UNIVERSAL ENVIRONMENTAL SOLUTIONS

Letter of Transmittal

Date: October 3, 2022

To: Mr. Bheem Kothur, P.E. Hazardous Waste Program and Permitting 2600 Blair Stone Road Tallahassee, FL 32399-2400	File: UES Solid Waste Management Facility Permit Application (Rev 2) Re: UES Solid Waste Management Facility Permit Application (SWPF) (Rev 2)

Enclosed please find:
_X_herewith ___under separate cover: ___drawings ___descriptive literature ___letters

If all information listed is not received, please contact us immediately.

Quantity	Title	Comments
1 PDF (Electronic) & 1 Hard Copy	UES Solid Waste Management Facility Permit Application to Construct & Operate UES, LLC– FLR00019980 Revision 2 September 2022	Y

*Comment letter code:
R-Reviewed **N**-Reviewed and Noted **I**-For your Information **Y**-For your approval

Please find attached the UES Solid Waste Management Facility Permit Application to Construct and Operate submission (Rev 2) for your review and approval.

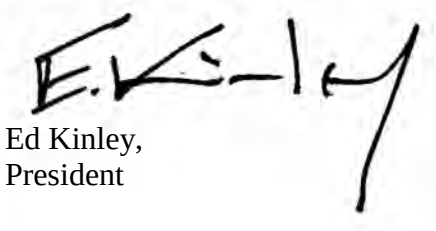
A revision 1 was submitted on June 1, 2020. A draft copy of the permit was received by UES on June 29, 2020. Since production of the draft permit the location of the facility within the property of the solid waste facility has changed and the storage facility was removed. The plant layout and design and operating procedures have some minor changes with the exception of traffic and evacuation patterns. This submission includes updated local building permit figures and all comments and revisions included in the June 29, 2020 draft permit.

The financial assurance documentation required under subsection 62-701.710(7), F.A.C. will be submitted upon acceptance of this permit application and prior to final agency issuance of permit.

Please contact me at 813-390-0659 if you have any questions or comments concerning this permit submission.

Very truly yours,

Universal Environmental Solutions, LLC



Ed Kinley,
President

P.O. Box 76105, Tampa, FL 33675 ~ Phone (813) 241-9206 ~ Fax (813) 241-9215

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(4), F.A.C.
Form Title: Application to Construct, Operate, or Modify a Waste Processing Facility
Effective Date: February 15, 2015
Incorporated in Rule: 62-701.710(2), F.A.C.

APPLICATION TO CONSTRUCT, OPERATE, OR MODIFY A WASTE PROCESSING FACILITY

GENERAL REQUIREMENT: Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes (F.S.) and in accordance with Florida Administrative Code (F.A.C.) Chapter 62-701. A permit application shall be submitted in accordance with the requirements of Rule 62-701.320(5)(a), F.A.C., to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with subsection 62-701.315(4), F.A.C., shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP). Complete appropriate sections for the type of facility for which application is made and include all additional information, drawings, and reports necessary to evaluate the facility.

Please Type or Print in Ink

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

☐ Transfer Station:

☐ C&D ☐ Class III ☐ Class I

☐ Other Describe: _____

☐ Materials Recovery Facility:

☐ C&D Recycling ☐ Class III MRF ☐ Class I MRF

☐ Other Describe: _____

■ Other Facility That Processes But Does Not Dispose Of Solid Waste On-Site:

☐ Storage, Processing or Disposal for Combustion Facilities (not addressed in another permit)

■ Other Describe: Collection, solidification and stabilization of Non-Hazardouse solid wastes & transfer to offsite codisposal.

NOTE: C&D Disposal facilities that also recycle C&D, shall apply on DEP FORM 62-701.900(6), F.A.C.

2. Type of application:

■ Construction/Operation

☐ Operation without Additional Construction

3. Classification of application:

■ New ☐ Substantial Modification

☐ Renewal ☐ Intermediate Modification

☐ Minor Modification

4. Facility name: UES Solid Waste Management Facility

5. DEP ID number: _____ County: Hil $borough

6. Facility location (main entrance): 1650 Hemlock Street Bldg #2 Tampa, FL 33605

7. Location coordinates:

Section: 19 Township: 29 Range: 19

Latitude: 27 °56 '64.1611" Longitude: 82 °26 '31.8552"

Datum: GPS Coordinate Method: Google Earth

Collected by: Jim Seavy Company/Affiliation: Seavy & Associates, Inc

8. Applicant name (operating authority): Universal Environmental Solutions, LLC

Mailing address: 1650 Hemlock Street (Street or P.O. Box) Tampa (City) FL (State) 33605 (Zip)

Contact person: Ed Kinley Telephone: (813) 241-9206

Title: President ekinley@uestampa.com (E-Mail address (if available))

9. Authorized agent/Consultant: Seavy & Associates, Inc.

Mailing address: 2608 South 86th St Ste E (Street or P.O. Box) Tampa (City) FL (State) 33619 (Zip)

Contact person: James Seavy Telephone: (813) 241-9206

Title: President nseavy@seavyassociates.com (E-Mail address (if available))

10. Landowner (if different than applicant): HENDRY HOLDINGS, LL C

Mailing address: 1800 GRANT STREET (Street or P.O. Box) TAMPA (City) FLA. (State) 33605 (Zip)

Contact person: DENNIS MANELLI Telephone: (813) 247-3156

dmanelli@hendrymarine.com (E-Mail address (if available))

11. Cities, towns and areas to be served: Florida

12. Date site will be ready to be inspected for completion: 01/01/2023

13. Estimated costs:

Total Construction: $ 638,711.34 $ 33,271

14. Anticipated construction starting and comple

From: 11/01/22 To: 01/31/23

15. Expected volume of waste to be received: 30.8 yds³/day 50.44 tons/day

16. Provide a brief description of the operations planned for this facility: Collection of non-hazardous solid and sludge waste from petroleum and non-petroleum impacted non-hazardous solid waste streams. Solid wastes will be stabilized and solidified onsite and transfer as codisposed solid wastes to approved landfill. for disposal offsite. Solid wastes and sludges will be co-mingled and dried by mixing with sawdust for solidification and lime for stabilization, containerized and disposed.

B. ADDITIONAL INFORMATION

Please attach the following reports or documentation as required.

1. Provide a description of the operation of the facility that shall include (62-701.710(2)(a), F.A.C.):
   a. The types of materials, i.e., wastes, recyclable materials or recovered materials, to be managed or processed;
   b. The expected daily average and maximum weights or volumes of materials to be managed or processed;
   c. How the materials will be managed or processed;
   d. How the materials will flow through the facility including locations of the loading, unloading, sorting, processing and storage areas;
   e. The types of equipment that will be used;
   f. The maximum time materials will be stored at the facility;
   g. The maximum amounts of wastes, recyclable materials, and recovered materials that will be stored at the facility at any one time; and
   h. The expected disposition of materials after leaving the facility.

2. Attach a site plan, signed and sealed by a professional engineer registered under Chapter 471, F.S., with a scale not greater than 200 feet to the inch, which shows the facility location, total acreage of the site, and any other relevant features such as water bodies or wetlands on or within 200 feet of the site, potable water wells on or within 500 feet of the site (62-701.710(2)(b), F.A.C.).

3. Provide a boundary survey and legal description of the property (62-701.710(2)(c), F.A.C.).

4. Provide a construction plan, including engineering calculations, that describes how the applicant will comply with the design requirements of subsection 62-701.710(3), F.A.C. (62-701.710(2)(d), F.A.C.).

5. Provide an operation plan that describes how the applicant will comply with subsection 62-701.710(4), F.A.C. and the recordkeeping requirements of subsection 62-701.710(8), F.A.C. (62-701.710(2)(e), F.A.C.).

6. Provide a closure plan that describes how the applicant will comply with subsection 62-701.710(6), F.A.C. (62-701.710(2)(f), F.A.C.).

7. Provide a contingency plan that describes how the applicant will comply with subsection 62-701.320(16), F.A.C. (62-701.710(2)(g), F.A.C.).

8. Unless exempted by subparagraph 62-701.710(1)(d)1., F.A.C., provide the financial assurance documentation required by subsection 62-701.710(7), F.A.C. (62-701.710(2)(h), F.A.C.).

9. Provide a history and description of any enforcement actions by the applicant described in subsection 62-701.320(3), F.A.C. relating to solid waste management facilities in Florida. (62-701.710(2), F.A.C. and 62-701.320(7)(i), F.A.C.)

10. Provide documentation that the applicant either owns the property or has legal authorization from the property owner to use the site for a waste processing facility (62-701.710(2), F.A.C. and 62-701.320(7)(g), F.A.C.)

C. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Universal Environmental Solutions, LLC is aware that statements made in this form and attached information are an application for a Solid Waste Management Facility Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

[illegible]
Signature of Applicant or Agent

Ed Kinley
Name and Title (please type)

ekinley@uestampa
E-Mail address (if available)

P.O. Box 76015
Mailing Address

Tampa, FL 33675
City, State, Zip Code

(813) 241-9206
Telephone Number

09/26/2022
Date

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this waste processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

MICHAEL KEITH COATS LICENSE 48917 STATE OF FLORIDA PROFESSIONAL ENGINEER

[illegible]
Signature

Keith Coats, P.E.
Name and Title (please type)

48917
Florida Registration Number
(please affix seal)

7220 Alafia Ridge Loop
Mailing Address

Riverview, FL 33569
City, State, Zip Code

kcoats@acgtampa.com
E-Mail address (if available)

(813) 917-9267
Telephone Number

04/29/2020
Date

ITEM 10. PROPERTY OWNERSHIP AUTHORIZATION NEXT 5 PAGES

1800 Grant Street
Tampa, Florida 33605
Ph: (813) 247-3153
Fax: (813) 319-3567

HENDRY HOLDINGS, LLC
PORT HENDRY, LLC

January 4, 2019

Mr. Bheem Kothur
F.D.E.P.
2600 Blair Stone Road
Tallahassee, FL. 32399

Re: Universal Environmental Solutions (FLR 000 199 802)

Dear Mr. Kothur,

Please be advised that Port Hendry, LLC is the owner of a 30 plus acre facility at 1650 Hemlock Street, Tampa, Florida 33605 (the "**Property**"). Hendry Holdings, LLC is the parent company of Port Hendry, LLC.

Further, please be advised that Mr. Ed Kinley, President of Universal Environmental Solutions, LLC, is authorized to represent Port Hendry, LLC in all matters as they relate to the Used Oil Recovery and Pre-treatment wastewater facility on the Property. Mr. Kinley serves as Port Hendry's authorized agent for all matters related to this operation on the Property.

For your information, we have attached a deed vesting Port Hendry, LLC with title to the Property.

Respectfully Submitted,

Port Hendry, LLC
By: Dennis E Manelli
Dennis E. Manelli
Vice President

Hendry Holdings, LLC
Sole Member of Port Hendry, LLC
By: Dennis Manelli
Dennis E. Manelli
Vice President

4

INSTRUMENT#: 2015077677, O BK 23114
PG 1838-1841 02/27/2015 at 04:36:54 PM, DOC
TAX PD(F.S.201.02) $0.70 DEPUTY CLERK:
MTERRELL Pat Frank, Clerk of the Circuit
Court Hillsborough County

Prepared by and return to:
Ellen M. Macfarlane
Macfarlane Ferguson & McMullen
P.O. Box 1531
Tampa, FL 33602
This deed was prepared without
benefit of a title search.

Folio Number: 198755-1100
Consideration: $10.00
Doc Stamps $0.70

3550
.70 DS
$4.20

SPECIAL WARRANTY DEED

THIS INDENTURE, made this 27th day of January, 2015, between HENDRY CORPORATION, a Florida corporation ("**Grantor**"), whose mailing address is 1800 Grant Street, Tampa, Florida 33605, and PORT HENDRY, LLC, a Florida limited liability company ("**Grantee**"), whose mailing address is 1800 Grant Street, Tampa, Florida 33605.

WITNESSETH:

Grantor, for and in consideration of the sum of Ten and No/100 Dollars ($10.00), to it in hand paid, the receipt whereof is hereby acknowledged, has granted, bargained, sold and transferred and by these presents does grant, bargain, sell and transfer unto Grantee and its heirs, successors and assigns forever, all that certain real property in the County of **Hillsborough** and State of Florida, including all appurtenances thereto (the "**Property**"), more particularly described as follows:

See Exhibit A attached hereto and incorporated herein.

TOGETHER WITH all the tenements, hereditaments and appurtenances, with every privilege, right, title, interest and estate, dower and right of dower, reversion, remainder and easement thereto belonging or in anywise appertaining: TO HAVE AND TO HOLD the same in fee simple forever.

And Grantor covenants with Grantee that the Property is free from all encumbrances except the following: (i) the lien of all taxes and assessments for the year 2014 and subsequent years, and (ii) all easements, liens, encumbrances, covenants, conditions, restrictions, reservations and limitations of record, if any, and that Grantor does hereby warrant the title to the Property, and will defend the same, against the lawful claims of all persons claiming by, through or under Grantor, but against none other.

WITNESS the execution hereof as of the date first written above.

Signed in the presence of:

TAYLOR RUSSO
(printed name of witness)

LORIE A. BROWNSON
(printed name of witness)

HENDRY CORPORATION,
a Florida corporation

By: _____
Aaron W. Hendry, President

STATE OF FLORIDA
COUNTY OF HILLSBOROUGH

The foregoing instrument was acknowledged before me this 27th day of JANUARY, 2015 by Aaron W. Hendry, as President of Hendry Corporation, on behalf of the corporation, who is personally known to me or who has produced _____ as identification.

Notary Public State of Florida
Lorie A Brownson
My Commission EE 868116
Expires 01/26/2017

Notary Public
Printed Name: LORIE A. BROWNSON
My Commission Expires: EE 868116
Commission No. 1/26/17

Exhibit A

LEGAL DESCRIPTION OF THE PROPERTY BEING CONVEYED

A parcel of land in the Southeast 1/4, of Section 19, Township 29 South, Range 19 East, Hillsborough County, Florida. Said parcel of land also being part of Government Lot 5 and is more particularly described as follows:

Commencing at the Southeast corner of said Section 19; thence along the South line of said Section 19, North 89°26'25" West, 2003.04 feet to the Point of Beginning of the herein described parcel; thence continuing along said South section line, North 89°26'25" West, 1060.04 feet to a point on the Easterly pierhead and bulkhead line of the Sparkman Channel as shown on U.S. Army Corps. of Engineers Drawing of U.S. Harbor Lines, file #45-20641, dated June 1952; thence departing said South section line and along said Easterly pierhead and bulkhead line, North 20°49'13" East, 741.42 feet; thence departing said Easterly pierhead and bulkhead line, South 89°26'25" East, 964.30 feet; thence North 00°12'25" West, 664.18 feet to the South line of Tampa Electric Company Ingress-Egress Easement as recorded in the Official Records of Hillsborough County, Florida in Book 7718, Page 1129; thence along the South line of said Easement South 89°26'25" East, 517.22 feet; thence North 64°01'30" East, 111.92 feet to the North line of the South 1/2 of Government Lot 5; thence departing said South Easement line and along the North line of Government Lot 5, South 89°26'25" East, 45.00 feet to a point on the West railroad right of way, which is 30.00 feet West of the centerline of existing railroad tracks as located on March 17, 2004; thence departing the North line of the South 1/2 of Government Lot 5 and along said West railroad right of way, South 00°09'36" East, 954.80 feet to the beginning of a non-tangent curve, concave Southeasterly, and the Northwesterly railroad right of way, which is 10.00 feet Northwesterly of the centerline of existing railroad tracks as located on March 17, 2004; thence departing said Westerly railroad right of way and along said Northwesterly railroad right of way, 145.47 feet along the arc of said non-tangent curve, having a radius of 577.64 feet, a central angle of 14°25'46" and a chord bearing and distance of South 20°37'59" West 145.09 feet; thence departing said Northwesterly railroad right of way, North 89°03'38" West, 456.60 feet; thence North 30°31'48" West, 38.10 feet; thence North 89°26'25" West, 300.66 feet; thence South 00°33'35" West, 334.31 feet to the Point of Beginning.

TOGETHER WITH:
1. Ingress/egress easement created under Grant of Non-Exclusive Ingress-Egress Easement dated March 30, 2005, and recorded in Official Records Book 14912, Page 558, of the Public Records for Hillsborough County, Florida on April 21, 2005, as amended by Amended and Restated Grant of Non-Exclusive Ingress-Egress Easement recorded in Book 21902, Page 197. ("Easement Parcel #1").

2. Ingress/egress easement created under Fee Simple Deed With Reservations and Grant of Easement dated March 17, 1995, and recorded in Official Records Book 7718, Page 1129, of the Public Records of Hillsborough County, Florida reserving however unto the Grantor in common with the Grantee a non-exclusive right of use thereof. ("Easement Parcel #2").

3. Perpetual, non-exclusive utility easement created under Grant of Non-exclusive Utility Easement dated May 24, 2013, recorded in Official Records Book 21902, Page 208, Public records of Hillsborough County, Florida. ("Easement Parcel #3").

More particularly described as follows:

ALL MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A parcel of land lying in Government 5, SECTION 19, TOWNSHIP 29 SOUTH, RANGE 19 EAST, Hillsborough County, Florida.

Commencing at the Southeast corner of said Section 19; thence North 89°26'25" West along the South boundary of said Section 19, a distance of 2003.04 feet to an Iron Rod 5/8" capped LB4636 for the Point of Beginning; thence continuing North 89°26'25" West along said South boundary of said Section 19 a distance of 1060.04 feet to a point on the Easterly pierhead and bulkhead line of Sparkman Channel as shown on U.S. Army Corps. of Engineers Drawing of U.S. Harbor Lines, File #45-20641, dated June 1952; thence North 20°49'13" East along said Easterly pierhead and bulkhead line a distance of 741.42 feet to a point in Southslip Channel; thence South 89°29'03" East near the center of said Southslip Channel a distance of 963.86 feet to a 2 inch pinched Iron Pipe; thence North 00°09'36" West, a distance of 643.66 feet calculated, 643.70 feet old descriptions and old maps, to a point 50.00 feet South of the North boundary of said Government Lot 5, Section 19, said point also being on the South boundary of Tampa Electric Company Ingress-Egress Easement as recorded in the Official Records for Hillsborough County, Florida in Book 7718, Page 1129; thence South 89°25'06" East, Deed Call in said Book 7718, Page 1129, South 89°26'25" East, Deed Call in Book 14912, Page 551 along the South boundary of said Easement, a distance of 517.22 feet; thence North 64°01'00" East, a distance of 111.80 feet to the North boundary of said Government Lot 5, Section 19; thence South 89°26'25" East Deed Call in Book 14912, Page 551, South 89°25'06" East, Deed Call in said Book 7718, Page 1129 along the North boundary of Government Lot 5 in said Section 19, a distance of 45.00 feet to a point on the West railroad right of way, which is 30.00 feet West of the centerline of existing railroad tracks as located on March 17, 2004; thence South 00°09'36" East along said West right of way a distance of 954.80 feet to a point of curve of a non-tangent curve, thence along a curve to the right, said curve being on the Westerly railroad spur right of way, which is 10.00 feet Northwesterly of the centerline of existing railroad tracks as located on March 17, 2004, an arc distance of 145.47 feet, having a radius of 577.64 feet, a central angle of 14°25'46" and a chord bearing of South 20°37'59" West and a chord distance of 145.09 feet; thence North 89°03'38" West, 456.60 feet; thence North 30°31'48" West, 38.10 feet; thence North 89°26'25" West, 300.66 feet; thence South 00°33'35" West, 334.31 feet to the Point of Beginning.

TOGETHER WITH :
1. Ingress/egress easement created under Grant of Non-Exclusive Ingress-Egress Easement dated March 30, 2005, and recorded in Official Records Book 14912, Page 558, of the Public Records for Hillsborough County, Florida on April 21, 2005, as amended by Amended and Restated Grant of Non-Exclusive Ingress-Egress Easement record in Book 21902, Page 197. ("Easement Parcel #1").

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3. Perpetual, non-exclusive utility easement created under Grant of Non-exclusive Utility Easement dated May 24, 2013, recorded in Official Records Book 21902, Page 208, Public records of Hillsborough County, Florida. ("Easement Parcel #3").

ATTACHMENT 1 – PERMIT ATTACHMENT STRUCTURE & FACILITY'S DETAILED SOLID WASTE MANAGEMENT DESCRIPTION

1.0 UES UES SOLID WASTE MANAGEMENT FACILITY PERMIT SUBMISSION ATTACHMENT STRUCTURE

The attachments contained in this permit submission package are to be utilized as one document designed to meet the requirements for construction and operation of the Solid Waste Management Facility. This application includes attachments consisting of UES's solid waste process equipment, operators, owners, best management practices, structures, contingency plan, closure plan, financial assurance, and historical enforcement data. The following Attachments are included in the submission:

1.1 DETAILED FACILITY PROCESS FIGURES

The following scaled figures and site photos depict the site location; survey data; past, present and future property usage, areas of material and waste receiving, storage and processing areas; waste management structures, well survey results, and traffic flow.

1.1.0 USGS Site Information and 100 Year Flood Plane Map - The USGS map depicts the site location and 2000-foot radius. General Notes include UTM, site coordinates, neighborhood name, elevation data and plat

map data. The Palmetto Beach neighborhood is located approximately 2,000 feet to the east of the facility and the Sparkman Channel is located approximately 800 feet to the west.

1.1.1 Site Location and Survey Map – The Site Location Figure depicts the site area including the solid waste processing building (SWPB) and and area of extents, and acreage estimates. Surveyor's contour data is included in this figure.

1.1.2 & 1.1.3 Site Plan – The site details location of buildings and structures onsite. Process Flow information is detailed in **Section 3.5.** that details process flow figure and depicts waste management area, solid waste unit designators, dimensioned containment areas, processing and solidification pit labels and sizes, fencing, fence gate, and equipment identifiers. Figure 1.1.3 details potable water supplies near the facility

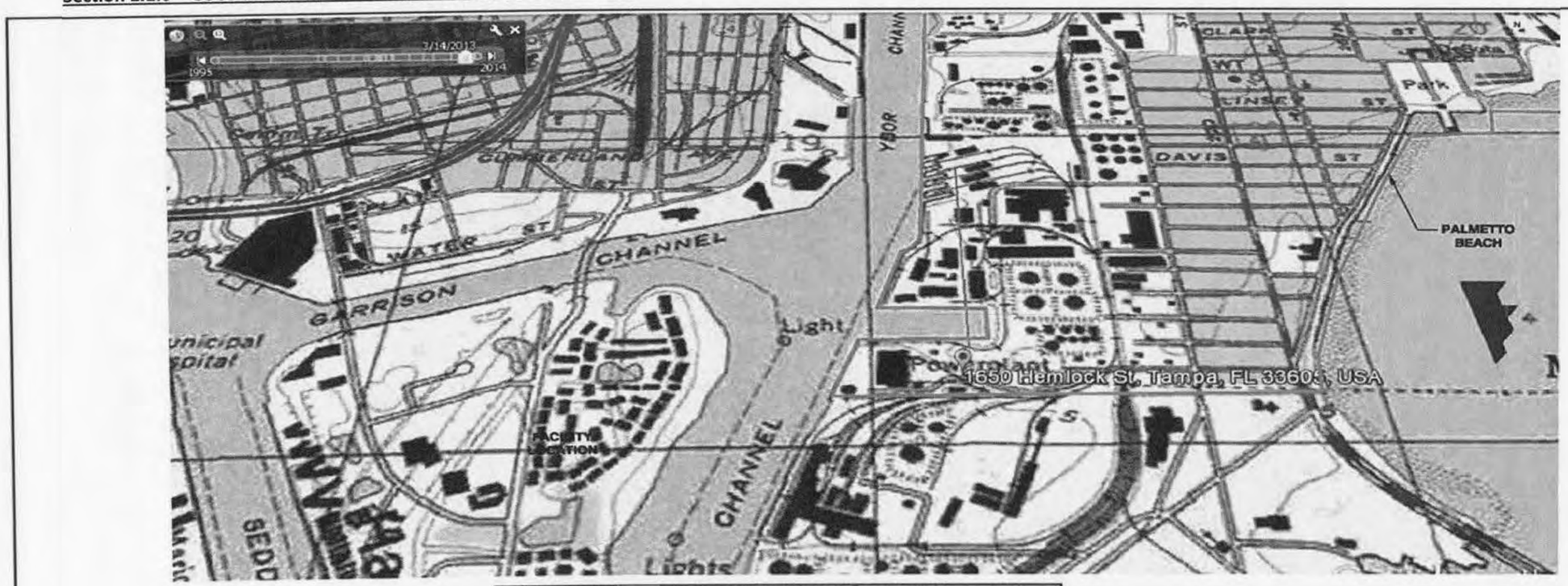
1.2 Aerial Photos 2002, 2012 and 2017

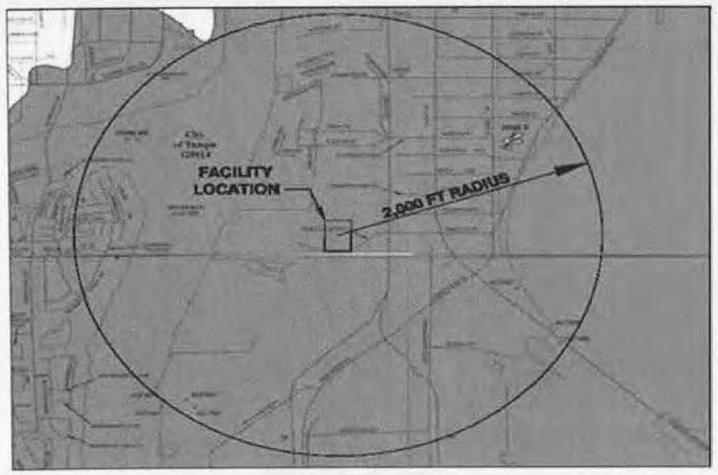
Aerial photos taken from 2002, 2012 and 2017 depict the sites transition from a TECO power plant into a support area for shipbuilding and maintenance activities. The 2017 aerial photo shows the completed used oil processing plant and details site features. **Sections 1.2.0, Section 1.2.1 and Section 1.2.2** depict the aerials.

1.3 PERMIT REFERENCE FIGURES AND MAPS

The Following site plan and maps are included to detail information in Attachment 1 through 11. Emergency evacuation routes and meeting places as well as the location emergency safety and spill equipment is included in **Section 1.3.0**. Incoming and outgoing material and waste trucking traffic pattern are in **Section 1.3.1.**

Section 1.1.0 - USGS Site Information and 100 Year Flood Plane Map





100 YEAR PLAIN AREA
HILLSBOROUGH COUNTY, AUGUST 28, 2008
MAP NO. 12057C0364H, MAP NO. 12057C0365H
MAP NO. 12057C0362H, MAP NO. 12057C0366H

GENERAL NOTES:

1. PALMETTO BEACH
2. 27.93855°N - 82.44129°E
3. ELEVATION = 1.3M
4. SECTION 19, TOWNSHIP 29 SOUTH, RANGE 19 EAST.
5. UTM # 17/358200/3091231.

SEAVY & ASSOCIATES, INC.
2808 South 89th Street, Suite B
Tampa, FL 33619

USGS SITE INFORMATION AND 100 YEAR FLOOD PLAIN MAP

UES OIL PROCESSING PERMIT APPLICATION REVISION 0

TRENDORY CORPORATION
1650 HEMLOCK STREET
TAMPA, FL 33605

MICHAEL KEITH COATES
LICENSE
No. 49512
STATE OF FLORIDA
PROFESSIONAL ENGINEER

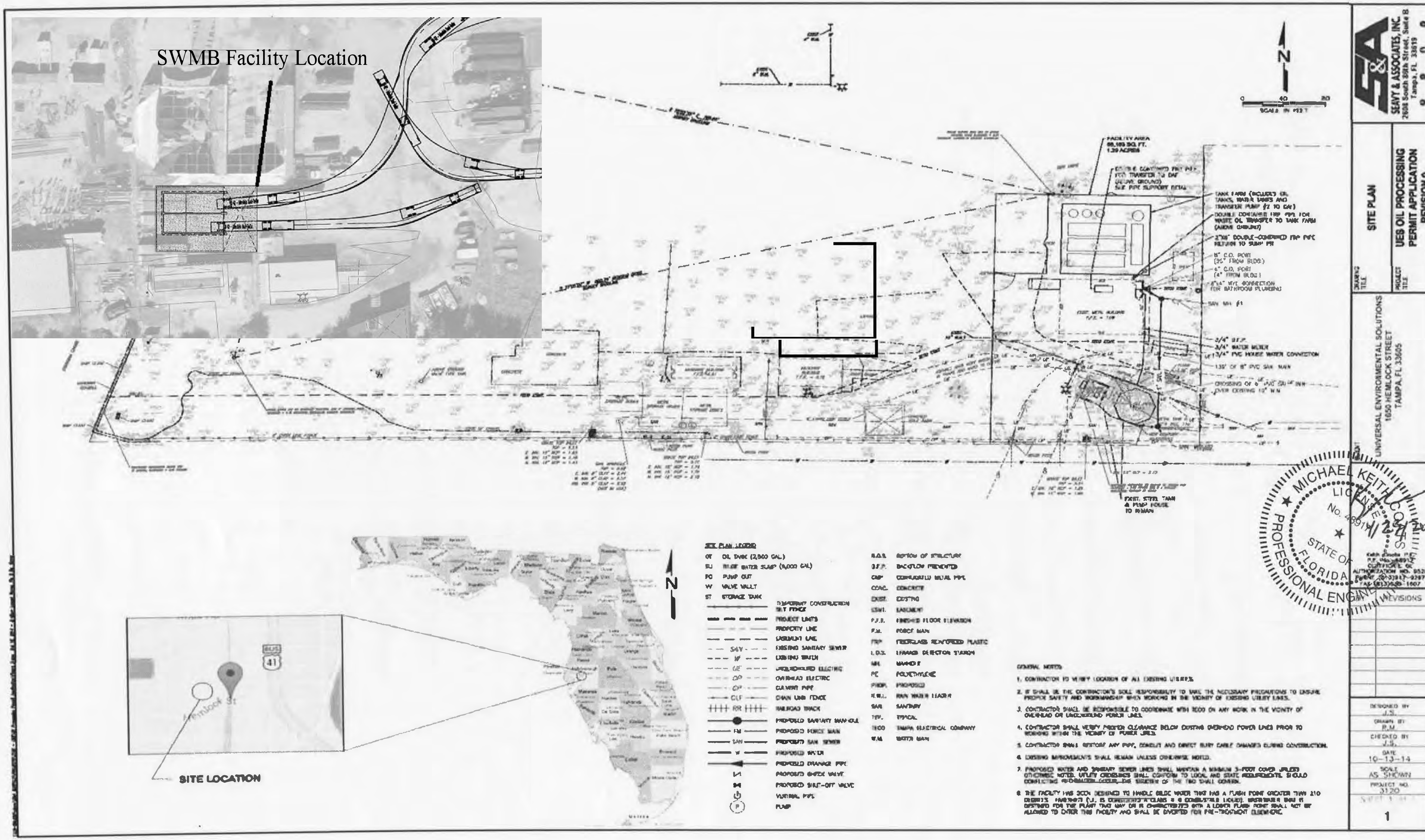
4/28/2020

BY	REVISIONS

DESIGNED BY J.S.
DRAWN BY R.M.
CHECKED BY J.S.
DATE 10-13-14
SCALE AS SHOWN
PROJECT NO. 1120
SHEET 1 of 3

1

Section 1.1.1 - Site Location and Survey Map

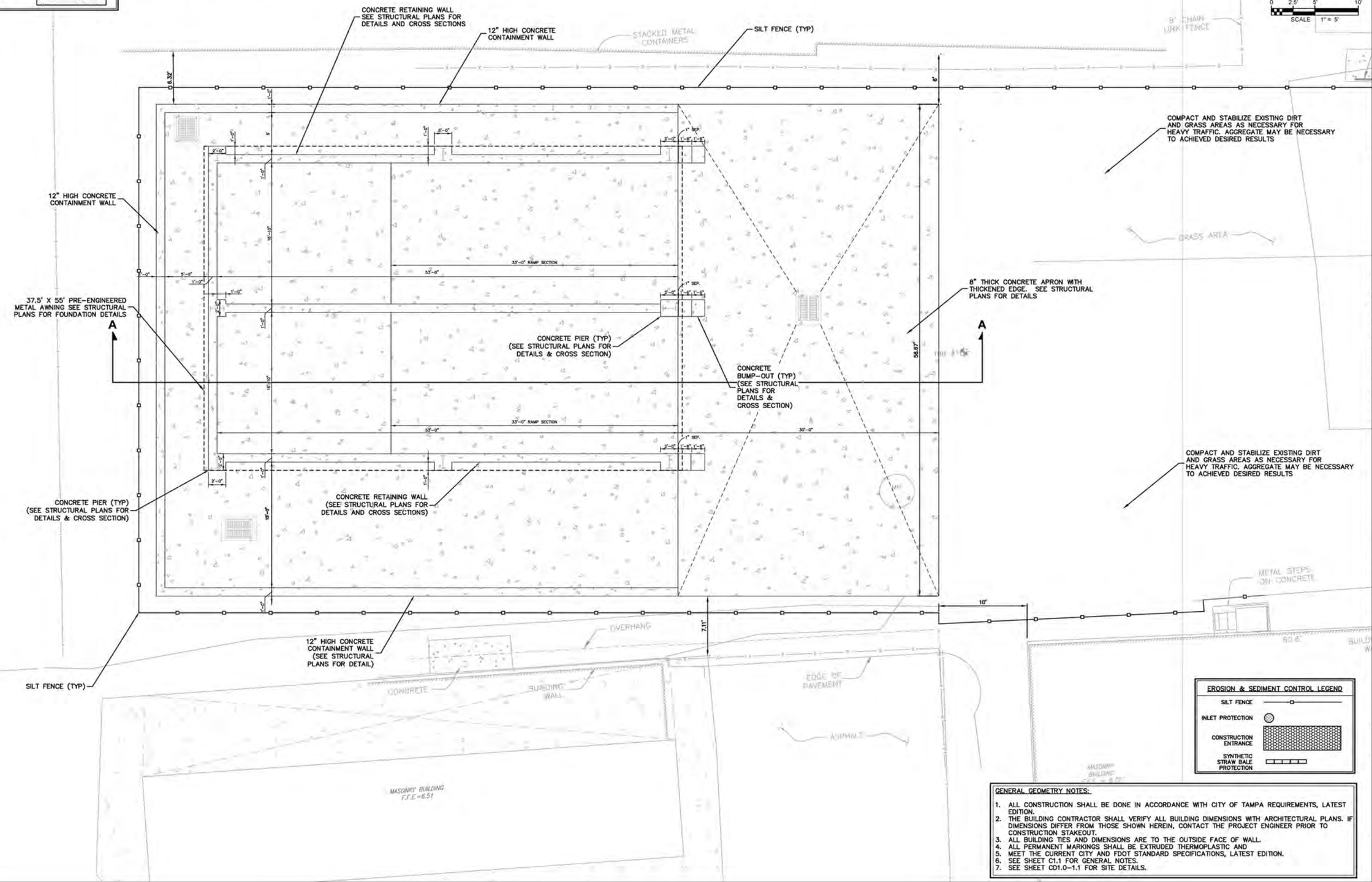


Section 1.1.2 Site Plan -Construction

SITE LEGEND
RETAINING WALL
PROPERTY LINE
FENCE (CHAINLINK)
FENCE (WOODEN)
BRL
EASEMENT
CONCRETE

SITE DEVELOPMENT SUMMARY:
REAL ESTATE No (RE#): 198755.1100
SITE AREA = 31.91 ACRES
DEVELOPMENT AREA = 0.25 ACRES
ZONING = IH
FLOOD = 12057 C0354 (AE)

0 2.5' 5' 10'
SCALE 1" = 5'



EROSION & SEDIMENT CONTROL LEGEND
SILT FENCE
INLET PROTECTION
CONSTRUCTION ENTRANCE
SYNTHETIC STRAW BALE PROTECTION

GENERAL GEOMETRY NOTES:

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH CITY OF TAMPA REQUIREMENTS, LATEST EDITION.
2. THE BUILDING CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS. IF DIMENSIONS DIFFER FROM THOSE SHOWN HEREIN, CONTACT THE PROJECT ENGINEER PRIOR TO CONSTRUCTION STAKEOUT.
3. ALL BUILDING TIES AND DIMENSIONS ARE TO THE OUTSIDE FACE OF WALL.
4. ALL PERMANENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND
5. MEET THE CURRENT CITY AND FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
6. SEE SHEET C1.1 FOR GENERAL NOTES.
7. SEE SHEET CD1.0--1.1 FOR SITE DETAILS.

