Application for Variance

City of Key West, Florida • Planning Department

1300 White Street • Key West, Florida 33040 • 305-809-3764 • www.cityofkeywest-fl.gov

Application Fee: $2,300.00 / After-the-Fact: $4,300.00
(includes $200.00 advertising/noticing fee and $100.00 fire review fee)

Please complete this application and attach all required documents. This will help staff process your request quickly and obtain necessary information without delay. If you have any questions, please call 305-809-3764.

PROPERTY DESCRIPTION:

Site Address: 601 Truman Ave

Zoning District: HNC-1

Real Estate (RE) #: 000127270-000000 & 00017270-000100

Property located within the Historic District? ☒ Yes ☐ No

APPLICANT: ☐ Owner ☒ Authorized Representative

Name: Trepanier & Associates, Inc.

Mailing Address: 1421 First Street #101

City: Key West State: FL, 33040 Zip:

Home/Mobile Phone: NA Office: 305-293-8983 Fax: 305-293-8748

Email: Thomas@owentrepanier.com

PROPERTY OWNER: (if different than above)

Name: Venter Enterprises, LLC

Mailing Address: 608 Griffin Lane

City: Key West State: FL, 33040 Zip:

Home/Mobile Phone: NA Office: c/o305-293-8983 Fax: 305-293-8748

Email: c/o thomas@owentrepanier.com

Description of Proposed Construction, Development, and Use:

See attached

List and describe the specific variance(s) being requested:

See attached

Are there any easements, deed restrictions or other encumbrances attached to the property? ☐ Yes ☒ No

If yes, please describe and attach relevant documents:

Will any work be within the dripline (canopy) of any tree on or off the property? ☒ Yes ☐ No
If yes, provide date of landscape approval, and attach a copy of such approval.

Is this variance request for habitable space pursuant to Section 122-1078? ☒ Yes ☐ No

Please fill out the relevant Site Data in the table below. For Building Coverage, Impervious Surface, Open Space and F.A.R. ***provide square footages and percentages.***

Site Data Table				
	Code Requirement	**Existing**	**Proposed**	**Variance Request**
Zoning				
Flood Zone				
Size of Site				
Height				
Front Setback		See attached		
Side Setback				
Side Setback				
Street Side Setback				
Rear Setback				
F.A.R				
Building Coverage				
Impervious Surface				
Parking				
Handicap Parking				
Bicycle Parking				
Open Space/ Landscaping				
Number and type of units				
Consumption Area or Number of seats				

This application is reviewed pursuant to Section 90-391 through 90-397 of the City of Key West Land Development Regulations (LDRs). The City's LDRs can be found in the Code of Ordinances online at http://www.municode.com/Library/FL/Key_West under Subpart B.

***Please note, variances are reviewed as quasi-judicial hearings, and it is improper for the owner or applicant to speak to a Planning Board member or City Commissioner about the hearing.**

Standards for Considering Variances

Before any variance may be granted, the Planning Board and/or Board of Adjustment must find all of the following requirements are met: Please print your responses.

1. Existence of special conditions or circumstances. That special conditions and circumstances exist which are peculiar to the land, structure or building involved and which are not applicable to other land, structures or buildings in the same zoning district.
   Special conditions exist which creates undue burden limiting development potential on the property. Original use of the existing historic structure was as a gas station which dictated a large front setback to allow for vehicle traffic on and off the property and situated the building in the side and rear setbacks. As a result, historically sympathetic development on the rear lot together with compliance with parking regulations requires a large front setback. In addition, though the project will increase actual parking while reducing parking demand however, the act of enclosing existing outdoor activity within a HARC-approved building and building affordable housing, triggers the parking code.
2. Conditions not created by applicant. That the special conditions and circumstances do not result from the action or negligence of the applicant.

   Conditions are not created by the applicant. The special conditions and circumstances of the property predate the current owner of this historic property. The proposed action of the owner is to enhance and redevelop the property to benefit the needs of the community by enclosing existing outdoor activity, reducing intensity and parking demand while adding employee housing.

3. Special privileges not conferred. That granting the variance(s) requested will not confer upon the applicant any special privileges denied by the land development regulations to other lands, buildings or structures in the same zoning district.

   Special privileges will not be conferred upon the granting of the variance. The variance process is available to all property owners in this district, and if other owners attempt to construct affordable housing and increase off-street parking as part of their projects, they are entitled to the same process and consideration of fact.

4. Hardship conditions exist. That literal interpretation of the provisions of the land development regulations would deprive the applicant of rights commonly enjoyed by other properties in this same zoning district under the terms of this ordinance and would work unnecessary and undue hardship on the applicant.

   Hardship conditions exist. Parking and rear setback requirements deny reasonable use of the property and prevents much needed affordable residential housing from being developed.

5. Only minimum variance(s) granted. That the variance(s) granted is/are the minimum variance(s) that will make possible the reasonable use of the land, building or structure.

   Only the minimum variances are being requested to allow for reasonable development of the rear parcel. Storm water and impervious surface are improved and building coverage remains compliant.

6. Not injurious to the public welfare. That granting of the variance(s) will be in harmony with the general intent and purpose of the land development regulations and that such variances will not be injurious to the area involved or otherwise detrimental to the public interest or welfare.

The granting of this variance is not injurious to the public welfare, in fact it will allow for the placement of 4 affordable housing units for permanent residents. Reducing the intensity and maintaining the presence of recreational vehicle rental use on the property furthers the city's goal of promoting multi-modal and environmentally friendly transportation.

7. Existing nonconforming uses of other property shall not be considered as the basis for approval. That no other nonconforming use of neighboring lands, structures, or buildings in the same district, and that no other permitted use of lands, structures or buildings in other districts shall be considered grounds for the issuance of a variance.

Existing nonconforming uses of the other property are not considered as the basis for approval.

The Planning Board and/or Board of Adjustment shall make factual findings regarding the following:

- That the standards established in Section 90-395 have been met by the applicant for a variance.
- That the applicant has demonstrated a "good neighbor policy" by contacting or attempting to contact all noticed property owners who have objected to the variance application, and by addressing the objections expressed by these neighbors. Please describe how you have addressed the "good neighbor policy."

REQUIRED SUBMITTALS: ***All*** **of the materials listed below must be submitted in order to have a complete application. Applications will not be processed until all materials are provided. Please submit one (1) paper copy of the materials to the Planning Department along with one (1) electronic copy of materials on a flash drive.**

☒ Correct application fee. Check may be payable to "City of Key West."

☒ Notarized verification form signed by property owner or the authorized representative.

☒ Notarized authorization form signed by property owner, if applicant is not the owner.

☒ Copy of recorded warranty deed

☒ Monroe County Property record card

☒ Signed and sealed survey (Survey must be within 10 years from submittal of this application)

☒ Site plan (plans **MUST** be signed and sealed by an Engineer or Architect)

☒ Floor plans

☒ Stormwater management plan

Description of Proposed Construction, Development, and Use:

This application adjoins a major development plan and conditional use approval at 601 Truman Avenue and 919 Simonton Street.

601 Truman Avenue and 919 Simonton Street are two independent lots of record under common ownership. Both lots are currently used for the small recreational power-driven equipment rentals, low speed vehicle rentals, bicycle rentals, sales, service/repair, manufacturing, outdoor display, and indoor and outdoor storage commonly known as the "Moped Hospital". This project will aggregate the lots for the purposes of development.

We seek to reduce the scope and scale of the existing operation and convert the corner to a restaurant with food and drink service.

This application specifically seeks variance approval to reduce the capacity and intensity of the rentals, sales, service/repair, manufacturing and outdoor display and storage to allow for the adaptive reuse of the historic service station building as a restaurant use with food and drink service.

Phase I encompasses the adaptive reuse and restoration of the historic service station located on the 601 Truman Avenue parcel. The building will be interiorly renovated and exteriorly restored to become the flagship location of the Cuban Coffee Queen. Improvements to the site include stormwater management, landscaping, and parking. Outdoor display and storage will be dramatically reduced, and nonconforming fencing will be completely eliminated.

Phase II encompasses the 919 Simonton Street parcel. The existing 1,052 sq. ft. of nonconforming commercial structures will be removed and replaced with 1,775 sq. ft. of commercial floor area in a mixed-use building to contain the remaining rental vehicle activity indoors and create 4 units of deed restricted affordable employee housing. Like Phase I, Phase II site work will include improvements to setbacks, stormwater management, landscaping, open space, and parking.

Table 1, below, contains an inclusive list of development activities by property and phase.

List and describe the specific variance(s) being requested:

- Variance to Sec. 108-572. – Schedule of off-street parking requirements by use generally, of 119 auto spaces from the 124 spaces required to the 4 (1 ADA, 1 standard, 2 compact) spaces proposed (an improvement of the existing demand 135.3 auto spaces and 2 substandard-sized spaces existing).
- Variance to Sec. 108-641. – Driveways, aisles, and stalls, of 1-ft. from the 9-ft parking stall width to the 2 8-ft wide proposed parking stalls (an improvement of the 2 narrower substandard-size spaces existing).
- Variance to Sec. 122-810.(4)a. – Building coverage, of 3.4% from the 50% required to the 53.4% proposed in Phase II (42.1% building coverage existing).
- Variance to Sec. 122-810.(4)b. – Impervious surface, of 32.9% from the 60% required to the 92.9% proposed in Phase II (an improvement of the 100% impervious surface existing).
- Variance to Sec. 122-810.(6)b. – Side yard setback, of 2.8 ft. from the 5 ft. required to the 2.2 ft. proposed due to existing historic structure (0.0 ft. existing due to nonhistorical nonconforming structures).
- Variance to Sec. 122-810.(6)c. – Rear yard setback, of 9.8 ft. from the 15 ft. required to the 5.2 ft proposed (0.0 ft. existing due to nonhistorical nonconforming structures).
- Variance to Sec. 122-810.(6)d. – Street side setback, of 0.3 ft. from the 7.5 ft. required to the 7.2 ft. proposed due to existing historic structure (7.2 ft. existing).
- Variance to Sec. 122-776.(b). – Minimum size dwelling, of 457 sq. ft. from the 750 sq. ft. required to the 293 sq. ft. proposed.

Table 1. Activity by Property and Phase:

Property	Historic Use	Existing Use	Proposed Use	
			Phase I	Phase II
601 Truman	Service Station	Small recreational power-driven equipment rentals, sales, service/ repair, indoor and outdoor storage, and manufacturing with 2,011 sq. ft. indoor and 4,633 sq. ft. of outdoor use.	Convert the area and use of the 3,684 sq. ft. of outdoor storage of rental vehicles to restaurant seating, 1 new standard auto + 1 new ADA parking spaces, 16 new bicycle-scooter spaces, and new landscaping area, and maintain an existing area on the corner for approx. 5 rental vehicles. Reduce accessory small vehicle sales, service/repair, and manufacturing. Change licensing of the vehicle type of 50 small recreational power-driven vehicle rentals from scooter to golf carts/ electric cars. Construct ADA restrooms. Convert 1,604 sq. ft. of exiting indoor vehicular sales, service/repair, storage, and manufacturing area to restaurant-related uses (kitchen, seating, etc.), accessory retail, storage, and warehousing. Reduce impervious surface by approximately 434 sq. ft. (a 4.2% improvement). Create approx. 494 sq. ft. of landscaping.	No Change
919 Simonton	Restaurant Service Station	Small recreational power-driven equipment rentals, sales, service/ repair, indoor and outdoor storage, and manufacturing with 3,595 sq. ft. of outdoor use, inclusive of 1,060 sq. ft. of nonconforming nonhistorical structures and 2 substandard parking spaces.	Demolish 35 sq. ft. of nonconforming nonhistorical commercial structure used for vehicular service/repair, storage, and manufacturing to construct a commercial restaurant grease trap. Change 2 substandard parking spaces to 2 compact-width auto parking spaces.	Demolish 1,052 sq. ft. of nonconforming nonhistorical commercial structures used for vehicular service/repair, storage and manufacturing. Build 1,872 sq. ft. of commercial floor area to move vehicular service/repair, and storage area indoors. Build 4 affordable accessory infill units of approximately 293-336 sq. ft. in size. Construct 8 new bicycle parking spaces for the affordable accessory infill units. Reduce impervious surface by an additional 289 sq. ft. for 723 sq. ft. of open space (a 7.1% improvement). Create approx. 289 sq. ft. of additional landscaping. Install stormwater management.

Table 2. Site Data (Aggregated 601 Truman & 919 Simonton):

Site Data	Permitted/ Required	Existing	Proposed		Compliance
			Phase 1	Phase 2	
Zoning	HNC-1	HNC-1	No Change	No Change	Complies
FLUM	HC	HC	No Change	No Change	Complies
Flood Zone	NGVD 29: X-Zone NAVD 88: AE 9	NGVD 29: X-Zone NAVD 88: AE 9	No Change	No Change	Complies
Year Built	-	Pre-1945	No Change	No Change	Complies
Site Size	4,000 sq. ft.	10,239 sq. ft.	No Change	No Change	Complies
Height	35 ft.	16 ft.	No Change	23.5 ft.	Complies
Density	16 du/ac (4 units) + 1 aff. du bonus	0	0	4 Affordable	Complies
Building Coverage	50% (5,120 sq. ft.)	42.1% (4,308 sq. ft.)	41.6% (4,260 sq. ft.)	53.4% (5,468 sq. ft.)	Variance of 3.4%
Floor Area Ratio	1.0	0.4 (4,308 sq. ft.)	0.4 (4,260 sq. ft.)	0.5 (5,080 sq. ft.)	Complies
Impervious Surface	60% (6,143 sq. ft.)	100%	95.8% (9,805 sq. ft.)	92.9% (9,516 sq. ft.)	Improvement
Open Space	Ex: 20% (2,048 sq. ft.) Ph 1: 20% (2,048 sq. ft.) Ph 2: 25%[1] (2,568 sq. ft.)	0%	4.2% (438 sq. ft.)	7.1% (723 sq. ft.)	Improvement
Landscape	20% (2,048 sq. ft.)	0%	4.8% (494 sq. ft.)	7.7% (783 sq. ft.)	Improvement
Setback – Front	5 ft.	5 ft.	5 ft.	5 ft.	Complies
Setback – Side	5 ft.	0 ft.	0 ft.	2.2 ft.[2]	Improvement
Setback – Street Side	7.5 ft.	7.2 ft.	7.2 ft.	7.2 ft.	No Change
Setback – Rear	15 ft.	0 ft.	0 ft.	5.2 ft.	Improvement
Parking – Auto	Existing = 135.3 Proposed = 124.0	2 spaces (substandard size)	4 spaces (1 standard, 2 compact + 1 ADA)	4 spaces (1 standard, 2 compact + 1 ADA)	Improvement
Parking – Bicycle/Scooter	Existing = 14.3 Proposed = 24.0	0 spaces	16 spaces	24 spaces	Complies

[1] Pursuant to Sec. 108-346(b), mixed use open space is based on the proportion of residential area (1,531 sq. ft. or 13% of total area) and nonresidential area (10,159 sq. ft. or 87% of total area).

[2] Existing historic structure sits 2.2 ft away from lot line to remain; existing accessory structure creating a 0-ft setback at lot line to be fully removed.

qPublic.net™ Monroe County, FL

Summary

Parcel ID	00017270-000000
Account#	1017736
Property ID	1017736
Millage Group	10KW
Location Address	601 TRUMAN Ave, KEY WEST
Legal Description	KW PT LOT 1 SQR 7 TR 4 G2-177 OR807-1018/20 OR976-9/11 OR1706-2011/12 OR2662-2113/14 OR3049-1163 (Note: Not to be used on legal documents.)
Neighborhood	32080
Property Class	SERVICE SHOPS (2500)
Subdivision	
Sec/Twp/Rng	06/68/25
Affordable Housing	No

Owner

VENTER ENTERPRISES LLC
608 Griffin Ln
Key West FL 33040

		2020	2019	2018	2017
+	Market Improvement Value	$179,730	$179,730	$180,060	$180,060
+	Market Misc Value	$18,271	$18,271	$18,271	$18,271
+	Market Land Value	$731,205	$838,141	$809,239	$379,505
=	Just Market Value	**$929,206**	**$1,036,142**	**$1,007,570**	**$577,836**
=	Total Assessed Value	**$769,098**	**$699,180**	**$635,619**	**$577,836**
-	School Exempt Value	$0	$0	$0	$0
=	School Taxable Value	**$929,206**	**$1,036,142**	**$1,007,570**	**$577,836**

Land Use	Number of Units	Unit Type	Frontage	Depth
(2500)	6,644.00	Square Foot	67	99

Commercial Buildings

Style	SERV SHOPS ETC / 25C
Gross Sq Ft	2,596
Finished Sq Ft	2,150
Perimiter	0
Stories	3
Interior Walls	
Exterior Walls	C.B.S.
Quality	400 ()
Roof Type	
Roof Material	
Exterior Wall1	C.B.S.
Exterior Wall2	
Foundation	
Interior Finish	
Ground Floor Area	
Floor Cover	
Full Bathrooms	2
Half Bathrooms	0
Heating Type	
Year Built	1958
Year Remodeled	
Effective Year Built	1994
Condition	

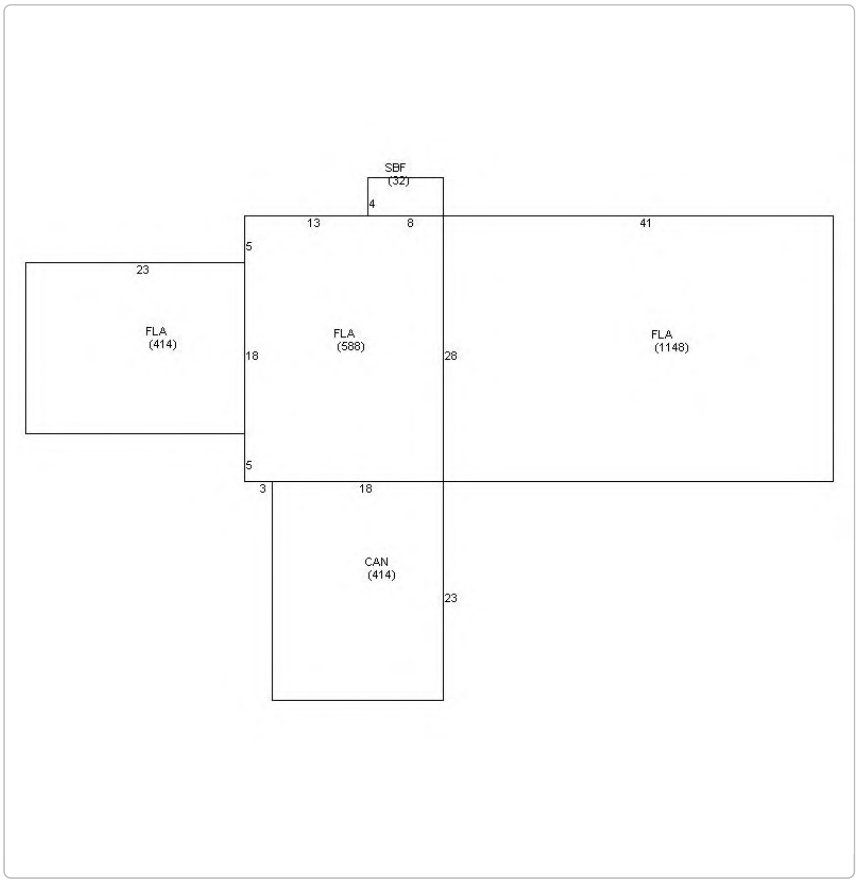
Code	Description	Sketch Area	Finished Area	Perimeter
CAN	CANOPY	414	0	0
FLA	FLOOR LIV AREA	2,150	2,150	0
SBF	UTIL FIN BLK	32	0	0
TOTAL		**2,596**	**2,150**	**0**

Description	Year Built	Roll Year	Quantity	Units	Grade
CONC PATIO	1975	1976	1	4080 SF	2
CH LINK FENCE	1980	1981	1	336 SF	1
CONC PATIO	1980	1981	1	360 SF	2

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Vacant or Improved
9/30/2020	$1,525,000	Warranty Deed	2285415	3049	1163	99 - Unqualified	Improved
12/12/2013	$825,000	Warranty Deed		2662	2113	05 - Qualified	Improved
6/27/2001	$411,000	Warranty Deed		1706	2011	M - Unqualified	Improved

Number	Date Issued	Date Completed	Amount	Permit Type	Notes
04-2583	8/2/2004	11/5/2004	$1,500		BLOVK-IN 2 A/C HOLES
04-2302	7/13/2004	11/5/2004	$4,800		INSTALL 3 A/C,DUCTLESS
0201175	5/7/2002	10/7/2002	$1,000		CLEAN/PAINT BLDG
0000347	2/11/2000	12/7/2000	$10,000		27 SQS RUBBER ROLL ROOFIN

Sketches (click to enlarge)



No data available for the following modules: Buildings, Mobile Home Buildings, Exemptions.

