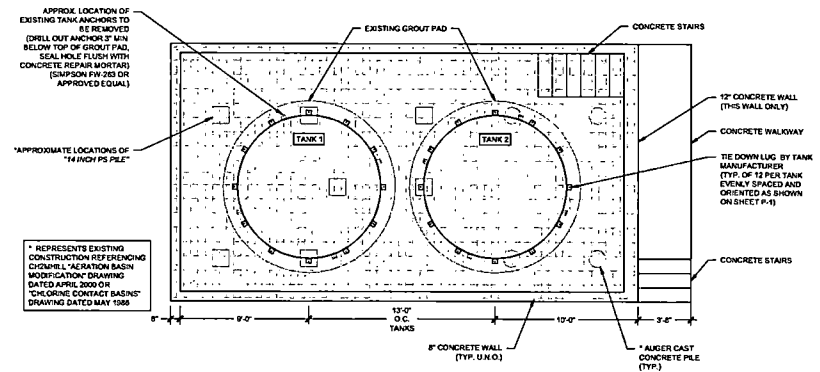
TYP. SECTION - PROPOSED TANKS

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



DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



PLAN - PROPOSED TANKS

SCALE: 1/4" = 1'-0"

CIVIL ENGINEERING - REGISTRATION NUMBER: 10517
Perez Engineering & Development, Inc.
 Key West Office
 1050 E. 2nd Ave., Suite 1100
 Key West, FL 33401
 TEL: 305.241.1100
 FAX: 305.241.1101

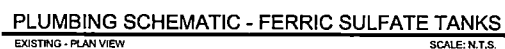
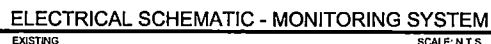
REYNOLDS
Reynolds Engineering Services, Inc.
 Key West Office
 1050 E. 2nd Ave., Suite 1100
 Key West, FL 33401
 TEL: 305.241.1100
 FAX: 305.241.1101

REVISIONS
 ORIGINAL
 1
 2
 3
 4
 5
 6

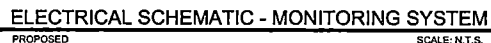
SULFATE TANK REPLACEMENT
 WASTEWATER TREATMENT PLANT
 TRUMBO POINT ANX
 KEY WEST, FL 33040

CITY OF KEY WEST
 UTILITIES DEPARTMENT
 1300 WHITE ST
 KEY WEST, FL 33040

JOB NO. 231018
 DRAWN JCH
 DESIGNED JCH
 CHECKED JCH
 SHEET S-1



- PLUMBING SCHEMATIC - FERRIC SULFATE TANKS**
PROPOSED - PLAN VIEW
SCALE: N.T.S.



LABLING PER PLAS-TANK PLANS (JOB NO 10517) SHOWN FOR
REFERENCE

JOB NO. 201016
DRAWN JDH
DESIGNED JDH
CHECKED JCR
SHEET **P-1**