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
2	4-22-22	PERMIT
-	-	-
-	-	-
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-	-	-
-	-	-

SOLIDIFICATION FACILITY
UNIVERSAL ENVIRONMENTAL SOLUTIONS
1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name
Site Layout and Erosion & Sediment Control Plan

Sheet Number
C3.01

Well Construction Permits

Southwest Florida Water Management District

Legend

Institutional Control Registry (ICR) Areas

Institutional Control Registry (ICR) Areas

Locations

Well Construction Permits

Ch. 62-524, F.A.C., Delineated Areas

Tools

Basemaps

About

used as the location. These sites date back to approximately 1979-1980 with location reliability being strong after January 2007. Prior to January 2007, the previously mentioned methodology was used to place the well sites. Furthermore, the well construction permit requirement for wells under 4 inches was enforced in

N

Section 1.2.0 Aerial Site Photo Maps 2002

Section 1.2.1 Aerial Site Photo Maps 2012

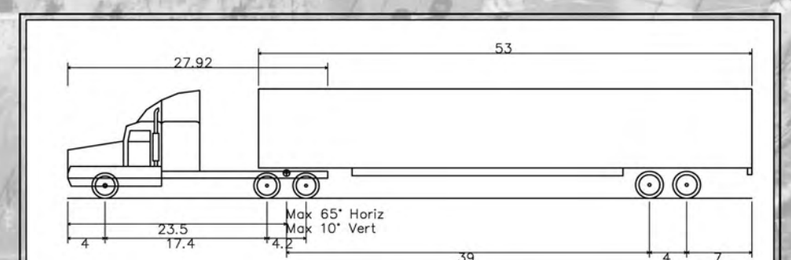
0' 75' 150'

0' 75' 150'

N

Section 1.2.0 Aerial Site Photo Maps 2014

SCALE: 1" = 40'-0"
0 20' 40' 80'



WB–62 – Interstate Semi–Trailer

Overall Length	73.500ft
Overall Width	8.500ft
Overall Body Height	12.052ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock–to–lock time	6.00s
Curb to Curb Turning Radius	45.000ft

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-	-	-
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SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

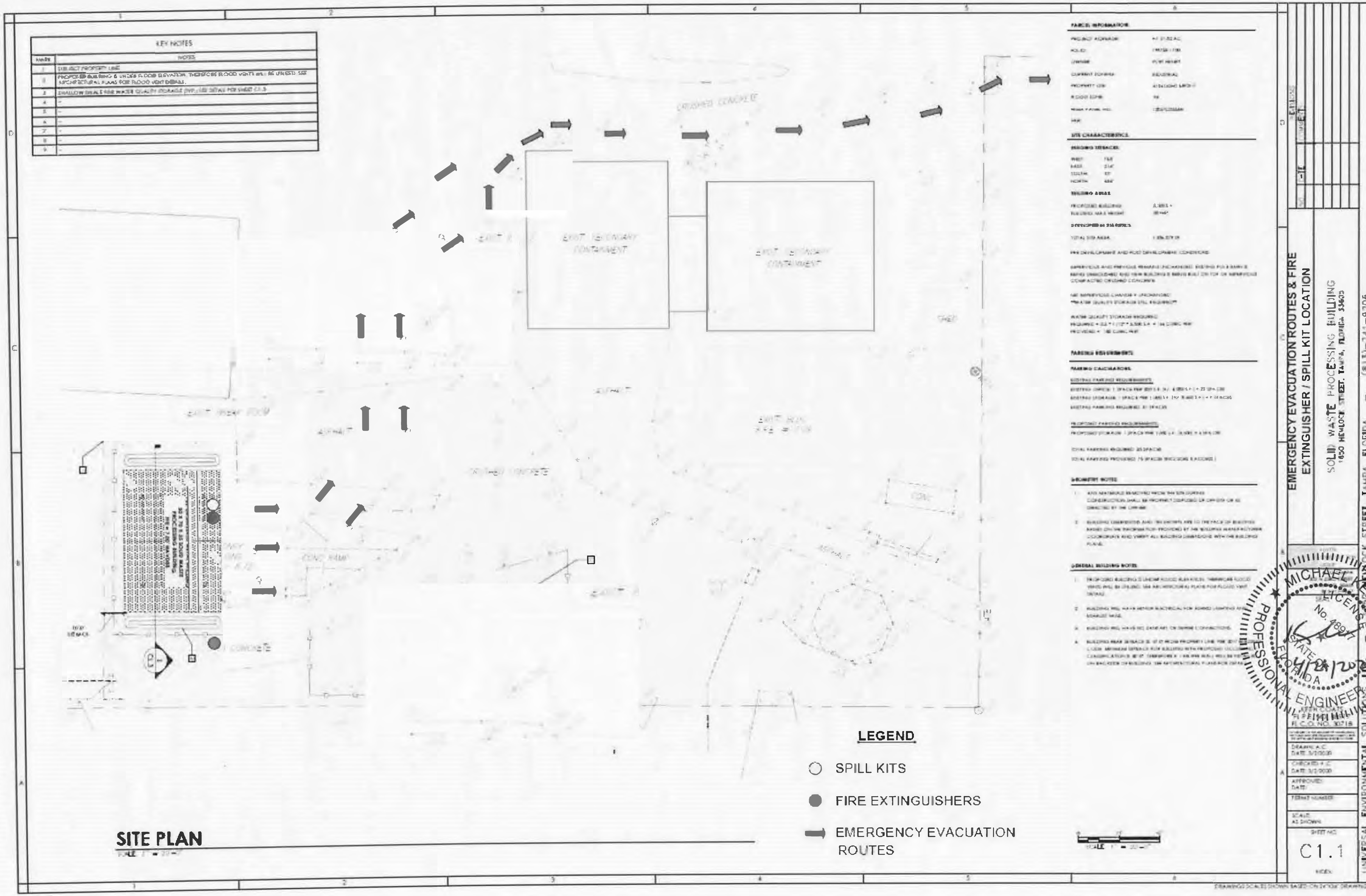
1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name
Truck Routing Plan

Sheet Number
C4.01

Section 1.3.0 Emergency Evacuation Route and Emergency Spill Kit / Fire Extinguisher Locations



ATTACHMENT 2 – FACILITY DESCRIPTION, ENFORCEMENT HISTORY AND SOLID WASTE MANAGEMENT STREAMS

2.0 Facility Description and Enforcement History

Universal Environmental Solutions, LLC (UES) is located in the Port of Tampa and its primary operation will be servicing the local shipyards. UES has completed construction and is presently operating its used oil processing pre-treatment facility at this site location. The used oil processing plant is designed to pre-treat various waste streams created from area shipyards. Non-hazardous waste streams only include: (but are not limited to): cleaning and maintenance processes, environmental sampling and disposal activities, spill cleanup, industrial process water separation systems, tank bottoms from cleaning and contaminated storm water. All used oil waste is non hazardous prior to treatment. Residual solid waste derived from the processing of bilge oily water and PCW at the used oil processing plant is disposed offsite.

The used oil processing plant was assigned USEPA ID FLR000199802. This facility was issued a Used Oil Processing Facility permit by FDEP in 2015 and was issued a permit renewal in 2019. This facility is FDEP permitted as a used oil Certified Transporter and Processor. UES has been inspected by FDEP between 2014 and 2020. The following is a summary of the violation history:

Date Determined	Inspector	Regulation	Violation	Completed Date
8/12/14	E. Knauss	62-710.800	Permit	1/8/15
8/12/14	E. Knauss	62-621.100	NPDES – Storm water	2/6/15
8/12/14	E. Knauss	62-710.410(6)	Labeling and tank condition	1/28/15
7/22/16	K. Honey	62-710.410(6)	Labeling and tank condition	7/22/16
3/21/18	E. Knauss	62-762.401	Tank registration	10/18/18
9/24/18	E. Knauss	279.54(f)(1)	Labeling	10/18/18
9/24/18	E. Knauss	62-710.800(3)	No permit modification	10/18/18
9/24/18	E. Knauss	279.52(b)(4)(iii)-	Outdated continqencv plan	10/18/18
9/24/18	E. Knauss	279.57(a)(2)(i)-	Incomplete haloqen check records	10/18/18
9/24/18	E. Knauss	279.54(c)	No secondary containment	10/18/18

Each violation was promptly addressed and corrected. These corrections remain in place and the established inspection program maintains compliance with FDEP issued Used Oil Processing Facility permit.

UES is submitting this solid waste permit application to operate a Solid Waste Management Facility (SWMF) as a separate permitted facility to the used oil processing facility. The SWMF is designed to manage and process non-Hazardous Petroleum Impacted Solid Waste (PISW) and commercial, degradeable and industrial classified solid wastes and sludges. Section 2.1 details the types of proposed solid wastes the facility will manage and process. Attachment 6 describes the processes utilized by the facility operator to prevent entry of hazardous wastes into the facility. The SWMF operation will have one Facility Operator, and one Facility Technician. SWMF operations are Monday - Friday (0730 -1600 hours).

2.1 Accepted Non-hazardous Solid Waste Streams

Below is a list of anticipated non-hazardous Class I and special wastes solid waste streams that the SWMF facility system has been designed to process :

2.1.1 Petroleum Contaminated Debris – created by solid material (i.e., PPE, sorbent pads, rags, disposable equipment, etc.) in contact with petroleum during normal petroleum management operations.

2.1.2 Drained/Crushed Oil Filters - resulting from used oil filters generated at industrial petroleum operations.

2.1.3 Diesel Tank Bottoms - resulting from diesel tank cleaning at industrial petroleum facilities

2.1.4 #6 Oil Tank Bottoms - resulting from oil tank cleaning at industrial petroleum facilities

2.1.5 Oil Spill Cleanup – oil spills at industrial facilities generate disposable equipment (i.e., PPE, sorbent booms/pads, hoses, etc.) and petroleum contaminated soil/debris

2.1.6 Grease & Lubricants – cleaning/purging of the cargo pipelines/tanks of vessels transporting petroleum products, industrial petroleum operational waste and equipment maintenance waste.

2.1.7 Expired/Out of Date Inventory – Industrial petroleum operational materials that have exceeded their shelf life.

2.1.8 Investigative Derived Waste – Petroleum spill sites that have impacted soil and/ or groundwater are investigated by soil and groundwater sampling/drilling/boring which generates soil cuttings, petroleum contaminated equipment, and decontamination waste materials.

2.1.9 Petroleum Solid Waste - Commercially generated waste from used oil processing and includes (but not limited to): filter residues or sludges, bottom sediments, tank bottoms, and sorbents which have been contaminated by used oil.

2.1.10 Domestic Solid Waste - Domestic Wastewater sand, grit from cleaning and servicing domestic wastewater derived solid waste.

2.1.11 Commercial Solid Wastes - Commercially generated solids wastes including expired and tainted foods and flavorings.

2.1.12 Investigative Derived Waste - Including non-hazardous drilling muds, drilling purge waters and sludges and soils.

2.1.13 Shipyard Waste - Rust scale, non-hazardous paint chips and oily debris from vessel repair and dry dock maintenance activities

2.2 Solid Waste Management Unit Designation

The solid waste management and processing facility consists of one unit management designator. The designator was developed to describe distinct solid waste process and treatment locations. The designators will be used in the attachments contained within this permit submission. The unit designator is Solid Waste Processing Facility (**SWPF**) shown in **Section 1.2.2**.

2.2.1 Solid Waste Processing Facility

The SWMF contained concrete pad design consists of a 84' x 58.67' x 1' thick concrete pad with a 1' x 1' concrete containment curb and sloped concrete entry way that rises 1" above the interior finished grade concrete. The two 18-8"' x 14' x 4' pits are installed to accommodate solid waste solidification processing and the base of the pit will be sloped to one end for leachate fluid collection. A 38' x 55' x 26' steel building will cover the two processing pits. The main entry point on the east side of the steel building will consist of a 30' x 58.67' x 1' sloped concrete ramp that will match the 1' containment curbing at the edge of the concrete pad and a 4' x 58.67 'x 6" sloped concrete ramp that will enter into the facility to maintain stormwater and debris containment within the interior of the pad. The steel building roof that covers the concrete containment will be sloped to the west. A sub-grade stormwater collection and storage system is installed sub-grade to collect and maintain stormwater and leachate that collects on the pad. The stormwater collection and storage system consists of 3 inlet grates and collection boxes and sub=grade concrete piping.

A drum/tote storage area and solidification roll-off area is located on containment pad on the east side of the building and will be able to store up to 70 - 55 gallon drums (19 cu yds) or 17 - 225 gallon totes (19 cu yds) for a total of 50.0 tons. The 20 CY roll off box will be positioned in this area to facilitate drop off and removal by roll-off truck. Specifics of the processes are included in **Attachment 3** and design specifics are included in **Attachment 7,**

2.3 Facility Non-hazardous Waste Disposal/Recycling Processes

The treatment of solid wastes results in several waste streams that require disposal or recycling. The following list details non-hazardous waste streams that require disposal/recycling.

2.3.1 Processed Solid Wastes – Solid waste mixed and solidified in the soilification pit will be removed and placed into a roll-off box, manifested and taken offsite for disposal at a FDEP permitted Class 1 Subtitle D landfill. It is estimated that operations will produce 300-350 tons per month. Specific details describing disposal of the following non-hazardous waste streams created by the solid waste processing facility activities at the used oil processing plant are provided in **Section 5**.

2.3.2 Crushed Drums – Drums that are dumped in the processing pit at the facility will be pressure washed and cleaned over the processing pit. Drums deemed reusable will be stored in the drum/ tote storage area. Drums deemed unusable and will be crushed and taken to the metals recycle roll-off located at the used oil processing facility located onsite.

2.3.3 Used/Recycled Oils – Used oils that are separated in the processing pit from the solid waste will be collected in a vacuum truck when observed and sent to the UES used oil processing facility located onsite.

2.3.4 Petroleum Contact Water – PCW generated from the solid waste processing and drum decontamination and washdown activities will be collected in the processing pit. Decontamination activities include high pressure water cleaning of drums, totes and building flooring. Leachate will be removed by vacuum truck and processed through the used oil processing facility located onsite. Stormwater collected and stored in the sub-grade piping and grate boxes will be removed by vacuum truck and processed through the used oil facility onsite.

ATTACHMENT 3- DETAILED SOLID WASTE PROCESS FLOW DESCRIPTION

3.0 DETAILED DESCRIPTION

The following SWMF detailed description should be used in conjunction with details provided in the attached Process Flow Diagram, **Section 3.5 – Process Flow Diagram**. The attached site plan depicts location and transmission points for the various process descriptions described in the sections below. Based on the volume of the processing pit capacity of 38.8 cu/yd the expected daily average of solid waste processed is 50 tons. The maximum weight of solid waste managed at any one time will not exceed the daily processing limit of 50 tons plus the maximum drum/tote storage capacity of 50 tons. The SWMF will not accept waste that will result in exceeding the maximum daily solid waste processing limit of 50 tons or the total maximum solid waste onsite limit of 100 tons. **Section 3.4** details the breakout of these capacities.

3.1 SOLID WASTE TREATMENT COMPONENTS DESCRIPTION

SWMF components were selected based on a progressive treatment design. The components were sized and selected based on previous data available from operations conducted at the shipyard and UES general services. An equipment and process diagram is attached as **Section 3.5** to clarify process flow, equipment location and layout. One area is designated for the treatment process equipment, process storage structures, and solid waste storage. The following equipment and structures are used to complete solid waste treatment processes:

3.1.0 Solid Waste Containment System – The SWMF is installed on a 50’ x 70’ x 1’ concrete pad with 6” x 6" containment curbing and a sloped entryway that rises 6" above the finished floor and meets the interior curbing. The processing pits are contained within the steel building. All process equipment is staged within the SWMF

3.1.1 Offloading Equipment & Storage Area – Offloading of drum and tote delivery trucks will be conducted on the south area of the SWMF. Trucks with solid waste drums and totes will be offloaded using a forklift. The drums and totes will be unloaded within the SWMF and staged on the south side of the SWMF, maximum storage of 70 drums with adequate space for drum grabber to pick up drum. Drums will be directly dumped into the processing pit using a drum grabber. Totes will be positioned on side with the opened bottom valve facing down towards the pit to facilitate high pressure spraying and removal of bottom solids. The solids will empty through the open valve into the pit. Drums that are crushed will be drained free of fluids and cleaned and transferred to the UES facility metal recycle bin. Solid waste contents of vacuum trucks with bulk loads will enter the SWMF via ramp to the edge of the processing pit and dump contents directly into pit. Dump trailers and roll-off will be dumped directly into the processing pit. Truck’s bed and tires will be rinsed off within the SWMF. The SWMF is constructed on a re-enforced concrete containment system with a sump for collection of fluids (e.g., decontamination rinse, overspray from drum/tote rinses, etc.) generated from processing solid waste.

3.1.2 Processing Pit & Solidification Pit – The SWMF consists of 2 pits of identical size, 18.67" feet long and 14.0' feet wide and 4 feet deep pits. The base of both pits is pitched in one direction to facilitate accumulated and vacuum removal of waste leachate. The processing pit is designed to allow for the separation of solids and liquids at the lowest point in the pit. The second pit will be used for solidification and stabilization, this pit will be used to mix solid waste with saw dust or wood chips for stabilization. Both pits are lined with 1/2" steel plates custom cut and welded at the seams and corners to reduce leakage potential. The processing pit design specifics are detailed in **Section 7.2 Construction Plan.** The 38.8 cubic yard pits are positioned parallel to each other with 10 feet between the two. The processing pit is where the solid waste is first processed to separate potential leachate from solids. Solids are removed from the processing pit using an excavator. The excavated solids are placed into the solidification pit. Saw dust or wood chips will be added to the solid waste where the excavator mixes the solid waste with sawdust,and lime. The mixing of sawdust continues until no free liquids are present. The solidified waste is removed by the excavator and placed into the 20-cubic yard (CY) roll-off dumpster with a cover. A 20 CY roll-off is staged inside the SWMF immediately adjacent to the solidification pit for solidified waste collection.

3.1.3 PCW/Wastewater Collection – PCW and wastewater is collected in the end of each pit. As necessary the PCW/wasterwater liquids will be removed by vacuum truck and transported to the used oil processing plant for recycling or disposal.

3.1.4 20 CY Roll-Off Box with Cover Solidified waste is transferred to the 20 CY roll-off dumpster box staged adjacent to the solidification pit and within the SWMF containment area. The roll-off dumpster is removed, as needed, and transported to a Class 1 Subtitle D Landfill designed to handle special waste.

3.1.5 Bench Testing Laboratory – UES has installed a Quality Control (QC) testing lab in the oil processing plant area for bench testing of incoming solid waste, processed waste and discharge fluids. The lab is equipped with colorimetric meters, titration equipment, oven, burners and glassware to perform qualitative real-time analyses of incoming solid waste and solidified waste to assure proper plant operations and to provide confirmation of off-site analytical lab results. The lab is available to the Solid Waste operator and personnel as needed.

3.2 Solid Waste Process Description

Design of the SWMF was based off of batch type operations that allow for fluid removal/collection prior to solid waste separation solidification and stabilization. The solidification treatment type utilized in normal solid waste processing operations: 1. Solid/ Wastewater/PCW separation 2. Solid Waste Solidification 3. PCW/Wastewater disposal at used oil processing plant 4. Solid waste off-site disposal.

3.2.1 Solid/Liquids Separation - There are two processing pits, one for solids and liquid separation (processing pit) and one for solid waste solidification (solidification pit). The solids/liquids separation pit is designed to drain/separate any residual petroleum contact water (PCW) or liquids that were present in the solid waste and contain and separate washwater from drum, floor and truck cleaning activities from the solid waste. The solids are removed and placed in the solidification pit and the eachate is collected and vacuumed up by a tanker truck. The removed solids are placed in the solidification pit to mix with sawdust and lime to reduce solid waste moisture capacity. The base of the processing pit is sloped to one end for fluids collection.

3.2.2 Solid Waste Disposal – The solidified waste in the processing is mixed with sawdust and transfered to the solidification 20 CY roll-off for disposal in a Class 1 subtitle D landfill.

3.2.3 PCW Disposal – The UES oil processing facility is located within the same property as the the SWPF. Collected PCW, leachate from solid waste and washwater from the SWPF will be removed with a vacuum truck and transported and treated by UES's used oil process permitted by FDEP.

3.3 SWMF OPERATION PLAN

The SWMF consists of offloading ramp, storage, sawdust treatment, collection and disposal of solids, storage and recycling of petroleum contact solid waste fluids. The solid waste processing operation will be operated and inspected by a trained operator, training requirements detailed in **Attachment 11**. Data generated from solid waste processing will be logged in the SWMF Acceptance Log Book. Waste streams with objectionable odors will be mixed mixed with lime and a suitable dessicant until odors are elimate. The SWMF will operate from 0730 to 1600 and access controlled/secured during non-operational hours. Hazardous waste is not accepted. In the event, hazardous waste is identified by waste acceptance inspection, the hazardous waste container will be immediately returned to the generator. The following procedures detail solid waste entry to solidified waste disposal:

3.3.1 Solid Waste Management – Waste produced by onsite and offsite cleaning operations will be properly manifested and documented (UES operations as "Generator Knowledge" / waste profile / or laboratory characterization) prior to entry into the SWMF. Details of the processes used to create the solidified waste will be documented. Some waste may require sample submittal for bench test characterization and treatment determination. All waste profiles and manifest copies will be retained for three years on site and retained in off - site storage for an additional two years. All waste deliveries will be sampled in advance of discharge for waste profile conformity. The majority of waste entering the SWMF will be inspected by a trained operator prior to being offloaded into the processing pits. Infrequent direct dumps, inspected by trained operator prior to dumping, from vacuum trucks will occur directly into the processing pit. Waste enters the system through the processing pit then transferred to the solidification pit prior to final storage in 20 CY roll-off dumpster box.

3.3.2 Solid/PCW & Washwater Separation – Solids are placed in the processing pit for gross fluid removal and collection. Drums are directly dumped into the processing pit using a drum grabber to turn drum upside down. Totes are turned over on one side with valve opening facing the pit while pressure hose removes solids. Drums and totes are triple rinsed over the processing pit. Solid waste dumped in bulk directly into the processing pit is removed with minimum fluids using an excavator and placed into the solidification pit. Each pit is equipped with a collection box for vacuuming accumulated fluids. Collected fluids are collected at the end of each day and transported to the UES used oil processing facility for separation and processing.

3.3.3 Solidification & Stabilization – Sawdust or other suitable inert absorbent material will be used to absorb oil fluids and reduce solid waste moisture capacity. Lime will be added to stabilize the solid wastes. Solid waste material removed from the processing pit by an excavator is placed in solidification pit lined with sawdust.The solidified waste is mixed with sawdust until no free-flowing fluids remain in the solidification pit. Limited to no fluids will accumulate in the solidification pit. Solidified material will be removed and placed in the adjacent 20 CY roll-off dumpster box.

3.3.4 until capacity is reached. The solidified material will be sampled and characterized as detailed in the **Attachment 4 Waste Analysis Sampling Plan (WASP)** prior to removal and disposal off-site. Upon completion of characterization the waste roll–of is ransported to a Class 1 Subtitle D special waste landfill for final disposal.

3.3.5 PCW/Wastewater/Washwater – Fluids vacuumed from containment system, pits and the drums/totes are immediately transported to the UES used oil processing facility located on the same property. Accumulated fluids are visually monitored by the SWMF operator during operations. If liquids prevent proper drainage of solid waste the operator will mobilize the UES vacuum truck the to remove the accumulated liquids, manifest them and transport to the adjacent UES used oil processing facility for recycling and disposal.

3.3.6 SWMF Containment Structure Stormwater Management – The SWMF processing pits are covered, stormwater collected in the containment area located outside of the covered areas will be collected and disposed at the used oil processing plant.

3.4 SWMF OPERATIONAL CAPACITY CALCULATION SUMMARY

The facility operational capacities are as follows:
Daily maximum solid waste processing capacity (38.3 cu. yds.) - 50 tons
Maximum solid waste capacity onsite = Drum/Tote maximum storage tonnage plus daily processing limit tonnage 50 tons + 50 tons = 100 tons*.
Daily maximum non solid waste PCW transfer and disposal to used oil processing plant - 1,000 gallons*
* Totals utilized in Attachment 10 SOLID WASTE MANAGEMENT FACILITY CLOSURE PLAN

3.5 PETROLEUM IMPACTED SOLID WASTE MANAGEMENT ACCEPTANCE PROCEDURE

Prior to entry into the plant, solids impacted with petroleum wastes are verified by use of procedures outline in 40 CFR 279. Petroleum impacted solid waste (PISW) acceptance procedures are similar to those utilized for used oil acceptance procedures outlined in **Attachment 6** of this submittal. The following sections discuss the transportation, acceptance, treatment, and shipment of recovered oils from PISW treatment.

3.5.1 PISW Acceptance Procedure - Transportation of PISW to the UES facility is typically conducted by non UES transporters. All PISW defined wastes are required to have associated documentation before the transport vehicle is allowed to offload into the SWMF. Prior to PISW acceptance into the treatment facility, the SWMF trained operator inspects and records the PISW transporter shipment documentation into a daily PISW Acceptance Record and photocopies a copy for entry into a 3-ring binder maintained in the laboratory. A minimum of the following information must be recorded before offloading of PISW into the SWMF can occur:

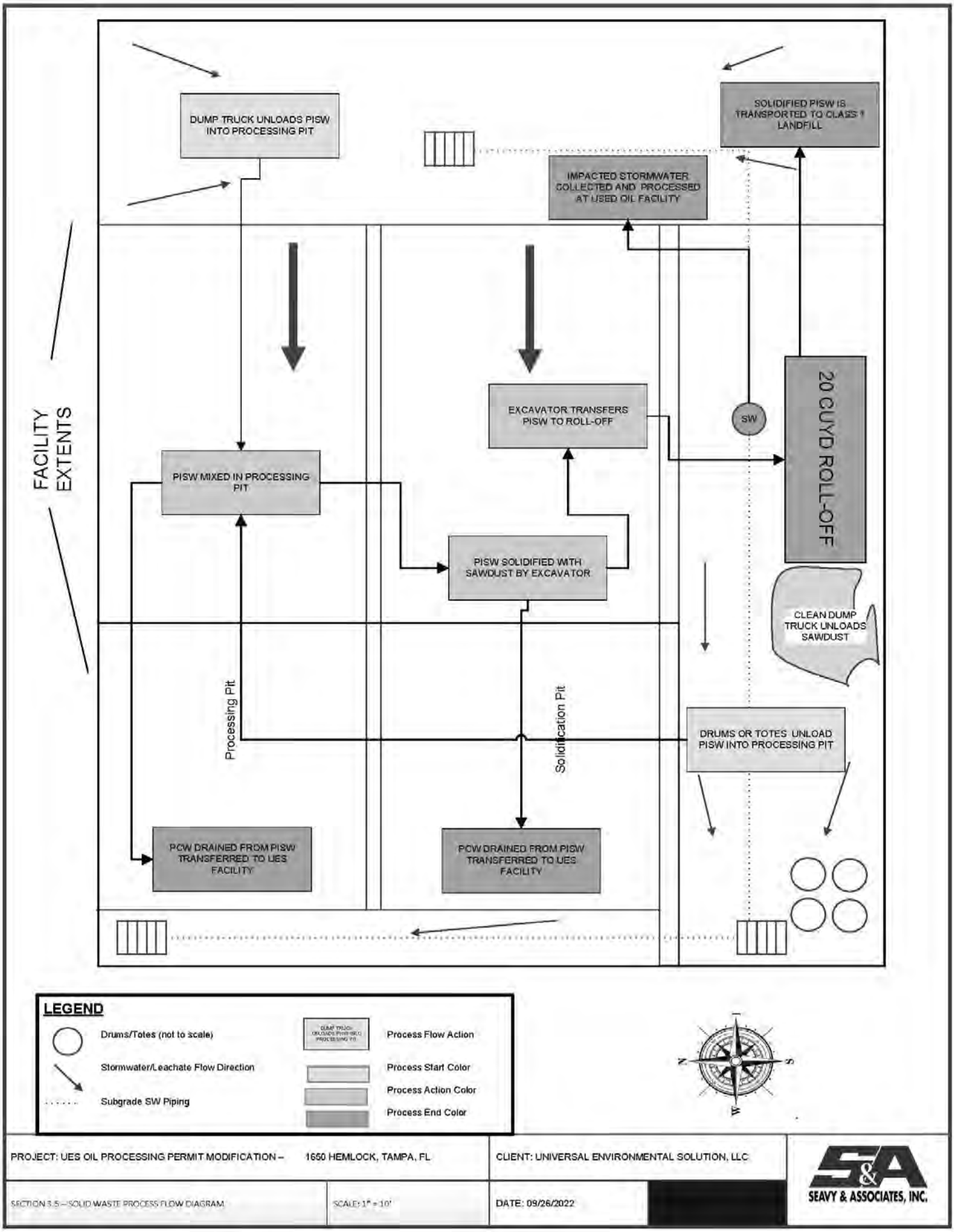
1. Name and address of the PISW producer.
2. Name and address of the PISW transporter.
3. Date of receipt of the PISW shipment.
4. Volume of the PISW received.
5. Tank ID where PISW was offloaded.
6. A copy of the shipping paper or manifest used for shipment of the PISW.

The records are retained in a 3-ring binder maintained in the plant laboratory. The SWMF operator will annually develop a submission that details the quantity of PISW received and the quantity of recovered product. After acceptance of PISW delivery documentation, the SWMF trained operator will verify contents of the transport vehicle by use of the following procedures:

1. Take a sample of the PISW using a Coliwasa or dip tube and a glass container.
2. The sample is taken to the onsite laboratory and visually observed under light. If wastes appear to be hazardous or the operator believes the waste not be to PISW, the load is rejected until proper documentation is provided to determine that waste is non hazardous PISW.
3. The operator will take total halogens, pH and conductivity readings of the PISW waste liquids as well as conduct a flammability test. The total halogens must be below 1000 ppm, pH must be greater than 4 and less than 10, and the flammability must fail. These readings are documented in the PISW Acceptance Logbook.

After both PISW waste documentation acceptance and completion of the modified second knowledge test is conducted, the PISW will be offloaded into the SWMF. PISW processed into solidified waste will be tracked with disposal records of the roll-off disposal. Records will be compiled on a monthly basis and maintained for 3 years.

3.6 PROCESS FLOW DIAGRAM



ATTACHMENT 4 - WASTE ANALYSIS & SAMPLING PLAN

4.0 WASTE ANALYSIS & SAMPLING PLAN (WASP)

This document is a Waste Analysis and Sampling Plan (WASP) prepared for use by Universal Environmental Solutions, Inc. (UES) located at 1650 Hemlock Ave in Tampa, Florida. UES conducts services associated with the treatment and recycling of PISW, petroleum contact water (PCW) and emulsified oils in waters created by ship cleaning, bilge oily water/sludges and offsite deliveries. UES is not a small or large quantity hazardous waste generator or transporter.

This WASP is required because UES is a used oil processor. UES is not permitted to accept or process hazardous characteristic or listed waste. The WASP will also be used as a guide to document waste analysis procedures that are used for the receipt of non-hazardous waste and materials that are brought into the UES facility. The purpose of this Waste Analysis Plan (WASP) is to also document the required sampling and analytical methods as well as the quality control/quality assurance (QA/QC) procedures that are used to ensure that used oil accepted from UES customers meets allowable limits. This WASP will also be used to ensure that specification for used oils recycled by UES meets required specifications as per applicable State and Federal requirements.

This WASP has been divided into four sections. *Section One* is a description of Facility and Process procedures. *Section Two* contains Sampling Procedures; Section *Three* contains information on the various analytical tests that are used for rendering waste determinations, total halogen tests for used oil, and testing for used oil fuel product specifications. *Section Four* of this WASP pertains to UES acceptance, handling, processing and testing of used oil as a transporter, processor, and recycler of used oils and rebuttable procedures.