Last Data Upload: 10/21/2020, 2:31:43 AM

Version 2.3.91

qPublic.net™ Monroe County, FL

Summary

Parcel ID	00017270-000100
Account#	8804016
Property ID	8804016
Millage Group	10KW
Location Address	919 SIMONTON St, KEY WEST
Legal Description	KW PT LOT 1 SQR 7 TR 4 OR84-460/462 OR807-1018/1020 OR976-9/11 OR1706-2011/12 OR2662-2113/14 OR3049-1163 (Note: Not to be used on legal documents.)
Neighborhood	32080
Property Class	PARKING LOT (2800)
Subdivision	
Sec/Twp/Rng	06/68/25
Affordable Housing	No

Owner

VENTER ENTERPRISES LLC
608 Griffin Ln
Key West FL 33040

	2020	2019	2018	2017
+ Market Improvement Value	$0	$0	$0	$0
+ Market Misc Value	$0	$0	$0	$0
+ Market Land Value	$442,365	$557,764	$552,552	$259,128
= Just Market Value	**$442,365**	**$557,764**	**$552,552**	**$259,128**
= Total Assessed Value	**$344,898**	**$313,544**	**$285,040**	**$259,128**
- School Exempt Value	$0	$0	$0	$0
= School Taxable Value	**$442,365**	**$557,764**	**$552,552**	**$259,128**

Land Use	Number of Units	Unit Type	Frontage	Depth
(2800)	3,595.00	Square Foot	0	0

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Vacant or Improved
9/30/2020	$1,525,000	Warranty Deed	2285415	3049	1163	99 - Unqualified	Improved
12/12/2013	$825,000	Warranty Deed		2662	2113	05 - Qualified	Improved
6/27/2001	$1	Warranty Deed		1706	2011	M - Unqualified	Improved

No data available for the following modules: Buildings, Commercial Buildings, Mobile Home Buildings, Yard Items, Exemptions, Permits, Sketches (click to enlarge), Photos.

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Doc # 2285415 Bk# 3049 Pg# 1163 Recorded 10/9/2020 at 12:32 PM Pages 6
Filed and Recorded in Official Records of MONROE COUNTY KEVIN MADOK
REC: $52.50 Deed Doc Stamp $10,675.00

Prepared by and return to:
Gregory S. Oropeza, Esq.
Attorney at Law
Oropeza Stones Cardenas, PLLC
221 Simonton Street
Key West, FL 33040
305-294-0252
File Number: **20-619**
Consideration: **$1,525,000.00**

Parcel Identification No. **00017270-000000 and 00017270-000100**

[Space Above This Line For Recording Data]

Warranty Deed

(STATUTORY FORM - SECTION 689.02, F.S.)

This Indenture made this 30th day of **September, 2020** between **Square Foot Properties, Inc., a Florida corporation** whose post office address is **22 Spoonbill Way, Key West, FL 33040** of the County of **Monroe**, State of **Florida**, grantor*, and **Venter Enterprises, LLC, a Florida limited liability company** whose post office address is **608 Griffin Lane, Key West, FL 33040** of the County of **Monroe**, State of **Florida**, grantee*,

Witnesseth that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Monroe County, Florida**, to-wit:

On the Island of Key West and is known as a part of Tract Four according to William A. Whitehead's map of said island, delineated in February, 1829, and is further known as a part of Lot Two in Square Number Seven according to Simonton & Wall's Addition to Key West, recorded in Deed Book "E", Page 245, of the Public Records of Monroe County, Florida, but is now better known and described as part of Lot One of Block One, according to a diagram of Charles R. Pierce's Subdivision of Lots One and Two, Square Seven in said Tract Four, according to C.W. Tift's map dated 1874, which diagram of Charles R. Pierce's is recorded in Plat Book 1 on Page 20, of the Public Records of Monroe County, Florida. Said part of Lot One according to Charles R. Pierce's diagram being described by metes and bounds as follows:

Commencing at the corner of Division and Simonton Streets and running thence in a Northeasterly direction along the Northwesterly side of Division Street Ninety-nine (99) feet and Two (2) inches; thence at right angles in a Northwesterly direction Sixty-seven (67) feet; thence at right angles in a Southwesterly direction Ninety-nine (99) feet and Two (2) inches out to Simonton Street; thence at right angles in a Southeasterly direction along Simonton Street Sixty-seven (67) feet to the Point of Beginning.

AND

On the Island of Key West and is known as a part of Tract Four (4), according to William A. Whitehead's map of said Island delineated in February, 1829, and is further known as a part of Lot Two (2), in Square Seven (7), according to Simonton and Wall's Addition to Key West, recorded in Deed Book "E", Page 245, of the Public Records of Monroe County, Florida, but is now better known and described as part of Lot One (1) and part of Lot Two (2), of Block One (1), according to a diagram of Charles R. Pierce's subdivision of Lots One (1) and Two (2), Square Seven (7), in said Tract Four (4), according to C.W. Tift's map, dated 1874, which diagram of Charles R. Pierce's subdivision is recorded in Plat Book 1, at Page 20, of the Public Records of Monroe County, Florida.

Commencing at a point on the Northeasterly side of Simonton Street, distant 67 feet Northwesterly from the corner of the intersection of Simonton Street and Truman Avenue (formerly Division Street) and from said point run thence North 38° 30' West 36.25 feet; thence North 51° 30' East 99.165 feet; thence South 38° 30' East 36.25 feet; thence South 51° 30' West 99.2 feet to the Point or Place of Beginning on Simonton Street.

Subject to taxes for 2020 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

and said grantor does hereby fully warrant the title to said land, and will defend the same against lawful claims of all persons whomsoever.

* "Grantor" and "Grantee" are used for singular or plural, as context requires.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Square Foot Properties, Inc., a Florida corporation

Signature of Witness

Printed Name of Witness

By: _____
Lisa J. Smith-Duffy, President

ANN HINES

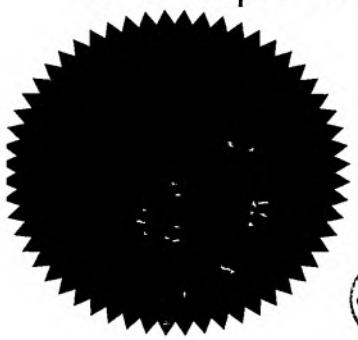
Signature of Witness

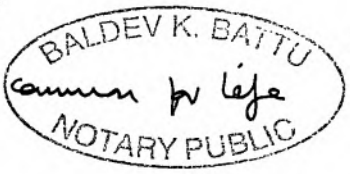
JANE CUMBERPATCH

Printed Name of Witness

State of London
County of England

The foregoing instrument was acknowledged before me by means of [X] physical presence or [ ] online notarization, this 28th day of September, 2020 by Lisa J. Smith-Duffy, President of Square Foot Properties, Inc., a Florida corporation, on behalf of the corporation. He/she [ ] is ~~personally known to me~~ or [X] has produced British Passport 558125527 as identification.





Baldev Battu
Notary Public

Printed Name: BALDEV. K. BATTU

My Commission ~~Expires:~~ To for Life

This 28th September 2020

Prepared by and Return to:
Oropeza Stones & Cardenas
221 Simonton Street
Key West, FL 33040

RESOLUTIONS OF CORPORATE BOARD AUTHORIZING EXECUTION OF SALE OF ALL ASSETS NOT IN THE ORDINARY COURSE OF BUSINESS AND SHAREHOLDER APPROVAL AND COMPLIANCE WITH FLORIDA STATUTES §607.1202

LISA J. SMITH-DUFFY, the President/Secretary/Treasurer, sole Director and sole Shareholder of SQUARE FOOT PROPERTIES, INC., a Florida corporation (the "Corporation"), does hereby certify as follows:

1. I am the duly elected and qualified President/Secretary/Treasurer of SQUARE FOOT PROPERTIES, INC., a Florida corporation (the "Corporation") and the keeper of the records and corporate seal of said Corporation.

2. The Corporation owns fee simple title to real properties located 601 Truman Avenue, Key West, Florida and 919 Simonton Street, Key West, Florida, which properties are more particularly described as follows:

On the Island of Key West and is known as a part of Tract Four according to William A. Whitehead's map of said island, delineated in February, 1829, and is further known as a part of Lot Two in Square Number Seven according to Simonton & Wall's Addition to Key West, recorded in Deed Book "E", Page 245, of the Public Records of Monroe County, Florida, but is now better known and described as part of Lot One of Block One, according to a diagram of Charles R. Pierce's Subdivision of Lots One and Two, Square Seven in said Tract Four, according to C.W. Tift's map dated 1874, which diagram of Charles R. Pierce's is recorded in Plat Book 1 on Page 20, of the Public Records of Monroe County, Florida. Said part of Lot One according to Charles R. Pierce's diagram being described by metes and bounds as follows:

Commencing at the corner of Division and Simonton Streets and running thence in a Northeasterly direction along the Northwesterly side of Division Street Ninety-nine (99) feet and Two (2) inches; thence at right angles in a Northwesterly direction Sixty-seven (67) feet; thence at right angles in a Southwesterly direction Ninety-nine (99) feet and Two (2) inches out to Simonton Street; thence at right angles in a Southeasterly direction along Simonton Street Sixty-seven (67) feet to the Point of Beginning.

AND

On the Island of Key West and is known as a part of Tract Four (4), according to William A. Whitehead's map of said Island delineated in February, 1829, and is further known as a part of Lot Two (2), in Square Seven (7), according to Simonton and Wall's Addition to Key West, recorded in Deed Book "E", Page 245, of the Public Records of Monroe County, Florida, but is now better known and described as part of Lot One (1) and part of Lot Two (2), of Block One (1), according to a diagram of Charles R. Pierce's subdivision of Lots One (1) and

Two (2), Square Seven (7), in said Tract Four (4), according to C.W. Tift's map, dated 1874, which diagram of Charles R. Pierce's subdivision is recorded in Plat Book 1, at Page 20, of the Public Records of Monroe County, Florida.

Commencing at a point on the Northeasterly side of Simonton Street, distant 67 feet Northwesterly from the corner of the intersection of Simonton Street and Truman Avenue (formerly Division Street) and from said point run thence North 38° 30' West 36.25 feet; thence North 51° 30' East 99.165 feet; thence South 38° 30' East 36.25 feet; thence South 51° 30' West 99.2 feet to the Point or Place of Beginning on Simonton Street.

(collectively the "Property")

3. The following is a true and correct copy of resolutions duly adopted at a special meeting of the Board of Directors of SQUARE FOOT PROPERTIES, INC., a Florida corporation held in accordance with its bylaws at its offices located in Key West, Florida, on the _____ day of September, 2020, and the same are now in full force and effect.

COPY OF RESOLUTIONS

RESOLVED that the execution and delivery of that certain Commercial Contract (the "Contract") dated August 10, 2020, for the purchase and sale of the Property, by and between, SQUARE FOOT PROPERTIES, INC., a Florida corporation, as Seller, and MARIUS VENTER, which Contract was assigned to VENTER ENTERPRISES, LLC, a Florida limited liability company, as Buyer, and any and all amendments thereto (the "Contract Documents"), and other documents referred to therein, and/or related thereto are hereby ratified and approved; and

FURTHER RESOLVED that the taking of any and all necessary action to consummate purchase and sale of the Property (the "Purchase and Sale Transaction") and the execution of all documents by LISA J. SMITH-DUFFY, on behalf of the Corporation, to effect said Purchase and Sale Transaction, are hereby ratified and approved; and

FURTHER RESOLVED that, the Purchase and Sale Transaction is a disposition of all or substantially all of the Company's property otherwise than in the usual and regular course of business, requiring approval of all shareholders in accordance with the requirements of Florida Statutes §607.1202; and

4. The following named person has been duly elected to the office of President of SQUARE FOOT PROPERTIES, INC., a Florida corporation, he/she continues to hold this office at the present time, and the signature appearing hereon is the genuine, original signature of said person;

DocuSigned by:
Lisa J. Smith-Duffy
D1F3F0E1BC2B404...

LISA J. SMITH-DUFFY, as President

5. LISA J. SMITH-DUFFY, is duly authorized to enter into the Purchase and Sale Transaction, and is duly authorized to execute any and all documents on behalf of the Corporation, in connection with said transaction.

WHEREOF, I have hereunto affixed my name as President/Secretary/Treasurer of said Corporation, this 30 day of September, 2020.

SQUARE FOOT PROPERTIES, INC., a Florida corporation,

By: _____
LISA J. SMITH-DUFFY, President/Secretary/Treasurer

I / WE HEREBY CERTIFY that I/we are all of the directors of SQUARE FOOT PROPERTIES, INC., a Florida corporation and that the foregoing is a true and correct copy of resolutions passed as therein set forth, and that the same are now in full force and effect, and that the Purchase and Sale Transaction referenced therein is approved.

_____
LISA J. SMITH-DUFFY, sole director of SQUARE FOOT PROPERTIES, INC., a Florida corporation

I / WE HEREBY CERTIFIY that I/we are all of the shareholders of SQUARE FOOT PROPERTIES, INC., a Florida corporation, and that the foregoing is a true and correct copy of resolutions passed as therein set forth, and that the same are now in full force and effect, and that the Purchase and Sale Transaction referenced therein is approved.

_____
LISA J. SMITH-DUFFY, sole shareholder of SQUARE FOOT PROPERTIES, INC., a Florida corporation

Detail by Entity Name

Florida Limited Liability Company
VENTER ENTERPRISES, LLC

Filing Information

Document Number	L20000269804
FEI/EIN Number	NONE
Date Filed	09/08/2020
State	FL
Status	ACTIVE

Principal Address

601 TRUMAN AVENUE
KEY WEST, FL 33040

Mailing Address

608 GRIFFIN LANE
KEY WEST, FL 33040

Registered Agent Name & Address

VENTER, MARIUS L
608 GRIFFIN LANE
KEY WEST, FL 33040

Authorized Person(s) Detail

Name & Address

Title AMBR

VENTER, MARIUS L
608 GRIFFIN LANE
KEY WEST, FL 33040

Annual Reports

No Annual Reports Filed

Document Images

09/08/2020 -- Florida Limited Liability View image in PDF format

City of Key West
Planning Department

Authorization Form
(Where Owner is a Business Entity)

Please complete this form if someone other than the owner is representing the property owner in this matter.

I, Marius Venter as
Please Print Name of person with authority to execute documents on behalf of entity

Manager of Venter Enterprises, LLC
Name of office (President, Managing Member) *Name of owner from deed*

authorize Trepanier and Assocaiates, Inc.
Please Print Name of Representative

to be the representative for this application and act on my/our behalf before the City of Key West.

Signature of person with authority to execute documents on behalf on entity owner

Subscribed and sworn to (or affirmed) before me on this 10/16/2020
Date

by Marius Venter.
Name of person with authority to execute documents on behalf on entity owner

He/She is personally known to me or has presented _____ as identification.

Notary's Signature and Seal

Notary Public State of Florida
Lauren Christine Mongelli
My Commission GG 909917
Expires 07/11/2023

Lauren Mongelli
Name of Acknowledger typed, printed or stamped

Commission Number, if any

City of Key West
Planning Department
Verification Form
(Where Applicant is an entity)

I, Thomas Francis-Siburg, in my capacity as Associate
(print name) *(print position; president, managing member)*

of Trepanier & Associates, Inc.
(print name of entity)

being duly sworn, depose and say that I am the Authorized Representative of the Owner (as appears on the deed), for the following property identified as the subject matter of this application:

601 Truman Ave & 919 Simonton Street
Street address of subject property

I, the undersigned, declare under penalty of perjury under the laws of the State of Florida that I am the Authorized Representative of the property involved in this application; that the information on all plans, drawings and sketches attached hereto and all the statements and answers contained herein are in all respects true and correct.

In the event the City or the Planning Department relies on any representation herein which proves to be untrue or incorrect, any action or approval based on said representation shall be subject to revocation.

Signature of Applicant

Subscribed and sworn to (or affirmed) before me on this 3-27-2021 by
date

Thomas Francis-siburg.
Name of Applicant

He/She is personally known to me or has presented _____ as identification.

Richard Puente
Notary's Signature and Seal

RICHARD PUENTE
Notary Public – State of Florida
Commission # GG 168119
My Comm. Expires Mar 2, 2022
Bonded through National Notary Assn.

Richard Puente
Name of Acknowledger typed, printed or stamped

GG 168119
Commission Number, if any

THE CITY OF KEY WEST
Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3700

August 27, 2013

Mr. Gregory Oropeza
Smith / Oropeza, P.L.
138-142 Simonton Street
Key West, FL 33040

Subject: Moped Hospital – Grandfathering

Dear Greg:

Yes, as we discussed this afternoon, Moped Hospital is grandfathered from the recently passed ordinance on recreational vehicle rentals, in that the business may have up to 177 moped, 50 electric car and 150 bicycle licenses, even though not all are presently utilized. This operations will be subject to registration, reporting and decal provisions.

Very truly yours,

Donald Leland Craig

Cc: Larry Erskine, ESQ.

CITY OF KEY WEST, FLORIDA

Business Tax Receipt

This Document is a business tax receipt
Holder must meet all City zoning and use provisions.
P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name	MINTY'S GOLF CART AND SCOOTER RENTALS		
Location Addr	601 TRUMAN AVE		
Lic NBR/Class	LIC2020-000666	TRANSPORTATION SERVICES	
Issued Date	11/17/2020	**Expiration Date:**	**September 30, 2021**

SCOOTERS JET SKIS AND OTHER MOTOR DRIVEN VEHICLE RENTALS

Comments: AUTHORIZED FOR 177 MOPEDS / 50 E-CARS

Restrictions:

MINTY'S GOLF CART AND SCOOTER RENTALS
601 TRUMAN AVE

KEY WEST, FL 33040

This document must be prominently displayed.

MINTY'S LLC

CITY OF KEY WEST, FLORIDA

Business Tax Receipt

This Document is a business tax receipt
Holder must meet all City zoning and use provisions.
P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name	MINTY'S GOLF CART & SCOOTER RENTALS		
Location Addr	601 TRUMAN AVE		
Lic NBR/Class	LIC2020-000667	TRANSPORTATION SERVICES	
Issued Date	9/30/2020	**Expiration Date:**	**September 30, 2021**

BICYCLES EQUIPMENT AND OTHER NON MOTOR DRIVEN RENTALS

Comments: AUTHORIZED FOR 150 BICYCLE RENTALS

Restrictions:

MINTY'S GOLF CART & SCOOTER RENTALS
601 TRUMAN AVE

KEY WEST, FL 33040

This document must be prominently displayed.

MINTY'S LLC

CITY OF KEY WEST, FLORIDA

Business Tax Receipt

This Document is a business tax receipt
Holder must meet all City zoning and use provisions.
P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name	MINTY'S GOLF CART & SCOOTER RENTALS		
Location Addr	601 TRUMAN AVE		
Lic NBR/Class	LIC2020-000668	RETAIL WHOLESALE OR MAIL ORDER	
Issued Date	11/17/2020	**Expiration Date:**	**September 30, 2021**

RETAIL ESTABLISHMENT 0 TO 500 SQ FT

Comments: RETAIL MOPEDS

Restrictions:

MINTY'S GOLF CART & SCOOTER RENTALS
601 TRUMAN AVE

KEY WEST, FL 33040

This document must be prominently displayed.

MINTY'S LLC

CITY OF KEY WEST, FLORIDA

Business Tax Receipt

This Document is a business tax receipt
Holder must meet all City zoning and use provisions.
P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name	LLOYD'S TROPICAL BIKE TOUR		
Location Addr	601 TRUMAN AVE		
Lic NBR/Class	2223	MISCELLANEOUS OTHER SERVICES	
Issued Date	7/6/2020	**Expiration Date:**	**September 30, 2021**

MISCELLANEOUS OTHER SERVICE

Comments: BIKE TOUR

Restrictions:

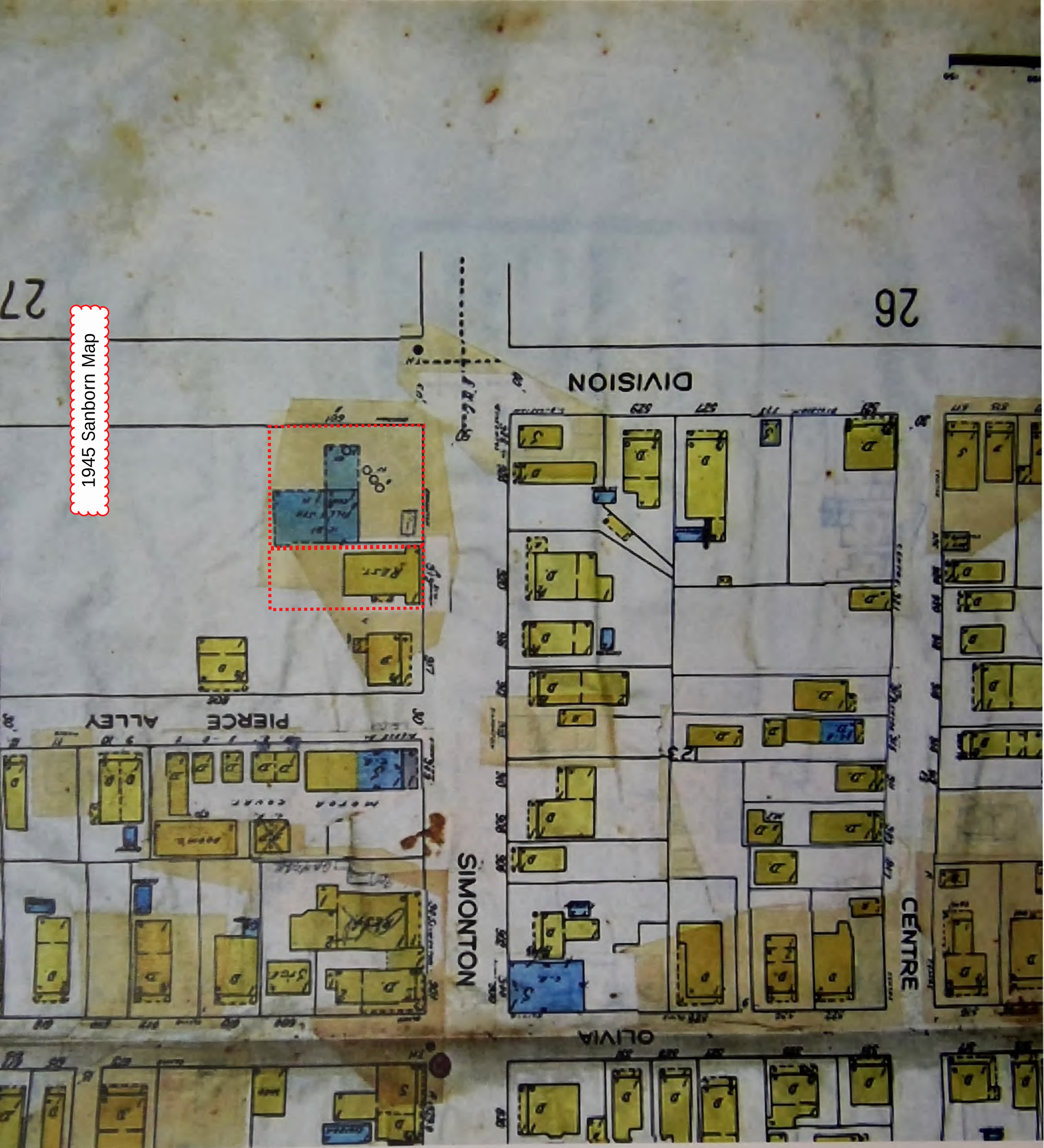
LLOYD'S TROPICAL BIKE TOUR
110 C PEARY COURT

KEY WEST, FL 33040

This document must be prominently displayed.