4.1 GENERAL FACILITY DESCRIPTION AND PROCESS INFORMATION

Historically, shipyard cleaning and decontamination operations have been costly and performed by outside service providers. UES is an affiliate operation of one large shipyards: Gulf Marine Repair. The UES facility is located at the Port Hendry Terminal. UES has been developed to expand onsite operations of the shipyard. This operation is an effort to reduce costs by internalizing this important shipyard function. Critical to this strategy is the SWMF. The SWMF is designed to solidify and decontaminate PISW. UES contracted Seavy & Associates, Inc. (S&A) a local construction and engineering firm with PISW management experience. UES intends to operate the SWMF on a continual basis with solid waste disposal at a Class 1 Subtitle D Landfill and recovered used oil and PCW related sludges processed at the UES Used Oil facility. The SWMF design methodology included implementation of standard industrial design systems and maintenance procedures to eliminate or reduce risks in the loading, transport, offloading, storage, and disposal of PISW created by cleaning and decontamination activities.

4.1.1 UES Material Acceptance Requirements - UES has established procedures for the acceptance and handling of materials that are brought into the facility. Many of these procedures have been developed by best management and regulatory permitted practices. UES accepts materials through a contract or purchase order. Only pre-approved shipments are received at the facility. UES customers

are required to submit waste determination documentation (UES Waste Profile) that may be based upon generator process knowledge, material data safety sheets, and/or analytical testing. UES reviews this information as part of its acceptance procedures. This process helps to ensure that only approved materials are accepted at the UES facility. This process also helps UES address questions as to whether or not the waste or material that is accepted is regulated or exempt, is a listed or characteristic waste, is a special waste, or a material that will not be accepted. Waste determinations for residuals and waste produced by UES as part of its facility operations are based upon a generator's process knowledge, material safety data sheets, or analytical testing. UES annually renews waste profiles with solid waste facilities that accept UES solid waste, this includes requirements for analytical testing. Analytical testing is also performed to ensure that solidified waste shipped off-site for disposal are compliant with FDEP solid waste disposal regulations.

4.1.2 Record Keeping – Solid used oil waste and waste materials that are accepted at the UES facility require the customer to prepare and/or sign a bill of lading or nonhazardous waste manifest. UES maintains required tracking information and documentation that is required for a used oil transporter and used oil processor and will follow this procedure at the SWMF. Reports are filed with the FDEP as per the applicable regulations. Copies of the representative forms are provided as an attachment to this WASP. The FDEP requires the completion of annual forms. UES maintains its documentation for a minimum of three years as per applicable regulations on record keeping.

4.2 SAMPLING PROCEDURES

4.2.1 Representative Samples - When UES collects samples for analytical testing, samples are collected in accordance with FDEP approved methods and a protocol to assure that a representative sample is collected. The samples are sent to a FDEP approved and licensed laboratory, under a chain of custody. Samples are analyzed in accordance with *written procedures outlined in FDEP and "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency (EPA) Publication No. SW-846, Third Edition, Chapter 1 (November 1986), and its updates.*

Each parameter and its applicable analytical method are provided in the certified laboratory's Quality Assurance and Quality Control (QA/QC) Plan. All sampling procedures are designed and performed in a manner to ensure that samples are representative of the bulk material from which they are taken.

Based upon sample design, sample approaches may vary based upon the sample purpose, type of material to be sampled and the type of container. Sample approaches may include composite samples for large quantities, discrete grab samples, unbiased random sampling, biased or authoritative samples based upon knowledge of the materials to be sampled. Sampling strategies are also based upon the materials to be collected and the purpose of the analysis. Random sample patterns may include simple, stratified or systematic, dependent upon sampling objectives.

4.2.2 Representative Sampling Procedures:

The following procedures are implemented by UES samplers:

1. Prior to conducting sampling, personnel are required to wear the proper level of personnel protective equipment. This may include gloves, safety glasses, (with face shields) and respirators as required.

2. Safety equipment is also required for accessing tanker truck, dump truck, including required fall protection.

3. Samples collected from containers or carboys will involve the collection of representative samples. Dependent upon the consistency and state of the material, samples may be collected using a clean coliwasa, drum thief, bailer or dipper, based upon the substance to be sampled and the configuration of the container (open head, closed head, or screw top, etc.).

4. Samples collected from bins, roll-off boxes or totes will be representative samples that may include scoops or core samples based upon depth, access, stratification of the material in the bin.

5. Samples that are collected shall be labeled and maintained under a chain of custody.

Clean sample containers that are used are provided by the licensed analytical lab. The container's size, type, and preservative is based upon the analytical test that is being requested and are provided by the lab. Sample quality control is maintained and may include temperature blanks for samples that must be kept at a certain temperature. Other quality control may include trip blanks and equipment blanks as required based upon the type of sampling and applicable requirements. UES takes split samples and duplicate samples periodically based upon the circumstance as determined by QA/QC need, the request of a customer or regulatory agency. Sample VOAs may also be used for the collection of liquid samples that require zero headspace. Compliance samples are analyzed at a licensed / accredited lab, Advanced Environmental Labs (AEL). Analytes tested are based upon purpose and requirements for waste determinations, waste profiling and screening. Analytes tested are also determined as required by regulatory requirements, product quality control/assurance, offsite disposal facilities or UES customers.

4.3 ANALYTICAL TESTING

4.3.1 Analytical Tests - Analytical testing is completed for a variety of purposes. This may include waste determinations, waste profiles, constituent screening, and quality control. Waste is required to be profiled and applicable LDR certifications are required, these are annually updated. UES may render waste determinations and deny acceptance or disposal based upon analytical testing or generator knowledge. Analytical testing may be required for characteristic hazardous waste. Waste determinations can also be rendered by the generator based upon generator process knowledge which may include material safety data sheets. UES only uses FDEP certified laboratories for screening and compliance analytical testing. Solid waste facility approvals typically require the completion of a waste profile. On an annual basis, analytical testing is also required. UES follows the waste acceptance procedures that are required by the solid waste facility. Waste that is sent to solid waste landfills may include non-hazardous waste derived from the UES facility or waste that is derived through UES customers. UES also conducts analytical testing for meetings its obligations as a used oil transporter, processor, and marketer. In addition to compliance testing completed by a certified laboratory, UES uses field testing for finger print analysis and screening onsite.

Table 4.3-1 of the following page provides a general listing of the analytical tests used by UES for various purposes under this WASP. The information includes parameters, analytes, when the test is used, notes and frequency of testing.

Table 4.3-1: Analytical Testing:

Parameter	Test Method	Constituents	When Used	Notes	Frequency
TCLP Extraction	SW 1311	TCLP Extraction	When documenting hazardous waste TCLP hazardous waste characteristics	1311 extraction may not be required if sample is 100% liquid with less than 0.5% suspended solids.	As needed for hazardous waste determinations
ICP Metals RCRA (7)	SW 6010B	Cadmium, chromium, arsenic, lead, silver, selenium, barium	Testing for RCRA 7 Metals, use extraction 1311 to document TCLP characteristics. Arsenic, lead, cadmium chromium also analyzed for on-spec oil testing	Method 6010B is used for solid samples including soil, sludge, sediments or concentrated liquids.	As needed for hazardous waste determination,
Mercury	SW 7470A	Mercury Aqueous Sample	Testing Mercury, use extraction 1311 to document TCLP characteristics	Use 7471A for Mercury Solid Sample	As needed for hazardous waste determination
ICP Metals (All)	SW 6010B	31 metal constituents	Metals screen, more than RCRA Metals, may be used to help document LDR underlying constituents	Specify metals, reference all, target metals or RCRA metals.	As needed for screen, underlying constituents or solid waste profiling
RCRA Volatiles	SW 8260B (14 RCRA Constituents)	14 RCRA volatile organic constituents	Used with TCLP 1311 to document RCRA VOC constituents. Use for solid samples including soil, sludge, sediment, or concentrated liquids	1311 extraction may not be required if sample is 100% liquid with less than 0.5% suspended solids.	As needed for hazardous waste determination, solid waste profiling, used

Parameter	Test Method	Constituents	When Used	Notes	Frequency
RCRA Semi-Volatiles	SW 8270C (18 RCRA Constituents)	18 RCRA semi-volatile organic constituents	Used with 1311 to document RCRA semi-volatile organic constituents. Use for solid samples including soil, sludge, sediment, or concentrated liquids	1311 extraction may not be required if sample is 100% liquid with less than 0.5% suspended solids.	As needed for hazardous waste determination or solid waste profiling
Volatiles	SW 8260B	62 Volatile Constituents	Can be used as a screen or for target analytes. May also be used to help identify underlying hazardous waste constituents.	Use for solid samples including soil, sludge, sediment, or Concentrated liquids	As needed for screen or solid waste profiling
Semi-Volatiles	SW 8270C	65 Semi-Volatile Constituents in Test	Can be used as a screen or for target analytes. May also be used to help identify underlying hazardous waste constituents. Test also includes PAHs for testing excavated and regulated PCS contaminated soil.	Use for solid samples including soil, sludge, sediment, or concentrated liquids. Regulated PCS requires special approval to transport or handle and special manifest	As needed for screen or solid waste or special waste profiling
PAHs	SW 8310	16 Polynuclear Aromatic Hydrocarbons	Petroleum Contaminated Soil screening for PAHs. SRC does not transport or handle regulated PCS waste.	Used to determine if excavated PCS is regulated based upon State regulatory limit.	As needed for screen or solid waste or special waste profiling.

Parameter	Test Method	Constituents	When Used	Notes	Frequency
Total Halogens	SW 9077	Total chlorides in new and used oil	Used as screen for total halogens (above or below 1,000 ppm)	Field Test Dexsill Chlor-D-Tect 1000	Used oil pickups and deliveries
Total Halides	SW 9020	Total Halides in new and used oil	Used as screen for total halogens (above or below 1,000 ppm)	Field Test Dexsill Chlor-D-Tect 1000	Used oil pickups and deliveries
PCBs	SW 8082	7 types of aroclor compounds	Screening for PCB required for certain customers. Test also used for on specification fuel oil quality control	Method 8082 used to determine Concentrations in PCBs as aroclors or individual PCB ongeners in extracts from solid and aqueous matrices	As needed for used oil from California, electrical transformers
Corrosivity (Aqueous)	SW 9040C	pH	Aqueous samples (has measurable pH, must contain at least 20% free water by volume	Hold times are limited requires immediate analysis or flag noted	As needed for hazardous waste determinations or profiling
Corrosivity (Liquid)	SW 1110A	pH	Non-aqueous liquid sample. Many aqueous samples are liquids so may need to run both tests if hydrogen ions do not disassociate on 9040C	Test is based upon steel corrosion rates (see RO 13561 or Test Method)	As needed for hazardous waste determinations or profiling
Free Liquids	SW 9095B	Free Liquids Paint Filter Test	Used for determining if a waste is a liquid if required	Liquid for flashpoint or pH tests, may also use pressure test in 1311 if needed.	As needed for hazardous waste determinations or solid waste profiling

4.4 UES USED OIL SOLID WASTE ACCEPTANCE PROCEDURES TO MEET THE REBUTTABLE REQUIREMENTS PRESUMPTION

For used oil shipments, customers are required to enter into an agreement and provide information on their regulatory status and used oil handling practices. The UES plant operator conducts an EPA approved test for total halogens on used oil prior to delivery and acceptance of the used oil shipment. Customers are required to sign a bill of lading or non- hazardous waste manifest, dependent upon the shipment and the results of the testing. UES utilizes a contract for its used oil burner customers. For other customers, UES utilizes a purchase order agreement. Prior to accepting used oils or petroleum contact water from its customers, UES enters into an agreement and obtains information on the type of oil. If the source of oil is from a transformer, UES also requires PCB analytical testing, total halogen, flash point, and BTU analysis of the used oil as described in this WASP. Prior to UES picking up oil/PISW, UES transport drivers conduct testing of the oil to confirm the halogen content of the used oil. This test is performed using a "TIF XP – 1A Automatic Halogen Leak Detector" or a "Dexsil Chlor-D-Tect 1000 ® test kit. The results of the test are marked on the shipping papers. If the total halogen content meets or exceeds 1,000 ppm total halogens, then UES will require the used oil generator to prepare a rebuttable presumption certifying that the used oil was not mixed with a listed hazardous waste. UES provides the customer with a certification form and instructions. In order to rebut the presumption that the used oil is not mixed with a hazardous waste, the customer is advised to have a sample of the used oil analyzed by a certified analytical lab and make the determination based upon the analytical results. The recommended analytical test is SW 8260B. The used oil customer may also rebut the presumption under certain circumstances if the oils contain chlorinated paraffin's or applying other knowledge of the halogen content of the used oil in light of the materials or processed used.

A used oil generator who is unable to rebut the presumption will need to ship the used oil and/or PISW as a hazardous waste to a designated facility for disposal. UES will require documentation, if the used oil generator rebuts the presumption based upon chlorinated paraffin's, analytical testing, or generator knowledge. UES also requires the following certification:

I certify that the used oil in this shipment has not been mixed with a listed hazardous waste, based upon my understanding of the hazardous waste and used oil regulations. I have based my determination upon the following information that is attached to this certification statement as required: __analytical testing, __material safety data sheet, __generator knowledge.

The used oil customer signs the form and based upon the information, UES either accepts the load, rejects the load or retests the load. Used oil shipments, that may be delivered by other used oil transporters requires similar information in terms of documentation. UES also tests the incoming used oil shipments to its facility and maintains the required documentation in accordance with applicable regulations. UES maintains a similar process for documenting acceptance as a used oil processor. UES maintains used oil records as a transporter and processor. Annual reports are also submitted to the FDEP on forms that are provided (see attachment.

UES does accept off specification used oil for processing and blending to make it specification used oil fuel. Other analytical tests as described in this WASP (Table 1) are used for screening, testing and to confirm that on specification used oil standards are met prior to product distribution.

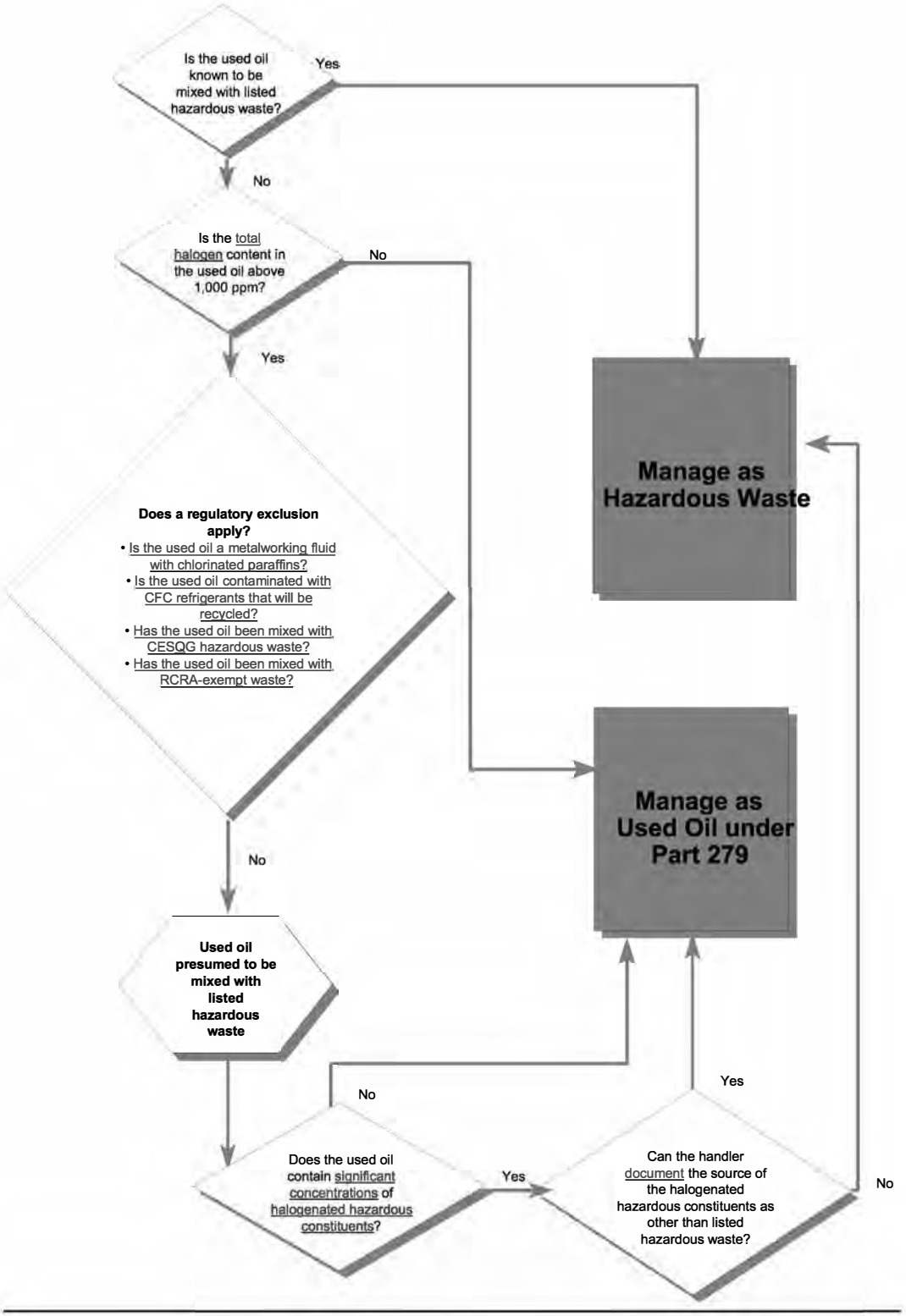
The requirements and parameters for on specification fuel are provided in Table 4.4-1. Sampling procedures for testing were described in *Section Two* of this WASP. Sample collection procedures are consistent with Appendix-1 of 40 CFR Part 261 and other Florida applicable requirements.

TABLE 4.4-1

Constituent or Property Allowable Level Test Method SW-846	
Arsenic 5 ppm maximum (EPA 6010B)	PCBs Less than 50 ppm (EPA 8082)
Cadmium 2 ppm maximum (EPA 6010B)	Total Halogens 1,000 ppm maximum (EPA 9075)
Chromium 10 ppm maximum (EPA 6010B)	Flash Point 100 F minimum (EPA 1010A)
Lead 100 ppm maximum (EPA 6010B)	

The allowable levels do not apply to mixtures of used oil and hazardous waste that continue to be regulated as hazardous waste (see §279.10(b)). Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under §279.10(b)(1). Such used oil is subject to subpart H of part 266 of the RCRA regulations rather than the used oil regulations when burned for energy recovery unless the presumption of mixing can be successfully rebutted. (UES WASP Note: Even if the presumption of mixing has been successful, concentrations of total halogens in used oil greater than the 1,000 ppm are off specification). Metal values are based upon total metals and not TCLP values.

TABLE 4.4-2: REBUTTABLE PRESUMPTIVE ANALYSIS FLOW CHART



4.4.2 Requirements §279.55 Analysis Plan - Owners or operators of used oil processing and re-refining facilities must develop and follow a written analysis plan describing the procedures that will be used to comply with the analysis requirements of §279.53 and, if applicable, §279.72.

The owner or operator must keep the plan at the facility.

(A) *Rebuttable presumption for used oil in §279.53.* At a minimum, the plan must specify the following:

(1) Whether sample analyses or knowledge of the halogen content of the used oil will be used to make this determination.

(2) If sample analyses are used to make this determination:

(i) The sampling method used to obtain representative samples to be analyzed. Representative samples may be obtained using either:

(A) One of the sampling methods in appendix I of part 261 of this chapter; or

(B) A method shown to be equivalent under §§260.20 and 260.21 of this chapter;

(ii) The frequency of sampling to be performed, and whether the analysis will be performed on-site or off-site; and

(iii) The methods used to analyze used oil for the parameters specified in §279.53; and

(3) The type of information that will be used to determine the halogen content of the used oil.

(b) *On-specification used oil fuel in §279.72.* At a minimum, the plan must specify the following if §279.72 are applicable:

(1) Whether sample analyses or other information will be used to make this determination;

(2) If sample analyses are used to make this determination:

(i) The sampling method used to obtain representative samples to be analyzed. A representative sample may be obtained using either:

A) One of the sampling methods in appendix I of part 261 of this chapter;

or

(B) A method shown to be equivalent under §§260.20 and 260.21 of this chapter;

(ii) Whether used oil will be sampled and analyzed prior to or after any processing/re-refining;

(iii) The frequency of sampling to be performed, and whether the analysis will be performed on-site or off-site; and

(iv) The methods used to analyze used oil for the parameters specified in §279.72; and

(3) The type of information that will be used to make the on specification used oil fuel determination.

4.4.3 UES Compliance with §279.55 and 62-710, FAC Analysis Plan Requirements

This WASP represents UES efforts to document and describe its procedures as a used oil processer/re-refiner. UES follows this WASP to comply with the analysis requirements of §279.53 pertaining to the rebuttable presumption for used oil and §279.72 which pertains to used oil marketer requirements for on specification used oil fuel. UES maintains this WASP at its facility in Tampa FL. The UES WASP specifies for the rebuttable presumption for used oil (in §279.53) and 62-710, FAC that UES analyzes the halogen content of used oil to make this determination.

Used oil is tested using approved analytical methods when the used oil is picked up when UES is a transporter. Based upon the test results, that are described in *Section One* to *Section Three* of this WASP, the used oil is either accepted or rejected prior to being transported or accepted at the UES facility. Incoming trucks where UES is not the transporter are also tested for total halogens and total halogen tests are conducted through an offsite ADHS certified lab after each truck or container of on specification used oil is processed and before it is marketed for distribution.

Sampling methods used to collect and analyze representative samples are described in *Sections Two and Section Three* of this WASP and are in conformance with Appendix I of part 261 of the RCRA regulations or an equivalent method under §§260.20 and 260.21 of the RCRA regulations. This WASP also describes the frequency of sampling to be performed, and whether the analysis will be performed on-site or off-site; and the methods used to analyze used oil for the parameters specified in §279.53 (*Sections One-Three and Tables I and 2* of this WASP). The information provided in this WASP describes the information that will be used to determine the halogen content of the used oil.

This WASP also specifies the sampling procedures and the analytical testing that will be used to document on specification fuel oil that is processed and marketed through UES. *Sections One-Three and Tables 1 and 2* provide this information. Sampling methods provide for the collection of a representative sample. Representative sampling methods are in conformance with appendix I of part 261 of the RCRA regulations or an equivalent method under §§260.20 and 260.21 of the RCRA regulations. This WASP also describes the frequency of sampling to be performed, and whether the analysis will be performed on-site or off-site; and the methods used to analyze used oil for the parameters specified in §279.72. This analytical data provides information to make the on specification used oil fuel determination. PISW is sampled upon receipt (prior to processing) and after processing. Records and tracking documents are maintained as per the referenced regulations.

ATTACHMENT 5 – PETROLEUM IMPACTED WATER, RECOVERED USED OIL & CRUSHED METAL DRUMS MANAGEMENT

5.0 PETROLEUM CONTAMINATED WATER, RECOVERED USED OIL AND CRUSHED METAL DRUMS MANAGEMENT DESCRIPTION

This section is a description of the management of the waste created by the solid waste processing activities. Waste generated from solid waste processing includes petroleum contaminated water (PCW) generated from solid waste containing residual petroleum sludges and liquids, residual wastewater from solid wastes delivered to the facility and wash-water from drum, tote and floor washing and cleaning activities performed at the facility. These liquid wastes will be collected and taken to the used oil processing facility in operation by UES adjacent to the SWPB. The following description will detail the estimated quantities of PCW/Wastewater from solid waste processing activities.

5.1 Drum Cleaning Wastewater

Solid waste contained in 55 gallon drums will be accepted at the facility. Drums will be manifested and dumped into the processing pit to allow any residual liquids to be drained. The emptied drums will be stacked in the drum storage agrea and all used drums will be cleaned once a week. The cleaning process will be conducted over the processing pit with a pressure washer by UES personnel. The cleaned drums that can be salvaged will be reused and unusable drums will be crushed using the excavator and taken to the metals salvage roll-off contained contained on-site for recycling. UES anticipates cleaning of a maximum of 40 drums a week will be cleaned producing a maximum of 10 gallons of wastewater per drum. Its is estimated the the drum cleaning activities will create 400 gallons of potential PCW for disposal at the Used Oil Processing Facility on-site.

5.2 Floor & Equipment Cleaning Wastewater

To keep the facility clean and free of debris the concrete flooring will be washed with pressure washers by UES personnel. The floor cleaning will be conducted from the outside areas first and follow the concrete flooring slope towards the processing pit. In addition the SWPF excavator and dump trailers will require periodic cleaning. The equipment will be placed by the processing pit and UES personnel will utilize pressure washers to clean any residual solid wastes from the equipment or trailers. It is anticipated that the floor and equipment cleaning activities will be conducted weekly and create 500 gallons of PCW for disposal at the Used Oil Processing facility onsite.

5.3 Solid Waste Residual PCW & Wastewater

- The facility intends to accept PISW. PISW sources typically contain residual liquid petroleum or non-hazardous liquids. These liquids will be removed in the processing pit as described in Section 3.3.2. UES anticipates daily removal and disposal of the PCW and liquids generated in the processing pit. Anticipated volumes are estimated at a maximum of 1,000 gallons per day but could vary greatly daily based on solid waste disposal types.

ATTACHMENT 6 – TRACKING PLAN & RECORDKEEPING

6.0 WASTE TRACKING PLAN

The UES facility uses standardized forms for the tracking of materials into and out of the processing plant. Prior to wastes entering the SWMF, the processing plant operator utilizes the Acceptable Knowledge approach as a primary indicator of hazardous wastes and testing as a secondary approach. A waste profile approval form is required from the generator prior to acceptance of the delivery of non-hazardous wastes from non-UES facility or deliveries that are from sources that have not previously been approved. A uniform non-hazardous waste manifest is used to track these non-UES outside sources prior to entry into the plant. The UES plant operator signature is required on the uniform non-hazardous waste manifest before wastes enter the processing plant. Non-hazardous waste from UES personnel are profiled using the attached UES Waste Profile and processed using the attached uniform non-hazardous waste manifest. A copy of each form is included in this attachment as well as a copy of the analytical results of the baseline sludge profile. Maximum weight of materials and solid wastes stored at the UES facility cannot exceed 100 tons at any one time.

6.1 UES STANDARD OPERATING PROCEDURES FOR HAZARDOUS WASTE ASSESSMENT OF SOLID WASTE PRIOR TO PICKUP

6.1.1 What are halogens? - Halogens are any compound containing chlorine, bromine, fluorine and iodine. The following wastes are often mixed with used oil and may be contaminated with halogenated organic product.

- Brake fluids
- Degreasers including petroleum distillates and mineral spirits
- Refrigerants (e.g., Freon)
- Paints
- Oil-based inks
- Antifreeze
- Carburetor cleaners

6.1.2 When is Used Oil considered a hazardous waste? - There are two primary approaches for determining whether the solid waste is a hazardous waste.

- **First Approach** – Acceptable Knowledge (40 CFR 261.11 (c))

Process knowledge includes detailed information about the waste obtained from published or documented waste analysis data or studies conducted on wastes generated by processes similar to that which generated the waste in question.

- **Second Approach** – Testing (40 CFR 261.11 (c) and 40 CFR 761) Along with Acceptable Knowledge

Testing of the following four (4) hazardous waste characteristics are used to determine whether a solid waste is a hazardous waste (Acceptable process knowledge can be substituted for one (1) or more the tests for the four (4) hazardous waste characteristics).

- Corrosivity
- Ignitability
- Reactivity
- Toxicity

1. **Corrosivity – pH**

A solid waste oil mix with a pH of less than or equal to 2 or greater than or equal to 12.5 are considered corrosive and hazardous and should not be picked up.

2. **Ignitability – Flash Point Determination**

A solid waste with a Flash Point below 140°F (60°C) are considered hazardous and should not be picked up. The Flash Point is the lowest temp at which vapors above a waste ignite when exposed to a flame.

3. **Reactivity – Liquid Reacts Violently or Explodes**

Other than the generator's knowledge, solid waste is considered hazardous if any of the following characteristics are observed.

- Unstable and readily undergoes violent change without detonating
- Reacts violently or forms potentially explosive mixtures with water
- Releases toxic gases when mixed with water
- Is a cyanide or sulfide bearing waste that releases toxic gases when exposed to pH conditions between 2 and 12.5

4. **Toxicity - Based on the Potential to Contaminate Groundwater**

Solid waste is considered hazardous if it contains one (1) or more chemicals present out of a list of forty (40) chemicals at a concentration exceeding its Toxicity Characteristic Leaching Procedure (TCLP) concentration (see attached table). The purpose of the TCLP is to simulate the leaching that can occur in a landfill. Additionally, solid waste is considered to be hazardous, if it contains more than 0.1 % or 1000 ppm (mg/L) of halogenated compounds or more than 50 ppm (50 mg/L) PCBs (40 CFR 761).

6.1.3 How do I determine whether I can pick up a load of solid waste? - There are two (2) primary approaches to be used for determining whether the solid waste you plan on picking up is hazardous or not. The first approach is based on Your and/or Your Client's "Acceptable Knowledge" about the processes that generated the solid waste to be picked up. The second approach involves on-site assessments involving the use of your experience (i.e., chlorinated solvent-type odors), scanning of the container headspace or a sample bottle headspace using your Cen-Tech H0logen Le0k Detector model 92514 for H0logens 0nd/or the use of Dexsil Kits to 0ssess the existence of h0logens 0t concentr0tions 0bove 1000 ppm.

6.1.3.1 "Acceptable Knowledge" - You must first determine how the solid waste was generated based on your experience, the operation that generated the solid waste and the generator's knowledge and management of their operation. If you and the generator are sure that the process that generated the solid waste did not involve any mixing with hazardous waste and/or the probability was very low that a hazardous mixture was generated based on the procedures used to store the solid waste, you can be reasonably certain that the solid waste is not hazardous. However, if you have any doubts about the solid waste based on the information provided by the generator, your experience or other knowledge you have, you should perform some field testing to confirm that the solid waste is not hazardous based on the 1000 ppm halogen standard threshold.

6.1.3.2 Testing - Scan the solid waste with the TIF XP – 1A Automatic Halogen Leak Detector that you carry with you in your used oil transport truck. The following procedure along with the "Assembly and Operating Instructions Manual" is to be used for scanning the solid waste with the detector.

- Switch the unit on by pressing the on / off key. The display will illuminate with the reset indication (left LED green, all others Orange) for 2 seconds. Verify the battery level by observing the constant power indicator.
- Upon turn on, the unit is set the sensitivity level to "5". A rapid, but steady beep rate will be heard. If desired the sensitivity can be adjusted by pressing the SENSITIVITY **a** or SENSITIVITY **b** key.
- Begin Halogen detection operation. If halogens are detected, then the audible tone will change to a siren type sound, distinctly different from the base beep rate. Additionally, the visual indicators will light progressively.
- Orient the probe tip within a distance of no more than ¼-inch from the surface of the liquid to be scanned.
- If the probe tip cannot be placed within a ¼-inch of the fluid surface, use a pipette or the like to collect a sample of the liquid to be scanned for halogens.
- Place the sample in a small plastic cup.
- If the detector indicates that halogens are present within a ¼-inch of the fluid being scanned, use the Dexsil "Clor-D-Tect 1000" kit to determine if the total halogen concentration in the used oil is less than or greater than 1000 ppm.
- If the Dexsil "Clor-D-Tect 1000" kit indicates that the concentration of halogens is greater than 1000 ppm, do not take the oil and contact Ed Kinley.

6.1.4 Assessment Supplies to be maintained on Every Truck for Field Testing:

- One TIF XP - lA Automatic Halogen Leak Detector in working order with good batteries.
- Two (2) Dexsil "Clor-D-Tect 1000" kits that have not expired.
- Liquid Drum sampler or the like for drawing a sample to be placed in a glass jar.
- Two plastic cups for scanning samples of solid waste, if the detector probe tip cannot easily be placed within ¼-inch of the solid waste surface.

6.1.6 Required Paperwork - Details of the sampling event, dates, times, analyses types and specifics sample collection information is maintained and tracked using the UES Waste Profile and Non-hazardous waste manifest forms. Example of these forms are included in **Section 6.2.1 and 6.2.2**. After sampling has been conducted a copy of the laboratory chain of custody and profile sheet are retained in the laboratory in a labeled 3 ring binder. Sample identification nomenclature is determined by using the sampling location ID that is identified on the plant as-builts followed by the date. If multiple samples are taken from the same location within a single day, time is added to the sample id to differentiate samples.

6.2 WASTE TRACKING DOCUMENTS

Processed solid waste are disposed off-site at an approved FDEP licensed disposal facility.

6.2.1 UES Waste Profile - This Waste profile is used to record, track and provide justification for no further analyses of a waste.

Universal Environmental Solutions, LLC
1650 Hemlock St, Tampa , FL. 33605
Ph.# (813) 241 - 9206 Fax# (813) 241 -9215
US EPA ID Number: FLR000199802 Profile #: _____

A. Billing Information
Company _____ Account # _____
Address _____
City/State _____ Zip _____ Contact _____
Phone _____ Fax _____

B. Generator Information/Location of Waste
Generator EPA ID _____
Generator Name _____ Site Contact _____
Address _____
City/State _____ Zip _____
Contact Phone _____ Contact Fax _____
Type of Business _____ SIC Code _____

C. Waste Description
Common Name of Waste _____
Process Generating Waste _____

D. Physical Properties

Physical State	Odor	Color	Viscosity	Layers
☐ 100% Solid	☐ None	Describe: _____	☐ Low	_____ Top
☐ 100% Liquid	☐ Mild		☐ Medium	_____ Middle
☐ Sludge	☐ Strong		☐ High	_____ Bottom
_____ % Free Liquid	Describe _____			

Flash Point		pH		Water	
☐ <73 F	☐ 140-199 F	☐ < 2	☐ 9.1 - 12.4	☐ < 5%	☐ 30-80%
☐ 73-99 F	☐ >199 F	☐ 2.1 - 4.9	☐ > 12.5	☐ 5-10%	☐ 80-100%
☐ 100-139 F	☐ N/A	☐ 5 - 9	☐ N/A	☐ 10-30%	☐ N/A

E. Volume
Anticipated Volume: _____ ☐ Drums ☐ 5-Gallon ☐ 30-Gallon ☐ 55-Gallon ☐ Tote
☐ Bulk ☐ Tanker ☐ Pump Truck ☐ Other: _____
Estimated Frequency: ☐ Weekly ☐ Semimonthly ☐ Monthly ☐ Quarterly ☐ Other _____

F. Constituents
Total must be equal to 100%. All constituents, including debris must be identified.

Constituents	Actual %	Range

G. Other Hazards
☐ Radioactive
☐ Water Reactive
☐ Oxidizer
☐ OSHA
☐ Carcinogen
☐ Explosive
☐ Pesticide
☐ Polymerizable
☐ Organic Peroxide
☐ Infectious
☐ Pryophoric

H. Additional Information
1 Does the waste contain dioxins? ☐ Yes ☐ No
2 Does the waste contain asbestos? ☐ Yes ☐ No
3 Does the waste contain benzene? ☐ Yes ☐ No
If yes, what is the concentration? _____ ppm
Is the waste subject to the benzene waste operations NESHAP? ☐ Yes ☐ No
4 Is the waste subject to RCRA Subpart CC controls? ☐ Yes ☐ No
5 Does the waste contain carcinogens that require OSHA notification? ☐ Yes ☐ No

Form GTS87903

I. Constituents

These values are based on ☐ Generator Knowledge ☐ Analytical Results

Inorganic

Metals	Limit	Level (mg/l)
D004 Arsenic	5.0	
D005 Barium	100.0	
D006 Cadmium	1.0	
D007 Chromium	5.0	
D008 Lead	5.0	
D009 Mercury	0.2	
D010 Selenium	1.0	
D011 Silver	5.0	

Pesticides/Herbicides	Limit	Level (mg/l)
D012 Endrin	0.02	
D013 Lindane	0.4	
D014 Methoxychlor	10.0	
D015 Toxaphene	0.5	
D016 2,4-D	10.0	
D017 2,4,5-TP	400.0	
D020 Chlordane	0.03	
D031 Heptachlor	0.008	

Organic

Volatile Compounds	Limit	Level(mg/l)
D018 Benzene	0.5	
D019 Carbon Tetrachloride	0.5	
D021 Chlorobenzene	100.0	
D022 Chloroform	6.0	
D028 1,2-Dichloroethane	0.5	
D029 1,1-Dichloroethylene	0.7	
D035 Methyl Ethyl Ketone	200.0	
D039 Tetrachloroethylene	0.7	
D040 Trichloroethlene	0.5	
D043 Vinyl Chloride	0.2	

Semi-Volatile Compounds	Limit	Level (mg/l)
D023 o-Cresol	200.0	
D024 m-Cresol	200.0	
D025 p-Cresol	200.0	
D026 Cresol	200.0	
D027 1,4-Dichlorobenzene	7.5	
D030 2,4-Dinitrotoluene	0.13	
D032 Hexchlorobenzene	0.13	
D033 Hexachlorobutadiene	0.5	
D034 Hexachloroethane	3.0	
D036 Nitrolbenzene	2.0	
D037 Pentachlorophenol	100.0	
D038 Pyridine	5.0	
D041 2,4,5-Trichlorophenol	400.0	
D042 2,4,6-Trichlorophenol	2.0	

J. Wastewater Pre-Treatment Facility Certification

Inorganics

	Concentration
Ammonia	
Nitrogen	
Phosphorus	
Potassium	
Formaldahyde	
PCB's	
Antimony	
Cobalt	
Copper	
Nikel	
Tin	
Titanium	
Vanadium	
Zinc	

Organics

	Concentration
bis (2-ethylhexy) pthalate	
Carbazole	
N-decane	
Fluoranthene	
O-Octadecane	

Form GTS87903

K. D.O.T. Shipping Information

RCRA Hazardous Waste (per 40CFR261) ☐ Yes ☑ No State Regulated ☐ Yes ☐ No
USDOT Hazardous Material ☐ Yes ☐ No Used Oil ☐ Yes ☐ No

Proper USDOT Shipping Name: _____
DOT Hazard Class _____ UN/NA _____ Packing Group _____

L. Sample

Has a sample been included? ☑ Yes ☐ No If yes, sampled by: _____ Date _____

M. Generator's Certification

I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If U.E.S., LLC discovers a descrepancy during the approval process, Generator grants U.E.S., LLC or it's authorized third party facilities, the authority to amend the profile, as U.E.S., LLC deems necessary, to reflect the descrepancy.

_____ _____ _____

N. Reserved for Facility Use

1. Date Approved _____ Approver's Initials _____

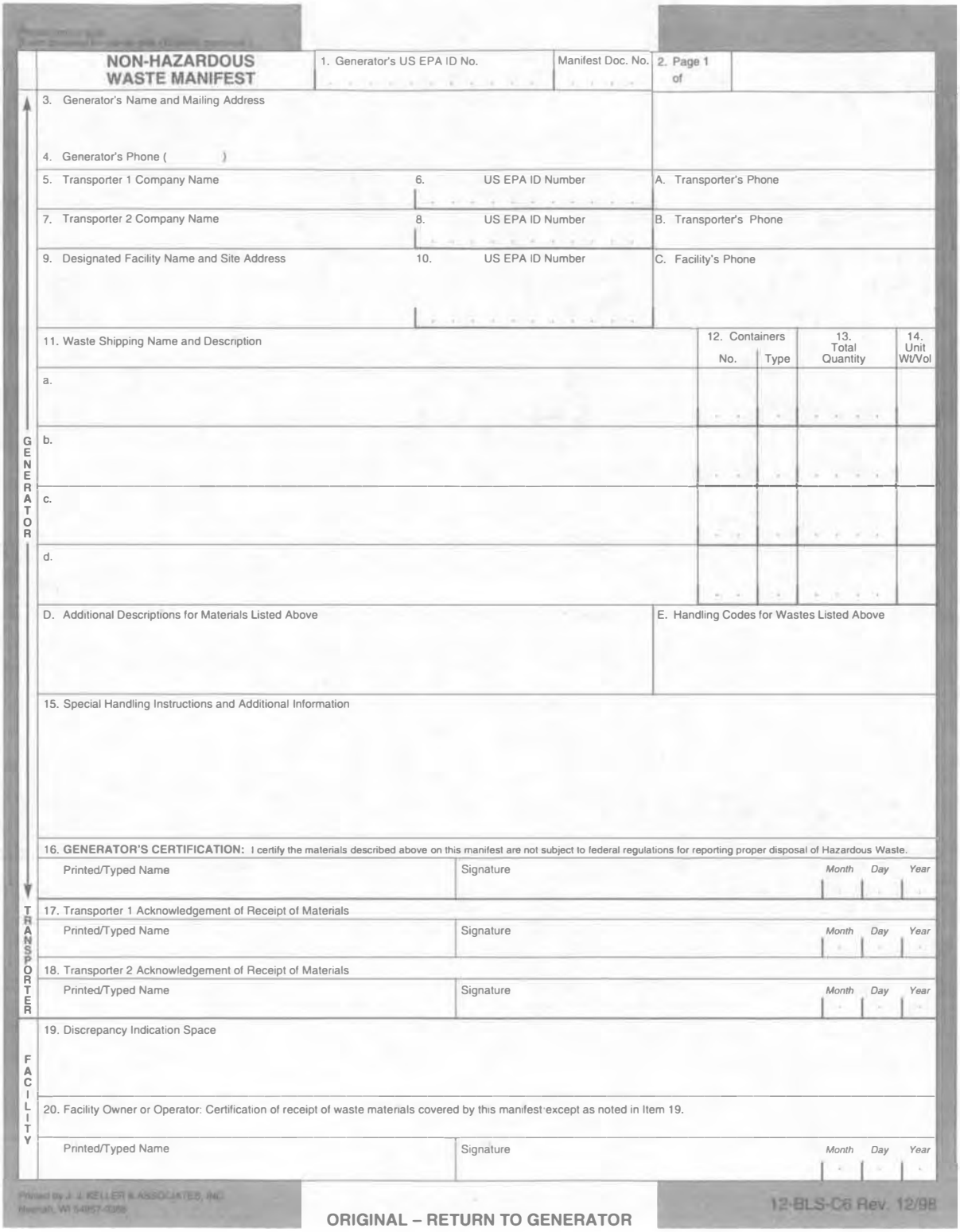
2. Sample

_____	MSDS Attached	_____	Incineration	_____	Pricing
_____	Analytical Attached	_____	WWT		
_____	Landfill			_____	Freight

Outbound _____

Form GTS87903

6.2.2 Uniform Non-hazardous Waste Manifest:



NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Doc. No. | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.				
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

Printed by J. J. KELLER & ASSOCIATES, INC.

ORIGINAL – RETURN TO GENERATOR

12-BLS-C6 Rev. 12/98

ATTACHMENT 7 – CONSTRUCTION PLAN

7.0 CONSTRUCTION PLAN

UES is submitting this construction plan to satisfy the design requirements specified in 62 FAC 701.710(3). The SWMF is positioned within the UES property which is inclusive of the UES Used Oil Processing Facility. The SWMF is designed to facilitate indoor operations for solid waste storage and processing. The SWMF consists of a contained sloped concrete pad with two pits located at the lowest grade and a steel building structure with access opening coving the concrete flooring. Please note that specifics of the building design could have to be modified prior to start of construction or during the construction activities based on site conditions.

7.1 SOLID WASTE PROCESSING BUILDING DESCRIPTION

The SWMF contained concrete pad design consists of a 84' x 58.67' x 1' thick concrete pad with a 1'x1' concrete containment curb and sloped concrete entry way that rises 6” above the interior finished grade concrete. The interior concrete pad will be sloped toward the each of the processing pits to allow a cleaning of the interior surface and collection of the rinse water for disposal. A 38' x 55' x 26' steel building will cover the SWPF containment pad pits. The main entry point on the east side of the steel building will consist of a 30' x 58.67' x 1' sloped concrete ramp that will match the 1' containment curbing at the edge of the concrete pad and a 4' x 58.67 'x 6" sloped concrete ramp that will enter into the facility to maintain interior concrete pad. The steel building roof that covers the concrete containment will be sloped to the west and a drainage system will be installed sub-grade to maintain rainwater and leachate collected on the pad. The drainage system will collect the stormwater that falls on the building roof and collects on the containment pad. The sub-grade stormwater piping and collection grate boxes will contain the stormwater and when full the stormwater will be removed and disposed of in the Used Oil Processing Facility.

The drum/tote storage area is located on the east side of the building and will be able to store up to 70 - 55 gallon drums (19 cu yds) or 17 - 225 gallon totes (19 cu yds) for a total of 50.0 tons. The 20 CY roll off box will be positioned in this area to facilitate drop off and removal by roll-off truck. The two concrete pits will be 18-8”' x 14' x 4', the base of the pit will be sloped to one end for leachate fluid collection.

The construction permit plans are attached following.

Solidification Facility

UNIVERSAL ENVIROMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

VICINITY MAP
N.T.S.

Owner
Universal Enviromental Solutions
1650 Hemlock Street
Tampa, Florida 36605

Civil Engineer
Baker Design Build
219 N. Newnan Street, 2nd Floor
Jacksonville, FL 32202
Ph: (904) 356-8520
Fx: (904) 559-2678

Surveyor
Survtech Solutions, Inc
10220 US-1, Highway 92
Tampa, Florida 33610
Ph: (813) 621-4929

KYLE F. DAVIS LICENSE No. 63071 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ENGINEER OF RECORD:
KYLE F. DAVIS, P.E.
BAKER DESIGN BUILD
219 N. NEWNAN STREET, 2ND FLOOR
JACKSONVILLE, FLORIDA 32202

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. AS INDICATED BY A (✓).

Sheet List Table

Sheet	Sheet Number	Sheet Title
✓	C1.0	Cover Sheet
✓	C1.1	General Site Notes
✓	C3.01	Site Geometry and Erosion & Sediment Control Plan
✓	C4.01	Truck Routing Plan
✓	C5.01	Grading & Drainage Plan
✓	CD1.0	Site Details
✓	CD3.0	Grading & Drainage Details
✓	CD4.0	Sediment & Erosion Control Details
✓	C8.0	Stormwater Pollution Prevention Plan
✓	C8.1	Stormwater Pollution Prevention Forms

GENERAL PROJECT INFORMATION

GENERAL	
City Development Number	-
Concurrency Application Number	-
Property Appraiser Number (RE #)	198755.1100
Zoning Designation	IH
PUD Ordinance Number	-
FIRM - Community - Panel	12057 C0354 H
Flood Zones (Show in Plans)	AE
Base Flood Elev. (Show in Plans)	-
Vertical Datum Used for Project	NAVD 88
	-

SUBDIVISION	
PSD Number	-
City or Private Inspection	-
Public or Private Roads	-
Subdivision ("911") Disk Provided?	-

NON-SUBDIVISION	
North American Industry Classification System (NAICS)	-
Impervious Area (Sq. Ft.)	-

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

BAKER Design Build
219 N. Newnan Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
2	4-22-22	PERMIT
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name
Cover Sheet

Sheet Number
C1.0

GENERAL SITE NOTES

1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF "CITY STANDARD SPECIFICATIONS FOR CITY OF TAMPA, FLORIDA", (LATEST REVISION), ALL CURRENT CITY STANDARD DETAILS, AND IF APPLICABLE, FLORIDA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD SPECIFICATIONS AND DETAILS.
2. SOIL BORINGS PERFORMED BY NAME DATED 00-00-00.
3. THIS PROPERTY LIES PARTIALLY WITHIN FLOOD ZONE "AE" ACCORDING TO FEMA COMMUNITY PANEL NO. 12057 C0354 H.
4. ELEVATIONS ARE BASED ON NAVD 88 DATUM.
5. TOPOGRAPHIC INFORMATION BASED ON SURVEY PROVIDED BY SURVTECH SOLUTIONS, INC.
6. BOUNDARY INFORMATION BASED ON SURVEY PROVIDED BY NAME.
7. LIMITS OF CONSTRUCTION SHALL BE, UNLESS OTHERWISE NOTED, THE PROPERTY LINES AS SHOWN ON THE DRAWINGS.
8. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A PRE-CONSTRUCTION VIDEO TAPE OF THE PROJECT AREA DETAILING THE EXISTING CONDITIONS ALONG THE CONSTRUCTION ROUTE. THIS VIDEO TAPE WILL USED TO HELP DETERMINE THE EXTENT AND NATURE OF REMOVAL AND REPLACEMENT ITEMS AND TO AIDE IN THE SETTLEMENT OF ANY DISPUTES ARISING POST CONSTRUCTION.
10. PRIOR TO STARTING CONSTRUCTION WITHIN THE RIGHT-OF-WAY AREAS, THE CONTRACTOR SHALL CONTACT EACH PROPERTY OWNER ALONG THE ROUTE OF THE WORK AREA AND LOCATE ANY EXISTING IRRIGATION/SPRINKLER SYSTEMS THAT WOULD BE AFFECTED BY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION/DAMAGE/REPLACEMENT OF ANY IRRIGATION/SPRINKLER SYSTEMS ON EITHER PRIVATE PROPERTY OR CITY OR STATE RIGHT-OF-WAYS, DUE TO DAMAGE FROM WORK BEING PERFORMED BY THE CONTRACTOR AND/OR SUB-CONTRACTORS. THE CONTRACTOR SHALL HAVE THREE(3) WORKING DAYS TO REPAIR THE DAMAGED IRRIGATION/SPRINKLER SYSTEM FROM THE DATE OF DAMAGE. IF THE IRRIGATION/SPRINKLER SYSTEM HAS NOT BEEN REPAIRED WITHIN THREE(3) WORKING DAYS, THE ENGINEER/CITY WILL NOTIFY THE CONTRACTOR IN WRITING THAT THE CONTRACTOR HAS FIVE(5) ADDITIONAL DAYS IN WHICH TO REPAIR THE DAMAGED IRRIGATION/SPRINKLER SYSTEM OR THE CITY WILL AUTHORIZE THE PROPERTY OWNER OF SAID DAMAGED AREA TO HAVE THE SYSTEM REPAIRED BY AN INDEPENDENT IRRIGATION/SPRINKLER SYSTEM COMPANY AND THAT COST WILL BE DEDUCTED FROM THE CONTRACTOR'S FINAL PRICE.
11. SHOULD A CONFLICT ARISE BETWEEN THE DETAILS SHOWN IN THESE DRAWINGS AND THE STANDARDS ISSUED BY THE APPLICABLE AGENCIES, THE STANDARDS ISSUED BY THE CONTROLLING AGENCY WILL GOVERN.
12. NO ADDITIONAL COMPENSATION, BASED UPON A COMPARISON BETWEEN THE CONTRACTORS ASSUMED QUANTITIES AND FINAL "IN PLACE" QUANTITIES SHALL BE ALLOWED. THE EXCEPTION SHALL BE THE AUTHORIZED CHANGES IN THE SCOPE OF WORK TO BE PERFORMED.
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF-SITE BORROW THAT WILL BE REQUIRED.
14. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. IF THE WORK IS IN PUBLIC RIGHT-OF-WAY OR EASEMENT, THE CONTRACTOR'S ONE YEAR WARRANTY SHALL EXTEND TO THE CITY OF TAMPA AND ASSOCIATED GOVERNMENT AGENCIES.
15. FOR PAVEMENT AND BUILDING GEOMETRY INFORMATION SEE ENGINEERING SITE PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BUILDING DIMENSIONS SHOWN ON THE ENGINEERING SITE PLAN AGREES WITH THE DIMENSIONS SHOWN ON THE ARCHITECTURAL PLAN. IF ANY DIMENSIONS DO NOT AGREE, THE ARCHITECT, ENGINEER AND OWNER SHALL BE NOTIFIED AND THE DIMENSIONS ADJUSTED PRIOR TO COMMENCING WITH CONSTRUCTION.
16. THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOILS TESTING IN ACCORDANCE WITH CITY REQUIREMENT AND THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND BUILDING PADS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY OF TAMPA OR FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY PERMITS FOR WORK WITHIN CITY OR STATE RIGHTS-OF-WAY OR EASEMENTS.
18. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR.
19. TO ENSURE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING PAVEMENT, THE CONTRACTOR SHALL SAWCUT AND REMOVE A TWELVE(12) INCH STRIP OF EXISTING PAVEMENT.
20. THE CONTRACTOR SHALL COORDINATE THE PAVING AND DRAINAGE CONSTRUCTION WITH ALL OTHER SITE AND UTILITY WORK.
21. ALL EASEMENTS ARE TO BE CLEARED AND DRIVABLE.
22. "AS-BUILT" DRAWINGS TO APPLICABLE AGENCIES, THE CITY OF TAMPA, DEPARTMENT OF PUBLIC WORKS, FLORIDA DEPARTMENT OF TRANSPORTATION, AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY OF TAMPA, JEA, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, AND SJRWMD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE AS-BUILT DRAWINGS FOR APPROVAL BY THE CITY OF TAMPA.
23. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
24. ALL CLEARING AND GRUBBING REQUIRED FOR ALL PAVEMENT, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHTS-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THIS PROJECT.
25. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
26. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
27. ALL DISTURBED AREAS EITHER ON-SITE OR OFF-SITE SHALL BE RESTORED AS FOLLOWS; PAVEMENT AND CONCRETE SHALL BE REPLACED MATCHING THE EXISTING, NON PAVED AREAS SHALL BE (SODDED OR SEEDED & MULCHED).
28. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
29. ALL UNSUITABLE MATERIAL UNDER BUILDINGS, PAVEMENT OR UTILITIES SHALL BE REMOVED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
30. ALL UNSUITABLE MATERIAL IS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR, UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
31. EXCESS SUITABLE MATERIAL IS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR, UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
32. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
33. THE BURNING OF TREES, BRUSH OR OTHER MATERIAL SHALL BE APPROVED BY AND COORDINATED WITH THE FIRE MARSHALL.
34. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
35. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STRUCTURES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
36. FOR ALL STANDARD DETAILS SEE CITY OF TAMPA AND IF APPLICABLE, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS, LATEST REVISION.
37. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBS, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
38. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AS SHOWN ON THE PLANS.
39. ALL DRAINAGE STRUCTURES SHALL HAVE TRAFFIC BEARING GRATES UNLESS NOTED OTHERWISE.
40. ALL DRAINAGE PIPE JOINTS IN CITY DRAINAGE EASEMENTS AND DRAINAGE RIGHT-OF-WAYS ARE TO BE FILTER-WRAPPED.
41. ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRECAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK, REDDI-MIX CONCRETE WITH #57 STONE.
42. UNSUITABLE MATERIALS UNDER WATER, SEWER, STORM PIPE AND STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
43. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
44. ALL WATER AND SEWER CONSTRUCTION WITHIN THE CITY OF TAMPA SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP A COPY OF HIS CURRENT LICENSE AND QUALIFIERS WITH THE DESIGN ENGINEER PRIOR TO START OF AND THROUGHOUT CONSTRUCTION.
45. CONTRACTOR SHALL PROVIDE, TO THE ENGINEER, A SCHEDULE OF INVERT ELEVATIONS OF ALL MANHOLES PRIOR TO THE PLACEMENT OF LIMEROCK BASE COURSE. THIS SCHEDULE IS TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.
46. THESE PLANS INCLUDING THE STORMWATER POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGES, AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES.
47. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS, THE SJRWMD CRITERIA, AND FDEP.
48. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLANDS AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER CITY OF TAMPA STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
50. IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE SJRWMD OR FDEP.
51. PRIOR TO ANY DISCHARGE OF GROUNDWATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUNDWATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUNDWATER) TO SURFACE WATERS OF THE STATE.
52. THE CONTRACTOR SHALL SUBMIT A "NOTICE OF INTENT" TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) RULES AND REGULATIONS.
53. THE CONTRACTOR SHALL ERECT ALL TREE PROTECTION FENCES AND LIMITS OF CONSTRUCTION FENCES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL CALL FOR INSPECTION BY THE CITY OF TAMPA LANDSCAPE DIVISION.
54. THE CONTRACTOR SHALL PROVIDE HANDICAP RAMPS AT ALL SIDEWALK AND CURB CONNECTIONS. HANDICAP RAMPS SHALL MEET ALL APPLICABLE ADA REQUIREMENTS.
55. ALL SEWER MAINS SHALL BE PVC (ASTM D3034) SDR-35 FOR DEPTHS TO 12 FEET, SDR-26 FOR DEPTHS GREATER THAN 12 FEET (OR FOR MAINS IN EASEMENTS) UNLESS OTHERWISE NOTED. FORCEMAINS TO BE PVC – DR18 PIPE UNLESS OTHERWISE NOTED.
56. WATER AND SEWER LINES ARE DESIGNED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
57. TIE RODDING OR MECHANICAL RESTRAINING DEVICES ARE REQUIRED IN ACCORDANCE WITH JEA STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.
58. UNLESS OTHERWISE NOTED, ALL WATERMAINS 4" AND GREATER SHALL BE DR18, C-900. ALL JEA OWNED WATERMAINS 2" AND SMALLER MUST BE HDPE.
59. ALL GATE VALVES SHALL BE JEA STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
60. PUBLIC FIRE HYDRANTS SHALL BE PAINTED YELLOW. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED.
61. TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. THIS SERVICE SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE SANITARY SEWER CONTRACT. ALL GRAVITY SEWER LINES SHALL BE VIDEO TAPED WITH AUDIO. ALL LINES TO BE CLEARED AND FLUSHED PRIOR TO BEING VIDEO TAPED. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE AND ONE COPY OF THE VIDEO TAPE SHALL BE SUBMITTED TO JEA WATER AND SEWER BUSINESS UNIT. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE. THE MAXIMUM DEFLECTION SHALL NOT EXCEED 7.5% IN ACCORDANCE WITH JEA STANDARDS.
62. THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
63. ALL NEW AND/OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN 8% LEAD AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN 8% LEAD AND ALL SOLDERS AND FLUX SHALL CONTAIN NO MORE THAN 0.2% LEAD.
64. ALL UTILITY STUBOUTS SHALL BE MARKED AS FOLLOWS:

SANITARY SEWER	4X4 P.T. POST PAINTED RED
WATER	4X4 P.T. POST PAINTED BLUE
STORM	4X4 P.T. POST PAINTED GREEN

ALL STUBOUTS SHALL BE MARKED ON CURB WITH "W", "SS" OR "ST".

65. CONTRACTOR SHALL OBTAIN A COPY OF JEA, WATER AND SEWER PERMITS, FROM THE ENGINEER PRIOR TO CONSTRUCTION.
66. CONTRACTOR SHALL FURNISH AND INSTALL LOCATE WIRING ON ALL PVC WATER MAINS, FORCE MAINS, POLYETHYLENE AND PVC WATER SERVICES. INSTALLATION SHALL BE IN ACCORDANCE WITH JEA WATER AND SEWER STANDARDS DATED APRIL, 2001 SECTION 350 PARAGRAPH 3.10 LOCATE WIRE AND SECTION 429 PARAGRAPH 3.12 LOCATE WIRE.
67. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN ON THE PLANS AND DETAIL SHEETS.
68. ANY REQUIRED TEMPORARY MARKINGS MUST BE IN PLACE BEFORE OPENING LANES OF TRAFFIC. PAY ITEMS FOR TEMPORARY PAVEMENT MARKINGS ARE TO BE INCLUDED IN THE TABULATION OF QUANTITIES.
69. THE REMOVAL OF EXISTING PAVEMENT MARKINGS WILL CONSIDERED AN INCIDENTAL ITEM WITH NO ADDITIONAL COMPENSATION PROVIDED.
70. ALL PERMANENT PAVEMENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND MEET CURRENT CITY OF TAMPA SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
71. THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED NO SOONER THAN 30 CALENDAR DAYS AFTER THE COMPLETION OF THE FINAL PAVEMENT LAYER.
72. A BITUMINOUS REFLECTIVE PAVEMENT MARKER (RPM) ADHESIVE MEETING CURRENT CITY OF TAMPA AND/OR FDOT SPECIFICATIONS SHALL BE USED ON ASPHALT ROADWAYS.
73. THE CONTRACTOR SHALL USE CLASS-B REFLECTIVE PAVEMENT MARKERS (RPMs) INSTALLED TO MEET CURRENT CITY OF TAMPA SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS.
74. REFLECTIVE PAVEMENT MARKERS THAT DO NOT CONFLICT WITH PERMANENT (THERMOPLASTIC) MARKINGS SHALL BE PLACED ON ALL FINAL ASPHALTIC CONCRETE SURFACES IMMEDIATELY AFTER THE TEMPORARY PERMANENT STRIPING IS IN PLACE.
75. PAVEMENT MARKINGS REMOVAL;
    a. PAINT BLACKOUT METHOD OF PAVEMENT MARKINGS REMOVAL IS NOT ACCEPTABLE.
    b. GRINDING OF HYDRO BLAST METHODS SHALL BE USED ON WEATHERED ASPHALT SURFACES.
    c. REMOVAL ON NEW ASPHALT SURFACES SHALL BE BY HYDRO BLAST METHOD ONLY.
76. THE CONTRACTOR SHALL CONTACT THE PAVEMENT MARKING INSPECTOR (904) 255-7550, 48 HOURS PRIOR TO INSTALLING ANY PAVEMENT MARKINGS ON ANY CITY OF TAMPA ROADWAY OR STREET.
77. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS OF THE CITY OF TAMPA AND THE SPECIFICATIONS OF THE FDOT, THE CITY OF TAMPA WILL PREVAIL.

CITY OF TAMPA PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION PAVEMENT MARKING STANDARDS:

1. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN ON THE PLANS AND DETAIL SHEETS.
2. ANY REQUIRED TEMPORARY MARKINGS MUST BE IN PLACE BEFORE OPENING LANES OF TRAFFIC. PAY ITEMS FOR TEMPORARY PAVEMENT MARKINGS ARE TO BE INCLUDED IN THE TABULATION OF QUANTITIES.
3. THE REMOVAL OF EXISTING PAVEMENT MARKINGS WILL BE CONSIDERED AN INCIDENTAL ITEM WITH NO ADDITIONAL COMPENSATION PROVIDED.
4. ALL PERMANENT PAVEMENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND MEET CURRENT CITY OF TAMPA SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
5. THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED NO SOONER THAN 30 CALENDAR DAYS AFTER THE COMPLETION OF THE FINAL PAVEMENT LAYER.
6. A BITUMINOUS REFLECTIVE PAVEMENT MARKER (RPM) ADHESIVE MEETING CURRENT CITY OF TAMPA AND/OR FDOT SPECIFICATIONS SHALL BE USED ON ASPHALT ROADWAYS.
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9. PAVEMENT MARKING REMOVAL;
    (a) PAINT BLACKOUT METHOD OF PAVEMENT MARKINGS IS NOT ACCEPTABLE.
    (b) GRINDING OR HYDRO BLAST METHODS SHALL BE USED ON WEATHERED ASPHALT SURFACES.
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11. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS OF THE CITY OF TAMPA AND THE SPECIFICATIONS OF THE FDOT, THE CITY OF TAMPA WILL PREVAIL.

LEGEND

CITY – CITY OF TAMPA (TB)

FDEP – FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

SJRWMD – ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

JEA – JACKSONVILLE ELECTRIC AUTHORITY

F.A.C. – FLORIDA ADMINISTRATIVE CODE

NPDES – NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

BAKER Design Build
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C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
2	4-22-22	PERMIT
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

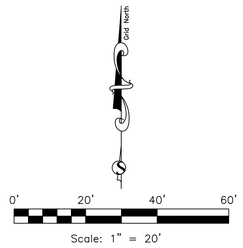
Sheet Name
General Site Notes

Sheet Number
C1.1

Legend of Symbols & Abbreviations

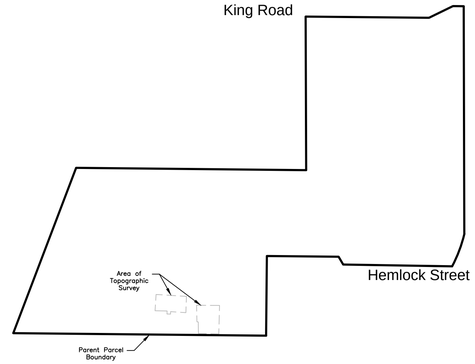
PSM	Professional Surveyor and Mapper		Power Pole
Id.	Identification		Guy Wire
LB	Licensed Business	—x—x—	Fence
OR	Official Records	—OL—OL—	Overhead Utility Lines
	Fire Connect Valve		Round Post
	Cleanout		Palm
+5.5	Spot Elevation		Temporary Benchmark
+5.5	Spot Elevation on Hard Surface	TBM	Temporary Benchmark
	Electric Transformer		

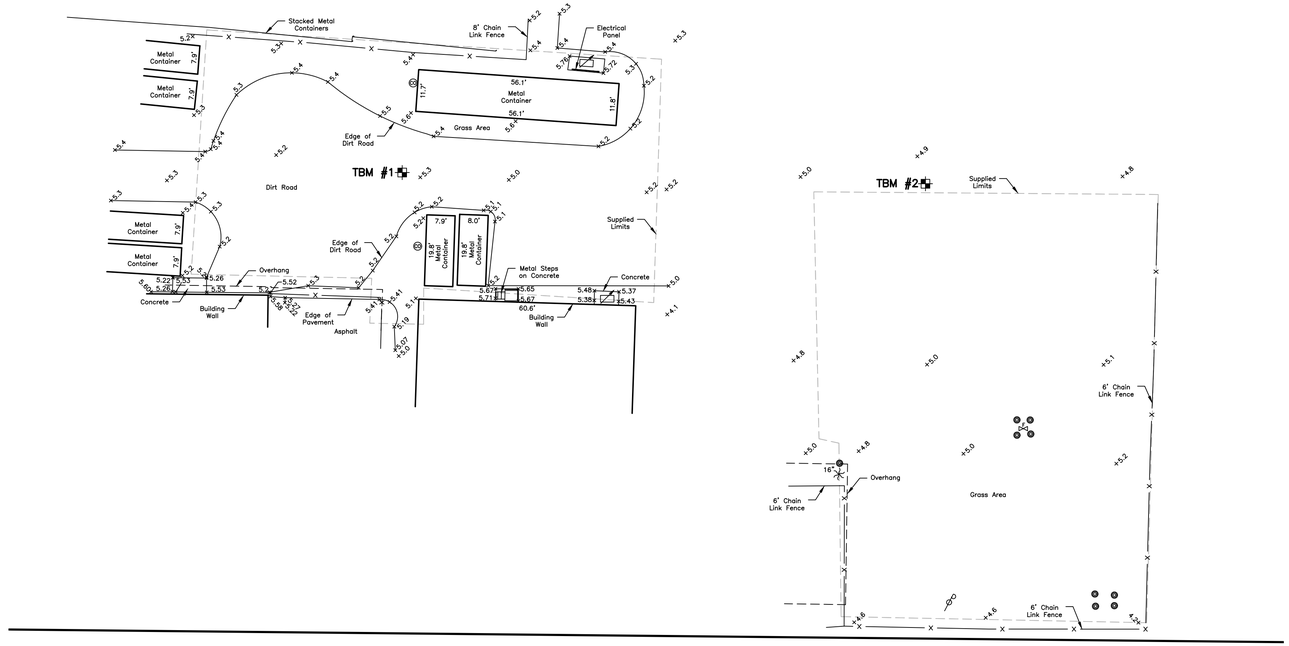
Topographic Survey
Hendry Marine - Port Tampa
Section 19, Township 28 South, Range 19 East
Hillsborough County, Florida



Area of Topographic Survey

Scale: 1" = 300'





Benchmark Information: NAVD 1988

TBM #1
Northing: 1310411.9
Easting: 513399.4
Elevation = 5.28
Set 5/8" Capped Iron Rod "SurvTech Trav. Pt" in dirt road.

TBM #2
Northing: 1310408.8
Easting: 513545.7
Elevation = 4.99
Set 5/8" Capped Iron Rod "SurvTech Trav. Pt" in dirt area.

Certifications:
Port Hendry, LLC

Surveyor's Notes

1.) Paper copies of this survey are not valid without the original signature and raised seal of a Florida Licensed Surveyor and Mapper. Digital copies are not valid without the digital signature of a Florida Licensed Surveyor and Mapper.
2.) The horizontal datum utilized for this project is NAD 1983 Florida West Zone, 2011 Adjustment, U.S. Survey Feet. Said datum was established by utilizing the Florida Permanent Reference Network (FPRN).
3.) The vertical datum utilized for this project is NAVD 1988, U.S. Survey Feet. The benchmark utilized was National Geodetic Survey (NGS) Control Station "872 6688 C TIDAL" with an elevation of 5.79 feet.
4.) Not all interior improvements as shown.
5.) No underground foundations or footers were excavated or located for this survey.
6.) This Survey has been performed without benefit of title policy or abstract. Therefore surveyor can make no guarantees to ownership or encumbrances. There may be additional easements and restrictions that can be found within the Public Records of Hillsborough County.