MAGER, S LLOYD

1945 Sanborn Map



601 Truman (1965)

ABBREVIATIONS:

A	= ARC
A/C	= AIR CONDITIONER
BLDG.	= BUILDING
CB	= CATCH BASIN
CBS	= CONCRETE, BLOCK, STUCCO
CH	= CHORD
CH BR	= CHORD BEARING.
C & G	= CURB AND GUTTER.
CLF	= CHAIN LINK FENCE
CLR	= CLEAR
CONC	= CONCRETE
CP	= CONCRETE POST
D°	= DEGREE
D	= DELTA
DIP	= DUCTILE IRON PIPE
E	= EAST
EB	= ENGINEERING BUSINESS NUMBER
ELEV	= ELEVATION
ELECT	= ELECTRIC
ENC	= ENCROACHMENT
EP	= EDGE OF PAVEMENT
FIP	= FOUND IRON PIPE
FPL	= FLORIDA POWER AND LIGHT
FND	= FOUND
I.P.	= IRON PIPE.
L	= LENGTH
LB	= SURVEYOR BUSINESS NUMBER
M & R	= MEASURED AND RECORD
MEAS	= MEASURED
MH	= MANHOLE
N	= NORTH
NO.	= NUMBER
N & DISC	= NAIL AND DISC
NO ID.	= NO IDENTIFICATION NUMBER
N.T.S.	= NOT TO SCALE
OBV	= OBSERVED ANGLE
O/E	= OVERHEAD ELECTRIC
O/E	= OVERHEAD ELECTRIC
ORB	= OFFICIAL RECORDS BOOK
O'	= MINUTE OR FEET
O"	= SECOND OR INCH
P	= PLAT
PAV	= PAVEMENT
PB	= PLAT BOOK
PCC	= POINT OF COMPOUND CURVATURE
PC	= POINT OF CURVATURE
PG	= PAGE
PL	= PLANTER
PLS	= PROFESSIONAL LAND SURVEYOR
PI	= POINT OF INTERSECTION
POB	= POINT OF BEGINNING
POC	= POINT OF COMMENCE
PT	= POINT OF TERMINATION
PRC	= POINT OF REVERSE CURVATURE
PSM	= PROFESSIONAL SURVEYOR AND MAPPER
R	= RADIUS OR RECORD
REG	= REGULAR
RNG	= RANGE
RLS	= REGISTERED LAND SURVEYOR
R/W	= RIGHT OF WAY
S	= SOUTH
SEC	= SECTION
STA	= STATION
SWK	= SIDEWALK
T	= TANGENT
SS	= SANITARY SEWER
TWP	= TOWNSHIP
W	= WEST
W	= WITH
WF	= WOOD FENCE
WM	= WATER METER
WV	= WATER VALVE
ZW	= ZURWELLE-WHITTAKER,INC

FLOOD INFORMATION:

COMMUNITY NUMBER	: 120168
PANEL NUMBER	: 12087C1516
SUFFIX	: K
DATE OF FIRM	: 02-18-2005
FIRM ZONE	: X
BASE FLOOD ELEVATION	: N/A

FIELD WORK INFORMATION:

DATE FIELD WORK	: 03-17-2020
DATE DRAFTING	: 03-23-2020
DATE SIGNED AND SEALED	: 03-24-2020
REVISED FIELD SURVEY	: N/A

SYMBOL LEGEND:

- LIGHT POLE
- CONC. POLE
- ELECTRIC BOX
- TRAFFIC SIGNAL BOX
- FIRE HYDRANT
- STORM SEWER/CATCH BASIN
- WATER METER
- SIGN
- TELEPHONE BOX
- WATER VALVE
- EL-7.05 ELEVATIONS
- TRAFFIC LANE FLOW
- CENTER LINE
- MONUMENT LINE
- DIAMETER.

SURVEYOR'S NOTES:

1. EXAMINATION OF THE ABSTRACT OF THE TITLE WILL HAVE TO BE MADE TO DETERMINE RECORD INSTRUMENTS IF ANY, AFFECTING THE PROPERTY.
2. LOCATION AND IDENTIFICATION OF UNDERGROUND ENCROACHMENTS OR UTILITIES ON AND/OR ADJACENT TO THE PROPERTY WERE NOT SECURED AS SUCH INFORMATION WAS NOT REQUESTED
3. NO SEARCH OF PUBLIC RECORDS HAS BEEN MADE (BY THIS OFFICE) FOR ACCURACY AND OR OMISSIONS.
4. THIS CERTIFICATION IS ONLY FOR THE LANDS AS DESCRIBED, IT IS NOT A CERTIFICATION OF TITLE, ZONING, EASEMENTS, OR FREEDOM FROM ENCUMBRANCES, "TITLE" ABSTRACT NOT REVIEWED.
5. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.
6. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF ENTITIES NAMED HEREON AND THE CERTIFICATION DOES NOT EXTEND TO ANY UNNAMED PARTY.
7. DIMENSIONS, BEARINGS OR ANGLES INDICATED HEREIN ARE MEASURED AND ARE THE SAME AS PLAT VALUES UNLESS OTHERWISE INDICATED BEARINGS ARE BASED ON SHOWN PLAT VALUES (IF ANY) OR AN ASSUMED VALUE.
8. ALL RIGHTS OF WAYS SHOWN ARE PUBLIC UNLESS OTHERWISE NOTED
9. UTILITY FACILITIES WITHIN UTILITY EASEMENTS NOT NOTED AS VIOLATIONS, DRIVEWAYS OR PORTIONS THEREOF WITHIN ROADWAYS NOT NOTED AS VIOLATIONS OR ENCROACHMENTS.
10. THE LEGAL DESCRIPTION WAS FURNISHED BY THE CLIENT
11. THIS DRAWING IS PROPERTY OF ZURWELLE-WHITTAKER, INC AND CANNOT BE REPRODUCED WITHOUT WRITTEN CONSENT
12. THE ELEVATION INFORMATION SHOWN HEREON (IF ANY) IS RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM, (N.G.V.D.), OF 1929 UNLESS OTHER WISE NOTED
13. BENCHMARK USED: NGS BENCHMARK & FPRN (SEE BENCHMARK INFO.)
14. COORDINATES SHOWN ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1983/90 AS BASED ON THE STATE OF FLORIDA'S D.O.T. FLORIDA PERMANENT REFERENCE NETWORK (F.P.R.N.) A GPS/GNSS REFERENCE NETWORK. BASE STATION USED: FLKW (KEY WEST STATION)
15. COORDINATE CONVERSIONS (IF ANY) HAVE BEEN CONVERTED USING CORPSCON VERSION 6.6.1, FROM U.S. ARMY CORPS OF ENGINEERS. ALEXANDRIA,VIRGINA.
16. UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER, THIS DRAWING SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
17. ACCURACY OF HORIZONTAL CONTROL:(FOR EXPECTED USE OF LAND AS DEFINED BY (5J-17)) THE FIELD MEASUREMENTS VERIFIED BY CALCULATIONS OF A CLOSED GEOMETRIC FIGURE BASED UPON FIELD INFORMATION TAKEN IN THE FIELD BY TOTAL STATION AND OR GPS.

_X_ COMMERCIAL/HIGH RISK	LINEAR: 1 FOOT IN 10,000 FEET
___ SUBURBAN	LINEAR: 1 FOOT IN 7,500 FEET
___ RURAL	LINEAR: 1 FOOT IN 5,000 FEET

LOCATION MAP (N.T.S.)

LOCATION MAP

BENCHMARK INFORMATION:

National Geodetic Survey, Retrieval Date = MARCH 24, 2020

AA0019 DESIGNATION - V 267
AA0019 STATE/COUNTY- FL/MONROE
AA0019 COUNTRY - US
AA0019 USGS QUAD - KEY WEST (2018)
AA0019* NAD 83(1986) POSITION- 24 33 12.00 (N) 081 47 43.41 (W)
AA0019* NAVD 88 ORTHO HEIGHT - 1.789 (meters) 5.87 (feet) ADJUSTED
AA0019 GEOID HEIGHT - -21.764 (meters) GEOID18
AA0019 DYNAMIC HEIGHT - 1.786 (meters) 5.86 (feet) COMP
AA0019 MODELED GRAVITY - 978,953.7 (mgal) NAVD 88
AA0019 VERT ORDER - FIRST CLASS II
AA0019.The orthometric height was determined by differential leveling and
AA0019.adjusted by the NATIONAL GEODETIC SURVEY
AA0019 SUPERSEDED SURVEY CONTROL
AA0019 NGVD 29 (??/??/92) 2.199 (m) 7.21 (f) SUPERSEDED 1 2
AA0019 NGVD 29 (09/01/92) 2.199 (m) 7.21 (f) ADJUSTED 1 2
AA0019_MARKER: DB = BENCH MARK DISK
AA0019_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)
AA0019_STAMPING: V 267 1966

SURVEYORS NOTE:
THIS IS SHEET 1 OF 2. FOR GRAPHIC MAP SEE PAGE 2 OF 2. NOT VALID OR COMPLETE WITHOUT ACCOMPANYING PAGE 2 OF 2.
SHEET SIZE 13"X19"

LEGAL DESCRIPTION:

On the Island of Key West and is known as a part of Tract Four according to William A. Whitehead's map of said Island, delineated in February, 1829, and is further known as a part of Lot Two in Square Number Seven according to Simonton & Wall's addition to Key West, recorded in Deed Book "E", Page 245, of the Public Records of Monroe County, Florida, but is now better known and described as part of Lot One of Block One, according to a diagram of Charles R. Pierce's subdivision of Lots One and Two, Square Seven in said Tract Four, according to C.W. Tift's map dated 1874, which diagram of Charles R. Pierce's is recorded in Plat Book 1 on Page 20, of the Public Records of Monroe County, Florida. Said part of Lots One according to Charles R. Pierce's diagram being described by metes and bounds as follows:

Cmmencing at the corner of Division and Simonton Streets and running thence in a Northeasterly direction along the Northwesterly side of Division Street Ninety-nine (99) feet and two (2) inches; thence at right angles in a Northwesterly direction Sixty-seven (67) feet; thence at right angles in a Southwesterly direction Ninety-nine (99) feet and two (2) inches out to Simonton Street; thence at right angles in a Southeasterly direction along Simonton Street Sixty-seven (67) feet to the point of beginning. Being the same property conveyed to Gulf Refining Company, a corporation chartered and existiong under the laws of the State of Texas, by Dr. J.M. Renedo and Nieves Marias Renedo, his wife and Ygnacio Cobo and Amparo Cobo, his wife, by deed dated February 9, 1929 and recorded in the Office of the Clerk of the Citcuit Court of Monroe County, Florida on 2/19/29 in Book G-2, Pages 177 to 180, inclusive.

AND ALSO property described as follows:

On the Island of Key West and is known as a part of Tract Four (4), according to William A. Whitehead's map of said Island delineated in February, 1829, and is further known as a part of Lot Two (2), in Square Seven (7), according to Simonton and Wall's Addition to Key West. recorded in Deed Book "E", Page 245, of the Public Records of Monroe County, Florida, but is now better known and described as part of Lot One (1) and part of Lot Two (2), of Block One (1), according to a diagram of Charles R. Pierce's subdivision of Lots One (1) and Two (2). Square Seven (7), in said Tract Four (4), according to C.W. Tift's map, dated 1874, which diagram of Charles R. Pierce's subdivision is recorded in Plat Book 1, at Page 20, of the Public Records of Monroe County, Florida.

Commencing at a point on the Northeasterly side of Simonton Street, distant 67 feet Northwesterly from the corner of the intersection of Simonton Street and Truman Avenue (formerly Division Street), and from said point run thence N 38°30' W 36.25 feet; thence N 51°30' E 99.165 feet; thence S 38°30' E 36.25 feet; thence S 51°30' W 99.2 feet to the point or place of beginning on Simonton Street. Being the same property conveyed to Gulf Oil Corporation, a corporation existing under the laws of Pennsylvania, by Celio Diaz and Angelina Diaz, his wife, by Warranty Deed dated December 28, 1956 and recorded in the Public Records of Monroe County, Florida in Official Records Book 84, Pages 460 to 462, inclusive.

ZURWELLE - WHITTAKER
SURVEYORS & ENGINEERS SINCE 1926

MONROE COUNTY SURVEYING & MAPPING,INC
SURVEYORS & MAPPERS, CIVIL ENGINEERS
A DIVISION OF ZURWELLE-WHITTAKER, INC (ESTAB. 1926)
1100 TRUMAN AVENUE, KEY WEST, FL 33040 CERTIFICATE OF AUTHORIZATION NO. LB8236
PH: (305) 534-4668 OR (305) 293-0466 FAX (305) 531-4589 WWW.MCSMCO.COM
MEMBER: FLORIDA LAND SURVEYOR'S COUNCIL, FLORIDA SURVEYING AND MAPPING SOCIETY

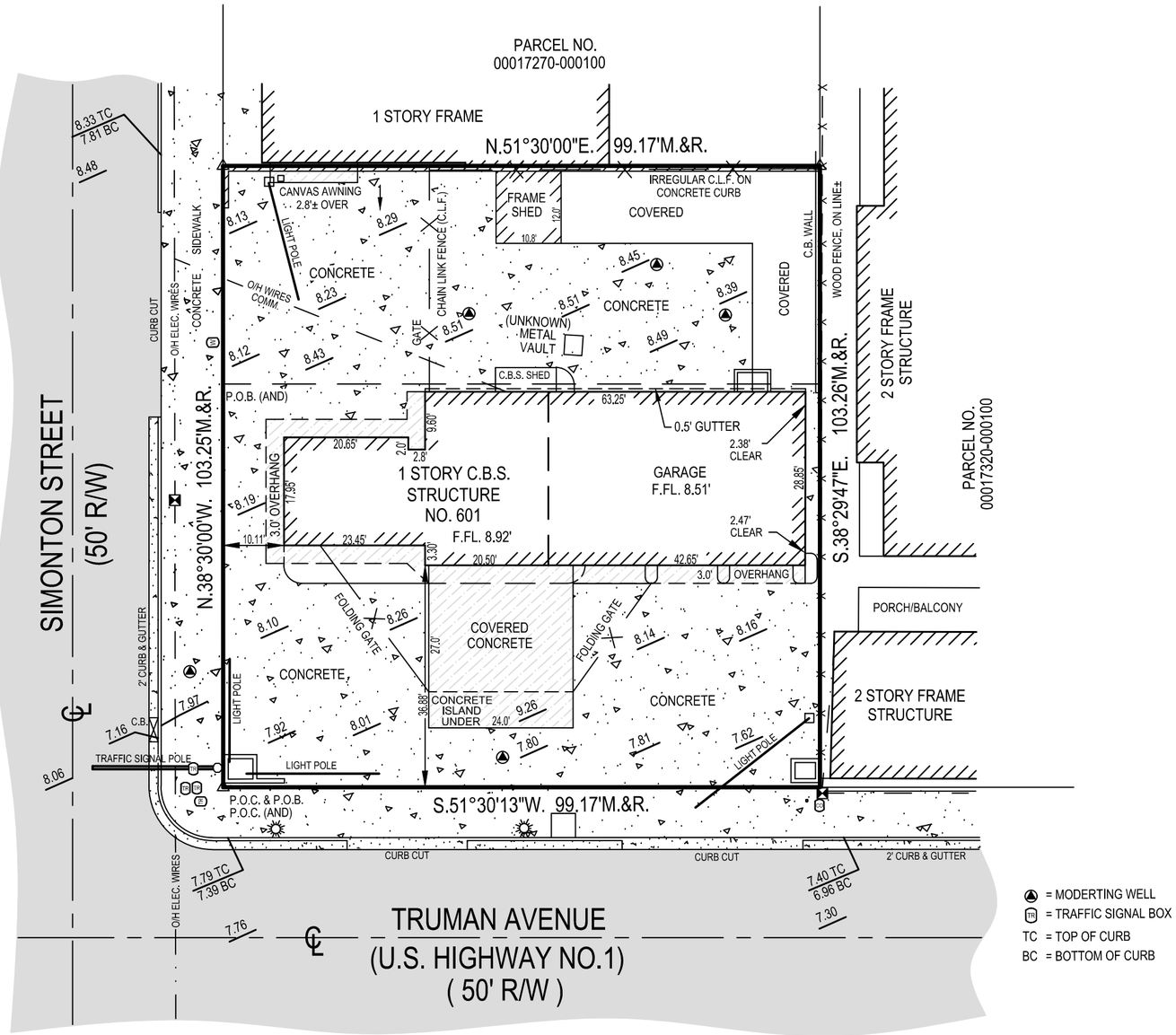
SQUARE FOOT PROPERTIES, INC.
601 TRUMAN AVENUE
KEY WEST, FL 33040

JOB No. N/A	DRAWN: DRF	REVISIONS	
FIELD BOOK: N/A	REVISED: EAM		
SCALE: 1"=20'	SHEET No. 1 OF 2		

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THE ATTACHED "BOUNDARY SURVEY" WAS PREPARED UNDER MY DIRECTION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THE SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027.

CAD FILE: \\Fred\Island Surveying Data\Data MCSM\Drawings\Key West\Block 74\601 TRUMAN 3-17-20\601 TRUMAN CLEAN.dwg



= MODERTING WELL
= TRAFFIC SIGNAL BOX
TC = TOP OF CURB
BC = BOTTOM OF CURB

SURVEYORS NOTE:
THIS IS SHEET 2 OF 2, FOR LEGAL DESCRIPTION NOTES, ABBREVIATIONS, LOCATION MAP AND ETCETERA PLEASE SEE SHEET 1 OF 2
SHEET SIZE 13"X19"

ZURWELLE - WHITTAKER
SURVEYORS & ENGINEERS SINCE 1926

MONROE COUNTY SURVEYING & MAPPING,INC
SURVEYORS & MAPPERS, CIVIL ENGINEERS
A DIVISION OF ZURWELLE-WHITTAKER, INC (ESTAB. 1926)
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PH: (305) 534-4668 OR (305) 293-0466 FAX (305) 531-4589 WWW.MCSMCO.COM
MEMBER: FLORIDA LAND SURVEYOR'S COUNCIL, FLORIDA SURVEYING AND MAPPING SOCIETY

SQUARE FOOT PROPERTIES, INC.
601 TRUMAN AVENUE
KEY WEST, FL 33040

JOB No. N/A	DRAWN: DRF	DATE: 03-24-2020	
FIELD BOOK: N/A	REVISED: EAM		
SCALE: 1"=20'	SHEET No. 2 OF 2		

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THE ATTACHED "BOUNDARY SURVEY" WAS PREPARED UNDER MY DIRECTION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THE SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027. ALSO THAT THERE ARE NO VISIBLE ENCROACHMENTS OTHER THAT SHOWN HEREON.

CAD FILE: \\Fred\Island Surveying Data\Data MCSM\Drawings\Key West\Block 74\601 TRUMAN 3-17-20\601 TRUMAN CLEAN.dwg

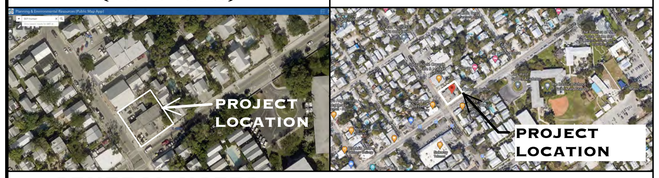
Site Plans

SITE DATA — 601 TRUMAN AVE.