Stacy L. Brown PSM No. 6516
SurvTech Solutions, Inc. LB No. 7340

Project Name: Port Hendry, LLC		*Project No.: 20180369*	
Address: 1650 Hemlock Street	*City: Tampa*		*State: Florida*

REVISION	DATE	INITIALS

SURVEYING TODAY WITH TOMORROW'S TECHNOLOGY

Drafted By: M. Rook	*Drawing Name: 20180369_2T*
Date Drafted: 03/15/22	*Project Id: 22232*
Approved By: S. Brown	*Last Field Date: 03/21/22*
Date Approved: 03/23/22	*Field Book/Page: N/A*

SURVTECH SOLUTIONS, INC.
10220 U.S. Highway 92 East
Tampa, FL 33610
phone: (813)-621-4929
fax: (813)-621-7194
Licensed Business #7340
email: sbrown@survtechsolutions.com
http://www.survtechsolutions.com

Date Plotted: 3/24/2022 12:10:05 PM By: Micahel D. Rook

SITE DEVELOPMENT SUMMARY:

REAL ESTATE No (RE#): 198755.1100
SITE AREA = 31.91 ACRES
DEVELOPMENT AREA = 0.25 ACRES
ZONING = IH
FLOOD = 12057 C0354 (AE)

10" W.M.

0 2.5' 5' 10'
SCALE 1" = 5'

STACKED METAL CONTAINERS

8' CHAIN LINK FENCE

ELECTRICAL PANEL

ELEC

RELOCATE EXISTING CONTAINER

METAL CONTAINER 7.9'

RELOCATE EXISTING CONTAINER

METAL CONTAINER 7.9'

RELOCATE EXISTING CONTAINER

11.7'

56.1'

METAL CONTAINER

GRASS AREA

EDGE OF DIRT ROAD

TBM #1

DIRT ROAD

DIRT ROAD

CONTRACTOR TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT DURING CONSTRUCTION.

MH 6.28

RELOCATE EXISTING CONTAINER

RELOCATE EXISTING CONTAINER

METAL CONTAINER 7.9'

RELOCATE EXISTING CONTAINER

METAL CONTAINER 7.9'

EDGE OF DIRT ROAD

METAL CONTAINER 19.6'

METAL CONTAINER 19.6'

RELOCATE EXISTING CONTAINER

OVERHANG

CONCRETE

BUILDING WALL

EDGE OF PAVEMENT

ASPHALT

MASONRY BUILDING F.F.E.=6.51

MASONRY BUILDING F.F.E. = 8.72

METAL STEPS ON CONCRETE

CONCRETE

INV=5.12

60.6'

BUILDING WALL

BAKER Design Build
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p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
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-	-	-
-	-	-
-	-	-
-	-	-
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SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name
Demolition Plan

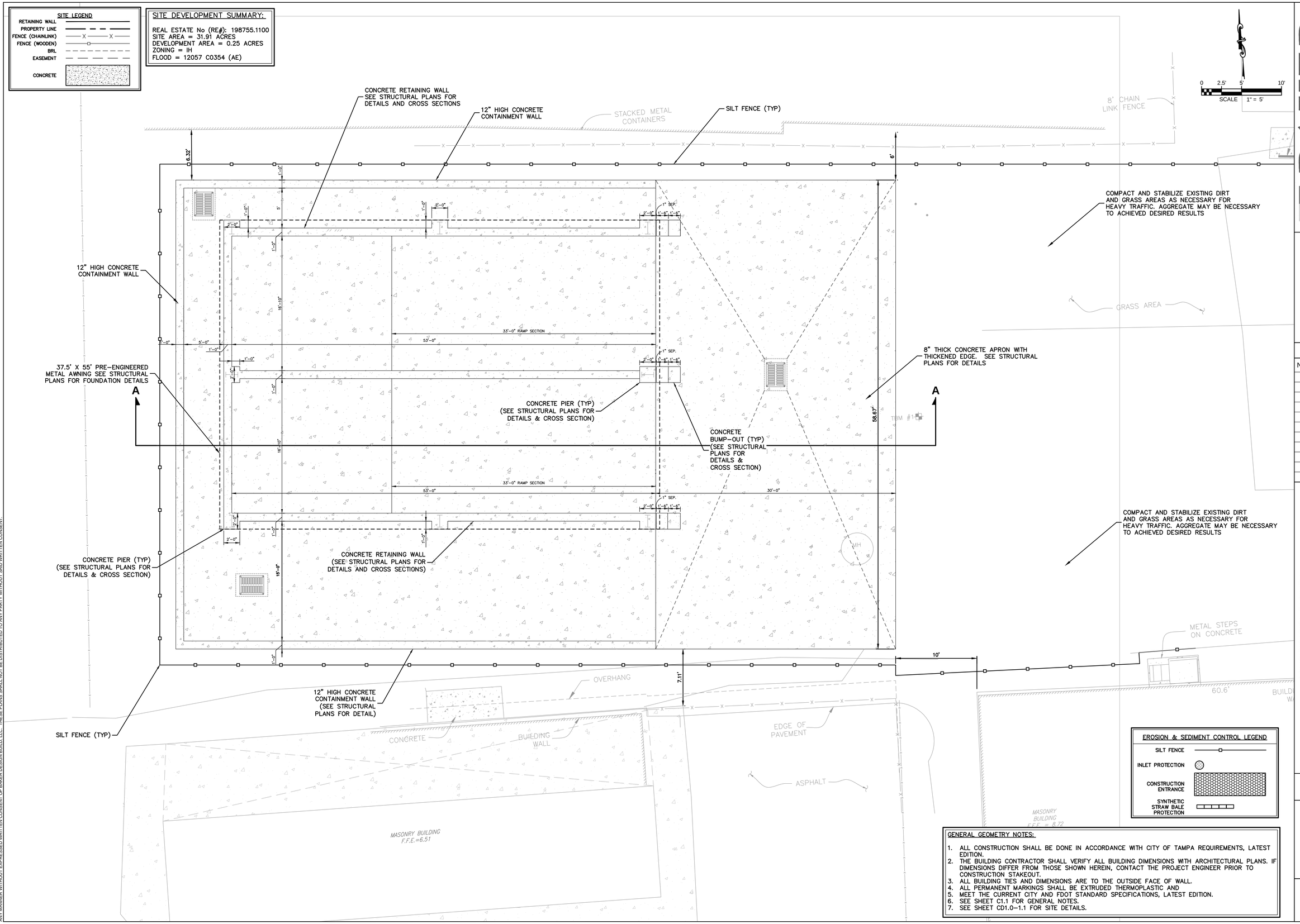
Sheet Number
C2.01

SITE LEGEND

RETAINING WALL
PROPERTY LINE
FENCE (CHAINLINK)
FENCE (WOODEN)
BRL
EASEMENT
CONCRETE

SITE DEVELOPMENT SUMMARY:

REAL ESTATE No (RE#): 198755.1100
SITE AREA = 31.91 ACRES
DEVELOPMENT AREA = 0.25 ACRES
ZONING = IH
FLOOD = 12057 C0354 (AE)



EROSION & SEDIMENT CONTROL LEGEND

SILT FENCE
INLET PROTECTION
CONSTRUCTION ENTRANCE
SYNTHETIC STRAW BALE PROTECTION

GENERAL GEOMETRY NOTES:

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH CITY OF TAMPA REQUIREMENTS, LATEST EDITION.
2. THE BUILDING CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS. IF DIMENSIONS DIFFER FROM THOSE SHOWN HEREIN, CONTACT THE PROJECT ENGINEER PRIOR TO CONSTRUCTION STAKEOUT.
3. ALL BUILDING TIES AND DIMENSIONS ARE TO THE OUTSIDE FACE OF WALL.
4. ALL PERMANENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND
5. MEET THE CURRENT CITY AND FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
6. SEE SHEET C1.1 FOR GENERAL NOTES.
7. SEE SHEET CD1.0-1.1 FOR SITE DETAILS.

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C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
2	4-22-22	PERMIT
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-

SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

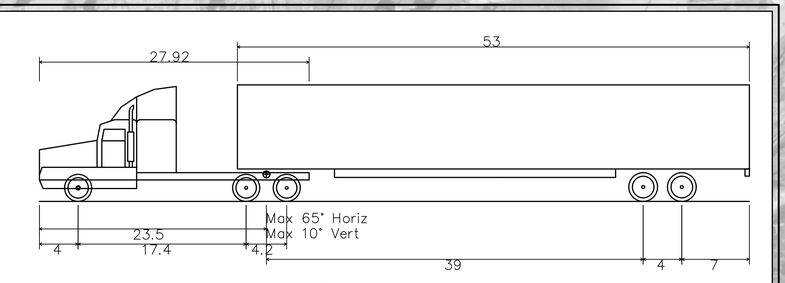
Project Number
21-0220

Sheet Name
Site Layout and Erosion & Sediment Control Plan

Sheet Number
C3.01

SCALE: 1" = 40'-0"

0 20' 40' 80'



WB-62 - Interstate Semi-Trailer	
Overall Length	73.500ft
Overall Width	8.500ft
Overall Body Height	12.052ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	45.000ft

BAKER Design Build

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C.A No. 32489

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REVISIONS

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-	-	-
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-	-	-
-	-	-
-	-	-

SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

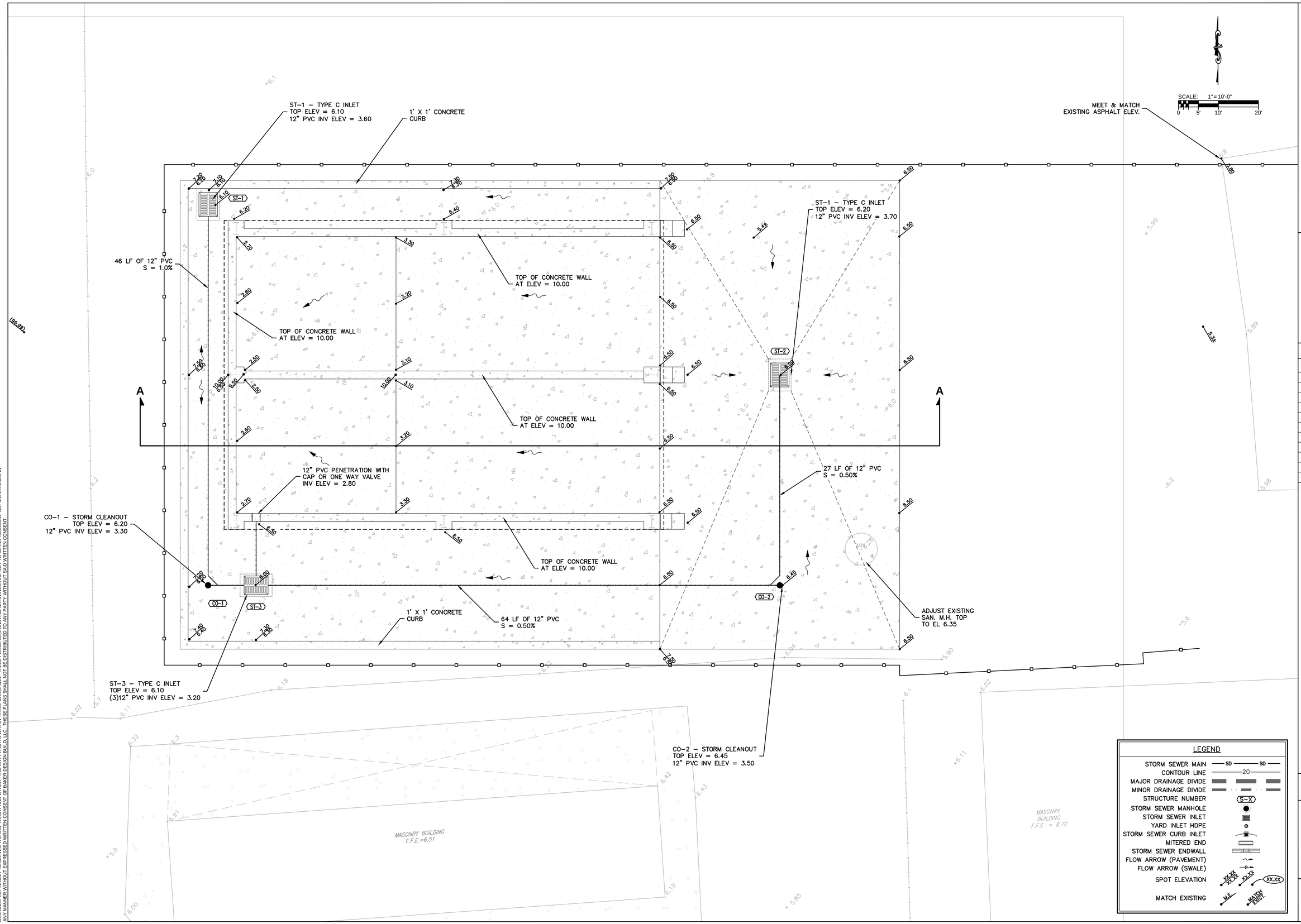
Project Number
21-0220

Sheet Name

Truck Routing Plan

Sheet Number

C4.01



LEGEND

STORM SEWER MAIN	SD — SD
CONTOUR LINE	20
MAJOR DRAINAGE DIVIDE	
MINOR DRAINAGE DIVIDE	
STRUCTURE NUMBER	S-X
STORM SEWER MANHOLE	
STORM SEWER INLET	
YARD INLET HDPE	
STORM SEWER CURB INLET	
MITERED END	
STORM SEWER ENDWALL	
FLOW ARROW (PAVEMENT)	
FLOW ARROW (SWALE)	
SPOT ELEVATION	XX.XX
MATCH EXISTING	M.E. MATCH EXIST.

BAKER Design Build
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C.A No. 32489

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-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name
Grading & Drainage Plan

Sheet Number
C5.01

OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
UNIVERSAL ENVIROMENTAL SOLUTIONS
1650 HEMLOCK STREET
TAMPA, FLORIDA 36605

OWNER NAME AND ADDRESS:
UNIVERSAL ENVIROMENTAL SOLUTIONS
1650 HEMLOCK STREET
TAMPA, FLORIDA 36605

DESCRIPTION: THIS PROJECT WILL CONSIST OF:
SOLIDIFICATION FACILITY

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR THE SEDIMENTATION POND, STORM SEWER, UTILITIES, AND BUILDING FOUNDATION; CONSTRUCTION OF CURB AND GUTTER, ROAD, AND PARKING AREAS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

RUNOFF CURVE NUMBERS

1. PRE–CONSTRUCTION = 00
2. DURING CONSTRUCTION = 00
3. POST–CONSTRUCTION = 00

SOILS:
SEE GEOTECHNICAL REPORT FOR SOILS DATA SITE MAPS:

* SEE ATTACHED PAVING AND DRAINAGE SHEET C5.0 FOR ALL GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.

* SEE ATTACHED SHEET C7.0 FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS.

SITE AREA:
1. TOTAL AREA OF SITE = 31.91 AC.
2. TOTAL AREA TO BE DISTURBED = 0.94 AC.

NAME OF RECEIVING WATERS: ––

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DRAWING NO. C–540 HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY CURB AND GUTTER STORM SEWER, CURB INLETS AND CATCH BASINS FOR THE DEVELOPED AREAS. AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF 0.94 ACRES± WILL HAVE BEEN REGRADED WHERE PRACTICAL, THE TEMPORARY SEDIMENT BASIN WILL BE IN THE LOCATION OF THE PERMANENT RETENTION BASIN. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM SEDIMENT BASIN, AND THE AREAS ON THE SIDE OF THE BASIN WILL BE PLANTED WITH VEGETATION. THE WET DETENTION SYSTEM IS DESIGNED WITH A 21 DAY MINIMUM RESIDENCE VOLUME. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.

REFER TO " CONTRACTORS REQUIREMENTS" FOR THE TIMING OF CONTROL/MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

D.E.P. DREDGE/FILL PERMIT # ____________
C.O.E. DREDGE/FILL PERMIT # ____________
S.J.R.W.M.D. M.S.S.W. PERMIT # ____________

CITY OF JACKSONVILLE DEVELOPMENT PERMIT # ____________

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: ______________________________

TITLE: ______________________________
CORPORATE OFFICER, GENERAL PARTNER, PROPRIETOR, EXECUTIVE OFFICER, OR RANKING ELECTED OFFICIAL

DATE: ______________________________

CONTRACTOR'S REQUIREMENTS

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED
3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN
4. CONSTRUCT SEDIMENTATION BASIN
5. CONTINUE CLEARING AND GRUBBING
6. STOCK PILE TOP SOIL IF REQUIRED
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.
10. APPLY BASE TO PARKING AREAS
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING
12. COMPLETE FINAL PAVING
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED

NOTE: VERTICAL CONSTRUCTION OF THE BUILDING WILL BE TAKING PLACE DURING ALL THE SEQUENCE STEPS LISTED ABOVE

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN. (DWG. NO.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED,TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES

1. STRAW BALE BARRIER: STRAW BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
   C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
   D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT–FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF–SITE DEPOSIT OF SEDIMENTS.
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF–SITE SHALL BE PROTECTED FROM SEDIMENT–LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE–EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG–TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE:
   TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT–TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP:
   A SEDIMENT TRAP IS USUALLY INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS:
   A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA.
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY–TO–DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY–TO–DAY SITE OPERATIONS,WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

Concrete, Fertilizers, Wood, Asphalt, Petroleum Based Products, Masonry Blocks, Tar, Cleaning Solvents, Roofing Materials, Detergents, Paints, Metal Studs

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY–TO–DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE–THIRD THE HEIGHT OF THE FENCE.
* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM SHALL BE COMPLETED BY THE INSPECTOR

THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON–COMPLIANCE.

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON–STORM WATER DISCHARGES

* IT IS EXPECTED THAT THE FOLLOWING NON–STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:
* WATER FROM WATER LINE FLUSHING
* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION). ALL NON–STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DEWATERING

PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62–621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62–621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62–621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62–621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUB–CONTRACTOR
		SUB–CONTRACTOR
		SUB–CONTRACTOR
		SUB–CONTRACTOR

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REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
2	4-22-22	PERMIT
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

SOLIDIFICATION FACILITY
UNIVERSAL ENVIRONMENTAL SOLUTIONS
1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name
Stormwater Pollution Prevention Plan

Sheet Number
C8.0

LOCATION & TYPE	MATERIAL DESCRIPTION	LIFT THICKNESS	TEST METHOD	COMPACTION	MOISTURE CONTENT
BUILDING SUBGRADE (5' BEYOND PERIMETER)	EXISTING SANDY SOILS OR COMPACTED FILL CONSISTING OF NON-PLASTIC, INORGANIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE No. 200 MESH SIEVE	12"	MODIFIED PROCTOR	95%	N/A
PAVEMENT SUBGRADE TO A DEPTH OF 30" BELOW BASE (5' BEYOND PERIMETER)	EXISTING SANDY SOILS OR COMPACTED FILL CONSISTING OF NON-PLASTIC, INORGANIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE No. 200 MESH SIEVE	12"	MODIFIED PROCTOR	98%	N/A
LIMEROCK BASE	FDOT LIMEROCK, LBR = 100	6"	MODIFIED PROCTOR	100%	N/A
PAVEMENT SUBBASE	EXISTING SANDY SOILS OR COMPACTED FILL CONSISTING OF NON-PLASTIC, INORGANIC, GRANULAR SOIL, LBR = 40	6"	MODIFIED PROCTOR	98%	N/A
LANDSCAPE AREAS	EXISTING ON-SITE SOILS	12"	MODIFIED PROCTOR	90%	N/A
EXISTING GROUND SURFACES TO RECEIVE FILL IN BUILDING AND PAVEMENT AREAS	EXISTING SANDY SOILS	N/A	PROOF ROLL AS DESCRIBED BELOW	N/A	N/A

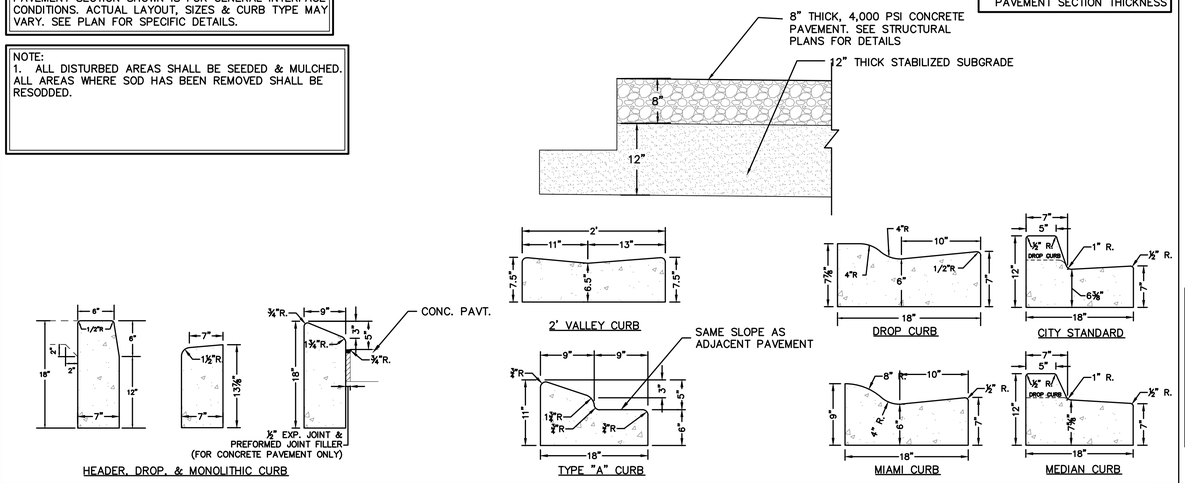
PROOF ROLLING TO BE ACCOMPLISHED UNDER THE DIRECTION OF THE ENGINEER.

SPECIFICATIONS FOR SUBGRADE, SUBBASE AND BASE MATERIALS

1 / CD1.0

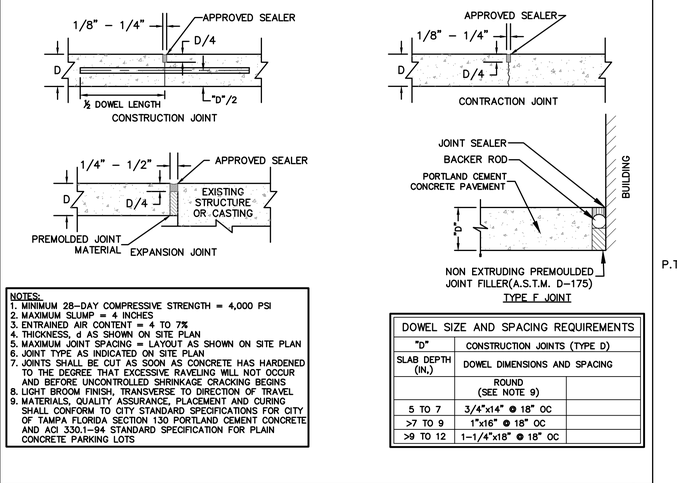
PAVEMENT SECTION SHOWN IS FOR GENERAL INTERFACE CONDITIONS. ACTUAL LAYOUT, SIZES & CURB TYPE MAY VARY. SEE PLAN FOR SPECIFIC DETAILS.

NOTE:
1. ALL DISTURBED AREAS SHALL BE SEEDED & MULCHED. ALL AREAS WHERE SOD HAS BEEN REMOVED SHALL BE RESODDED.



SIDEWALK, ASPHALT AND CURB SECTION

5 / CD1.0



DOWEL SIZE AND SPACING REQUIREMENTS		
"D"	CONSTRUCTION JOINTS (TYPE D)	
SLAB DEPTH (IN.)	DOWEL DIMENSIONS AND SPACING	
	ROUND (SEE NOTE 9)	
5 TO 7	3/4"x14" @ 18" OC	
>7 TO 9	1"x16" @ 18" OC	
>9 TO 12	1-1/4"x18" @ 18" OC	

CONCRETE PAVEMENT SECTION

6 / CD1.0

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REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
2	4-22-22	PERMIT
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-

SOLIDIFICATION FACILITY

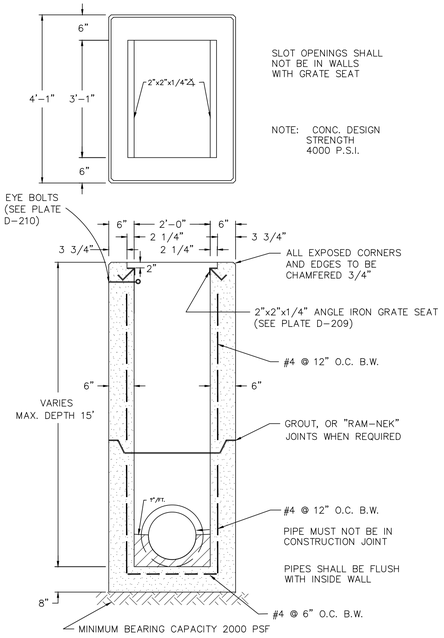
UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

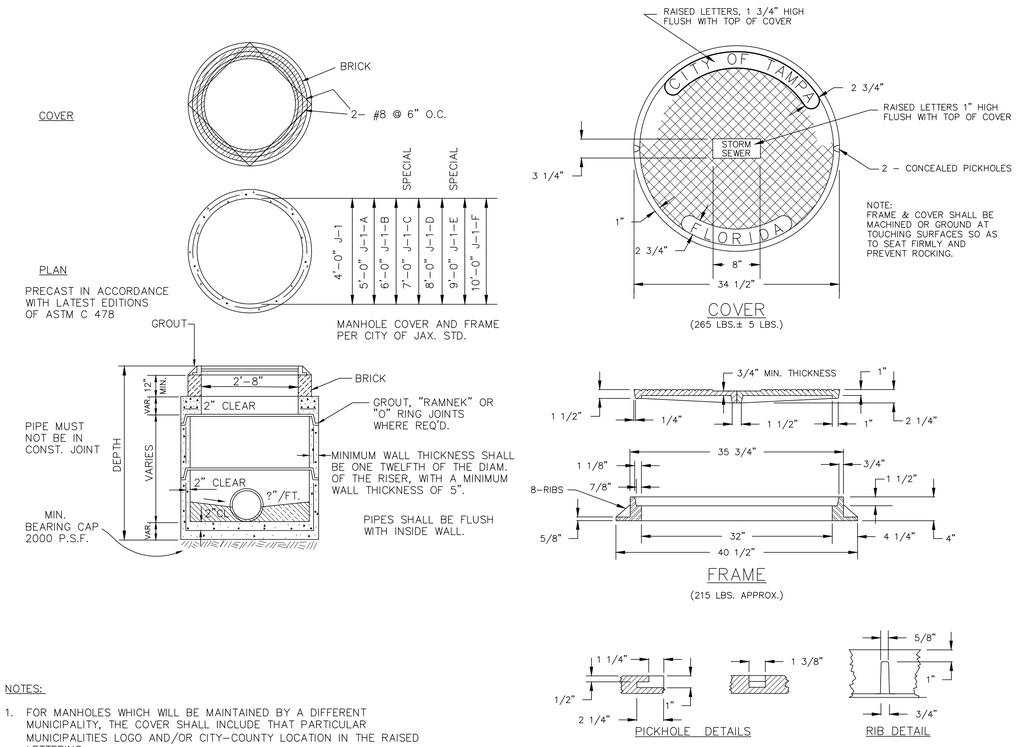
Project Number
21-0220

Sheet Name
Site Details

Sheet Number
CD1.0



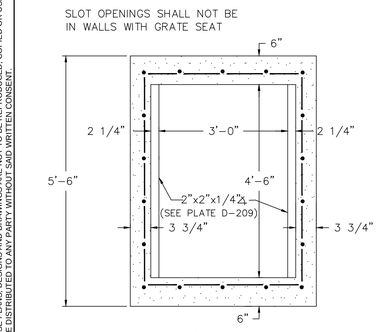
TYPE C INLET (1)

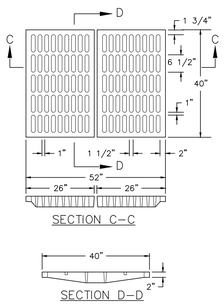


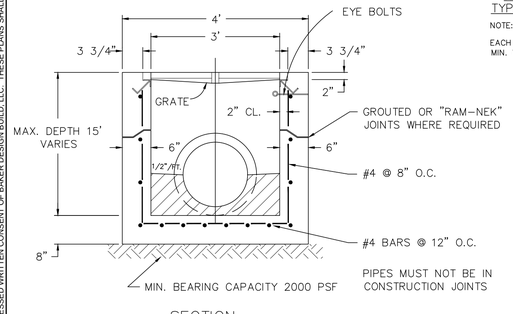
NOTES:

1. FOR MANHOLES WHICH WILL BE MAINTAINED BY A DIFFERENT MUNICIPALITY, THE COVER SHALL INCLUDE THAT PARTICULAR MUNICIPALITIES LOGO AND/OR CITY-COUNTY LOCATION IN THE RAISED LETTERING.

STORM SEWER MANHOLE TYPE J-1 THRU J-1-F (2)

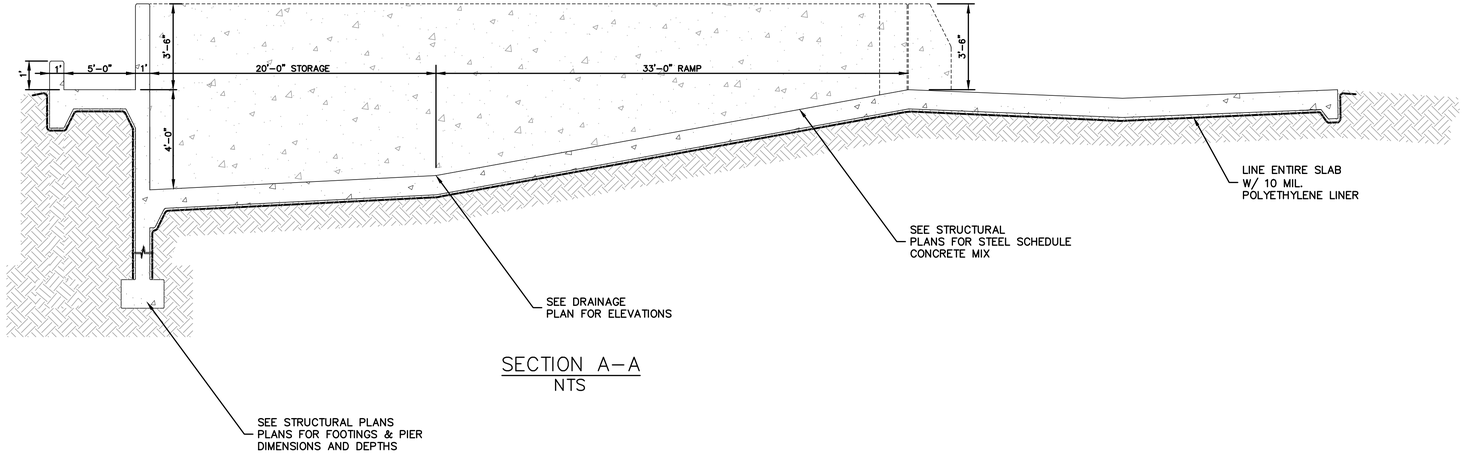






NOTE: CONC. DESIGN STRENGTH 4,000 P.S.I.

TYPE E INLET (4)



SECTION A-A
NTS

TYPICAL SECTION (5)

BAKER Design Build
219 N. Newman Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
1	2-22-22	PERMIT
2	4-22-22	PERMIT
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name

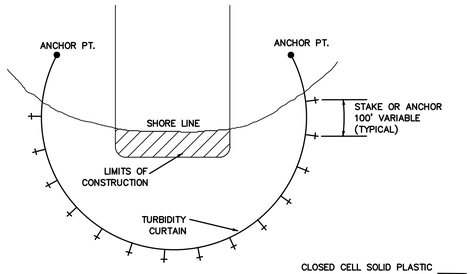
Grading & Drainage Details

Sheet Number

CD3.0

SEDIMENT & EROSION CONTROL NOTES

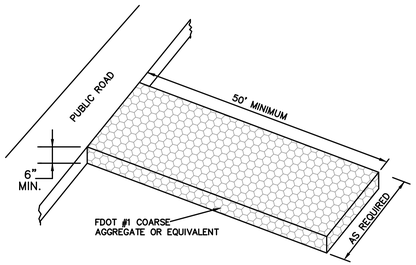
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. SYNTHETIC BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. SYNTHETIC BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE SYNTHETIC BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH SYNTHETIC BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE SYNTHETIC STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. SYNTHETIC STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED SYNTHETIC BALES, END RUNS AND UNDERCUTTING BENEATH SYNTHETIC BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF SYNTHETIC BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE STRAW BALE OR FILTER BARRIERS, AND OR SILIT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
20. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.
24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTRUREB AREAS THROUGH COMPACTION, SILT SCREENS, HAY BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
32. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND CITY OF JACKSONVILLE STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.
35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT).



NOTES:
D1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2 = 5' STD. (ADDITIONAL PANEL FOR DEPTH >5')
CURTAIN TO REACH BOTTOM. ADDITIONAL PANELS TO BE USED TO REACH BOTTOM IF SINGLE ROW DOES NOT REACH.

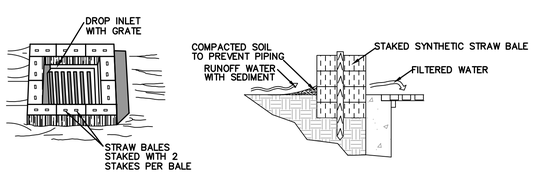
FLOATING TURBIDITY BARRIER

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

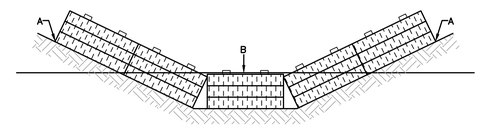


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

SYNTHETIC STRAW BALE DROP INLET SEDIMENT FILTER

N.T.S.