ITEM	EXISTING	REQ. PER LDR	PROPOSED PHASE-I	PROPOSED PHASE-I	COMPLIANCE
DISTRICT	HNC-1	HNC-1	HNC-1	HNC-1	COMPLIES
SITE AREA	10,241 SQ. FT.	4,000 SQ. FT.	EXISTING	EXISTING	COMPLIES
LOT SIZE	SEE SURVEY 99.17' x 103.25'	40' X 100' (MIN)	EXISTING	EXISTING	COMPLIES
IMPERVIOUS	10,241 SQ. FT. 100%	6,144 SQ FT (60% MAX)			VARIANCE EXISTING NONCONFORMITY
OPEN SPACE	0 SQ. FT.	3,584 SQ FT (35% MIN)			WAIVER EXISTING NONCONFORMITY
BUILDING COV.	4,308 SQ. FT. 42%	5,120 SQ FT (50% MAX)	4,260 SQ FT (42%)	5,120 SQ FT (50%)	COMPLIES
MAXIMUM DENSITY: 16 DWELLING UNITS PER ACRE (16 DU/ACRE)	0 DU / ACRE	16 DU / ACRE (3.8 DU) +1 DU BONUS(601 TRUMAN) +1 DU BONUS (919 SIMONTON) = 5.8 DU	0 DU	5 AFF. DU	COMPLIES
MAXIMUM FLOOR AREA RATIO: 1.0.	4,308 SQ. FT. 0.4	10,241 SQ. FT. 1.0	4,260 SQ. FT. 0.4	4,322 SQ. FT. 0.4	COMPLIES
SETBACKS					
FRONT SETBACK TRUMAN AVE.	10'-1"	5' TRUMAN	5'	5'	COMPLIES
SIDE SETBACK	0'-0"	5'	0'-0"	2'-2"	VARIANCE EXISTING NONCONFORMITY
STREET SIDE SETBACK SIMONTON STREET	7'-2 1/2"	7.5' SIMONTON	7'-2 1/2"	7'-2 1/2"	VARIANCE EXISTING NONCONFORMITY
REAR SETBACK	0'-0"	15'	0'-0"	5'-2"	VARIANCE
BUILDING HEIGHT	16'-0" EXISTING	35'	16'-0"	23'-6 1/2"	COMPLIES

FEMA MAP FLOOD ZONE X, (NGVD 1929)

SITE LOCATION MAP



GENERAL NOTES:

1. DO NOT SCALE ANY DRAWING.
2. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. LARGER SCALE DETAILS HAVE PRECEDENCE OVER SMALLER SCALE DETAILS. ANY DISCREPANCIES ARE TO REPORTED TO ARCHITECT PRIOR TO CONSTRUCTION.
3. CONSULT THE ARCHITECT IN THE EVENT ANY ITEM OF WORK NECESSARY FOR THE PROPER COMPLETION OF THE PROJECT IS NOT SPECIFICALLY COVERED IN THE DRAWINGS.
4. ALL WORK SHALL BE OF SUPERIOR QUALITY PERFORMED IN A MANNER CONSISTENT WITH INDUSTRY STANDARDS, ALL BUILDING CODE REQUIREMENTS AND IN A PROFESSIONAL MANNER BY MECHANICS SKILLED AND LICENSED IN THEIR RESPECTIVE TRADES.
5. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, ERECTED AND CONNECTED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
6. ANY DISCREPANCIES BETWEEN DRAWINGS, LOCAL CODES, BUILDING INSPECTOR REQUIREMENTS AND/OR EXISTING CONDITIONS SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION. ALL DIMENSIONS AND CONDITIONS OF EACH TRADE ARE TO BE VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION OR THE WORK OF EACH SPECIFIC TRADE.
7. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF MUNICIPAL, LOCAL, FEDERAL AND STATE LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, AND CONVENTIONAL GUIDELINES, WHETHER OR NOT SPECIFIED ON THE DRAWINGS.
8. ALL DAMAGED AND DEFECTIVE MATERIAL AND WORKMANSHIP IN CONNECTION WITH THE WORK SHALL BE REMOVED, REPLACED, AND RECTIFIED.
9. ALL LEGALLY REQUIRED APPROVALS AND PERMITS NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK SHALL BE OBTAINED.
10. ALL TIE-INS AND UTILITY SERVICES ARE TO BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
11. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED PRIOR TO THE COMPLETION OF THE PROJECT.
12. ALL EXISTING TREES, SHRUBS, VEGETATION, AND LANDSCAPE ELEMENTS OR FEATURES ADJACENT TO AND IN THE VICINITY OF THE BUILDING AND STAGING AREAS SHALL BE PROTECTED DURING THE ENTIRE PERIOD OF CONSTRUCTION.

13. ANY REVISIONS MUST BE APPROVED BY: ARCHITECT PRIOR TO TO CONSTRUCTION.

14. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND ENGINEER. DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE FOR USE ON THIS PROJECT ONLY AND USE OR REPRODUCTION OF A PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S AND ENGINEER'S WRITTEN PERMISSION THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SEALED AND SIGNED BY THE ARCHITECT/ENGINEER.

A RENOVATION & DEVELOPMENT PLAN FOR

601 TRUMAN

KEY WEST , FL 33040

DESIGN NOTES:

COMMENTS:

DRAWING SCHEDULE:

ABBREVIATION LEGEND:

ADJ.	= ADJUSTABLE
ADJA.	= ADJACENT
ALUM.	= ALUMINUM
ARCH.	= ARCHITECTURAL
BALC.	= BALCONY
BD.	= BOARD
C.I.P.	= CAST IN PLACE
C.J.	= CONTROL JOINT
CL.	= CLOSET
CONC.	= CONCRETE
D	= DRYER
DIM.	= DIMENSION
DN.	= DOWN
DW	= DISHWASHER
DWG	= DRAWING
ELECT.	= ELECTRICAL
ELEV.	= ELEVATOR
E.P.	= ELECTRICAL PANEL
EQ.	= EQUAL
EX.	= EXISTING
E.J.	= EXPANSION JOINT
FREZ.	= FREEZER
GYP. BD.	= GYPSUM WALL BOARD
HORZ.	= HORIZONTAL
HR.	= HOUR
MAX.	= MAXIMUM
MECH.	= MECHANICAL
MIC.	= MICROWAVE OVEN
MIN.	= MINIMUM
M.R.	= MOISTURE RESISTANT
N.A.	= NOT APPLICABLE
N.I.C.	= NOT IN CONTRACT
O.H.	= OPPOSITE HAND
PT.	= PAINTED
P.T.	= PRESSURE TREATED
R.A.	= RETURN AIR
REF.	= REFERENCE
REFR.	= REFRIGERATOR
REQ.	= REQUIRED
SCHED.	= SCHEDULE
S.F.	= SQUARE FOOT
SIM.	= SIMILAR
STOR.	= STORAGE
STRUCT.	= STRUCTURAL
SQ.	= SQUARE
TL.	= TILE
TRDS.	= TREADS
TYP.	= TYPICAL
U.C.	= UNDER COUNTER
U.N.O.	= UNLESS NOTED OTHERWISE
VERT.	= VERTICAL
V.I.F.	= VERIFY IN FIELD
W	= WASHER
W/	= WITH
WD.	= WOOD
W.H.	= WATER HEATER

SCOPE OF WORK:

PHASE I - RENOVATION TO EXISTING HISTORIC STRUCTURE & EXISTING SITE.

PHASE II - NEW GOLF CART & SCOOTER STORAGE BUILDING WITH (4) RESIDENTIAL UNITS, ABOVE.

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA — TIMOTHY SETH NEAL — AR97505 — REGISTERED ARCHITECT — 2-7-2022

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE: **TITLE & PROJECT INFORMATION**

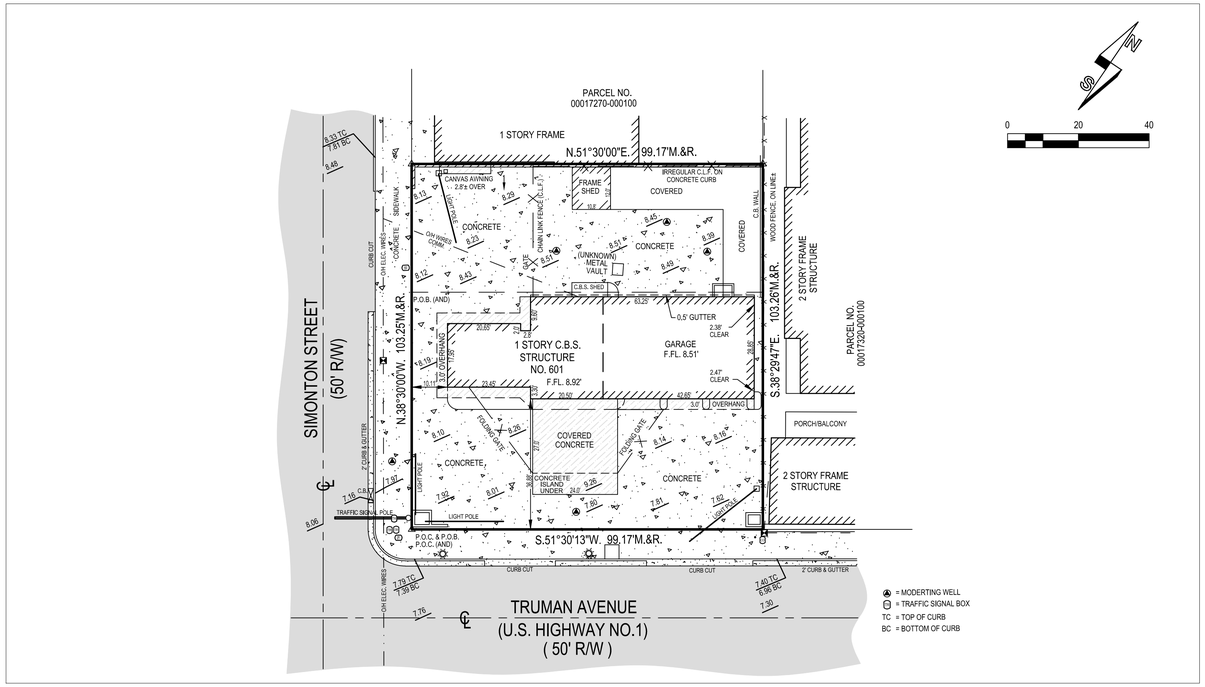
DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

T1.1
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC.

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505



SURVEYORS NOTE:
THIS IS SHEET 2 OF 2, FOR LEGAL DESCRIPTION NOTES, ABBREVIATIONS, LOCATION MAP AND ETCETERA PLEASE SEE SHEET 1 OF 2
SHEET SIZE 13"X19"

ZURWELLE-WHITTAKER
SURVEYORS & ENGINEERS SINCE 1926

MONROE COUNTY SURVEYING & MAPPING,INC
SURVEYORS & MAPPERS, CIVIL ENGINEERS
A DIVISION OF ZURWELLE-WHITTAKER, INC (ESTAB. 1926)
1100 TRUMAN AVENUE, KEY WEST, FL 33040 CERTIFICATE OF AUTHORIZATION NO. LB8230
PH: (305) 534-4668 OR (305) 293-0466 FAX (305) 531-4589 WWW.MCSMCO.COM
MEMBER: FLORIDA LAND SURVEYOR'S COUNCIL, FLORIDA SURVEYING AND MAPPING SOCIETY

SQUARE FOOT PROPERTIES, INC.
601 TRUMAN AVENUE
KEY WEST, FL 33040

JOB No: N/A
DRAWN: DRF
FIELD BOOK: N/A
REVISED: EAM
SCALE: 1"=20'
SHEET No: 1 OF 2
DATE: 03-24-2020

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THE ATTACHED "BOUNDARY SURVEY" WAS PREPARED UNDER MY DIRECTION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THE SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027. ALSO THAT THERE ARE NO VISIBLE ENCROACHMENTS OTHER THAT SHOWN HEREON.

CAD FILE:
L:\Field Data\ Surveying Data\Jobs MCSM\Drawings\Key West\Block 31\601 TRUMAN 3-11-20\601 TRUMAN CLEAN.dwg

SURVEY PROVIDED BY OWNER

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

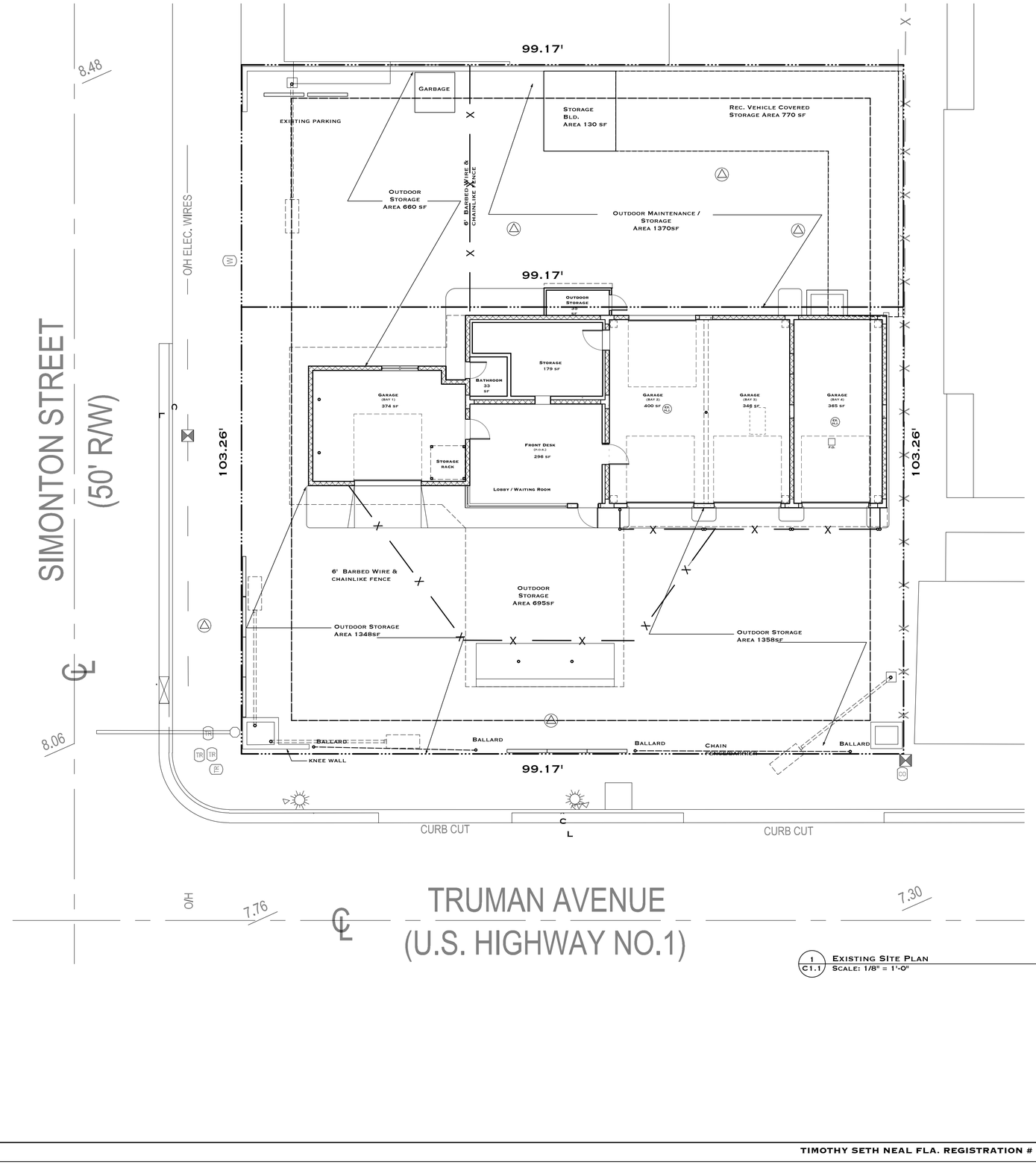
DRAWING TITLE:
SURVEY & FEC

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

C1.0
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC.



1 / C1.1 EXISTING SITE PLAN
SCALE: 1/8" = 1'-0"

T.S. NEAL
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STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
EXISTING SITE PLAN

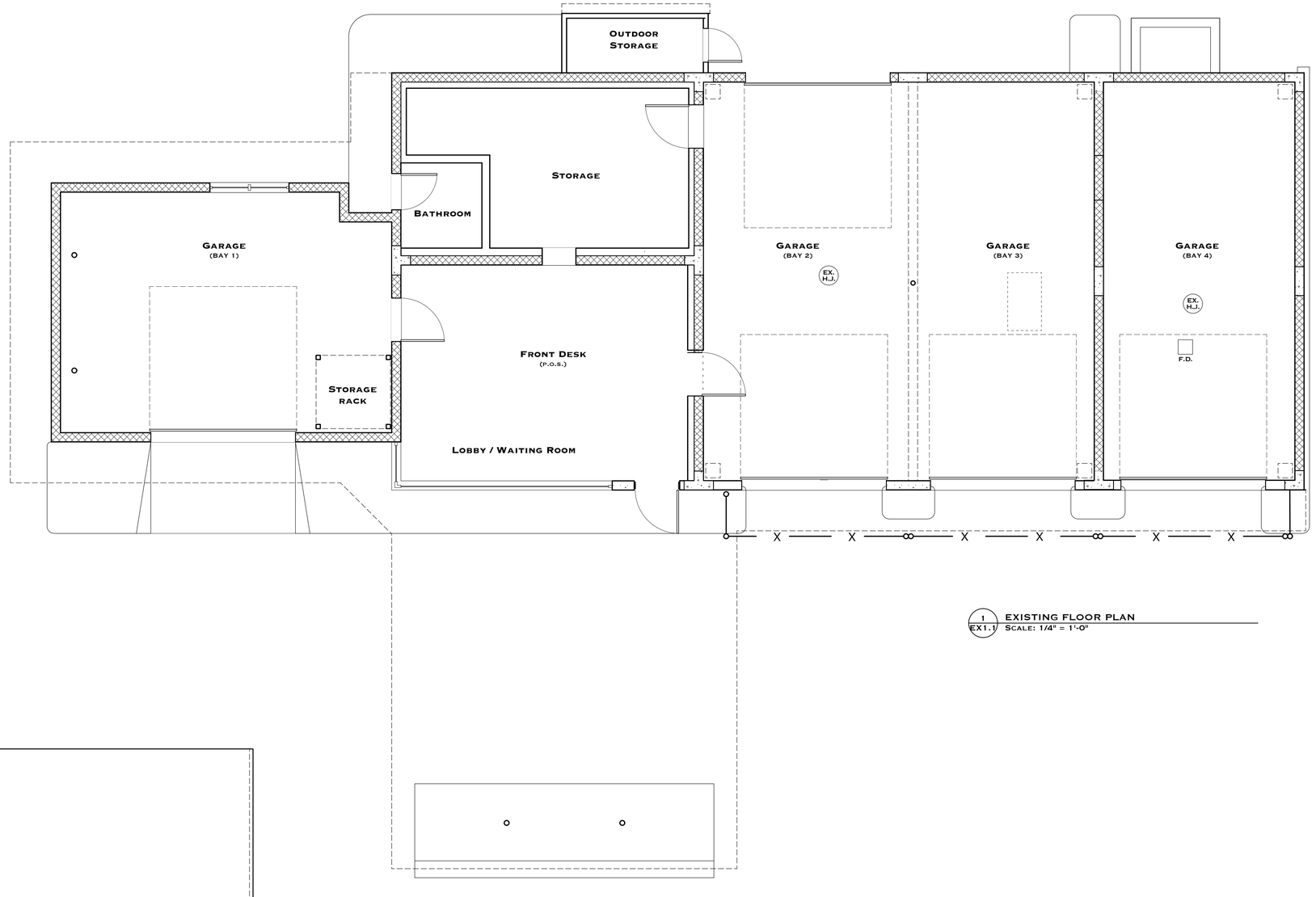
DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

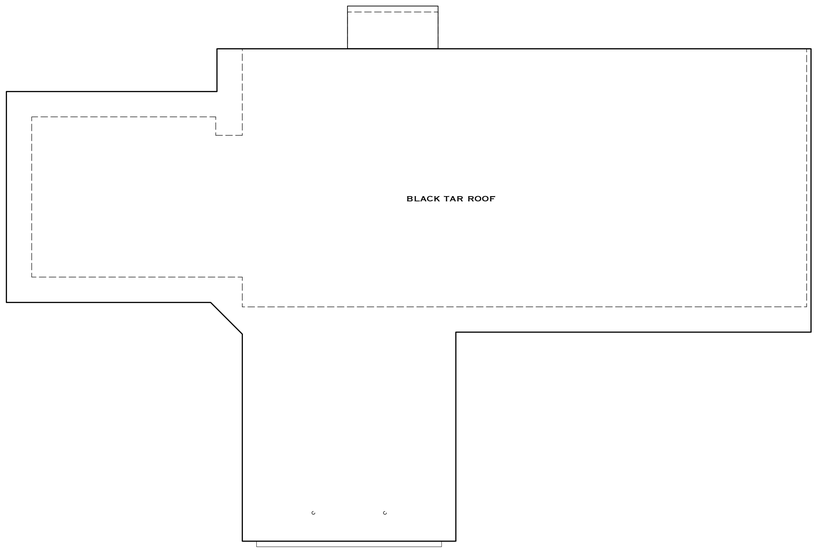
C1.1
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC.

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505



1 EX1.1 EXISTING FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 EX1.1 EXISTING ROOF PLAN
SCALE: 1/8" = 1'-0"

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STATE OF FLORIDA
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CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
EXISTING 1ST FLOOR PLAN &
ROOF PLAN

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

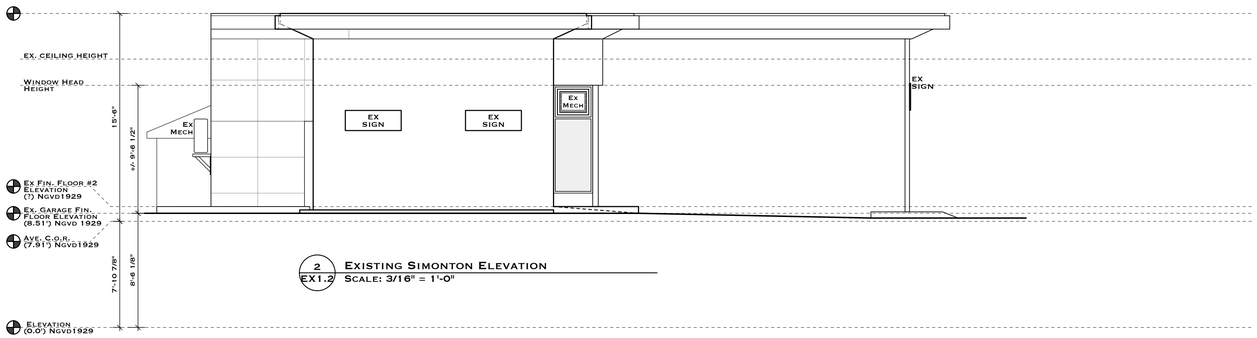
REVISION #	DATE

EX1.1
SHEET #

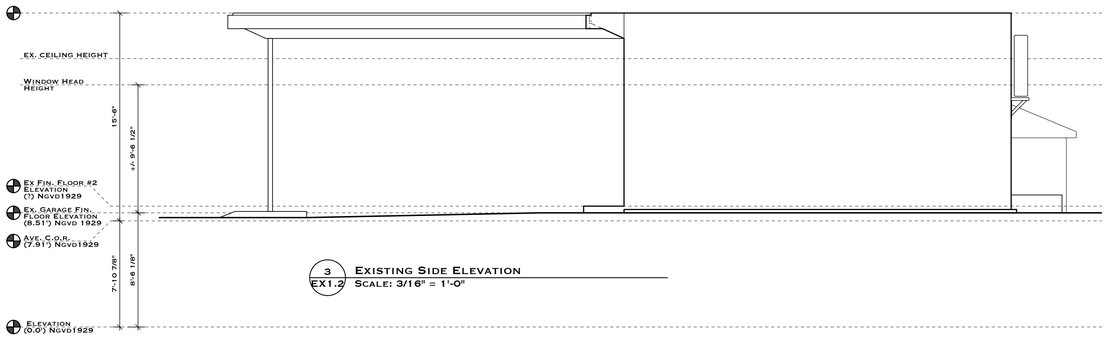
TSN
T. S. NEAL ARCHITECTS, INC.

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505

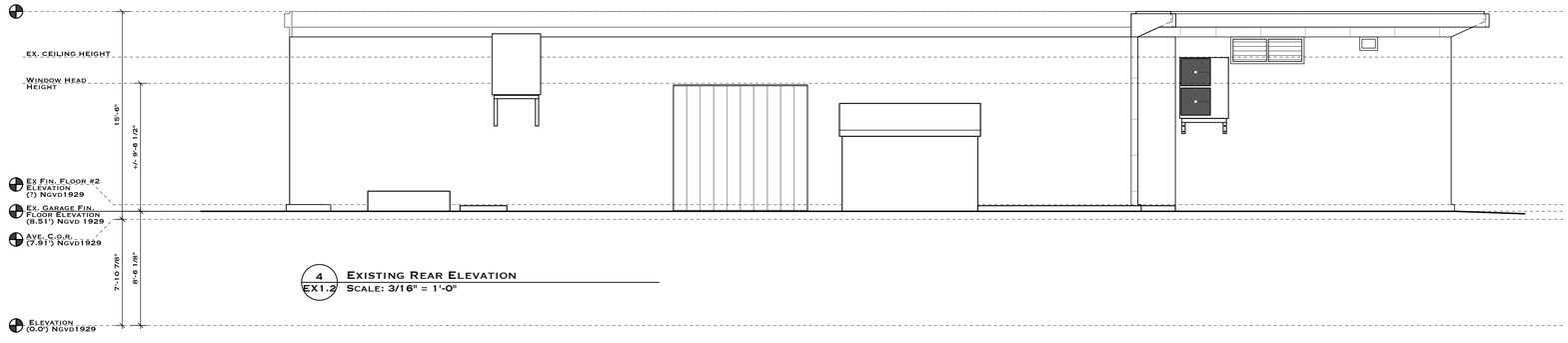
1 EX1.2 **EXISTING TRUMAN ELEVATION**
SCALE: 3/16" = 1'-0"



2 EX1.2 **EXISTING SIMONTON ELEVATION**
SCALE: 3/16" = 1'-0"



3 EX1.2 **EXISTING SIDE ELEVATION**
SCALE: 3/16" = 1'-0"



4 EX1.2 **EXISTING REAR ELEVATION**
SCALE: 3/16" = 1'-0"

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STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
REGISTERED ARCHITECT
2-7-2022

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
EXISTING ELEVATIONS

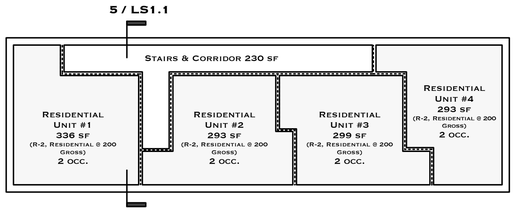
DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

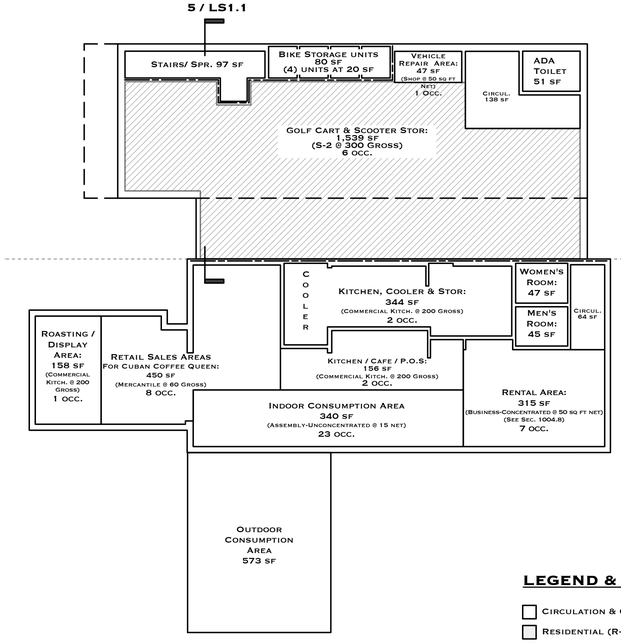
EX1.2
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC.

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505



4 / LS1.1 2ND FLOOR OCC. AREAS & LOADS - PHASE II
SCALE: 3/32" = 1'-0"



3 / LS1.1 1ST FLOOR OCC. AREAS & LOADS - PHASE I & II
SCALE: 3/32" = 1'-0"

PHASE II - (2ND FLOOR) "R-2"
2ND FLOOR RESIDENTIAL UNITS, OCCUPANT LOAD:

TOTAL OCCUPANT LOAD: 8 OCC.
(1) MEANS OF EGRESS PROVIDED + (1) EGRESS WINDOW PER UNIT

PHASE II - "U"
1ST FLOOR GOLF CART & SCOOTER STOR. OCCUPANT LOAD:

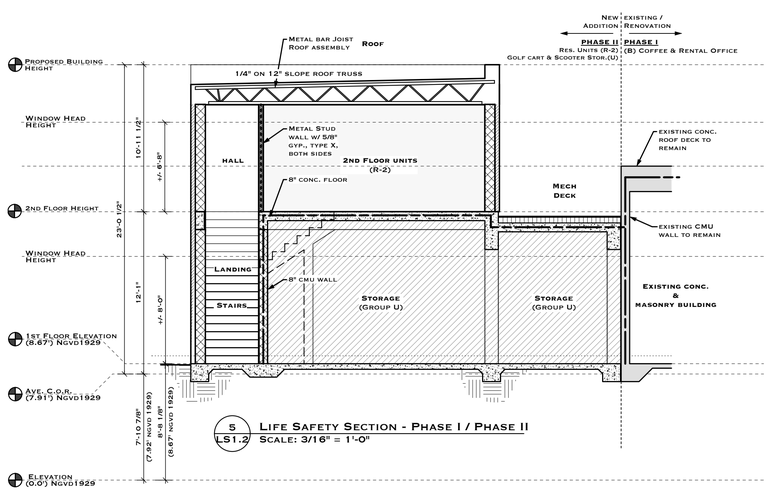
TOTAL OCCUPANT LOAD: 12 OCC.
(2) MEANS OF EGRESS PROVIDED

PHASE I - "B"
1ST FLOOR COFFEE & RENTAL OFFICE OCCUPANT LOAD:

TOTAL OCCUPANT LOAD: 45 OCC.
(3) MEANS OF EGRESS PROVIDED

LEGEND & GRAPHIC KEY:

- CIRCULATION & GENERAL STOR.
- RESIDENTIAL (R-3)
- VEHICLE STORAGE
- 1/2 HOUR RATED WALL ASSEMBLY
- 1 HOUR RATED WALL ASSEMBLY



5 / LS1.2 LIFE SAFETY SECTION - PHASE I / PHASE II
SCALE: 3/16" = 1'-0"

PROJECT ADDRESS:
601 TRUMAN AVE

APPLICABLE CODES:
2020 FLORIDA BUILDING CODE,
2020 FLORIDA BUILDING CODE EXISTING BUILDING
2020 FLORIDA FIRE PREVENTION CODE
NATIONAL FIRE PROTECTION ASSOCIATION
2020 FLORIDA BUILDING CODE MECHANICAL
2020 FLORIDA BUILDING CODE PLUMBING
NATIONAL ELECTRIC CODE NFPA 70, 2008
2020 FLORIDA BUILDING CODE FUEL GAS
2020 FLORIDA BUILDING CODE ENERGY CONSERVATION
2020 FLORIDA BUILDING CODE ACCESSIBILITY
2020 FLORIDA BUILDING CODE: FLORIDA TEST PROTOCOLS FO
HIGH VELOCITY HURRICANES CODES

CONSTRUCTION TYPE = TYPE-IIB

303.1.1 SMALL BUILDINGS & TENANT SPACES:
A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY.

420.2 SEPARATION WALLS:
SEE SECTION 708

TABLE 508.4
R-2 OVER U, SPRINKLERED
= 1 HR

B TO U, SPRINKLERED
= 1 HR

TABLE 602
X= LESS THAN 5'-0" W/ OCC. GROUP A, R-2 & U
= 1 HR

708.3 FIRE RESISTANCE RATING:
EXCEPTION #1 - CORRIDOR WALLS PERMITTED TO HAVE A 1/2-HOUR FIRE RESISTANCE RATING BY TABLE 1020.1
EXCEPTION #2 - DWELLING UNIT & SLEEPING UNIT SEPARATIONS IN BUILDING OF TYPE IIB, IIIB & VB CONSTRUCTION SHALL HAVE FIRE-RESISTANCE RATINGS OF NOT LESS THAN 1/2 HOUR IN BUILDINGS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

711.2.4.1 SEPARATING MIXED OCCUPANCIES:
WHERE THE HORIZONTAL ASSEMBLY SEPARATES MIXED OCCUPANCIES, THE ASSEMBLY SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN THAT REQUIRED BY SECTION 508.4 BASED ON THE OCCUPANCIES BEING SEPARATED.

TABLE 1004.5:
SEE OCCUPANT AREAS & LOADS DIAGRAMS

TABLE 1006.2.1:
R-2 W/ OCC. LOAD LESS THAN 49, W/ SPRINKLER SYSTEM
= 125' MAX

TABLE 1006.3.3:
R-2 W/ (4) DWELLING UNITS W/ SPRINKLER SYSTEM
= 125' MAX

1006.3.3(1) SINGLE EXITS:
EXCEPTION #1 - THE OCCUPANT LOAD,NUMBER OF DWELLING UNITS & COMMON PATH OF EGRESS TRAVEL DISTANCE DO NOT EXCEED THE VALUES IN TABLE 1006.3.3(1) OR 1006.3.3(2).

TABLE 1017.2:
EXIT ACCESS TRAVEL DISTANCE W/ SPRINKLER SYSTEM
= 125' MAX

TABLE 1020.1:
CORRIDOR FIRE RESIS. RATING W/ SPRINKLER SYSTEM
= .5 HRS

TABLE 1020.2:
OCC. LOAD LESS THAN 50: MIN. CORRIDOR WIDTH 36"
WITHIN A DWELLING UNIT: MIN. CORRIDOR WIDTH 36"

1020.4 DEAD ENDS:
EXCEPTION #2 - THE LENGTH OF THE DEAD END CORRIDOR SHALL NOT EXCEED 50'-0"

PATH OF TRAVEL:
2ND FLOOR RESIDENTIAL UNITS

EXIT PATH II TO HH = 28'-10"
EXIT PATH HH TO CC = 59'-10"

EXIT PATH GG TO FF = 32'-7"
EXIT PATH GG TO CC = 84'-8"

PATH OF TRAVEL:
GOLF CART & SCOOTER STOR. AREA

EXIT PATH EE TO AA = 84'-11"
EXIT PATH EE TO BB = 36'-5"

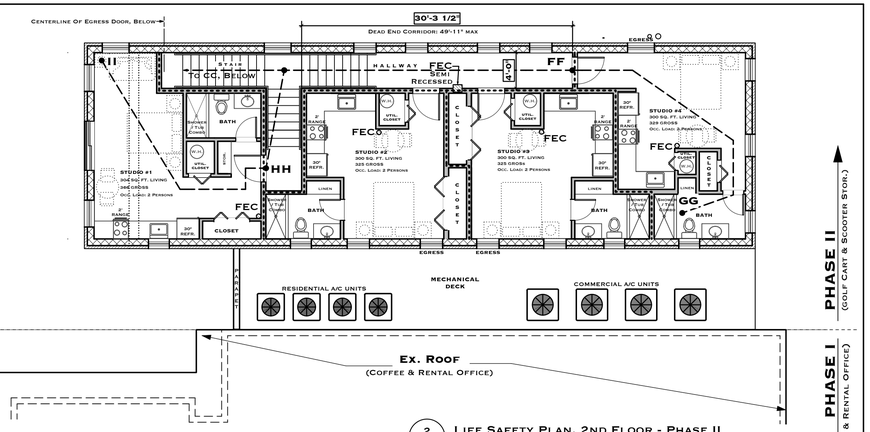
EXIT PATH DD TO AA = 49'-3"
EXIT PATH DD TO BB = 68'-6"

PATH OF TRAVEL:
COFFEE & RENTAL OFFICE BUILDING

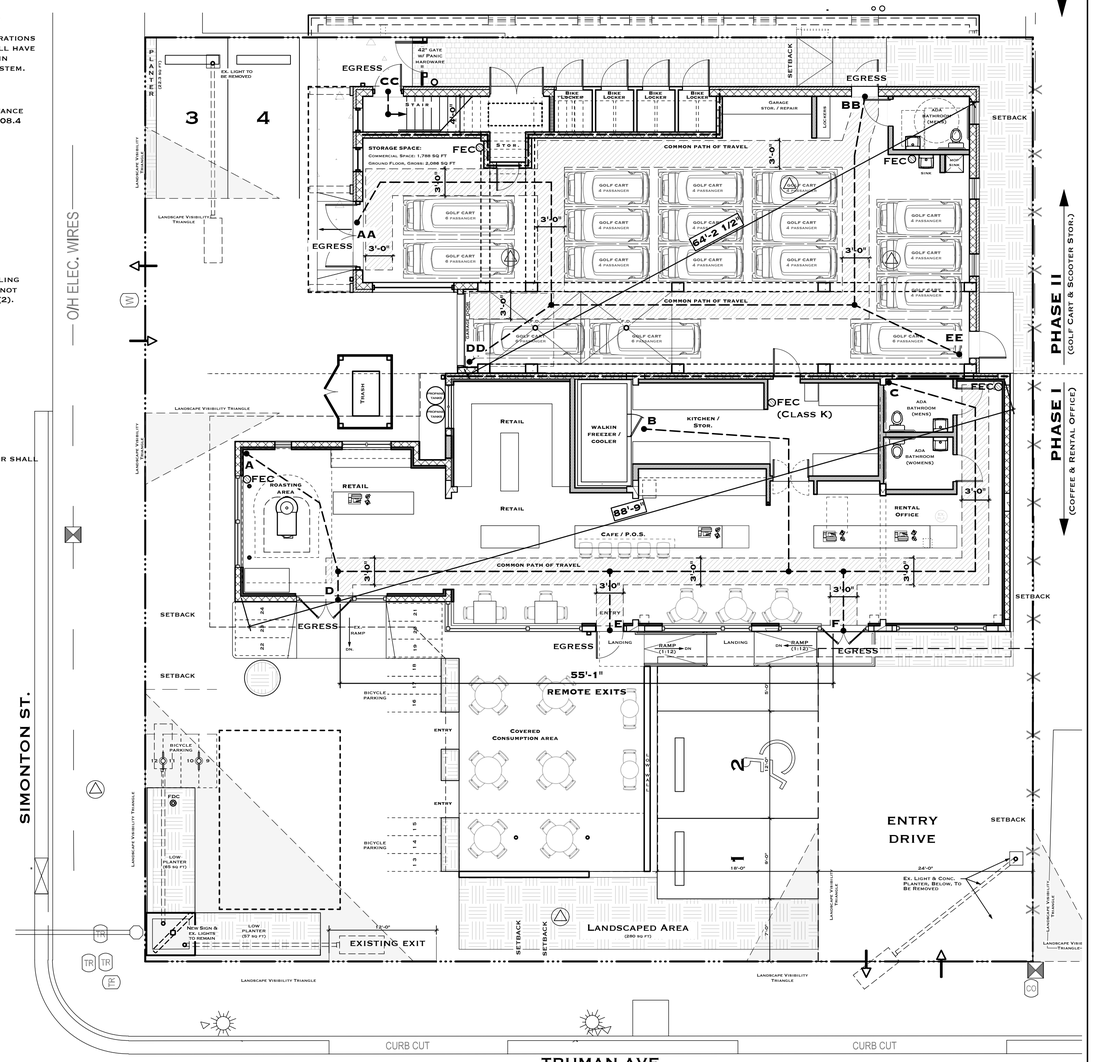
EXIT PATH C TO F = 49'-9"
EXIT PATH C TO E = 75'-10"
EXIT PATH C TO D = 102'-10"

EXIT PATH B TO F = 43'-10"
EXIT PATH B TO E = 57'-8"
EXIT PATH B TO D = 84'-7"

EXIT PATH A TO D = 22'-4"
EXIT PATH A TO E = 54'-9"
EXIT PATH A TO F = 83'-8"



2 / LS1.2 LIFE SAFETY PLAN, 2ND FLOOR - PHASE II
SCALE: 1/8" = 1'-0"



1 / LS1.1 LIFE SAFETY SITE & 1ST FLOOR PLAN, PHASE I & II
SCALE: 1/8" = 1'-0"

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
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STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
REGISTERED ARCHITECT
2-7-2022

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
LIFE SAFETY PLANS, PHASE I & PHASE II

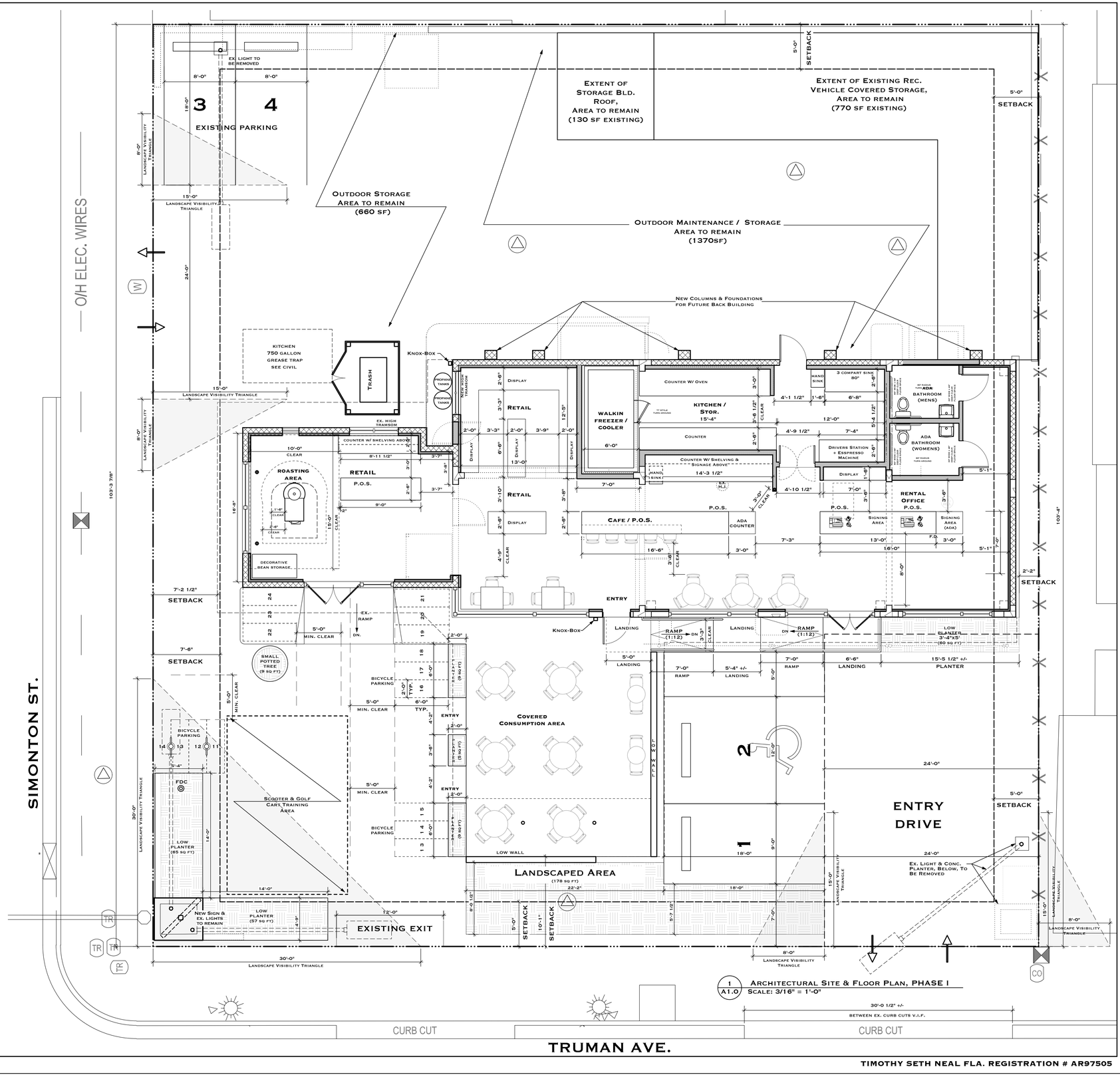
DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

LS 1.1
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC.