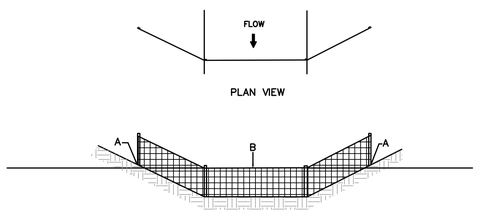


POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF SYNTHETIC STRAW BALE

IN A DRAINAGE WAY

N.T.S.

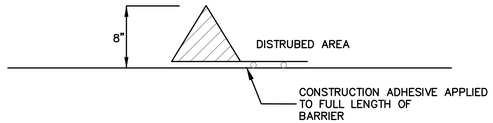


POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF A

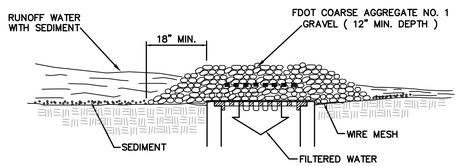
FILTER BARRIER IN DRAINAGE WAY

N.T.S.



8" SILT DIKE

N.T.S.



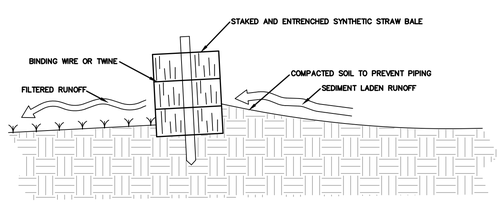
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH DROP INLET

SEDIMENT FILTER

N.T.S.

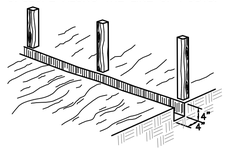


CROSS-SECTION OF A PROPERLY

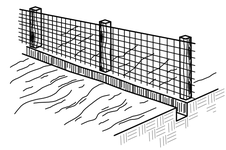
INSTALLED SYNTHETIC STRAW BALE

N.T.S.

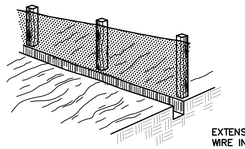
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



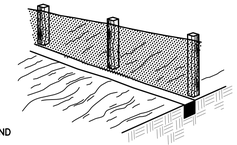
2. STAPLE WIRE FENCING TO THE POSTS.



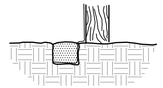
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



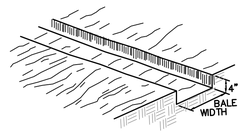
EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.



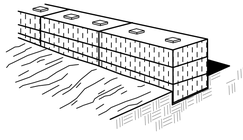
CONSTRUCTION OF SILT FENCE

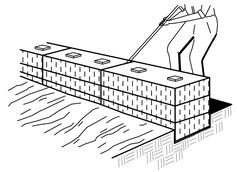
N.T.S.

1. EXCAVATE THE TRENCH

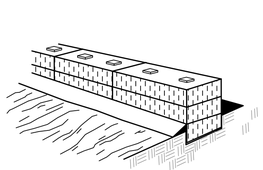


2. PLACE AND STAKE STRAW BALES.





3. WEDGE LOOSE SYNTHETIC STRAW BETWEEN BALES.

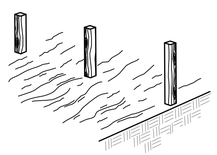


4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

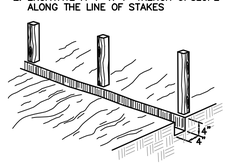
CONSTRUCTION OF A SYNTHETIC STRAW BALE BARRIER

N.T.S.

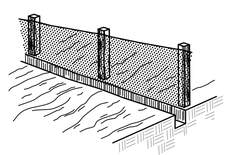
1. SET THE STAKES.



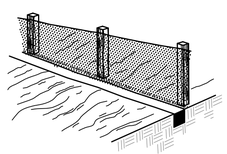
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL



CONSTRUCTION OF A FILTER BARRIER

N.T.S.

BAKER Design Build
219 N. Newman Street, 2nd Floor, Jacksonville FL 32202
p 904 356 8520 f 904 559 2678 bakerdesign.build
C.A No. 32489

Kyle F. Davis, P.E.
FL Reg. 63071

REVISIONS

No.	Date	Revision
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-
-	-	-

SOLIDIFICATION FACILITY

UNIVERSAL ENVIRONMENTAL SOLUTIONS

1650 Hemlock Street
Tampa, Florida 36605

Project Number
21-0220

Sheet Name

Sediment & Erosion Control Details

Sheet Number

CD4.0

BAKER DESIGN BUILD

219 N. NEWNAN ST. 2ND FLOOR
Tampa, FL 32202

PROJECT: Universal Enviromental
1650 Hemlock St
Tampa, FL 33605

JOB ID # AS2227

All Steel Buildings & Components, Inc.
2022
10159 U.S. Hwy. 41 South
Gibsonton, FL. 33534
PH# (813) 671-8044
Fax# (813) 671-8602
Email: allsteel-buildings.com

APPROVAL OF A.S.B.C.I. DRAWINGS INDICATE THAT A.S.B.C.I. CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.
WHERE DISCREPANCIES EXIST BETWEEN THE A.S.B.C.I. PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 4.2.1 AISC CODE OF STANDARD PRACTICE 9TH ED.)
DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY A.S.B.C.I. ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN A.S.B.C.I. UNLESS SPECIFICALLY INDICATED.

BUILDING LOADS / DESCRIPTION:

WIDTH: 54 LENGTH: 38.67 HEIGHT: 21.75 /26.25
(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY : FBC 20 7th EDITION .

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	3.000	PSF (ROOF PANELS & PURLINS)
COLLATERAL LOAD:	0	PSF
ROOF LIVE LOAD:	20.00	PSF
ROOF SNOW LOAD:	0	PSF
BASIC WIND SPEED:	145	MPHult/114 ASD. 3 SEC. GUST
SEISMIC ZONE:	A	
RISK CATEGORY	II	
SNOW LOAD	0	
SEISMIC LOAD	0	

OTHER LOADS

ROOF PANELS:

COLOR: Galvalume Plus

WALL PANELS:

COLOR: NEED COLOR

TRIM COLORS:

GABLE: NEED COLOR
GUTTER: NEED COLOR
DOWN SPOUTS: NEED COLOR
EAVE: NEED COLOR
FRAMED OPENINGS: NEED COLOR
CORNER: NEED COLOR
BASE TRIM: NEED COLOR

LINER PANELS:

COLOR:

LINER TRIM:

COLOR:

SPECIAL NOTES:

ENGINEER'S NOTES:

1) BASIC WINDSPEED=145 MPH ult/114 ASD. 3 SEC. GUST
2) RISK CATEGORY - II
3) THE EXPOSURE CATAGORY= C
4) ENCLOSURE CLASSIFICATION: Open
5) ALL STRUCTURAL STEEL: ASTM-A36
6) THE DESIGN WIND PRESSURE FOR C&C AS PER ASCE 7-16
7) CONSTRUCTION TYPE: TYPE IIB
8) OCCUPANCY: S2

BOLT TORQUE

Description:	Type:	Torque:
1/2" x 1" Bolt	A325	100 foot pounds
5/8" x 1" Bolt	A325	140 foot pounds
1/2" x 1" Bolt	A307	45 foot pounds
1/2" x 1" Bolt	FN NECK	105 foot pounds
5/8" x 2" Bolt	A325	140 foot pounds
3/4" x 2" Bolt	A325	250 foot pounds
1/2" x 1 1/4" Bolt	A307	45 foot pounds
3/4" x 18" Anchor Bolt	ASTMA 307	105 foot pounds

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-16 & THE FLORIDA BUILDING CODE 2020 7TH EDITION

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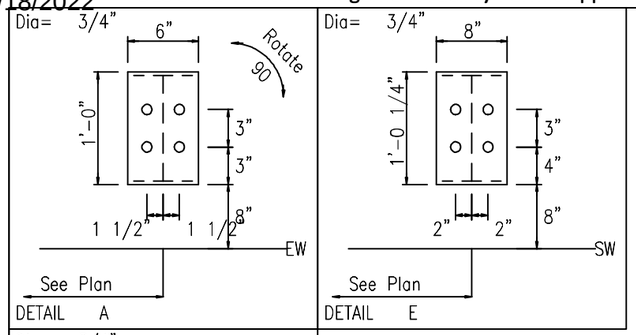

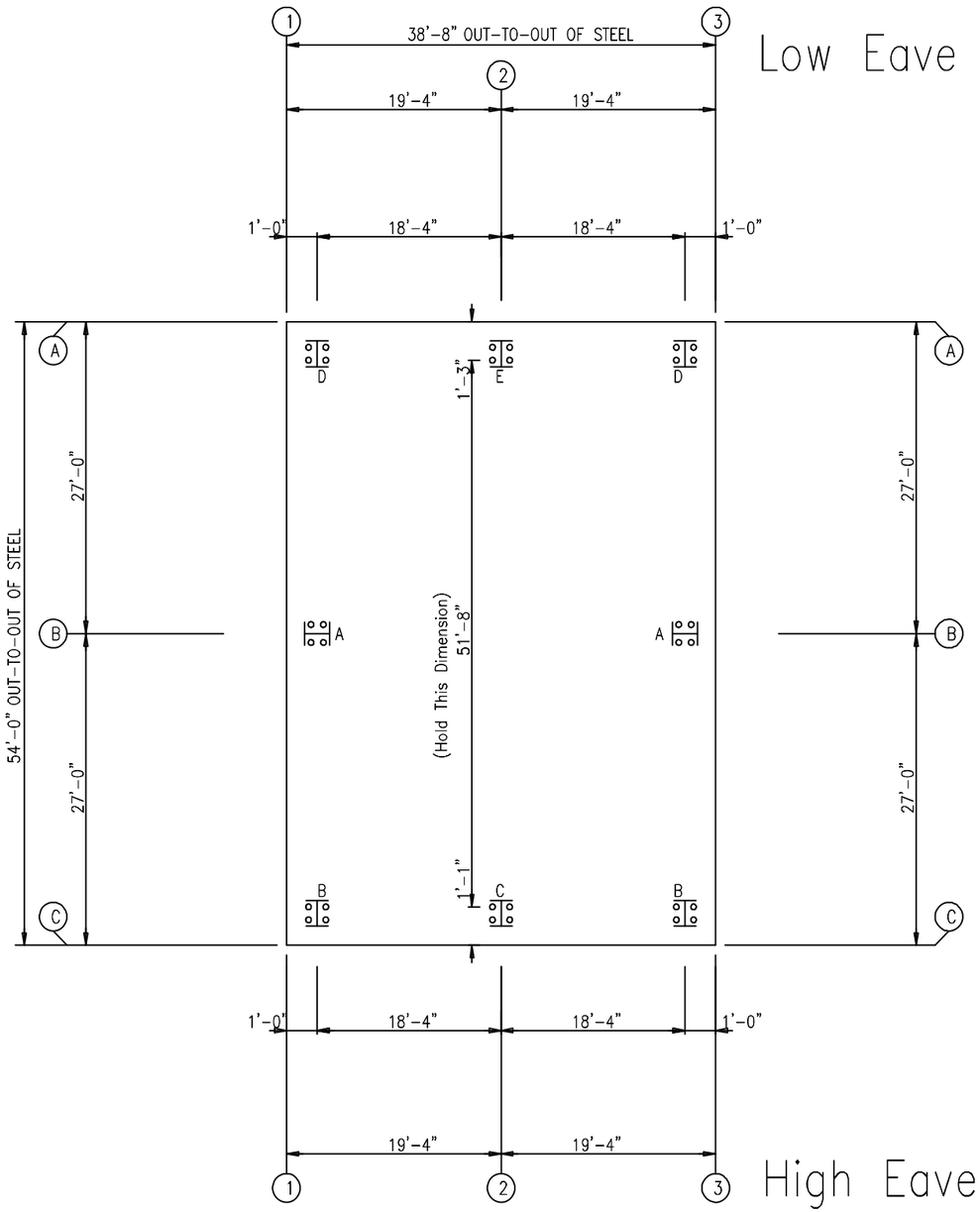

ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)

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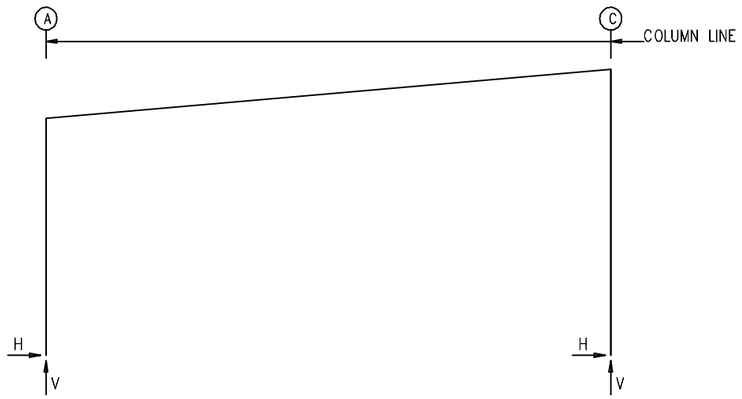
ALL STEEL BLDGS.

PROJECT	Universal Enviromental	ANCHOR BOLT PLAN & DETAILS		
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	2 OF 14

FRAME LINES: 1 2 3



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	A	2	7.8	2.5	8	−7.7	−18.0	4	0.750	10.00	12.50	0.625	0.0
		3	7.8	18.5									
1	C	10	3.3	−0.1	4	−2.8	3.3	4	0.750	8.000	12.25	0.375	0.0
		1	−1.4	6.3	7	1.4	−5.0						

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
2	A	5	2.9	7.9	8	−2.0	−19.8	4	0.750	8.000	12.25	0.625	0.0
		6	2.9	19.9									
2	C	9	4.5	−14.0	6	−3.8	14.8	4	0.750	8.000	12.25	0.500	0.0
		6	−3.8	14.8	9	4.5	−14.0						

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
3	A	2	7.8	2.5	8	−7.7	−18.0	4	0.750	10.00	12.50	0.625	0.0
		3	7.8	18.5									
3	C	10	3.3	−0.1	4	−2.8	3.3	4	0.750	8.000	12.25	0.375	0.0
		1	−1.4	6.3	7	1.4	−5.0						

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1								(h)
F_SW	C	Torsional Bracing Used							
R_EW	3								(h)
B_SW	A	3,2	10.1	10.9	0.1	0.2			
		2,1	10.1	10.9	0.1	0.2			

(h)Rigid frame at endwall

GENERAL NOTES

1. ALL LOADING CONDITIONS ARE EXAMINED AND ONLY MAXIMUM/MINIMUM H OR V AND THE CORRESPONDING H OR V
2. POSITIVE REACTIONS ARE AS SHOWN IN THE SKETCH. FOUNDATION LOADS ARE IN OPPISITE DIRECTIONS
3. BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE H POINTING AWAY FROM THE BRACED BAY. THE VERTICAL REACTION IS DOWNWARD.
4. RISK CATERGORY II

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	B	11	7.4	0.2	12	−6.5	0.2	4	0.750	6.000	12.00	0.375	0.0
		13	7.4	0.3									
3	B	11	7.4	0.2	12	−6.5	0.2	4	0.750	6.000	12.00	0.375	0.0
		13	7.4	0.3									

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	= 54.0
Length (ft)	= 38.7
Eave Height (ft)	= 21.8/ 26.3
Roof Slope (rise/12)	= 1.0
Dead Load (psf)	= 3.0
Collateral Load (psf)	= 0.0
Roof Live Load(psf)	= 20.0
Frame Live Load	
Min(psf)	= 12.0
Max(psf)	= 13.0
Wind Speed (mph)	= 145.0
Wind Code	= FBC 20 (IBC 18)
Exposure	= C
Closed/Open	= 0
Importance Wind	= 1.00
Importance Seismic	= 1.00
Seismic Zone	= A
Seismic Coeff (Fa*Ss)	= 0.09

ID	Description
1	Dead+Collateral+Live
2	Dead+0.6Wind_Long2L
3	Dead+0.6Wind_Long2R
4	Dead+Collateral+0.75Live+0.45Wind_Long1R
5	Dead+Collateral+0.75Live+0.45Wind_Long2L
6	Dead+Collateral+0.75Live+0.45Wind_Long2R
7	0.6Dead+0.6Wind_Left1
8	0.6Dead+0.6Wind_Long1L
9	0.6Dead+0.6Wind_Long1R
10	0.6Dead+0.6Wind_Long2R
11	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
12	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
13	Dead+0.6Wind_Right2+0.6Wind_Suction

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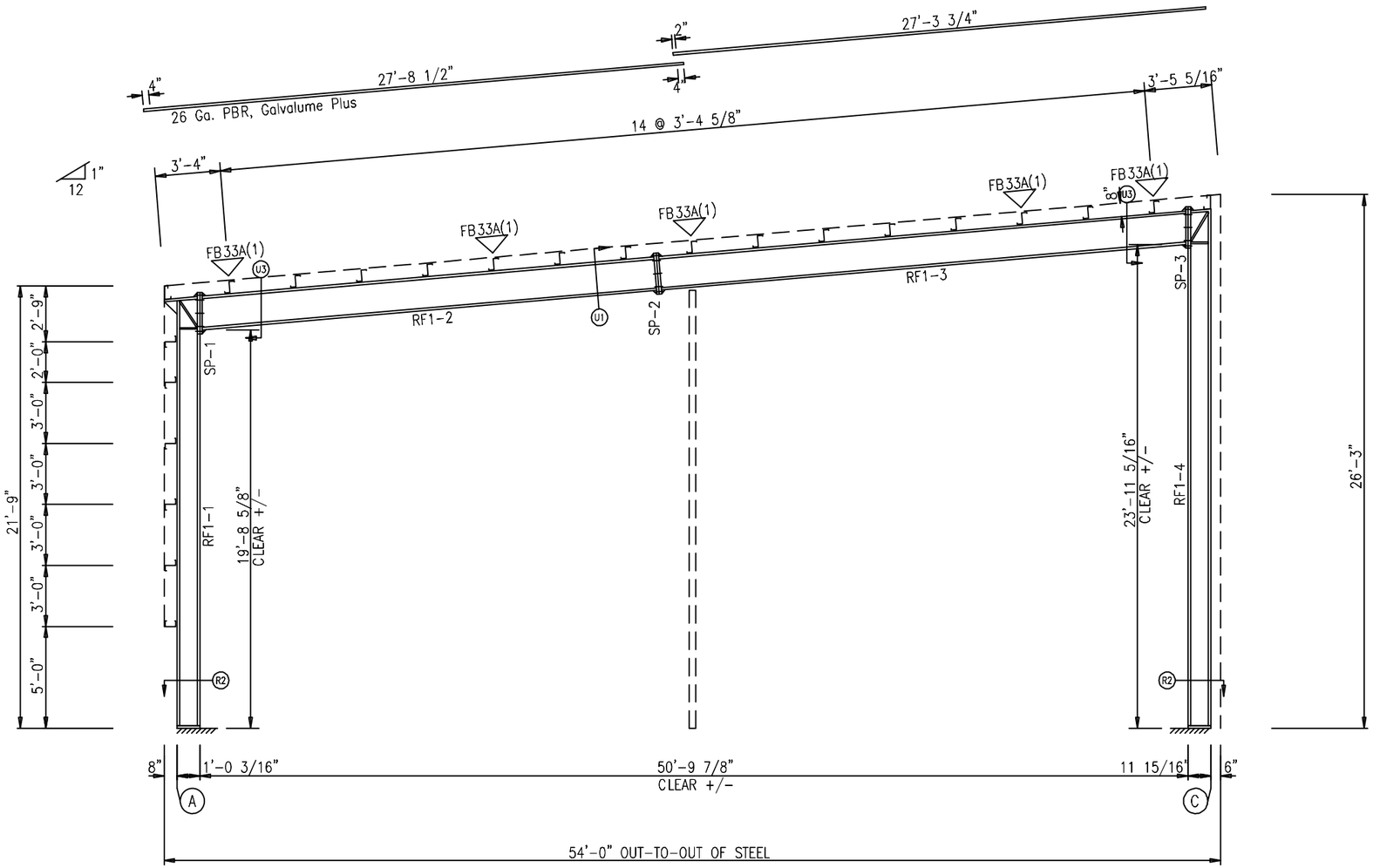
ALL STEEL BLDGS.

PROJECT	Universal Enviromental	ANCHOR BOLT DETAILS & REACTIONS		
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	3 OF 14

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	2	A325	1.000	3.00
SP-2	4	4	2	A325	0.625	1.75
SP-3	4	4	2	A325	0.750	2.50

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF1-1	W12X50	21'-1 5/8"
RF1-2	W18x35	23'-6 9/16"
RF1-3	W18x35	27'-5 3/16"
RF1-4	W12X40	25'-6 3/8"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A - L2x2x1/8



RIGID FRAME ELEVATION: FRAME LINE 1

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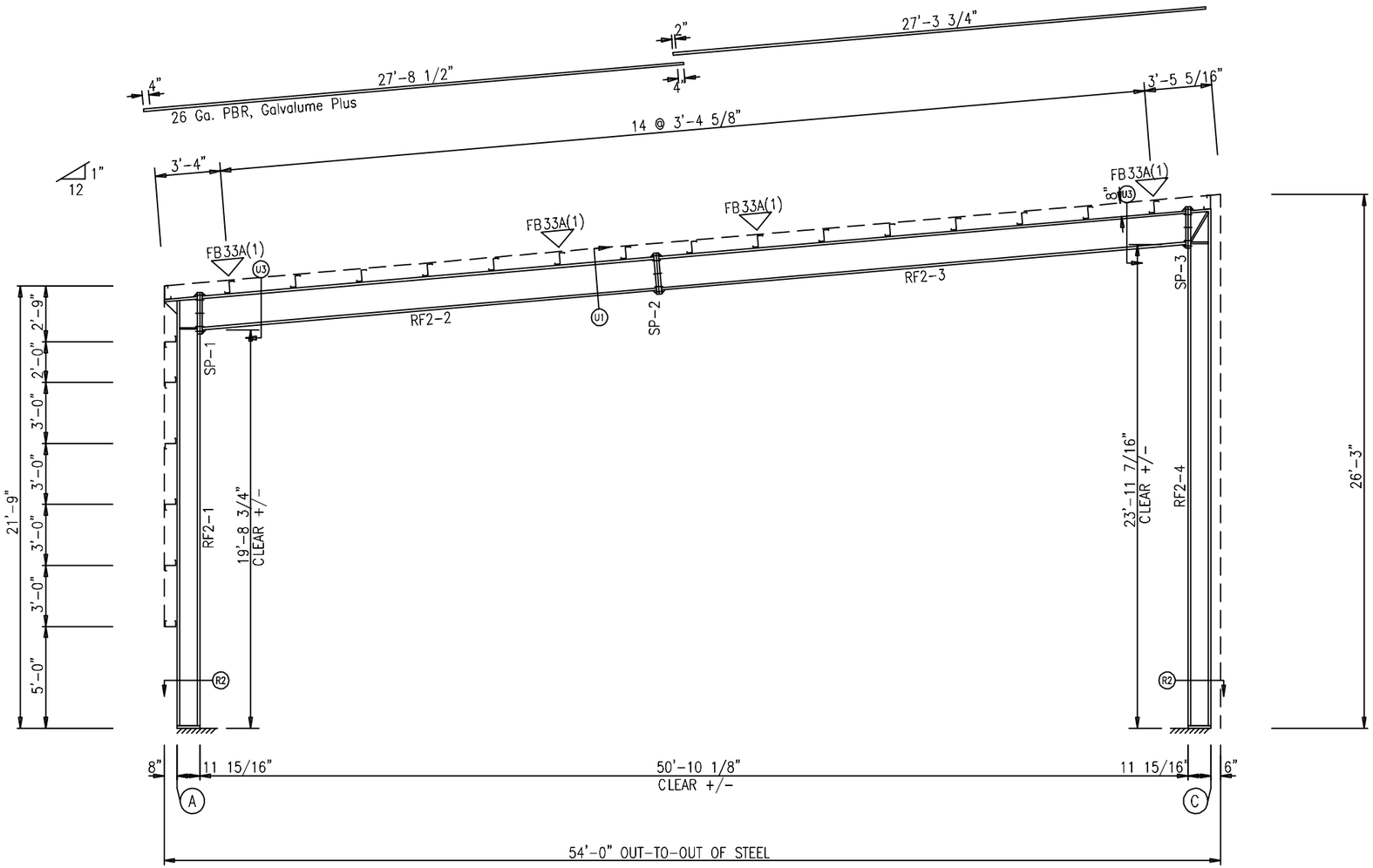
ALL STEEL BLDGS.

PROJECT	Universal Enviromental	RIGID FRAME ELEVATION		
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET 4	OF 14

SPLICE BOLT TABLE						
Mark	Qty Top	Bot	Int	Type	Dia	Length
SP-1	4	4	2	A325	0.625	2.25
SP-2	4	4	2	A325	0.750	2.25
SP-3	4	4	2	A325	0.750	2.50

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF2-1	W12X40	21'-1 5/8"
RF2-2	W18X35	23'-6 13/16"
RF2-3	W18X35	27'-5 3/16"
RF2-4	W12X40	25'-6 1/2"

▽FLANGE BRACES: Both Sides(U.N.)
FBxxA(1): xx=length(in)
A - L2x2x1/8



RIGID FRAME ELEVATION: FRAME LINE 2

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ALL STEEL BLDGS.

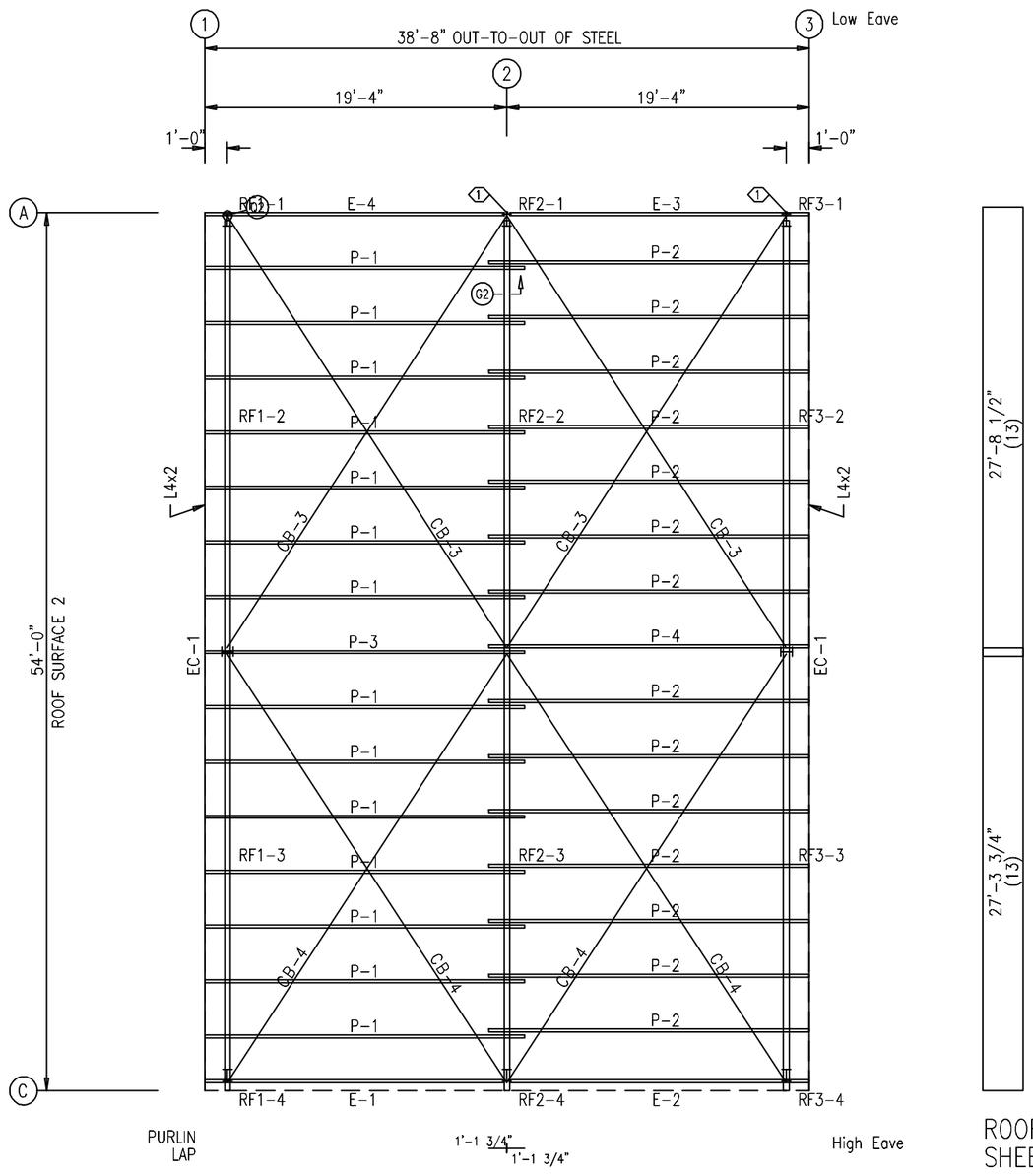
PROJECT	Universal Enviromental	RIGID FRAME ELEVATION		
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	5 OF 14

SPECIAL BOLTS
ROOF PLAN

◇ ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A307	1/2"	1 1/4"	1

MEMBER TABLE
ROOF PLAN

MARK	PART	LENGTH
P-1	8X25Z16	20'-5 1/2"
P-2	8X25Z16	20'-5 1/2"
P-3	8X25Z14	20'-5 1/2"
P-4	8X25Z14	20'-5 1/2"
E-1	8E14	19'-3 1/2"
E-2	8E14	19'-3 1/2"
E-3	8E14	19'-3 1/2"
E-4	8E14	19'-3 1/2"
CB-3	CB0500	31'-0"
CB-4	CB0313	31'-1 1/2"



ROOF FRAMING PLAN

ROOF
SHEETING

PANELS: 26 Ga. PBR
Galvalume Plus

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ALL STEEL BLDGS.

PROJECT	Universal Enviromental	ROOF FRAMING		
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	6 OF 14

BOLT TABLE
FRAME LINE 1

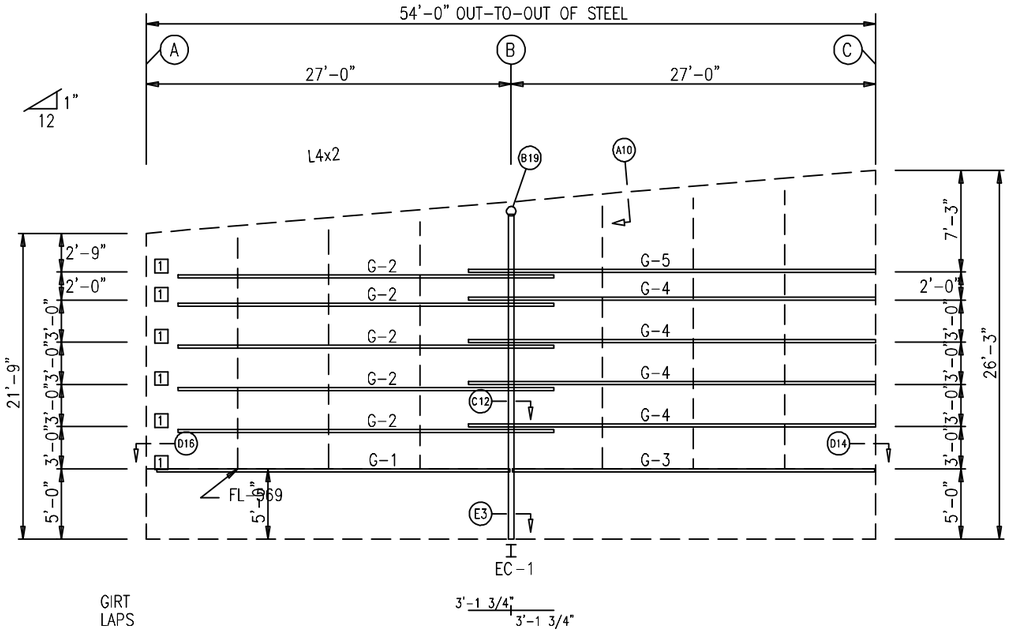
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	2	A325	1/2"	1 1/2"

MEMBER TABLE
FRAME LINE 1

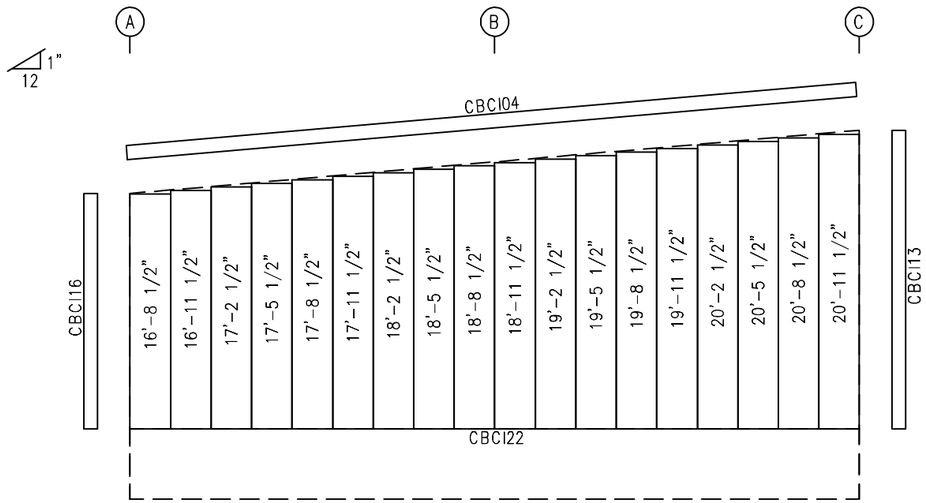
MARK	PART	LENGTH
EC-1	W12x14	21'-7 7/8"
G-1	8X25C16	25'-3 5/16"
G-2	8X25Z16	28'-5 5/16"
G-3	8X25C16	26'-11 1/2"
G-4	8X25Z16	30'-1 1/2"
G-5	8X25Z14	30'-1 1/2"

CONNECTION PLATES
FRAME LINE 1

ID	MARK/PART
1	r1



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBR – NEED COLOR

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ALL STEEL BLDGS.