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505



1 / A1.0 ARCHITECTURAL SITE & FLOOR PLAN, PHASE I
SCALE: 3/16" = 1'-0"

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, F L 33040

DRAWING TITLE:
ARCHITECTURAL SITE PLAN & FLOOR PLAN, PHASE I

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

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A1.0
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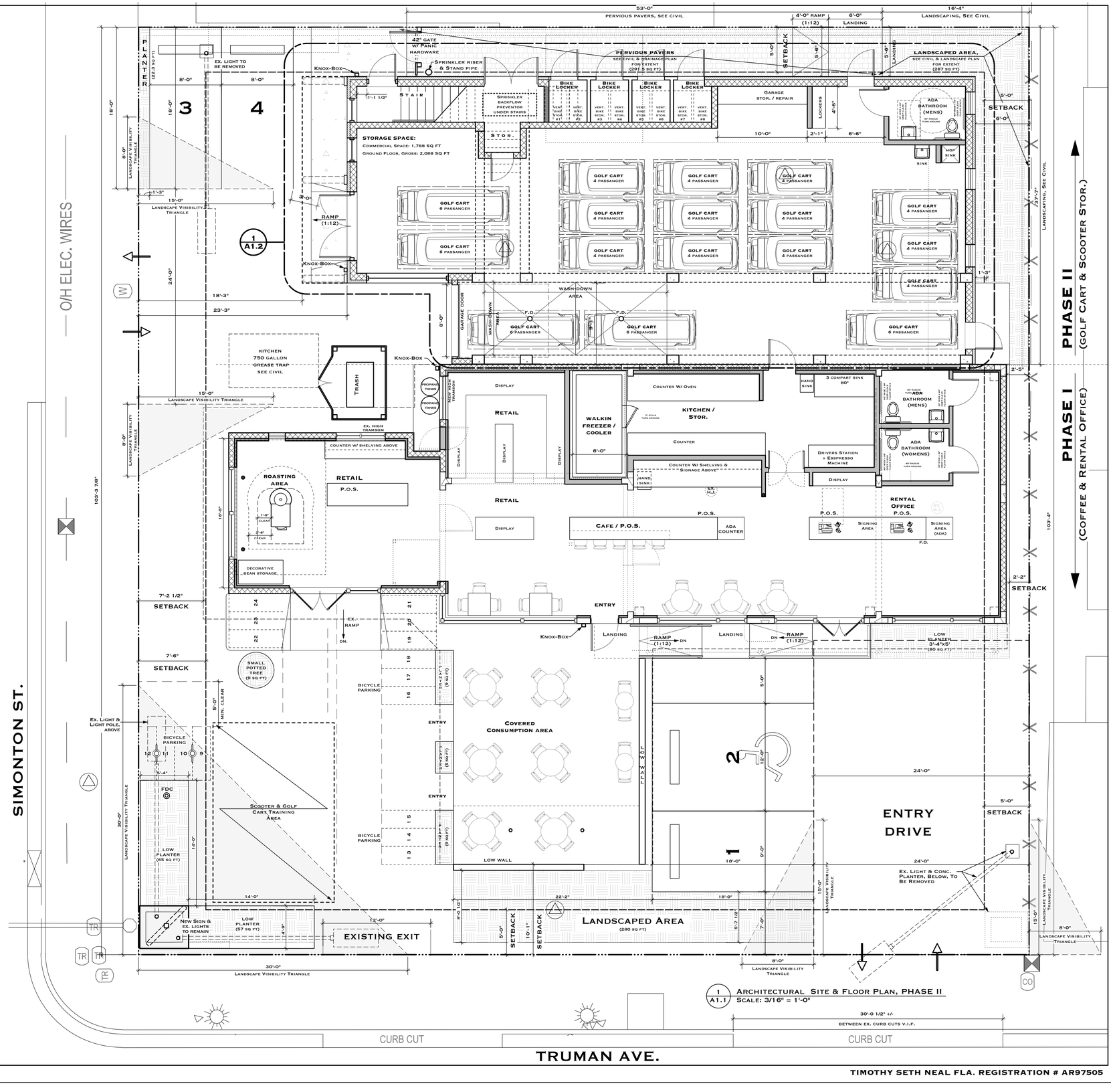

1 A1.1 ARCHITECTURAL SITE & FLOOR PLAN, PHASE II
SCALE: 3/16" = 1'-0"

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ARCHITECTS INC.
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2-7-2022

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, FL 33040

DRAWING TITLE:
ARCHITECTURAL SITE PLAN & FLOOR PLAN, PHASE II

DRAWN: EDSA-TSN
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DATE: 11-05-2021

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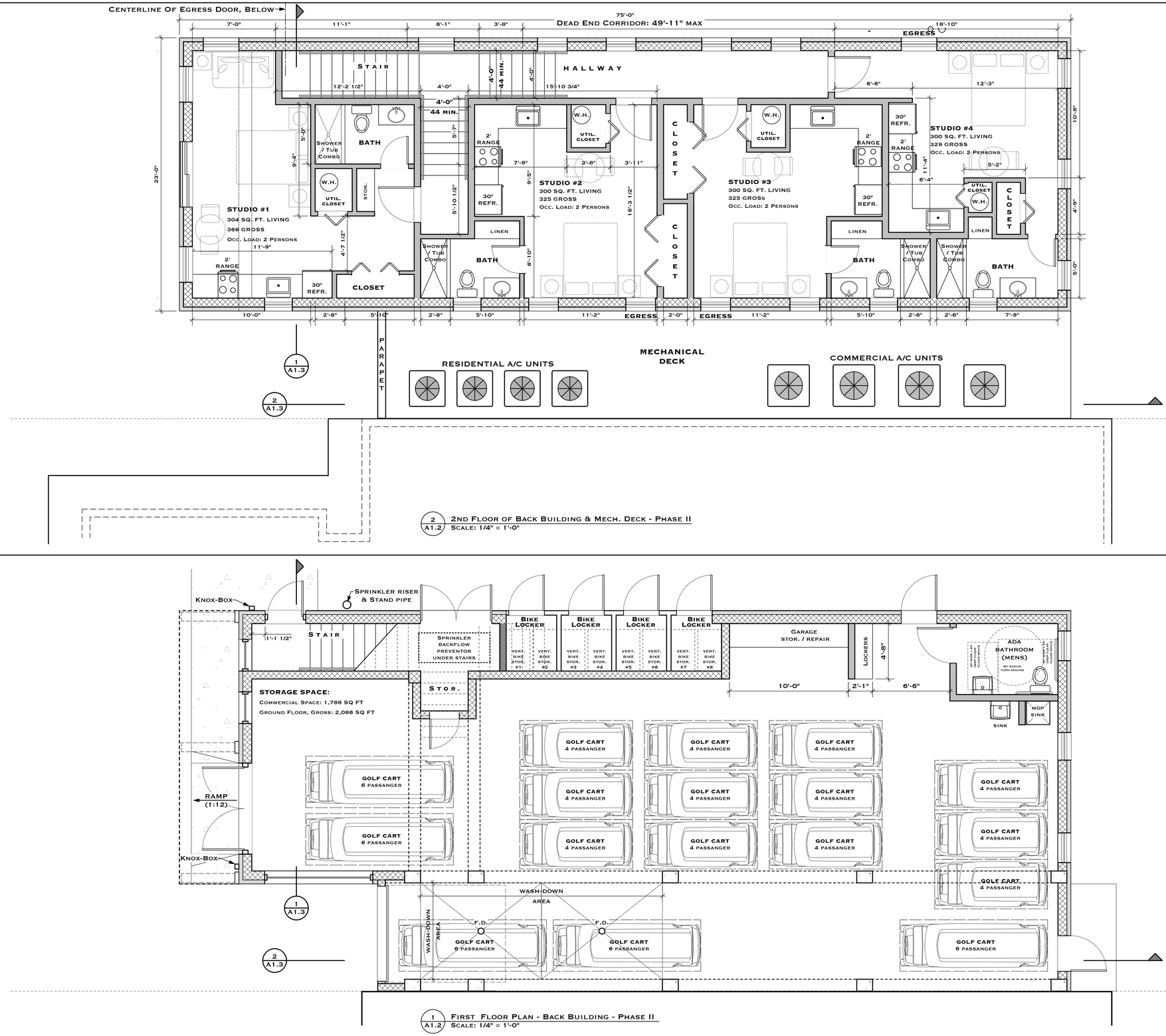

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A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
BACK BUILDING - FIRST FLOOR & SECOND FLOOR PLANS - PHASEII

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

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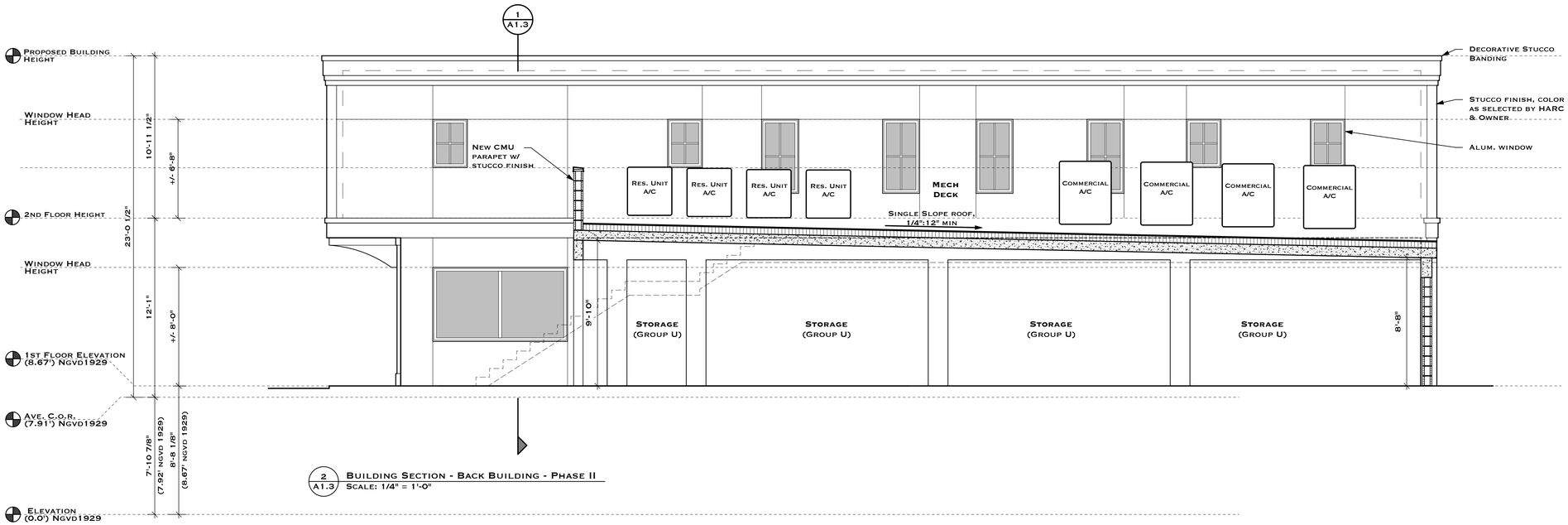
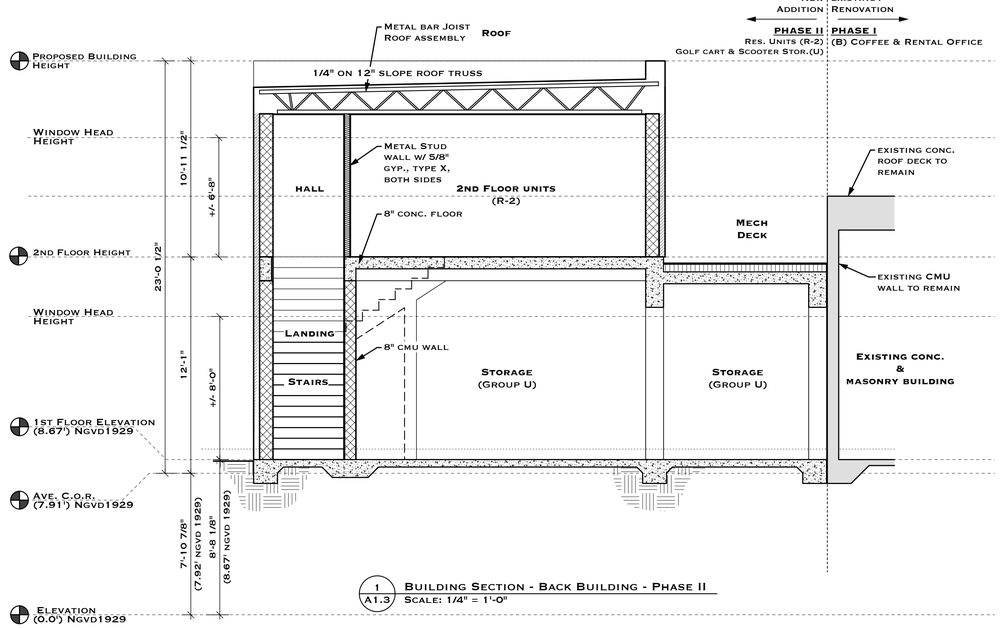


2 A1.3 **Building Section - Back Building - Phase II**
Scale: 1/4" = 1'-0"



1 A1.3 **Building Section - Back Building - Phase II**
Scale: 1/4" = 1'-0"

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PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
SECTIONS - BACK BUILDING - PHASE II

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

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SHEET #

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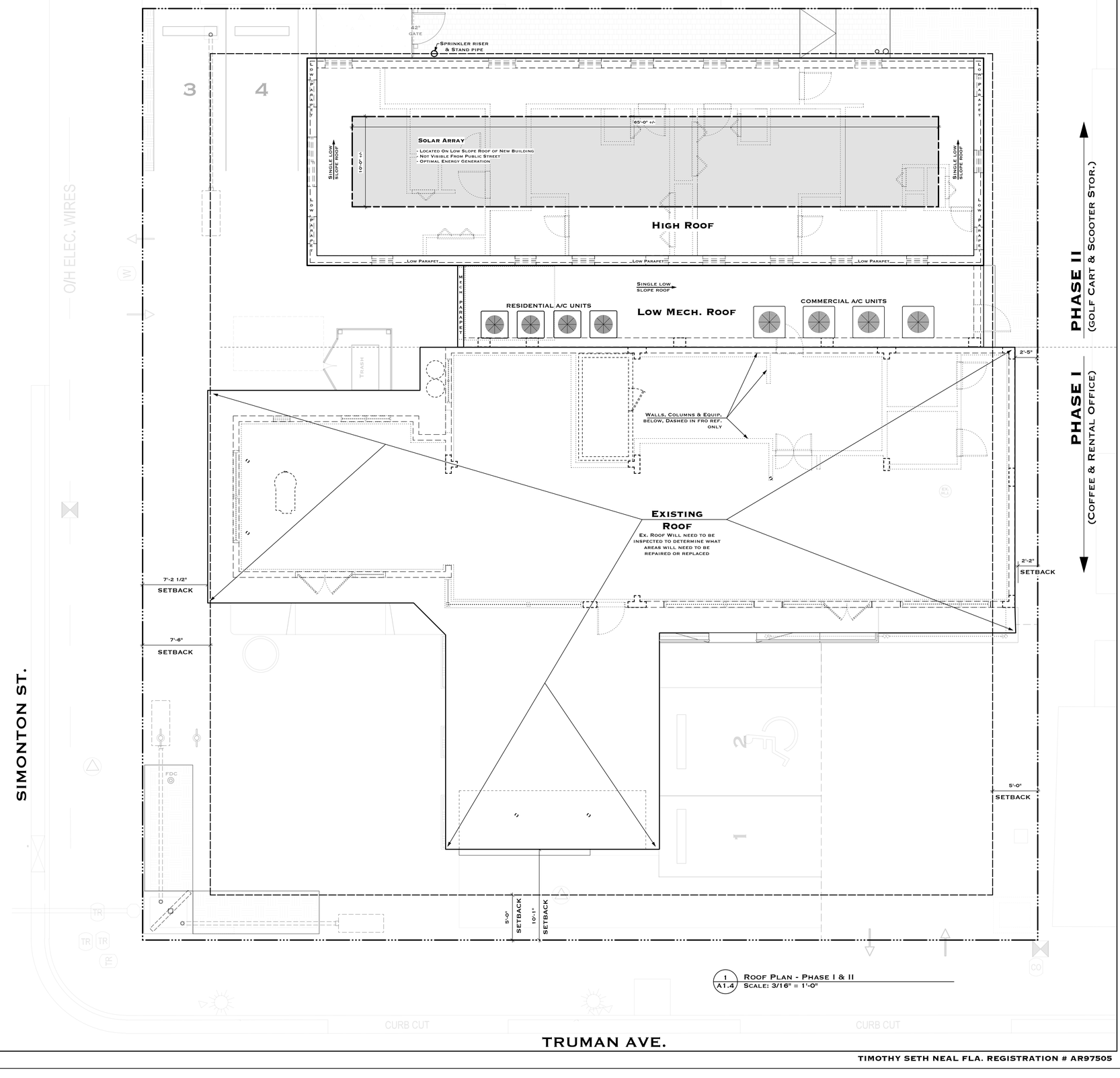

1 / A1.4 ROOF PLAN - PHASE I & II
SCALE: 3/16" = 1'-0"

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A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, FL 33040

DRAWING TITLE:
ROOF PLAN,
PHASE I & II

DRAWN: EDSA-TSN
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DATE: 11-05-2021

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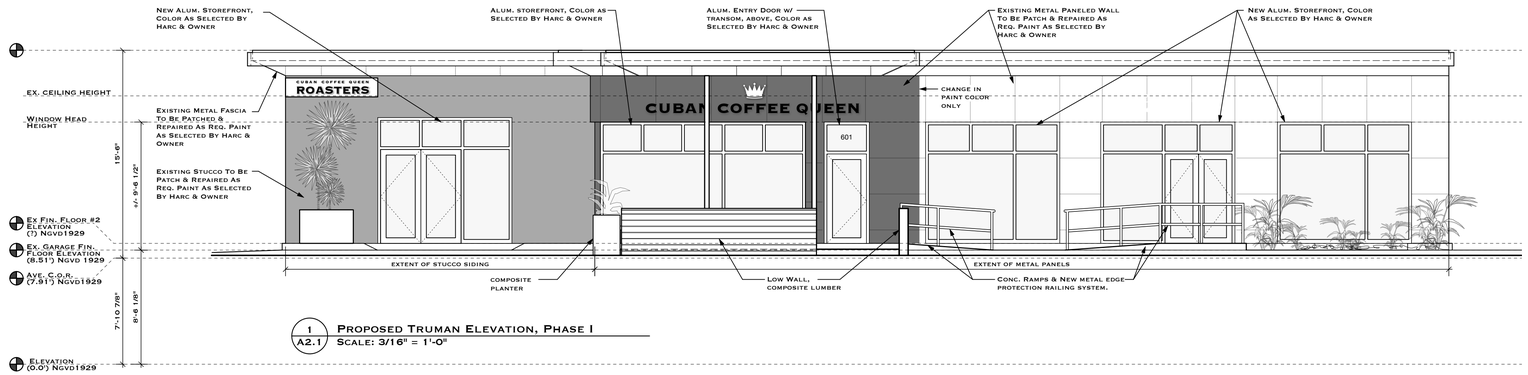
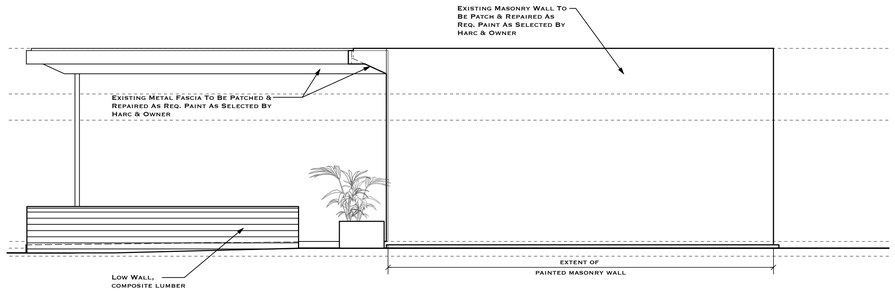
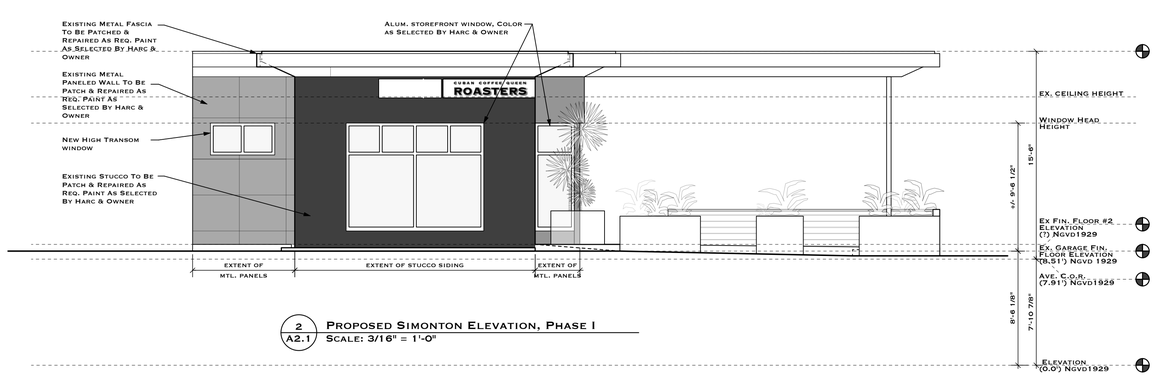


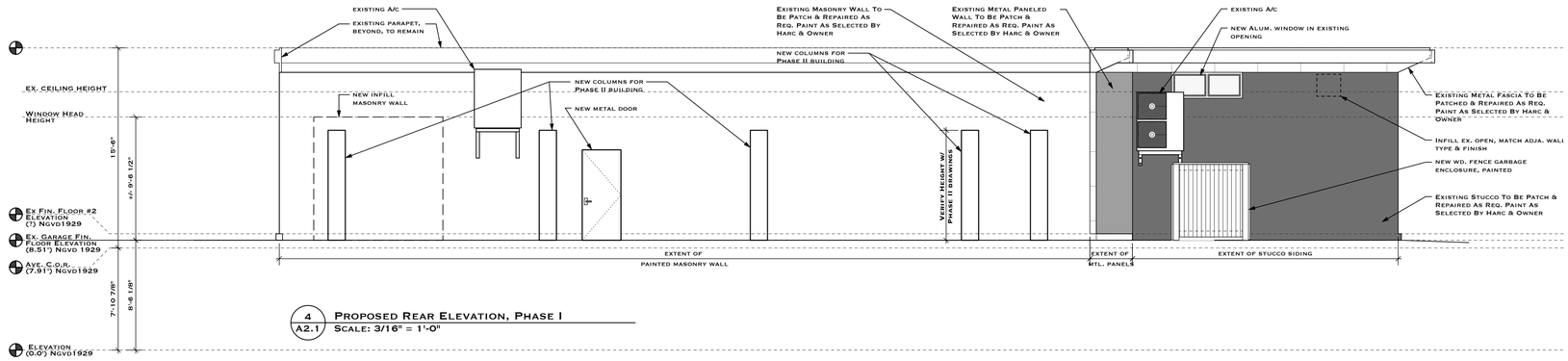
1 A2.1 **PROPOSED TRUMAN ELEVATION, PHASE I**
SCALE: 3/16" = 1'-0"



3 A2.1 **PROPOSED SIDE ELEVATION PHASE I**
SCALE: 3/16" = 1'-0"



2 A2.1 **PROPOSED SIMONTON ELEVATION, PHASE I**
SCALE: 3/16" = 1'-0"



4 A2.1 **PROPOSED REAR ELEVATION, PHASE I**
SCALE: 3/16" = 1'-0"

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A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, F L 33040

DRAWING TITLE:
EXTERIOR ELEVATIONS PHASE I

DRAWN: EDSA-TSN
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DATE: 11-05-2021

REVISION #	DATE

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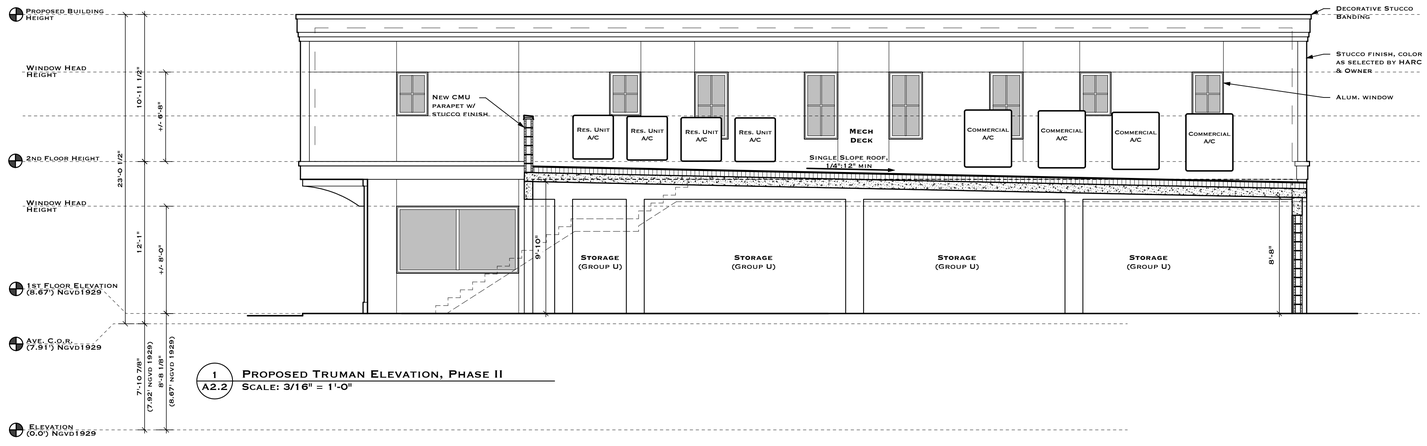
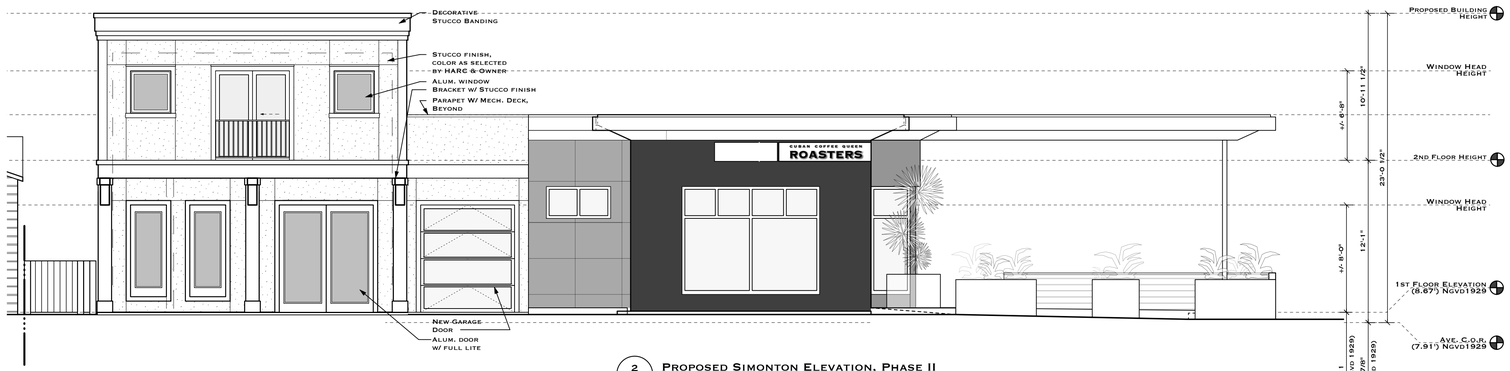
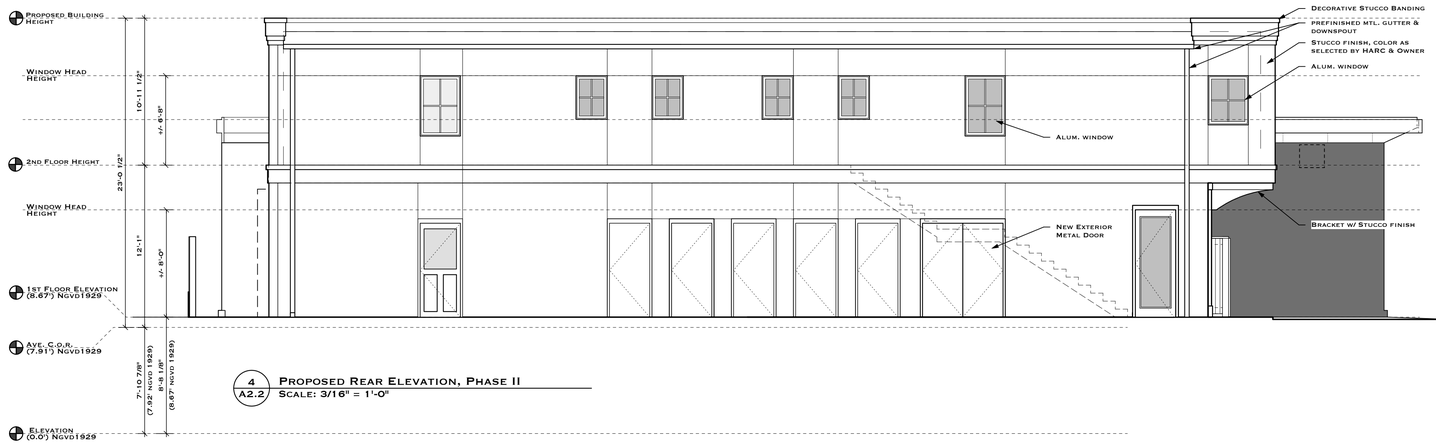


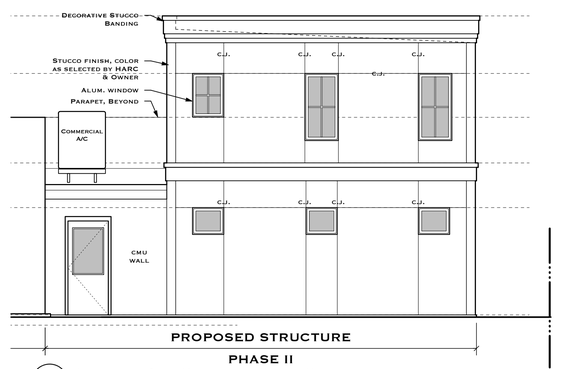
1 A2.2 **PROPOSED TRUMAN ELEVATION, PHASE II**
SCALE: 3/16" = 1'-0"



2 A2.2 **PROPOSED SIMONTON ELEVATION, PHASE II**
SCALE: 3/16" = 1'-0"



4 A2.2 **PROPOSED REAR ELEVATION, PHASE II**
SCALE: 3/16" = 1'-0"



3 A2.2 **PROPOSED SIDE ELEVATION, PHASE II**
SCALE: 3/16" = 1'-0"

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TIMOTHY SETH NEAL
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REGISTERED ARCHITECT
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A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
EXTERIOR ELEVATIONS - PHASE II

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

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SHEET #

TSN
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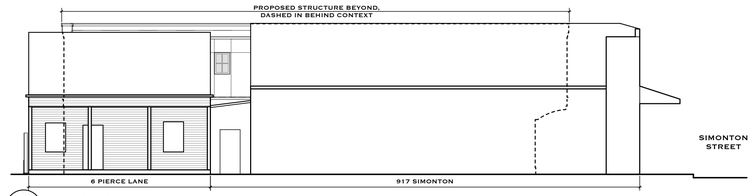
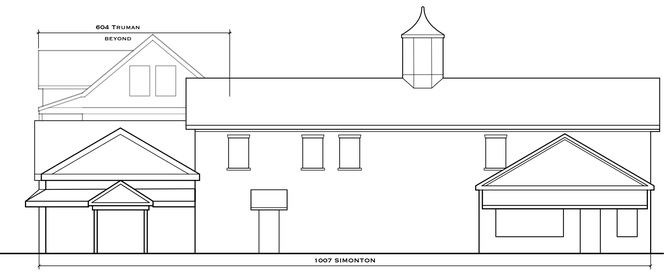
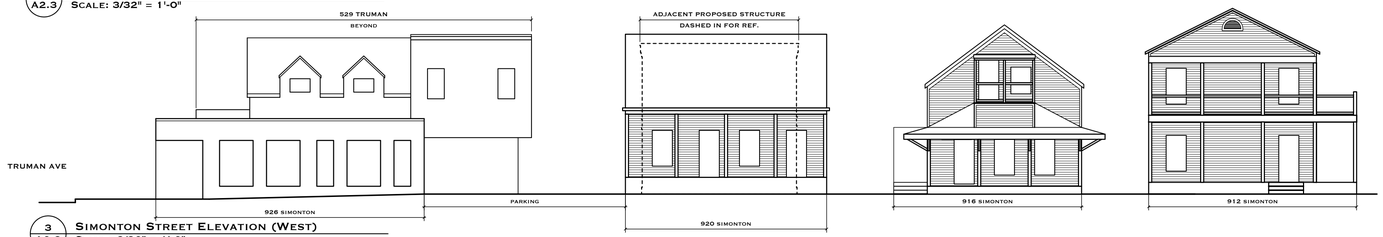


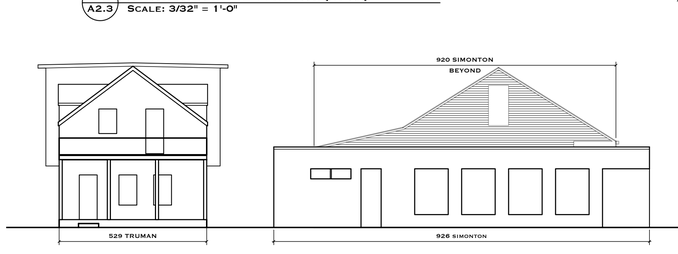
1 A2.3 **PIERCE STREET ELEVATION**
SCALE: 3/32" = 1'-0"

2 A2.3 **SIMONTON STREET ELEVATION (EAST)**
SCALE: 3/32" = 1'-0"

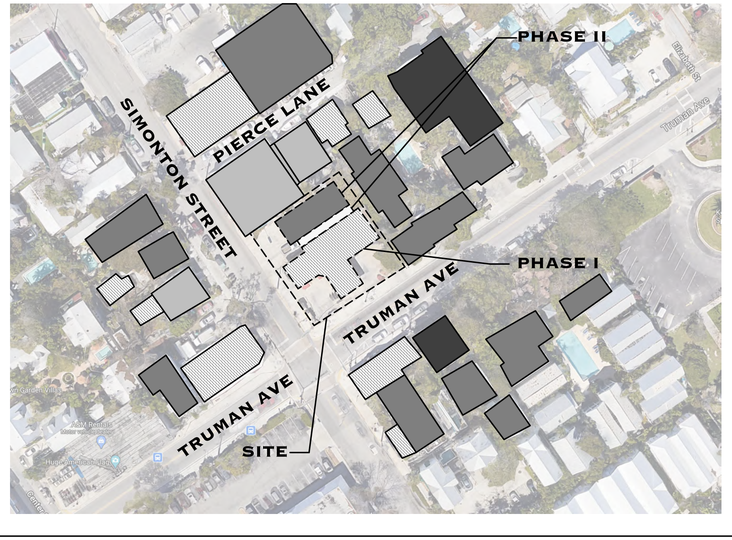




3 A2.3 **SIMONTON STREET ELEVATION (WEST)**
SCALE: 3/32" = 1'-0"



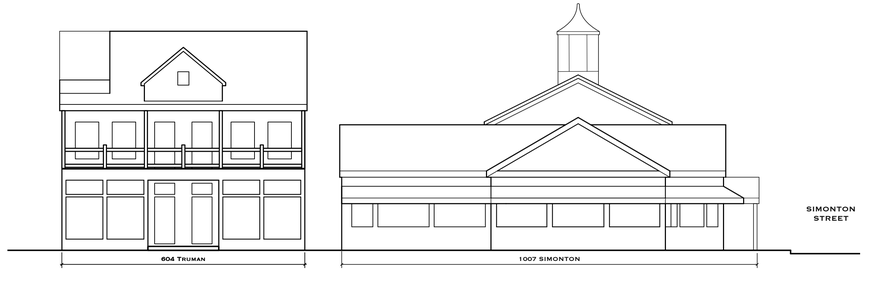
4 A2.3 **TRUMAN AVE ELEVATION (NORTH)**
SCALE: 3/32" = 1'-0"



GRAPHIC LEGEND

- SINGLE STORY STRUCTURE
- 1 1/2 STORY STRUCTURE
- 2 STORY STRUCTURE
- 3 STORY STRUCTURE

N



5 A2.3 **TRUMAN AVE ELEVATION (SOUTH)**
SCALE: 3/32" = 1'-0"

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2-7-2022

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A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, F L 33040

DRAWING TITLE:
HARC CONTEXT ELEVATIONS - PHASE I & II

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DATE: 11-05-2021

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A2.3
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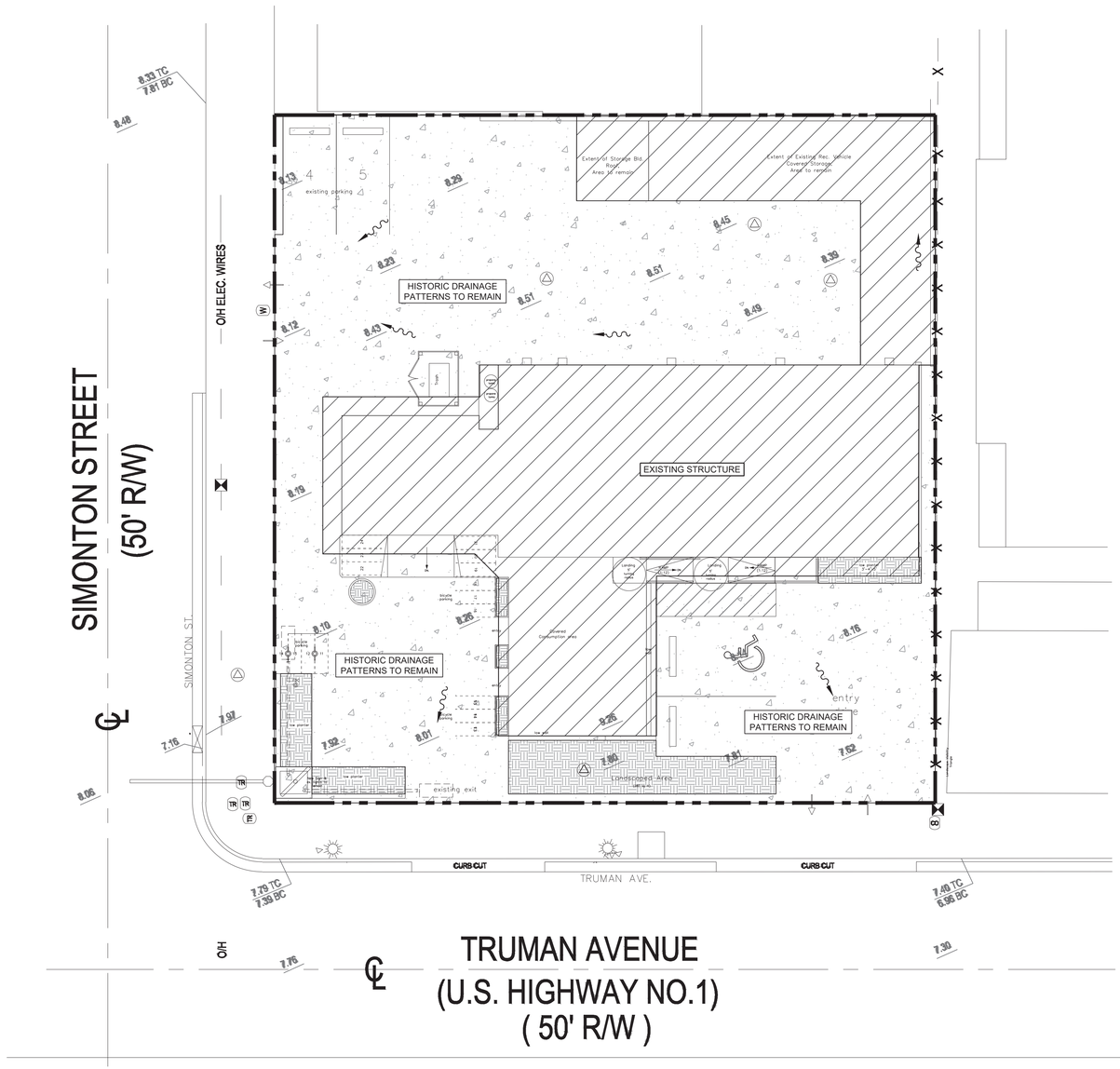


BAR IS TWO INCHES ON ORIGINAL DRAWINGS
IF NOT TWO INCHES, ADJUST SCALES ACCORDINGLY

LEGEND

- PROJECT LIMITS
- ROOF AREA
- CONCRETE
- DRY DETENTION AREA
- EXISTING GRADE
- PROPOSED GRADE (5.00')
- STORMWATER PIPE
- STORMWATER BASIN (NYLOPLAST)
- STORMWATER INLET
- STORMWATER FLOW

NOTE:SYMBOLS IN LEGEND ARE NOT TO SCALE

Stormwater Quantity Calculations

Pre Development					
Project Area		0.235	ac	10,241.0	sf
Pervious Area		0.000	ac	-	sf
Impervious Area		0.235	ac	10,241.0	sf
Percent Impervious Area		100.0%			
Information below per SFWMD ERP Vol II					
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in		
Rainfall: 25 Year / 72 Hour Event	P_{72}	12.0	in		
Depth to Water Table		4	ft		
Predeveloped Available Storage		8.18	in		
Soil Storage	S	0.00	in		
$Q_{pre} = \frac{(P-0.25)^2}{(P+0.8S)}$	Q_{pre}	9.00	in	25YR/24HR	
	Q_{pre}	12.00	in	25YR/72HR	
Runoff Volume (25 year/24 hour design event)	$V_{25yr/24hr}$	2.116	ac-in		
Runoff Volume (25 year/72 hour design event)	$V_{25yr/72hr}$	2.821	ac-in		
Post Development					
Project Area		0.235	ac	10,241.0	sf
Pervious Area		0.011	ac	458.0	sf
Impervious Area		0.225	ac	9,783.0	sf
Percent Impervious Area		95.5%			
Information below per SFWMD ERP Vol II					
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in		
Rainfall: 25 Year / 72 Hour Event	P_{72}	12.0	in		
Depth to Water Table		4	ft		
Developed Available Storage		8.18	in		
Soil Storage	S	0.37	in		
$Q_{pre} = \frac{(P-0.25)^2}{(P+0.8S)}$	Q_{pre}	8.58	in	25YR/24HR	
	Q_{pre}	11.57	in	25YR/72HR	
Runoff Volume (25 year/24 hour design event)	$V_{25yr/24hr}$	2.016	ac-in		
Runoff Volume (25 year/72 hour design event)	$V_{25yr/72hr}$	2.721	ac-in		
Volume Difference (25 year/24 hour design event)					
$Q_{post-pre} = Q_{post} - Q_{pre}$	$Q_{post-pre}$	-0.42	in		
	$V_{post-pre}$	-0.100	ac-in	(362)	ft^3
Volume Difference (25 year/72 hour design event)					
$Q_{post-pre} = Q_{post} - Q_{pre}$	$Q_{post-pre}$	-0.43	in		
	$V_{post-pre}$	-0.101	ac-in	(365)	ft^3

NOTES:
1. REDUCTION IN IMPERVIOUS AREA.
2. HISTORICAL DRAINAGE PATTERNS TO REMAIN THE SAME.