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PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	7 OF 14

BOLT TABLE
FRAME LINE 3

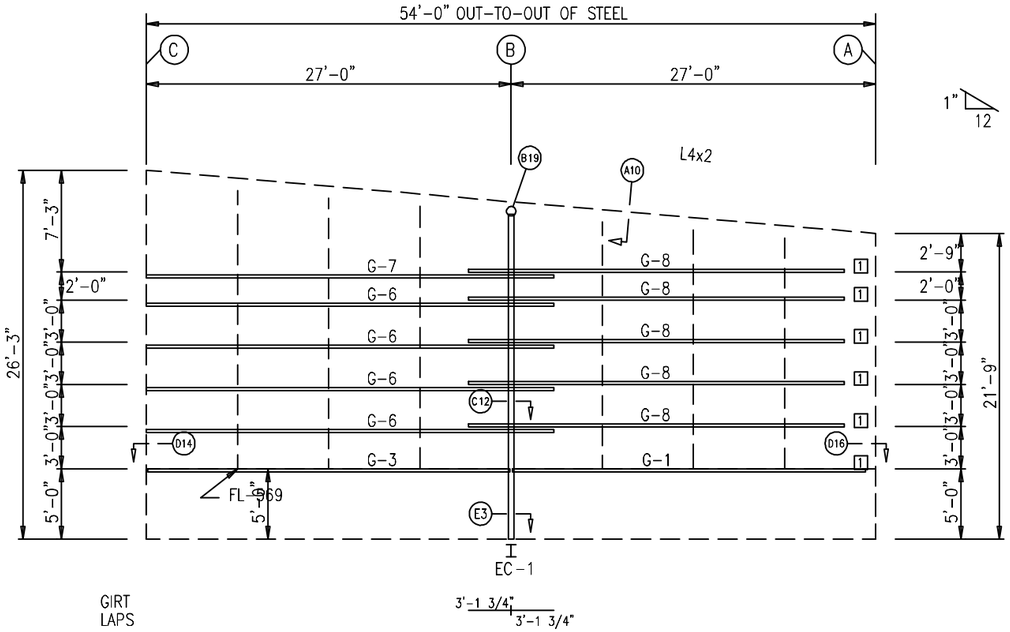
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	2	A325	1/2"	1 1/2"

MEMBER TABLE
FRAME LINE 3

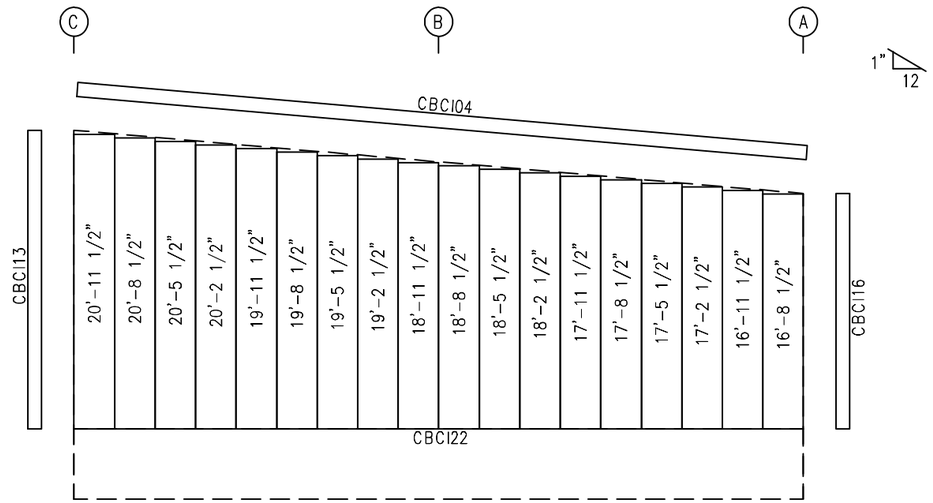
MARK	PART	LENGTH
EC-1	W12x14	21'-7 7/8"
G-1	8X25C16	25'-3 5/16"
G-3	8X25C16	26'-11 1/2"
G-6	8X25Z16	30'-1 1/2"
G-7	8X25Z14	30'-1 1/2"
G-8	8X25Z16	28'-5 5/16"

CONNECTION PLATES
FRAME LINE 3

ID	MARK/PART
1	r1



ENDWALL FRAMING: FRAME LINE 3



ENDWALL SHEETING & TRIM: FRAME LINE 3

PANELS: 26 Ga. PBR – NEED COLOR

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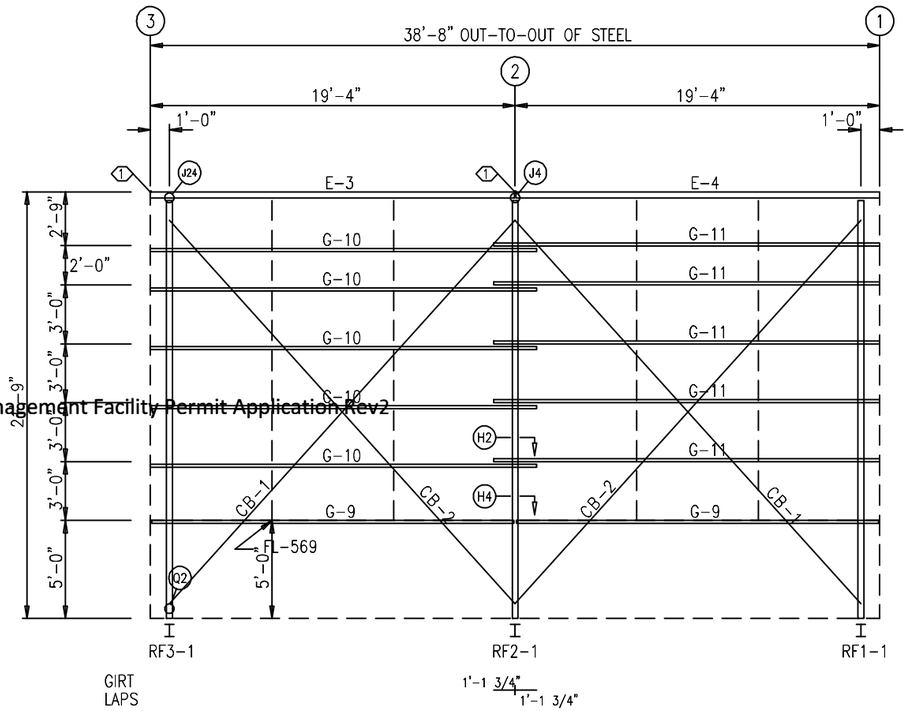
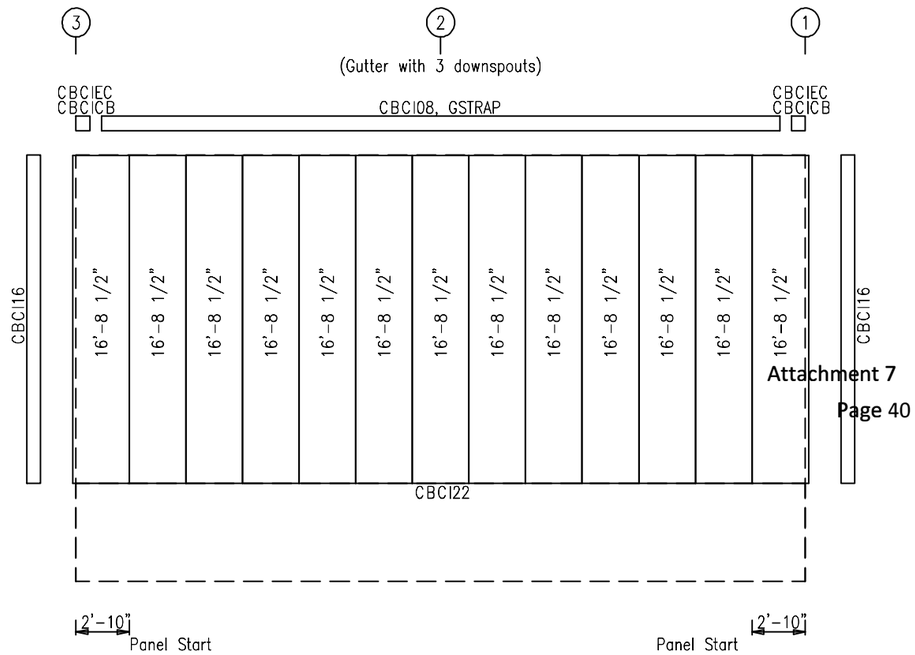
SPECIAL BOLTS					
◇ ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A307	1/2"	1 1/4"	1

MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
E-3	8E14	19'-3 1/2"
E-4	8E14	19'-3 1/2"
G-9	8X25C16	19'-3 1/2"
G-10	8X25Z16	20'-5 1/2"
G-11	8X25Z16	20'-5 1/2"
CB-1	CB0500	27'-11 3/4"
CB-2	CB0500	27'-11 1/2"



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR – NEED COLOR

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ALL STEEL BLDGS.

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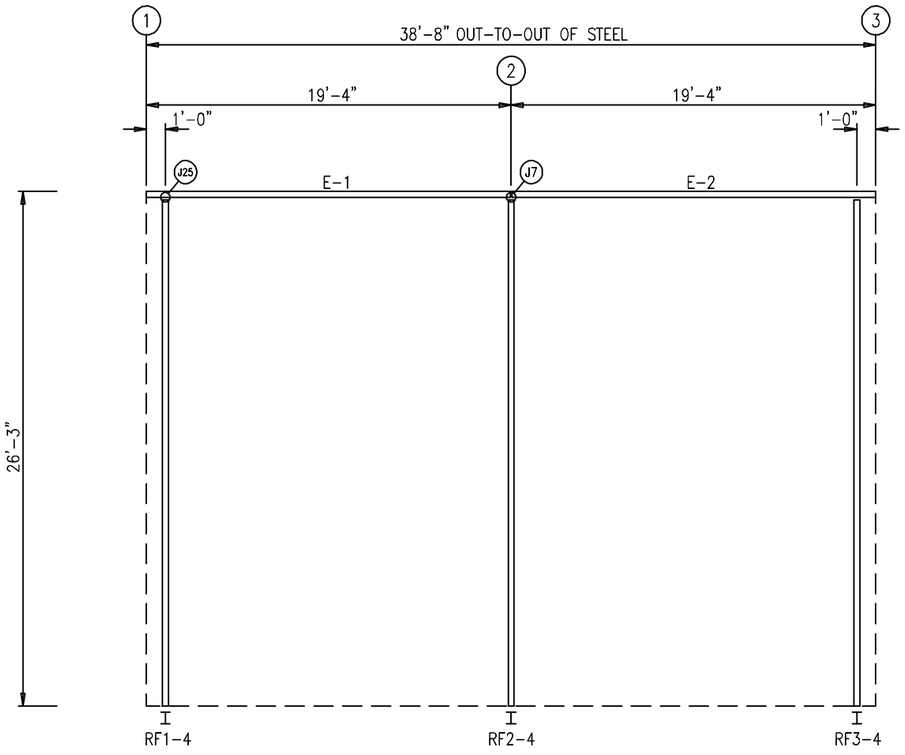
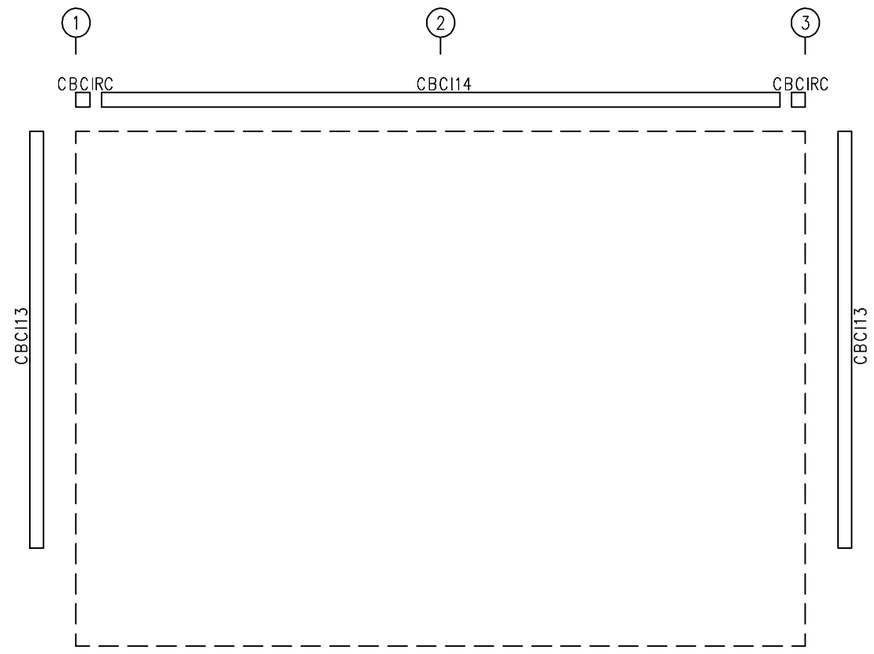
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	9 OF 14

MEMBER TABLE FRAME LINE C		
MARK	PART	LENGTH
E-1	8E14	19'-3 1/2"
E-2	8E14	19'-3 1/2"



SIDEWALL FRAMING: FRAME LINE C



SIDEWALL SHEETING & TRIM: FRAME LINE C

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ALL STEEL BLDGS.

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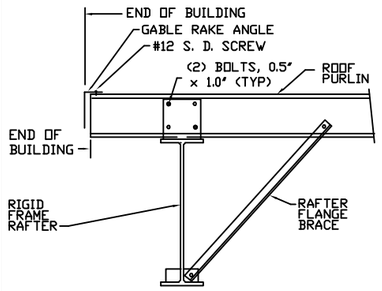
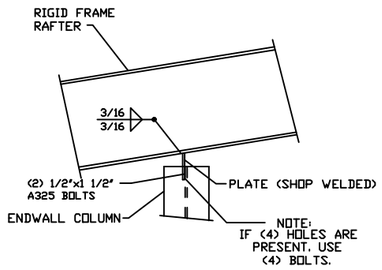
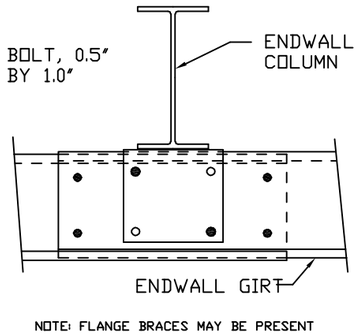
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	10 OF 14



A10 ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME

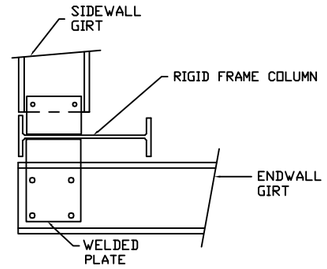


B19 RIGID FRAME RAFTER TO ENDWALL COLUMN

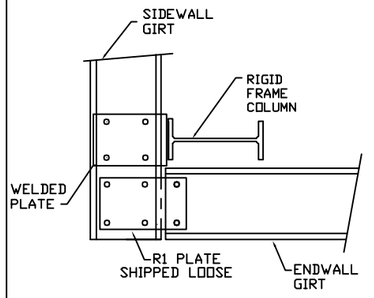


NOTE: FLANGE BRACES MAY BE PRESENT

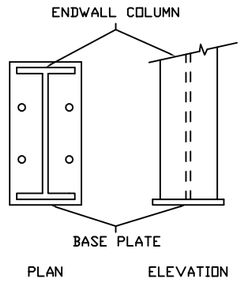
C12 ENDWALL COLUMN TO WALL GIRT



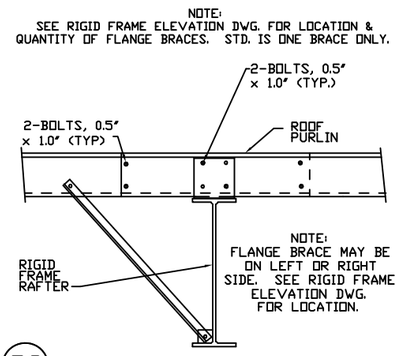
D14 CORNER COLUMN TO WALL GIRT



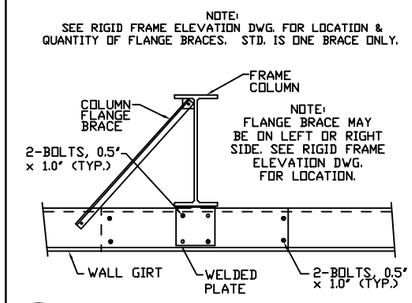
D16 CORNER COLUMN TO WALL GIRT



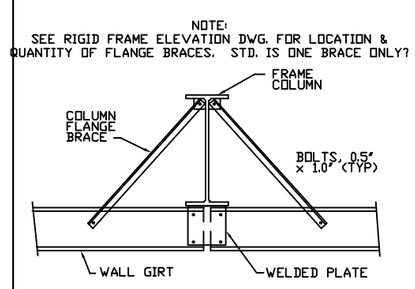
E3 BASE PLATE FOR ENDWALL COLUMN



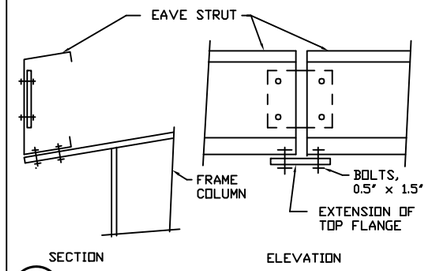
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



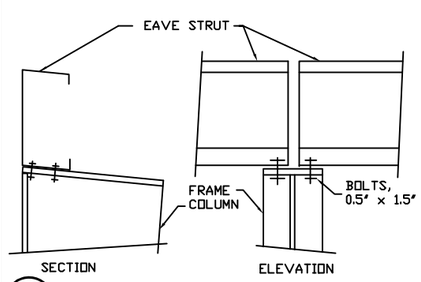
H2 WALL GIRT TO FRAME COLUMN



H4 WALL GIRT TO FRAME COLUMN



J4 EAVE STRUT TO RIGID FRAME



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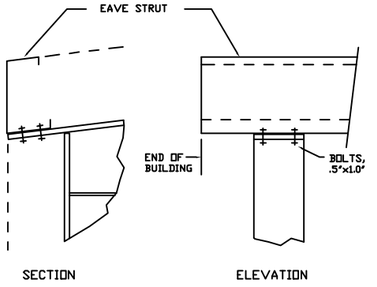

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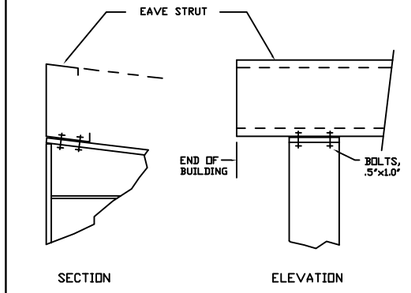

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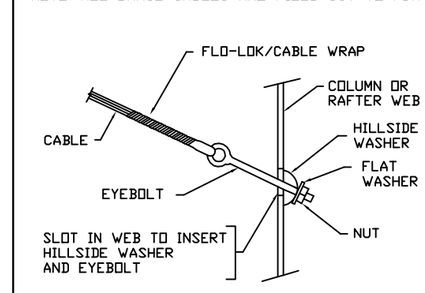
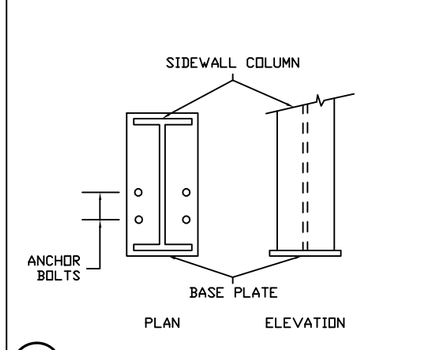


Q2 DIAGONAL CABLE, EYEBOLT END



R2 ANCHOR BOLTS AT SIDEWALL COLUMN

I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND FOUND IT TO BE IN COMPLIANCE WITH ASCE 7-16 & THE FLORIDA BUILDING CODE 2020 7th EDITION

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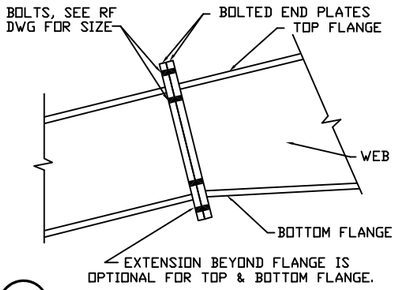
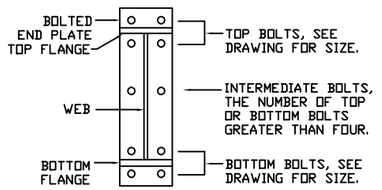
Certificate of Authorization No. 30178

ALL STEEL BLDGS.

PROJECT	Universal Enviromental	STRUCTURAL DETAILS		
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	11 OF 14



U1 BOLTED END PLATE RAFTER SPLICE



U3 BOLTS FOR RAFTER TO COLUMN CONNECTION

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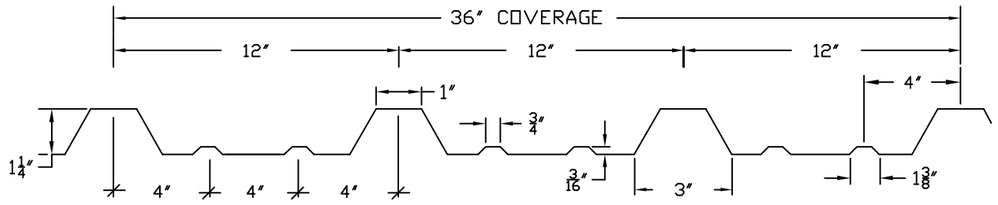
ALL STEEL BLDGS.

PROJECT	Universal Enviromental	STRUCTURAL DETAILS		
ID	AS2227	DESIGN:	DRAFT:	CHECK:
PROJECT ADDRESS	1650 Hemlock St Tampa, FL 33605	DATE: 8/18/22	SHEET	12 OF 14

PANEL SPECIFICATIONS

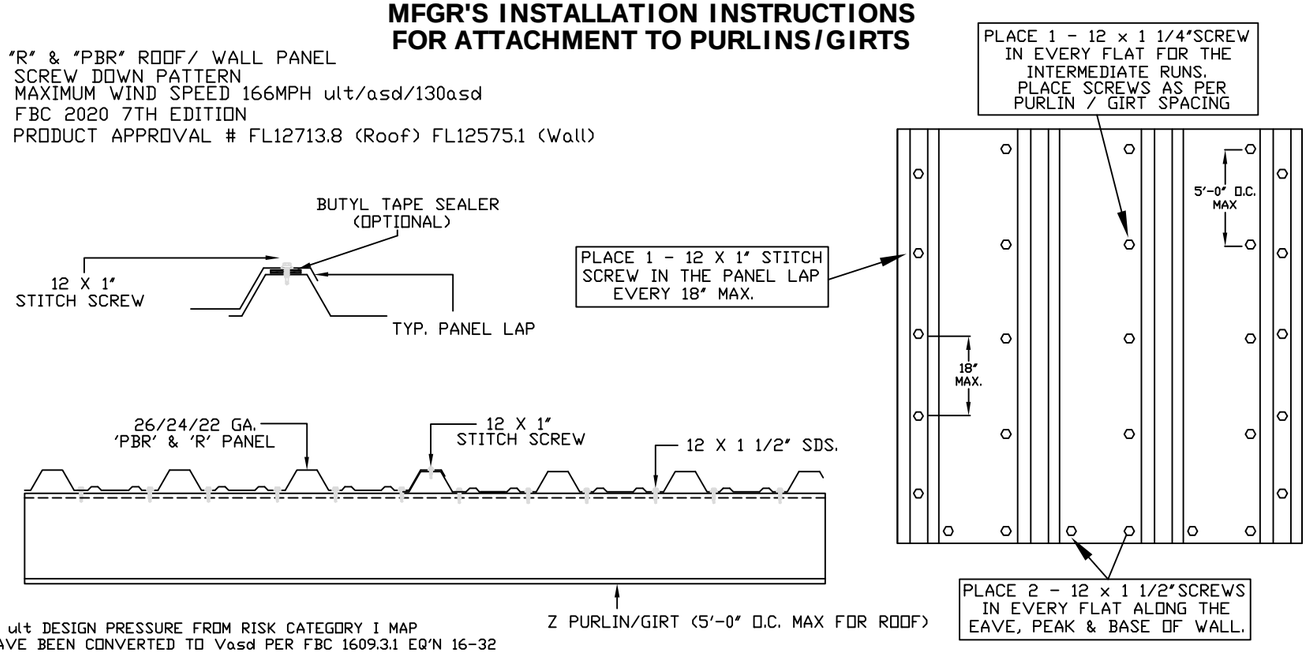
'R' & 'PBR' PANEL SPECIFICATIONS
PANEL MATERIAL AS SPECIFIED SHALL BE 26 GAUGE GALVALUME AS MAUNFACTURED BY A.S.B.C.I., OR EQUAL, CONFORMING TO THE REQUIREMENTS OF ASTM A792 GRADE 80 OR GRADE 50. MINIMUM YIELD STRESS SHALL BE 80,000 KSI FOR GRADE 80 AND 50,000 KSI FOR GRADE 50.

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	Ixs (IN.4/FT.)	Sxe (IN.3/FT.)	Msxc (KIP-IN.)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Mexc (KIP-IN.)
29	60	0.75	0.0220	0.0356	1.2330	0.0245	0.0237	0.8500
26	60	0.94	0.0305	0.0510	1.6297	0.0375	0.0376	1.3500
24	50	1.14	0.0407	0.0733	1.7114	0.0515	0.0527	1.5778
22	50	1.44	0.0541	0.1046	2.2236	0.0732	0.0763	2.2940



MFGR'S INSTALLATION INSTRUCTIONS FOR ATTACHMENT TO PURLINS/GIRTS

"R" & "PBR" ROOF/ WALL PANEL
SCREW DOWN PATTERN
MAXIMUM WIND SPEED 166MPH ult/asd/130asd
FBC 2020 7TH EDITION
PRODUCT APPROVAL # FL12713.8 (Roof) FL12575.1 (Wall)



V ult DESIGN PRESSURE FROM RISK CATEGORY I MAP HAVE BEEN CONVERTED TO Vasd PER FBC 1609.3.1 EQ'N 16-32

PRODUCT APPROVAL INFORMATION SHEET
ALL STEEL BUILDINGS & COMPONENTS & TUBULAR DIVISION, INC.
10159 U.S. HWY 41 SOUTH
GIBSONTON, FL. 33534
PH # 813-671-8044
FAX # 813-671-8602

Overview
Product Search
Organization Search
Product Application

User: Public User - Not Associated with Organization -

Need Help ?

Application #: FL12713.8 (Roof) FL12575.1 (Wall)
Date Submitted: 4/03/2012
Product Manufacturer: All Steel Buildings/M.B.C.I.
Address/Phone/email: 10159 U.S. Hwy. 41 South
Gibsonton, FL 33534
(813) 671-8044

Category: Roofing

Subcategory: Non-structural Metal Roofing

Evaluation Method: Certification Mark or Listing

Referenced Standards from the Florida Building Code: Section	Standard	Year
	ASTM A653	1973
	ASTM A653	1973

Certification Agency: Underwriters Laboratories Inc.

Quality Assurance Entity:

Validation Entity:

Authorized Signature: Gene Dryden
gene@allsteel-buildings.com

Evaluation/Test Reports Uploaded:
Installation Documents Uploaded: PTID_677_I_R PANEL SPECS.pdf
PTID_677_I_R PANEL TO WOOD.pdf
PTID_677_I_R_PANEL_TO_ZEE.pdf

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 04/11/2012
Date Approved: 04/23/2012

Page: Page 1 / 1

App/Seq #	Product Model # or Name	Model Description	Limits of Use
"R" or "PBR" Panel	"R" or "PBR" 26/24/22 Gauge Galvalume and Painted Galvalume	Per Mfg. Installation Instructions and Approved Details. Min. Slope 1/2:12. Coated steel panels identified as "R or PBR" for use in Construction Nos. 30, 54, 79, 104, 112, 161, 167, 184 and 542	

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Certificate of Authorization No. 30178

All Steel Buildings
& Components, Inc.
2022
10159 U.S. Hwy. 41 South
Gibsonton, FL. 33534
PH# (813) 671-8044
Fax# (813) 671-8602
Email: allsteel-buildings.com

PRODUCT APPROVAL

Product Category	Sub Category	Manufacture	State of Florida Approval Number
Roofing/Wall	Non-structural Metal Roofing	All Steel Buildings	FL12713.8 (Roof) FL12575.1 (Wall)
Exterior Doors	Roll-up	ASTA Door Corporation	FL16905
Exterior Doors	Swinging (Personel Door)	Tell Manufacturing, Inc.	FL17900.1
Structural Components	Roof Deck (Sky light)	Glasteel	FL15531.1
	Siding (Wall light)	Glasteel	FL5614.1

MIAMI DADE NOA

Product Category	Sub Category	Manufacture	MIAMI DADE NOA Number
Roofing/Wall	Non-structural Metal Roofing	All Steel Buildings/NCI Group, Inc.	21-0615.03

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ATTACHMENT 8 – CONTINGENCY PLAN

8.0 CONTINGENCY PLAN

The purpose of this Contingency Plan is to describe procedures implemented by UES to respond in a safe, effective and timely manner to mitigate the impacts of operational interruptions and emergencies such as fire, or natural disasters. This plan is to be kept at the SWMF at all times and accessible to facility operators.

8.1 Persons Responsible for Implementation

Name	Title	Telephone	Address
Ed Kinley	President/Response Coordinator Facility Manager	(813) 241-9206 (office) (813) 390-0659 (cell)	1650 Hemlock Street, Tampa, Florida 33605
Chad Josselyn	Facility Operator Universal Environmental Solutions	(813) 241-9206 (office) (813) 363-0864 (cell)	1650 Hemlock Street Tampa, Florida 33605

The Facility Operator will likely be the initial responder to an emergency and will immediately contact the Facility Manager. The Facility Manager is designated as the person responsible for the implementation of this contingency plan.

8.2 Interruption and Emergency Response

Response to interruptions and/or emergencies are performed by Facility personnel. Responses are limited to safe actions that can be performed by all Facility personnel.

In order to ensure that hazardous conditions do not occur or are corrected as soon as possible, the building shall be inspected by the Safety Officer at a minimum of once a year, using the attached SWMF Workplace Inspection Form **Section 8.2.0**. Items needing correction by building staff shall be done as soon as possible after being noted. Items the building staff cannot correct shall be brought to the attention of the Facility Manager.

8.2.0 SWMF Inspection Form

UNIVERSAL ENVIRONMENTAL SOLUTIONS
SOLID WASTE PROCESSING BUILDING
INSPECTION CHECKLIST

MONTH:	Facility Location:				
Weekly Inspection Items	Week 1	Week 2	Week 3	Week 4	NOTES
SWPB					
Floor inspection for oil presence					
PPE for availability and use					
Emergency contact list posted next to emergency phone					
Flame lockers for leaking containers					
General housekeeping					
Outdoor Lights					
Containers, dumpster roll-off, drums/totes and pits for leaks					
Small parts washers for leaks or general condition					
Schedule inspection by certified inspector if pits affected by fire, natural disaster, excessive settlement or damage					
Empty or extra drums - triple rinsed, labels removed and removed within 3 days					
Containers not filled above 90%					
Containers sealed when not in use					
Adequate isle space between containers					
Pits (measure from top)					NEVER LESS THAN 2 INCH FROM TOP
Chemical materials and waste stored away from building exits and not near vehicular traffic					
SAFETY					
Eyewash Stations visual for leaks					
Walls for resting items - Ladders on hooks or laid down					
Electrical chords for wear					
Air Hoses for wear or leaks					
NOTES					
Inspection of safety cabinets for any out dated or near expired chemicals (Losilactite 2 Year shelf Life) (Kimball Aerosols 5 year shelf Life). All other chemicals as marked or by manufacture recommendations.					**All cabinets integrity must be inspected twice yearly.** **Date Inspected**_____

UES Solid Waste Management Facility Permit Application Rev2

UNIVERSAL ENVIRONMENTAL SOLUTIONS
SOLID WASTE PROCESSING BUILDING
INSPECTION CHECKLIST

Weekly Inspection Items	Week 1	Week 2	Week 3	Week 4	NOTES
WASTE					
Clean in and around trash containers					
Used Oil containers are clearly marked as "USED OIL"					
20 CY Roll-Off Dumpster					Prior to shipment, manifest number placed on container and the following "Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the USEPA."
Monthly Inspection Items	Month				NOTES
SWPB					
Spill Kit inventory and checklist (see below)					
Drums and containers handled and transported with proper equipment designed for the task					
All 4 sides of SWPB free of liquids					
Seals on diversion structures (e.g. bay doors, curb containment)					
Debris or fire hazard					
Lock-Out Tag-Out in place as needed					
Evidence of corrosion, cracking, denting, bulging, buckling, or distortion of container shell (If needed, replace container)					
Doors properly locked					
SAFETY					
Emergency equipment accessible					
Fire Extinguishers (see below)					
Eye Wash Stations - clean quarterly					
Fork Lift Documentation					
First Aid Kits condition and cleanliness (see below)					
Flammable signs placed conspicuously where there is a potential fire hazard from ignitable conditions.					
WASTE					
Accumulate less than 80,000 lbs of waste					
Incompatible material/waste segregated					
Waste stored too high or less and flammables not stacked					
NOTES					

UNIVERSAL ENVIRONMENTAL SOLUTIONS
SOLID WASTE PROCESSING BUILDING
INSPECTION CHECKLIST

YEAR:	The Facility Attendant coordinates annually on a quarterly basis	
ANNUAL REVIEW (reviewed by quarter)	Quarter Due	NOTES
SPCC Review	Q-1	Reviewed by Facility Manager
Safety Meeting (Review previous Injuries)	Q1	Reviewed by Facilities Attendant and local Managers
Annual Emergency Spill Response Drill	Q-1/Q-2	Reviewed by Facilities Attendant
Review Assigned Badges	Q-1/Q-2 Q-3/Q-4	Review access level per Premises Security Guideline/Access Control Policy
Safety Meeting (Review Disaster Plans, Hurricane, Earthquake, etc)	Q2	Reviewed by Facilities Attendant and local Managers
Emergency Response Procedures Review	Q-3	Reviewed by Safety/Environmental Manager(s)
Emergency Evacuation Maps	Q-3	Reviewed by Facilities Attendant
Update First Responders Listing	Q-3	Reviewed by Facilities Attendant
Safety Meeting (Review Fire Plan)	Q3	Reviewed by Facilities Attendant and local Managers
Annual Fire Drill	Q-3/Q-4	Reviewed by Facilities Attendant
Safety Meeting (Review Safety Procedures)	Q4	Reviewed by Facilities Attendant and local Managers
Chain Inspections	Q-4	Reviewed by Facilities Attendant
Annual Waste Summary	Q-4	Reviewed by Environmental Manager
SWPB condition	Q-4	Reviewed by Facilities Attendant
Pits Condition	Q-4	Reviewed by Facilities Attendant
Review prior inspections, repair and alteration data	Q-4	Reviewed by Facilities Attendant
Evidence of pits/SWPB settlement and/or cracks near or around base/foundation	Q-4	Reviewed by Facilities Attendant
Evidence of corrosion, cracking, denting, bulging, buckling, or distortion of container shell	Q-4	If so, transfer contents to container in good condition
Fire extinguishers inspected by contractor	Q-4	Reviewed by Facilities Attendant. Fire Extinguishers inspected by City Fire Equipment Co. – 813-251-5071
NOTES		

UNIVERSAL ENVIRONMENTAL SOLUTIONS
SOLID WASTE PROCESSING BUILDING
INSPECTION CHECKLIST

Year:	**The Facility Attendant coordinates biennially**
BIENNIAL ITEM (review every 2 years)	NOTES
Leak detection test - mark liquid level in pits and recheck in 2 hours	
Year:	The Facility Attendant coordinates with certified inspector
EVERY 5 YEAR REVIEW OF PITS	NOTES
Review prior inspection records, repair and alteration data	
Inspect SWPB foundations, wash outs/voids, standing water	
Inspect and verify operability of ancillary equipment	Piping, ground (if needed), piping connection, corrosion, stress
Determine pit wall thickness by measuring several areas and average measurements	75% loss requires pit shut down
Inspect pit interior walls for indications of corrosion, buckling or distortion, cracking pinholes, or damage	
Must complete ultrasonic thickness testing readings and suspect areas must be evaluated with a Ultrasonic Testing Scan	
Inspect pit for alterations/changes from original construction	

MONTH:

Emergency Equipment Inventory and Inspection Checklist

Fire Extinguisher

Item #	Location		Status
FE1			
FE2			
FE3			
FE4			
FE5			

First Aid Kits

FA1			
FA2			
FA3			

Emergency Maps

Item #	Location	Status
M1		
M2		
M3		
M4		
M5		

Eye Wash Stations

EW1		

Spill Kits

SK1		
SK2		

Inspected By:

Additional Notes

8.2.1 Interruption and Emergency Response Preparation - The SWMF has the potential for an interruption due to identification of hazardous material/waste, power failure or water damage. The SWMF has the potential for emergencies of fire, oil spill and natural disasters. The Facility Operator and Manager must:

- Supervise and direct the activities of the occupants during emergencies and drills.
- Be familiar with all the layouts of assigned areas, the emergency plan, the location and operation of any available fire protection equipment.
- Know the location of and routes to exits and evacuation areas.
- Be aware of all personnel with physical disabilities who would not be able to evacuate the building and make appropriate accommodations for their evacuation in an emergency.

8.2.1 Interruption and Emergency General Response Procedures- In the event of an interruption/emergency Facility Operator and Manager must:

A. Verify that the police and fire departments have been notified.

B. Determine the location of the interruption/emergency, if known, and report data to the responders. Do not search for fire or hazmat release.

C. Inform all Facility persons of the interruption/emergency and prepare to evacuate.

- Direct the occupants of the building to proceed to their designated Evacuation Area.
- Select the exit to use for evacuation on the basis of the location of the interruption/ emergency.
- Check the environment near the exits before exit by occupants, and if affected by interruption/emergency, an alternate exit shall be selected and personnel notified as appropriate.
- Take a head count to determine if all the known occupants have been evacuated.
- Inform the Fire Department when the evacuation of all persons from the building has been completed.
- Inform the Fire Department of missing, injured, or deceased (if known) personnel.

D. Evacuation

- Remain calm.
- Close all doors as you leave.
- Operating machines are turned off, if possible
- Proceed to the nearest fire exit.
- Do not return to the evacuated building until instructed to do so by the fire department or authorized company officials.

8.3 INTERRUPTIONS

Interruptions include power failure, water damage and hazardous material. Interruptions cause solid waste operations to cease until corrective responses are complete.

8.3.1 Power Failure - The following procedures shall be followed by Facility personnel:

- Take time to think
- Safely secure equipment and other electric devices
- Immediately inform Facility Operator or Manager
- Facility Operator or Manager will check the panel or call the power company

8.3.2 Water Damage - The following procedures shall be followed by Facility personnel:

- Immediately inform Facility Operator or Manager
- Safely secure equipment and other electric devices
- Facility Operator or Manager will procure equipment or services to resolve
- Remove or divert water away from the Facility
- Properly store equipment fuel
- Dry damaged materials and mitigate mold growth

8.3.3 Non-Conforming and Unknown Material Release - The following procedures shall be followed by Facility personnel:

- Indications of release
  - Odor, foaming, haze, visible fumes
- Reactions to release
  - Headaches, rash, skin irritant, choking, eye tearing or runny nose
- Immediately inform Facility Operator or Manager
- Consider and manage material as hazardous until material is identified
- Safely secure area surrounding the hazardous material release
- Try to visually identify material label and obtain Safety Data Sheet
- Never attempt to clean up a hazardous spill unless completed proper training and have appropriate personal protective equipment
- Facility Operator or Manager will procure equipment or services to resolve
  - If it can be done safely; excavator will remove and contain released hazardous material
  - Current equipment has 24 hour back up if breakdown

8.4 Emergencies

Emergencies may include fire, oil spill and natural disasters. Emergencies cause solid waste operations to cease until corrective responses are complete.

8.4.1 Fire - The following procedures shall be followed by Facility personnel:

- Remain Calm
- Immediately leave your area, closing all the doors behind you.
- If encounter smoke, crawl or crouch to the exit
- Clothing catches fire, STOP……DROP….ROLL……
- Immediately inform Facility Operator or Manager or call 911
- Facility Operator or Manager will call the fire department from another location and follow local procedures; report the street address and other pertinent information about the fire emergency.
- Meet at designated Evacuation Area and await roll count and further instruction
- Do not fight the fire other than the use of a fire extinguisher or seek out source
  - Complete fire extinguisher training

Section1.3.1 depicts fire extinguisher and spill kit locations within the building.

8.4.2 Oil Spill - The following procedures shall be followed by Facility personnel:

- Take time to think
- Obtain SPCC plan and follow Section IV

8.4.3 Natural Disasters - Natural Disasters may include tornado, hurricane or flood. Emergencies cause solid waste operations to cease until the natural disaster is over.

The following procedures shall be followed by Facility personnel:

- Take time to think
- Tune into radio's National Weather Service
- Get away from perimeter of the building
- Go to shelter area and await further instructions

Natural Disasters may include tornado, hurricane or flood. Emergencies cause solid waste operations to cease until the natural disaster is over.
The following procedures shall be followed by Facility personnel:

- Take time to think
- Tune into radio's National Weather Service
- Get away from perimeter of the building
- Go to shelter

8.5 CONTINGENCY PREPAREDNESS

The SWMF prepares for contingencies with an annual drill, inspections and training. In addition, periodic safety meetings are completed and require the basic responsibilities for reporting abnormal "obvious conditions" of smell, sound or visual:

- Eye irritation, haze in air, visible dust
- Odor
- Vibration, hissing, sudden pop/bang
- Suspected water leak or ceiling drip
- Structure damage

Any abnormal "obvious conditions" should be reported to the Facility Operator and/or Manager immediately. Corrections to abnormal conditions are completed as soon as practical after being noted.

Contingency Plan Certification

Signature of Engineer

Engineer's Name and Title (please print or type)

48917

Florida Registration Number (please print or type)

1302 N. 23rd Street, Tampa 33605

Engineer's Mailing Address

813-917-9267

Engineer's Telephone Number

kcoats@acgtampa.com

Engineer's E-mail Address

ATTACHMENT 9 – UNIT MANAGEMENT PLAN

9.0 Unit Management Plan for Solid Waste Management Facilty (SWMF)

This attachment describes the management and inspection of the solid waste process. The SWMB is designated as one solid waste management unit (SWMU). This permit for solid waste conditions, the SWMF is the only SWMU proposed to be added to the existing UES facility SWMU designations. **In Section 1.2.2,** a 2017 aerial photo depicts the SWMB SWMU under this permit.

9.1 Unit Description for SWMF

The SWMF is located on an 150' x 200' parcel of land, adjacent to the Sparkman Channel. The property is shared with other firms conducting various ship repair and maintenance activities. A site plan has been included in **Section 1.1.2 Site Plan** and depicts the SWMF and limits of operations. The UES SWMF operates Monday through Friday (weekends on occasion), 10 hours per day to treat petroleum impacted solid waste. The SWMF is positioned above a concrete containment that is designed to contain and collect fluids generated from solid waste processing. The solid waste is primarily stored in drums/totes positioned within the SWMF and processed through two processing pits, the solidified solid waste is stored in a 20 CY roll-off dumpster staged within the SWMF.
The containment area is an impervious concrete structure that provides containment around the SWMF as depicted in **Section 7.2 Construction Plan**. The Containment pad is 50' x 70' x 6" The SWMF is enclosed with opening access sliding bay doors on north and east side. No rain water will be allowed inside of the SWMF. Surface drainage is engineered so spilled materials inside the SWPB's containment area will drain to a low point collection sump for vacuum and transport to the UES used oil facility.

The following process pits and drums/totes are housed within the SWMF containment area inside of the building inside containment area and are not exposed to rainwater:

- Concrete & Steel Lined Processing Pit – 18-8‴ x 14' x 4' – 38.8 cu. yds.
- Concrete & Steel Lined Solidification Pit – 18'-8" x 14' x 4' – 38.8 cu. yds.
- Drum/Tote Storage – 70 Drums or 17 Totes– 19 cu. yds.

9.2 INSPECTION, TESTING AND MONITORING SCHEDULES

Weekly inspections of the two processing pits and drum/tote storage area will be recorded in the form included in this document under **Section 8.2.0.** Ultrasonic metals thickness and weld integrity testing of the processing pits and containment system are to be conducted every 10 years or after any repairs, in addition to routine visual inspections, as required by 40 CFR 112.8(c)(6). The container testing will include a technique such as hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or another system of non-destructive shell testing. Normal business records of the integrity testing will be maintained at the facility.

Spill kits are located at the facility, which include “oil dry” and absorbent pads. Additionally, the company has 500’ of oil response boon ready for immediate deployment if any catastrophic spill happens. These inventories are checked monthly to replenish any used materials.

The facility maintains an SPCC Plan. Records associated with the SPCC training will be kept with training files for the Emergency Spill Response Team.

ATTACHMENT 10 – SOLID WASTE CLOSURE PLAN

10.0 SOLID WASTE CLOSURE PLAN

The administrative rules promulgated pursuant to Rule Chapter 62-701.710(6) of the Florida Administrative Code (F.A.C) establishes requirements for the closure and, if necessary, post closure care of solid waste processing facilities.

The information provided was used to prepare the closure and post-closure care cost estimate provide in Section 10.9, "Closure and Post-Closure Care Cost Estimates."

The UES facility application submitted to FDEP for a Used Oil Processing Facility permit on February 4, 2015, included a Closure Plan with a cost estimate. This Section's Closure Plan is solely inclusive of the SWMF. The SWMF Closure Plan is in addition to the most recent Closure Plan cost estimate dated February 23, 2017.

10.1 CLOSURE PLAN PERFORMANCE

This Closure Plan is designed to ensure that the facility will be closed in a manner that achieves the following:

a. Minimizes the need for further maintenance; and
b. Controls, minimizes, or eliminates, to the extent necessary to protect human health and the environment, post-closure escape of nonhazardous wastes, waste and reclaimed oil constituents, leachate, contaminated runoff, or waste decomposition byproducts to the groundwater, surface water, or atmosphere; and, as applicable.
c. Complies with the unit-specific closure requirements for each of the following units:

10.2 UNIT SPECIFIC INFORMATION (See Section 1.3.0 for locations)

Table 10.2-1 Waste Management Unit Information:

Unit Designation	Max Inventory	Closure Date	Dispose or Recycle
SWMF	2 Processing Pits – 38.44 cu yds. each Containment Pad with 70 drums or 17 Totes 20 cu yd Roll-off		D

10.3 CLOSURE SCHEDULE

Has not determined when the SWMF will close and does not anticipate completing final closure of the entire facility prior to expiration of the facility's used oil processing operating license.

Closure Activity	Schedule
Initiate Closure; Cease Acceptance of Waste	Immediate
Process all solid wastes/liquids in containment pad area and pits.	1 Week
Decontaminate SWMF building interior walls and roof.	3 Days
Decontaminate equipment, containment pad and pits within the SWMF	5 Days
Sample Containment Area floors, Processing Pits Truck Routing Areas	1 Weeks
Obtain P. E. Certification of Closure Performance	5 Days
Prepare and Submit Closure Report to DEP	3 Weeks

10.3.1 Notification and Time Allowed for Closure - Final closure activities will be initiated within 90 days of receipt of the final volume of solid wastes and completed within 180 days of receipt of the final volume of waste. The tasks and estimated time required for partial closure shall follow the schedule specified in this Section. The DEP will be notified by the UES facility 60 days before final closure begins. Final closure will be certified by the UES owner and an independent, qualified, registered professional engineer of the state of Florida.

10.3.2 Extensions for Closure Time - In the event that an extension for closure for the facility or any unit is necessary, the UES facility will request an extension

10.4 UNIT-SPECIFIC CLOSURE PROCEDURES

Unit-specific closure procedures are provided for each unit identified in **Section 10.2** of this document.

10.4.1 Closure of SWMF Concrete Containment Pad Area and Processing Pits - This section describes the procedures for closure of the SWMF *Containment Area.* The general closure requirement and specific closure procedures are discussed below.

10.4.1.1. General Closure Requirement - At closure, waste residues will be removed from the containment area systems and the processing pits. Remaining equipment contaminated with waste or waste residues will be decontaminated and removed.

10.4.1.2. Specific Closure Procedures - Specific procedures for inventory management, unit inspection, decontamination, sampling and analysis, and additional waste management are discussed below.

10.4.1.2.1 Inventory and Remedial Waste Management Procedures - A physical inventory check of all containers and equipment, piping, in the containment area will be completed and verified. All fuel and oil type wastes will be blended into the appropriate tank systems for transportation off-site for energy recovery. All remaining wastes will be shipped off-site for disposal and/or recycling.

10.4.1.2.2 Unit Inspection Procedures - A detailed inspection of the containment pad area and processing pits will be completed. The inspection will document the location of spills, contamination and migration pathways. A similar inspection of the exterior walls of the containment pad will also be documented.

10.4.1.2.3 Decontamination Procedures - After inventory removal, the containment area will be decontaminated. A surface cleaning technique (hydroblasting) will be used to decontaminate the surfaces of the concrete floors. The wash water and debris from the treatment is collected and separated. The solid material is drummed for incineration or landfilling, and the water is recycled or collected for eventual bulk transportation to a permitted facility for proper management. All waste shall be properly manifested, labeled, and shipped as required by non-hazardous and hazardous waste regulations. These cleaning methods require a 3-man crew, high pressure pumps, and wash water holding tanks. Personnel operating the treatment equipment require additional personal protection equipment due to the inherent hazards in this cleaning method. Where appropriate, temporary run-off controls will be constructed to contain wash water.
Following the surface treatment, a sample of the final water rinsate will be collected for analysis and comparison to the performance standards. In addition, concrete cores will be collected from the floors of the container management units. Based on the square footage of each containment area, the following numbers of sample locations are planned:

10.4.1.2.4 Sampling and Analysis Procedures - Sampling will be biased toward visibly stained locations since these locations represent the greatest possibility of discovering residual contamination. Concrete wipe samples, core samples and soils samples will be collected from areas that appear stained. The samples will be and transferred directly into appropriate containers and stored in ice packed coolers for transportation to the laboratory. Soil samples for VOC analysis will be preserved in the field with methanol per DEP and EPA Methods. The soil samples will be analyzed for volatile organic compounds and semi-volatile organic compounds (SVOCs) and RCRA metals. The results will be compared to the Cleanup Criteria. Any soils determined to be contaminated will be removed and transported offsite to a treatment or disposal facility licensed to accept wastes described by the waste codes of the source of the contamination. These cores will be analyzed for volatile organic compounds and semi-volatile organic compounds to demonstrate that the concrete has been decontaminated. The coring and sampling requires specialized equipment and a 2- man crew.

Soil samples will also be collected from beneath each of the concrete core locations using a stainless-steel hand auger that will be decontaminated between sample locations. One sample will be collected from each location at the 0-1-foot depth below the concrete surface and transferred directly into appropriate containers and stored in ice packed coolers for transportation to the laboratory.

In the event soil samples exceed the Soil Cleanup Target Criteria, monitoring wells will be installed and sampled at the location of the soil boring. The groundwater monitoring wells will be sampled based on the results of the soil sample. The samples will be tested for the same analyses of soil samples.

Concrete Pad Management Unit	Approximate Area (sq. ft.)	Number of Samples
SWMF Containment Areas	3,500	8
Processing Pits	525	4

10.4.1.2.5 Additional Waste Management Procedures - Decontamination waste materials that cannot be decontaminated will be characterized, containerized and shipped off-site for disposal and/or recycling. The two processing pits and containment area piping will be filled with concrete.

10.4.1.2.6 Other Control Procedures - Prior to initiating decontamination procedures, the site will be 'prepped' to maintain run- on and run-off control. All portable equipment to be decontaminated will be moved to an existing containment pad areas prior to initiating the decontamination process to prevent run-off of rinsates. Plastic sheeting or other suitable barrier will be erected along the containment wall where necessary to contain any overspray within the secondary containment structure.

All portable/dismantled decontaminated equipment/structures will be moved to a containment area away from the decontamination areas to prevent run-on of contaminated liquid. All sheeting will be containerized and transported off-site as a non-hazardous waste. All barriers utilized will be decontaminated and transported off-site to a metal recycler or solid waste disposal facility.

10.5 CERTIFICATION OF CLOSURE

Within 60 days of closure completion, UES will submit Closure Certification to the Director by registered mail. The Closure Certification will include a certification that the facility, as applicable, has been closed in accordance with the specifications in the approved closure plan. The certification will be signed by UES and by an independent registered professional engineer. Documentation supporting the independent registered engineer's certification will be furnished to the Director in accordance with FAC requirement including:

1. The results of all sampling and analysis;
2. Sampling and analysis procedures;
3. A map showing the location where samples were obtained;
4. Any statistical evaluations of sampling data;
5. A summary of waste types and quantities removed from the site and the destination of these wastes; and
6. If soil has been excavated, the final depth and elevation of the excavation and a description of the fill material used.

The UES facility will maintain financial assurance for closure until the Director releases the UES facility from the financial assurance requirements for closure.

The certification must be worded as follows:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

10.6 POST-CLOSURE NOTICES FILED

The applicant must provide documentation that the post-closure notices required under 40 CFR §265.310 have been filed for hazardous waste disposal units that have been closed at the facility.

10.7 POST-CLOSURE PLAN

10.7.1 Applicability - Not applicable: Hazardous waste is not being stored at the facility. In addition, waste will not be left behind at closure. A survey plat, post-closure care, post-closure certifications, and other notices are not required.

10.8 APPLICABILITY - NOT APPLICABLE

Hazardous waste is not being stored at the facility. In addition, waste will not be left behind at closure. A survey plat, post-closure care, post-closure certifications, and other notices are not required.

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(28), F.A.C.

Form Title: Closure Cost Estimating Form For Solid Waste Facilities

Effective Date: January 6, 2010

Incorporated in Rule 62-701.630(3), F.A.C.

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: UES Solid Waste Management Facility WACS ID: _____

Permit Application or Consent Order No.: Application Rev 1 Expiration Date: _____

Facility Address: 1650 Hemlock Street Building #2 Tampa, FL 33605

Permittee or Owner/Operator: Universal Environmental Solutions, LLC.

Mailing Address: 1650 Hemlock Street Tampa, FL 33605

Latitude: 27 ° 56 ' 64.1611 " Longitude: 82 ° 26 ' 31.8552 "

Coordinate Method: Google Earth Datum: GPS

Collected by: Jim Seavy Company/Affiliation Seavy & Associates, Inc.

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
SWPF	~1	NA	NA	NA	NA	NA

Total disposal unit acreage included in this estimate: Closure: ~1 Long-Term Care: 0

Facility type: ☒ Class I ☐ Class III ☐ C&D Debris Disposal
(Check all that apply) ☒ Other: Indoor collection &solidification disposal NonHaz waste offsite

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

☒ Letter of Credit* ☐ Insurance Certificate ☐ Escrow Account
☐ Performance Bond* ☐ Financial Test ☐ Form 29 (FA Deferral)
☐ Guarantee Bond* ☐ Trust Fund Agreement

* - Indicates mechanisms that require the use of a Standby Trust Fund Agreement

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate ajustment below.

☐ **(a) Inflation Factor Adjustment** ☐ **(b) Recalculated or New Cost Estimate**

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflatory by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website www.dep.state.fl.us/waste/categories/swfr or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the Department approved closing cost estimate dated: NA

Latest Department Approved **Closing Cost** Estimate:		Current Year Inflation Factor, ***e.g. 1.02***		Inflation Adjusted Closing Cost Estimate:
	×		=	

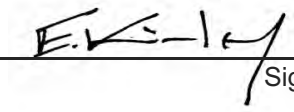
This adjustment is based on the Department approved long-term care cost estimate dated: NA

Latest Department Approved Annual **Long-Term Care** Cost Estimate:		Current Year Inflation Factor, ***e.g. 1.02***		Inflation Adjusted Annual Long-Term Care Cost Estimate:
	×		=	

Number of Years of Long Term Care Remaining: × 0

Inflation Adjusted Long-Term Care Cost Estimate: =

Signature by: ☒ **Owner/Operator** ☐ **Engineer** (check what applies)



Signature

1650 Hemlock Street
Address

Ed Kinley President
Name & Title

Tampa, FL 33605
City, State, Zip Code

09/26/2022
Date

ekinley@uestampa.com
E-Mail Address

813-241-9216
Telephone Number

IV. ESTIMATED CLOSING COST (check what applies)

☐ **Recalculated Cost Estimate** ☒ **New Facility Cost Estimate**

Notes: 1. Cost estimates for the time period when the extent and manner of landfill operation makes closing most exp
2. Cost estimate must be certified by a professional engineer.
3. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.
4. In some cases, a price quote in support of individual item estimates may be required.

Description	Unit	Number of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA	2	$0.00	
			Subtotal Proposed Monitoring Wells:	
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	0		
Placement and Spreading	CY	0		
Compaction	CY	0		
Off-Site Material	CY	0		
Delivery	CY	0		
			Subtotal Slope and Fill:	
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	0		
Synthetics - 40 mil	SY	0		
Synthetics - GCL	SY	0		
Synthetics - Geonet	SY	0		
Synthetics - Other (explain)		0		
			Subtotal Cover Material:	
4. Top Soil Cover:				
Off-Site Material	CY	0		
Delivery	CY	0		
Spread	CY	0		
			Subtotal Top Soil Cover:	
5. Vegetative Layer				
Sodding	SY	0		
Hydroseeding	AC	0		
Fertilizer	AC	0		
Mulch	AC	0		
Other (explain)		0		
			Subtotal Vegetative Layer:	
6. Stormwater Control System:				
Earthwork	CY	0		
Grading	SY	0		
Piping	LF	0		
Ditches	LF	0		
Berms	LF	0		
Control Structures	EA	0		
Other (explain)		0		
			Subtotal Stormwater Control System:	

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA	0		
Pipe and Fittings	LF	0		
Monitoring Probes	EA	0		
NSPS/Title V requirements	LS	1	$0.00	
			Subtotal Passive Gas Control:	
8. Active Gas Extraction Control:				
Traps	EA	0		
Sumps	EA	0		
Flare Assembly	EA	0		
Flame Arrestor	EA	0		
Mist Eliminator	EA	0		
Flow Meter	EA	0		
Blowers	EA	0		
Collection System	LF	0		
Other (explain) _____		0		
			Subtotal Active Gas Extraction Control:	
9. Security System:				
Fencing	LF	0		
Gate(s)	EA	0		
Sign(s)	EA	0		
			Subtotal Security System:	
10. Engineering:				
Closure Plan Report	LS	1	$0.00	
Certified Engineering Drawings	LS	1	$0.00	
NSPS/Title V Air Permit	LS	1	$0.00	
Final Survey	LS	1	$0.00	
Certification of Closure	LS	1	$0.00	
Other (explain) _____				
			Subtotal Engineering:	

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	Contract Management		Quality Assurance		
P.E. Supervisor	0	$75.00	0	$75.00	
On-Site Engineer	0	$60.00	0	$60.00	
Office Engineer	0	$60.00	0	$60.00	
On-Site Technician	0	$48.00	0	$48.00	
Other (explain)					

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	$0.00	
			Subtotal Professional Services:	

Subtotal of 1-11 Above:

12. Contingency 10 % of Subtotal of 1-11 Above

Subtotal Contingency:

Estimated Closing Cost Subtotal:

Description		Total Cost
13. Site Specific Costs		
Mobilization		
Waste Tire Facility		
Materials Recovery Facility		
Special Wastes		
Leachate Management System Modification		
Other (explain) TOTAL COST FROM ESTIMATE		$66,591.00
	Subtotal Site Specific Costs:	$66,591.00

TOTAL ESTIMATED CLOSING COSTS ($): $66,591.00

V. ANNUAL COST FOR LONG-TERM CARE

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

(Check Term Length) ☐ 5 Years ☐ 20 Years ☐ 30 Years ☒ Other, 0 Years

Notes: 1. Cost estimates must be certified by a professional engineer.

2. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.

3. In some cases, a price quote in support of individual item estimates may be required.

All items must be addressed. Attach a detailed explanation for all entries left blank.

Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
1. Groundwater Monitoring [62-701.510(6), and (8)(a)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Groundwater Monitoring:	
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Surface Water Monitoring:	
3. Gas Monitoring [62-701.400(10)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Gas Monitoring:	
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
Other (explain)				
			Subtotal Leachate Monitoring:	

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF			
Sumps, Traps	EA			
Lift Stations	EA			
Cleaning	LS	1		
Tanks	EA			

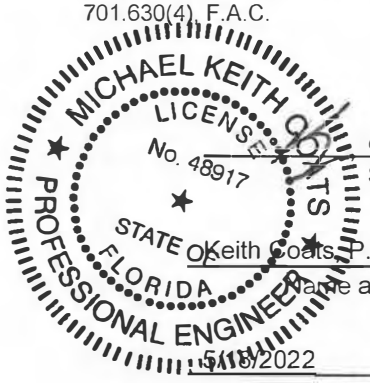
Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
Impoundments				
Liner Repair	SY			
Sludge Removal	CY			
Aeration Systems				
Floating Aerators	EA			
Spray Aerators	EA			
Disposal				
Off-site (Includes transportation and disposal)	1000 gallon			
			Subtotal Leachate Collection / Treatment Systems Maintenance:	
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF			
Replacement	EA			
Abandonment	EA			
			Subtotal Groundwater Monitoring Well Maintenance:	
7. Gas System Maintenance				
Piping, Vents	LF			
Blowers	EA			
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			
Operation	LS	1		
			Subtotal Gas System Maintenance:	
8. Landscape Maintenance				
Mowing	AC			
Fertilizer	AC			
			Subtotal Landscape Maintenance:	
9. Erosion Control and Cover Maintenance				
Sodding	SY			
Regrading	AC			
Liner Repair	SY			
Clay	CY			
			Subtotal Erosion Control and Cover Maintenance:	
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	1		
			Subtotal Storm Water Management System Maintenance:	
11. Security System Maintenance				
Fences	LS	1		
Gate(s)	EA			
Sign(s)	EA			
			Subtotal Security System Maintenance:	

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	1		
			Subtotal Utilities:	
13. Leachate Collection/Treatment Systems Operation				
Operation				
P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR			
Materials	LS	1		
			Subtotal Leachate Collection/Treatment Systems Operation:	
14. Administrative				
P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR			
Other				
			Subtotal Administrative:	
			Subtotal of 1-14 Above:	
15. Contingency	0	% of Subtotal of 1-14 Above		
			Subtotal Contingency:	

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
			Subtotal Site Specific Costs:	
			ANNUAL LONG-TERM CARE COST ($ / YEAR):	
			Number of Years of Long-Term Care:	
			TOTAL LONG-TERM CARE COST ($):	

VI. CERTIFICATION BY ENGINEER

This is to certify that the Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and/or long-term care of the facility and comply with the requirements of Rule 62-701.630 F.A.C. and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.



Signature

Keith Coats, P.E.
Name and Title (please type)

5/18/2022
Date

48917
Florida Registration Number
(please affix seal)

7220 Alafia Ridge Loop
Mailing Address

Riverview FL 33569
City, State, Zip Code

kcoats@acgtampa.com
E-Mail address (if available)

813-917-8267
Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

Signature of Applicant

Ed Kinley President
Name and Title (please type)

ekinley@uestampa.com
E-Mail address (if available)

1650 Hemlock Street
Mailing Address

Tampa, FL 33605
City, State, Zip Code

813-241-9216
Telephone Number

SEAVY & ASSOCIATES, INC.

July 12, 2022

Mr. Ed Kinley
UES
1650 Hemlock Street
Tampa, Florida 33605

Re: Solid Waste Permit Building Closure Cost Estimate for Permit Modification

Dear Mr. Kinley:

As requested,. Seavy 8: Associates. Inc. (S&A) has prepared this proposal to provide labor, equipment and materials for closure of the Solid Waste Processing Building (SWPB). This proposal was developed with understand of the FDEP facility closure requirements under FAC 62-701.710 for closure of permitted indoor Solid Waste Processing facilities that do not dispose of waste onsite. It is our understanding that the cost will be used to amend the present cost estimate and will be increased for an inflation factor per annum. The scope of work and cost estimate was developed to provide closure of the SWPB and and includes characterization sampling, the installation and sampling of 2 downgradient wells and a closure certification and report per form DEP Form # 62-701.900(28), F.A.C. is included with this proposal.

TASK 1 – SWPB &SECONDARY CONTAINMENT DECONTAMINATION

- The concrete containment structure and two pits will have samples collected for a waste characterization for disposal.
- The concrete containment structure and pits will be triple rinsed and cleaned of all staining and surface contamination. Estimated 1,000 gallons for disposal based on maximum daily PCW production.
- Any equipment left in the SWPB will be triple rinsed and disposed of as solid waste under Task 4.

TASK 2 - WASH WATER

- After cleaning of the concrete containment structure the wash water will be sampled for a waste characterization. Estimated 2,000 gallons developed for disposal based on containment area size.
- S&A has contracted and will dispose of all wash water collected at A&D Environmental Services (ADES) located in Macon Ga. EPA ID GAR000007484.

TASK 3 – SLUDGE / SEDIMENT

- Any residual sludge or sediment left in the pits or containment area will be collected sampled for waste characterization. Estimated 1,000 gallons for disposal based on size of containment area size.
- ADES is contracted to remove and dispose of the sludge/sediment and any remaining solids within the SWPB areas.

TASK 4 – USED OIL FILTER AND SOLID WASTE MANAGEMENT

- Solid waste totals for disposal are calculated based off of the capacities of the 2 processing pits (78 cu yds), the maximum of 70 drum capacity (19 cu yds) and the facility rolloff capacity of 20 cu yds.
- Any use oil filters or solid waste remaining in the containment area, pits or roll-off's waste characterization. Estimated 160 tons for disposal.
- ADES is contracted to remove and dispose of the used oil filters and remaining solids within the SWPB area.

TASK 5 – PETROLEUM CONTAMINATED WATER (PCW), EQUIPMENT AND SECONDARY CONTAINMENT RINSEATES

- Liquids that are suspected to be PCW will be sampled and characterized for disposal.
- A&D Environmental is contracted to remove and dispose of the PCW within the SWPB areas area. Estimated 1,000 gallons of PCW developed for disposal.

TASK 6 – MOBILIZATION

- S&A will mobilize all needed tools, equipment, and supplies and set up a decontamination area prior to starting closure activities.

TASK 7 - TANK(S) REMOVAL

- No tanks are located at the SWPB.

TASK 8 - CLOSURE SAMPLING AND ANALYSIS PLAN IMPLEMENTATION

- S&A will develop a sampling plan based on the UES used oil processing facility closing cost estimate form.
- Samples will be collected and analyzed by a NELAC Certified Laboratory. The analytical data will be used to create waste characterization forms to allow for proper disposal as outline through task' s 1-7.
- 2 Monitoring Wells will be installed down gradient of the SWPB and sampled for the parameters detailed in the following table:

Field Parameters	Laboratory parameters
Static water level in wells before purging	Total ammonia – N
Specific conductivity	Chlorides
pH	Iron
Dissolved oxygen	Mercury
Turbidity	Nitrate
Temperature	Sodium
Colors and sheens	Total dissolved solids (TDS)
(by observation)	Those parameters listed in 40 C.F.R. Part
	258 Appendix I
(b) Surface water monitoring parameters:	
Field parameters	Laboratory parameters
Specific conductivity	Unionized ammonia
pH	Total hardness (as mg/L $CaCO_3$)
Dissolved oxygen	Biochemical oxygen demand (BOD_5)
Turbidity	
Temperature	Iron
Colors, sheens (by observation)	Mercury
	Nitrate
	Total dissolved solids (TDS)
	Total organic carbon (TOC)
	Fecal coliform
	Total phosphorus (as mg/L P)
	Chlorophyll A
	Total nitrogen
	Chemical oxygen demand (COD)
	Total suspended solids (TSS)
	Those parameters listed in 40 C.F.R. Part 258 Appendix I

TASK 9 - CLOSURE CERTIFICATION REPORT

- S&A will create the Closure Certification Report upon completion of all closure activities and well sampling results.
- No air permitting will be required on this site.

If you have questions or need additional information, please do not hesitate to contact me at 813-917-9267.

Very truly yours,
SEAVY & ASSOCIATES, INC.

James Seavy
Project Manager

UES Approval
Proposal accepted. Seavy & Associates, Inc. is authorized to initiate service per this Proposal as of _____, 2020.

By:_____

Title:_____

Date:_____

Attachments Exhibit A - Cost Breakdown Sheet