CIVIL SHEET LIST
C-1 PHASE I CONCEPTUAL PLAN
C-2 PHASE II CONCEPTUAL PLAN
C-3 CIVIL DETAILS

O'FLYNN engineering llc
Certificate of Authorization #32187
305.768.1212
brandon@ofynneng.com
1200 Fourth Street
#575
Key West, FL 33040

REVIEW SET
NOT FOR CONSTRUCTION

BRANDON G. O'FLYNN, P.E.
FL P.E. NO. 80520

601 TRUMAN AVENUE
KEY WEST, FL 33040

DRAWN: BGO
DESIGNED: BGO
CHECKED: JCR

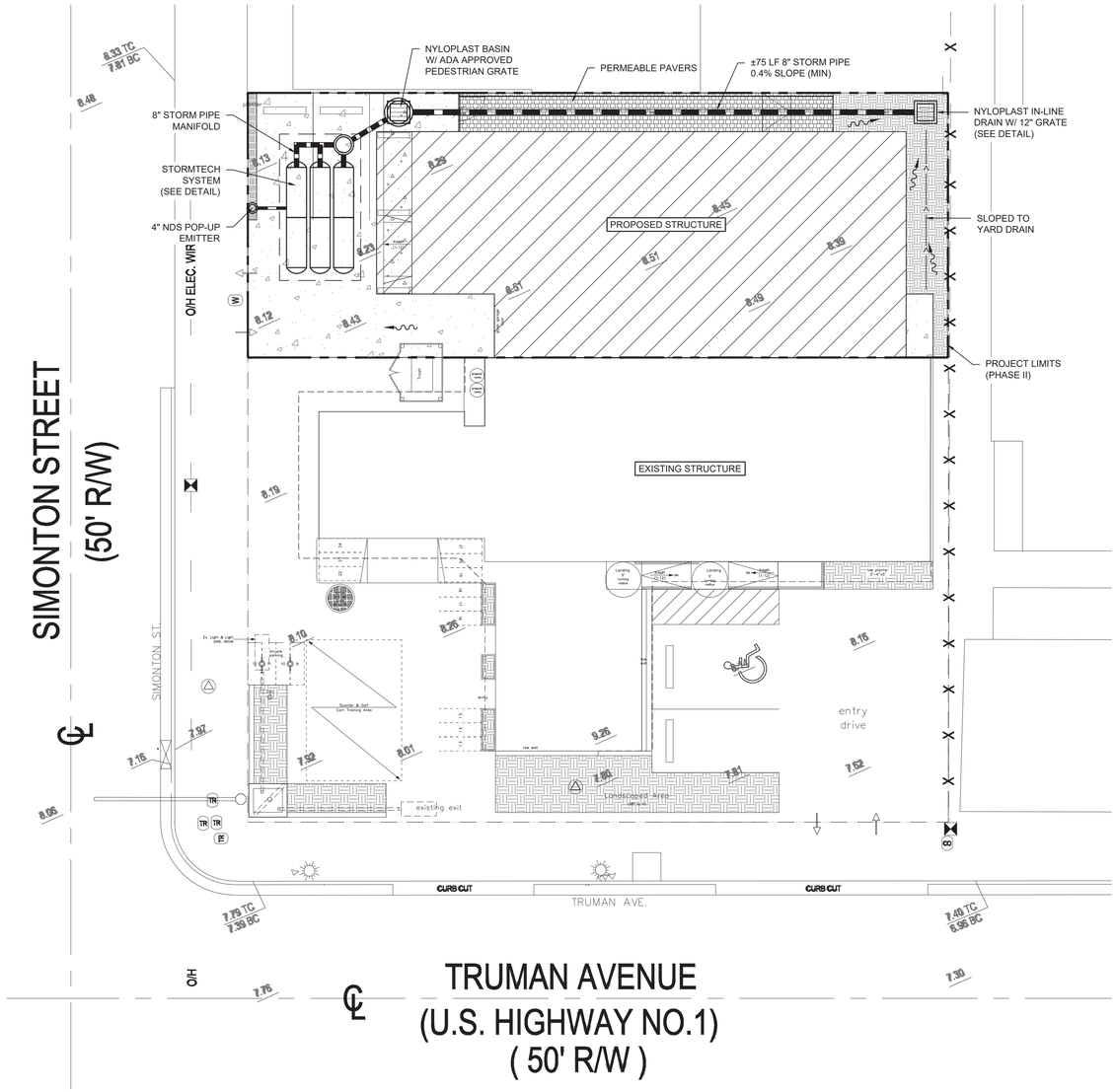
REVISION

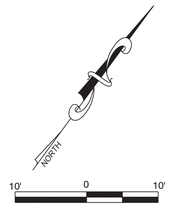
CONCEPTUAL DRAINAGE PLAN (PHASE I)

201027 | 1/21/2022

C-1

CONCEPTUAL PLAN - PHASE I





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IF NOT TWO INCHES, ADJUST SCALES ACCORDINGLY

LEGEND

- PROJECT LIMITS
- ROOF AREA
- CONCRETE
- DRY DETENTION AREA
- EXISTING GRADE
- PROPOSED GRADE
- STORMWATER PIPE
- STORMWATER BASIN (NYLOPLAST)
- STORMWATER INLET
- STORMWATER FLOW

NOTE:SYMBOLS IN LEGEND ARE NOT TO SCALE

NOTES:
1. DOWNSPOUTS DIRECTED INTO STORMWATER MANAGEMENT SYSTEM. PROVIDE AIR-GAP AT INTERFACE FOR EMERGENCY OVERFLOW.
2. SEE SHEET C-3 FOR STORMTECH CHAMBER AND SYSTEM DETAILS.

Stormwater Quantity Calculations

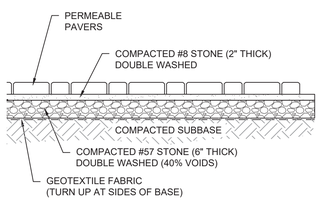
Pre Development					
Project Area		0.085	ac	3,719.0	sf
Pervious Area		0.003	ac	136.0	sf
Impervious Area		0.082	ac	3,583.0	sf
Percent Impervious Area		96.3%			
Information below per SFWMD ERP Vol II					
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in		
Rainfall: 25 Year / 72 Hour Event	P_{72}	12.0	in		
Depth to Water Table		4	ft		
Predeveloped Available Storage		8.18	in		
Soil Storage	S	0.30	in		
$Q_{pre} = \frac{(P-0.2S)^2}{(P+0.8S)}$	Q_{pre}	8.65	in	25YR/24HR	
	Q_{pre}	11.65	in	25YR/72HR	
Runoff Volume (25 year/24 hour design event)	$V_{25yr/24hr}$	0.739	ac-in		
Runoff Volume (25 year/72 hour design event)	$V_{25yr/72hr}$	0.994	ac-in		
Post Development					
Project Area		0.085	ac	3,719.0	sf
Pervious Area		0.013	ac	559.0	sf
Impervious Area		0.073	ac	3,160.0	sf
Percent Impervious Area		85.0%			
Information below per SFWMD ERP Vol II					
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in		
Rainfall: 25 Year / 72 Hour Event	P_{72}	12.0	in		
Depth to Water Table		4	ft		
Developed Available Storage		8.18	in		
Soil Storage	S	1.23	in		
$Q_{pre} = \frac{(P-0.2S)^2}{(P+0.8S)}$	Q_{pre}	7.68	in	25YR/24HR	
	Q_{pre}	10.64	in	25YR/72HR	
Runoff Volume (25 year/24 hour design event)	$V_{25yr/24hr}$	0.655	ac-in		
Runoff Volume (25 year/72 hour design event)	$V_{25yr/72hr}$	0.908	ac-in		
Volume Difference (25 year/24 hour design event)					
$Q_{post-pre} = Q_{post} - Q_{pre}$	$Q_{post-pre}$	-0.97	in		
	$V_{post-pre}$	-0.083	ac-in	(302)	ft^3
Volume Difference (25 year/72 hour design event)					
$Q_{post-pre} = Q_{post} - Q_{pre}$	$Q_{post-pre}$	-1.01	in		
	$V_{post-pre}$	-0.086	ac-in	(312)	ft^3

Stormwater Quality Calculations

Project Area	0.085	ac	3,719	ft^2
Surface Water	0.000	ac	-	ft^2
Roof	0.052	ac	2,250	ft^2
Other Impervious	0.021	ac	910	ft^2
Pervious	0.013	ac	559	ft^2
Impervious Area for Water Quality	0.02 24%	ac	910	ft^2
A) One inch of Runoff over Project Area vs	0.085	ac-in	310	ft^3
B) 2.5 inches x Impervious Area for Water Quality	0.052	ac-in	190	ft^3

Retention Details

Total Retention Required (Water Quality Controls)	0.085	ac-in	310	ft^3
Volumes Provided				
StormTech Chamber System	0.089	ac-in	323	ft^3
Retention Provided (Total)	0.089	ac-in	323	ft^3

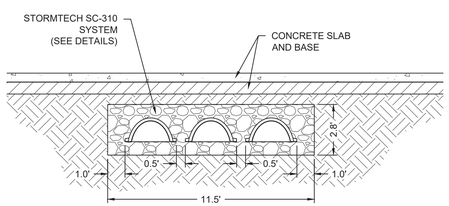


Permeable Paver Storage Calculations		
Paver Area	264	Square Feet
Stone Layer Thickness	6	Inches
Storage Provided	**52.8**	**Cubic Feet**

PERMEABLE PAVER DETAIL

SCALE: N.T.S.

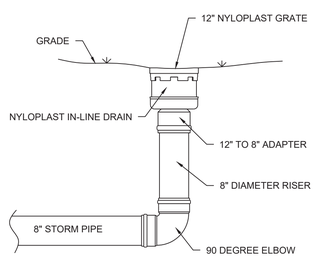
NOTES:
1. PERMEABLE PAVER WATER STORAGE IS NOT INCLUDED IN STORMWATER CALCULATIONS AND IS SHOWN TO DEMONSTRATE ADDITIONAL ON-SITE STORAGE CAPACITY.



STORMTECH SYSTEM SECTION

SCALE: N.T.S.

NOTES:
1. SEE SHEET C-3 FOR ADDITIONAL DETAILS.



IN-LINE DRAIN TYPICAL DETAIL

SCALE: N.T.S.

O'FLYNN engineering llc
Certificate of Authorization #32187
305.768.1212
brandon@ofynneng.com
1200 Fourth Street
#575
Key West, FL 33040

REVIEW SET
NOT FOR CONSTRUCTION

BRANDON G. O'FLYNN, P.E.
FL P.E. NO. 80520

601 TRUMAN AVENUE
KEY WEST, FL 33040

CONCEPTUAL PLAN - PHASE II

DRAWN:	BGO
DESIGNED:	BGO
CHECKED:	JCR

REVISION

CONCEPTUAL
DRAINAGE PLAN
(PHASE II)

201027	1/21/2022

C-2

ADVANCED DRAINAGE SYSTEMS, INC.

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740 OR SC-310.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

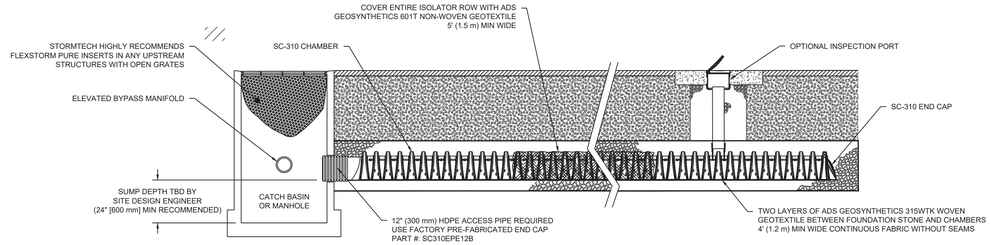
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

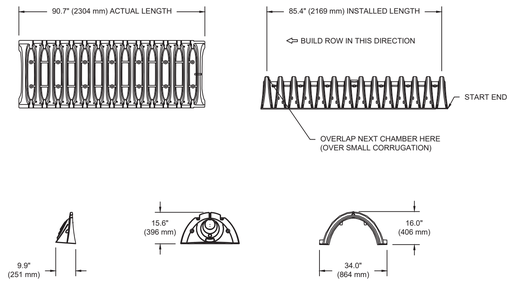
System Volume and Bed Size

Installed Storage Volume:	323.35 cubic ft.
Storage Volume Per Chamber:	14.70 cubic ft.
Number Of Chambers Required:	6
Number Of End Caps Required:	6
Chamber Rows:	3
Maximum Length:	20.75 ft.
Maximum Width:	11.50 ft.
Approx. Bed Size Required:	238.61 square ft.

System Components



1 SC-310 ISOLATOR ROW DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EPE06B / SC310EPE06BPC			---	0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EPE08B / SC310EPE08BPC			---	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10BPC			---	0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

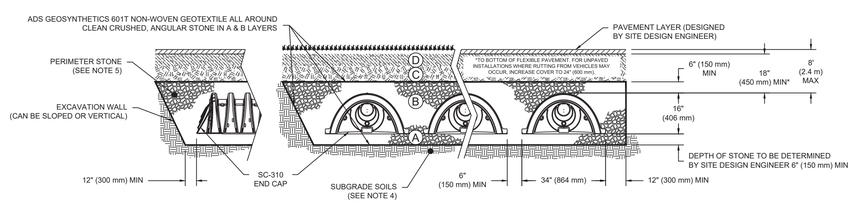
NOTE: ALL DIMENSIONS ARE NOMINAL

2 SC-310 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 16" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	# 57 STONE	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

1. SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

3 SC-310 CROSS SECTION DETAIL

O'FLYNN engineering llc
Certificate of Authorization #32187
305.768.1212
brandon@ofynneng.com
1200 Fourth Street
#575
Key West, FL 33040

REVIEW SET
NOT FOR CONSTRUCTION

BRANDON G. O'FLYNN, P.E.
FL P.E. NO. 80520

601 TRUMAN AVENUE
KEY WEST, FL 33040

DRAWN: BGO
DESIGNED: BGO
CHECKED: JCR

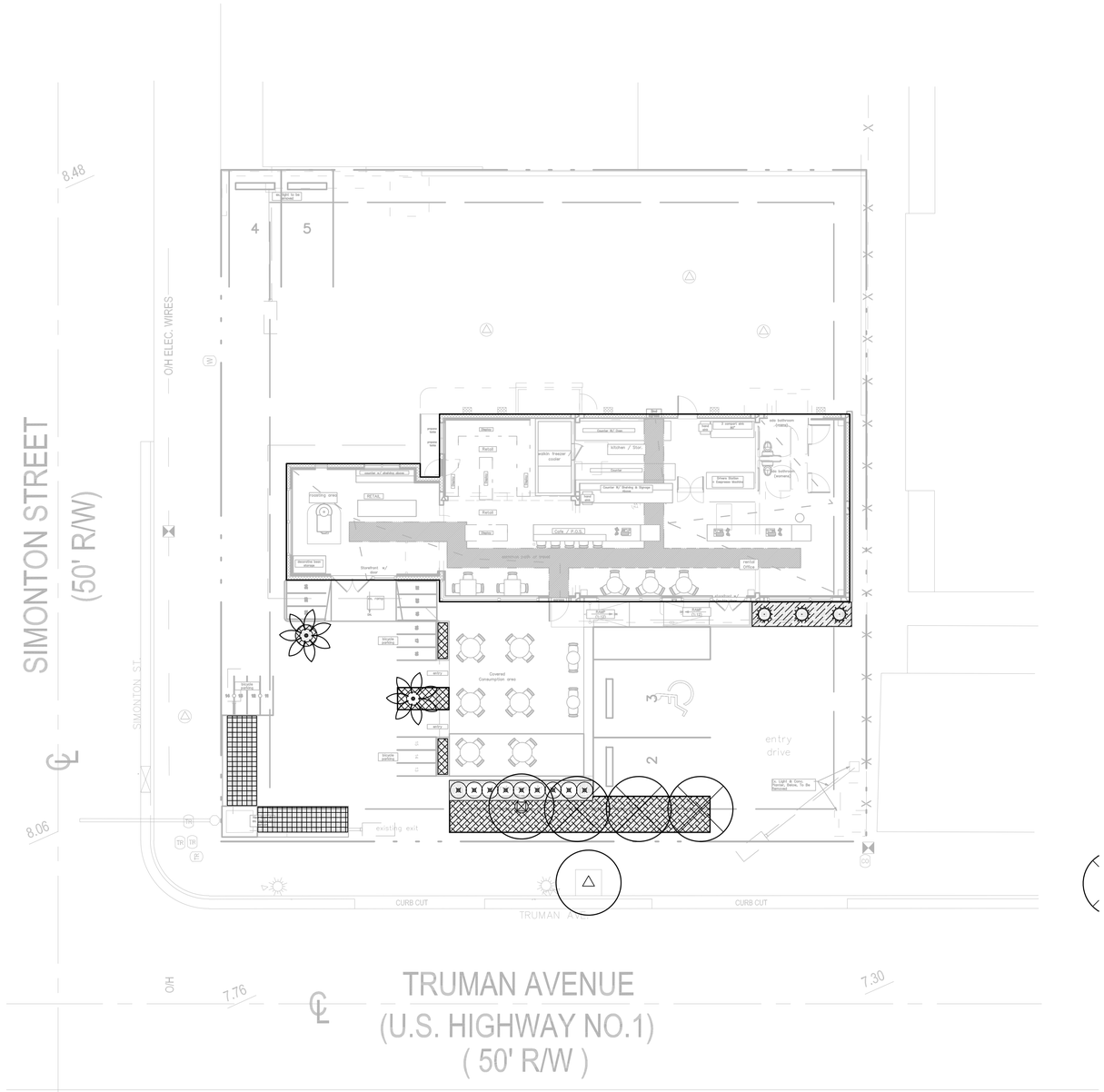
REVISION

DETAILS

CONCEPTUAL PLAN

201027 | 1/21/2022

C-3



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	
△	CO	1	Chrysophyllum oliviforme	Satinleaf	25 GAL.	10` HT X 5` SPRD	2" CAL.	
	PE	2	Ptychosperma elegans	Alexander Palm	F.G.	14` C.T.		
⊠	SG	1	Simarouba glauca	Paradise Tree	25 GAL.	10`-12` STD		
⊗	TR	4	Thrinax radiata	Florida Thatch Palm	F.G.	10` GW		
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE		
☼	CR	3	Cordyline fruticosa `Red Sister`	Red Sister Ti Plant	3 GAL.	24" OA, HEAVY		
⊛	SB2	9	Spartina bakeri	Sand Cord Grass	3 GAL.	24"-30" OA, FULL		
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE		
	CI	31	Chrysobalanus icaco	Coco Plum	3 GAL.	18" HT.		24" o.c.
	IC	22	Ixora chinensis	Chinese Ixora	3 GAL.	FULL		18" o.c.
	ZP	13	Zamia pumila	Coontie	3 GAL.	18"-24" OA.		24" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE		
	EL	210	Ernodea littoralis	Golden Creeper	3 GAL	FULL		12" o.c.

phase 1 landscape area= 519 sq.ft.

NOT FOR CONSTRUCTION

PROJECT

A RENOVATION FOR
601 TRUMAN AVE

601 TRUMAN AVE & 919 SIMONTON ST
KEY WEST, FL 33040

CLIENT/OWNER

VENTER ENTERPRISE, LLC
MARIUS VENTER

608 GRIFFIN LANE
KEY WEST, FL 33040

REGISTRATION

ISSUED FOR:

ISSUANCE	DD MMM YY

PROJECT NUMBER XXXXX.X

DATE: 11.11.2021

SCALE: 1"-10'-0"

DRAWN BY: IM

CHECKED BY: KO

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE NORTH

SHEET TITLE

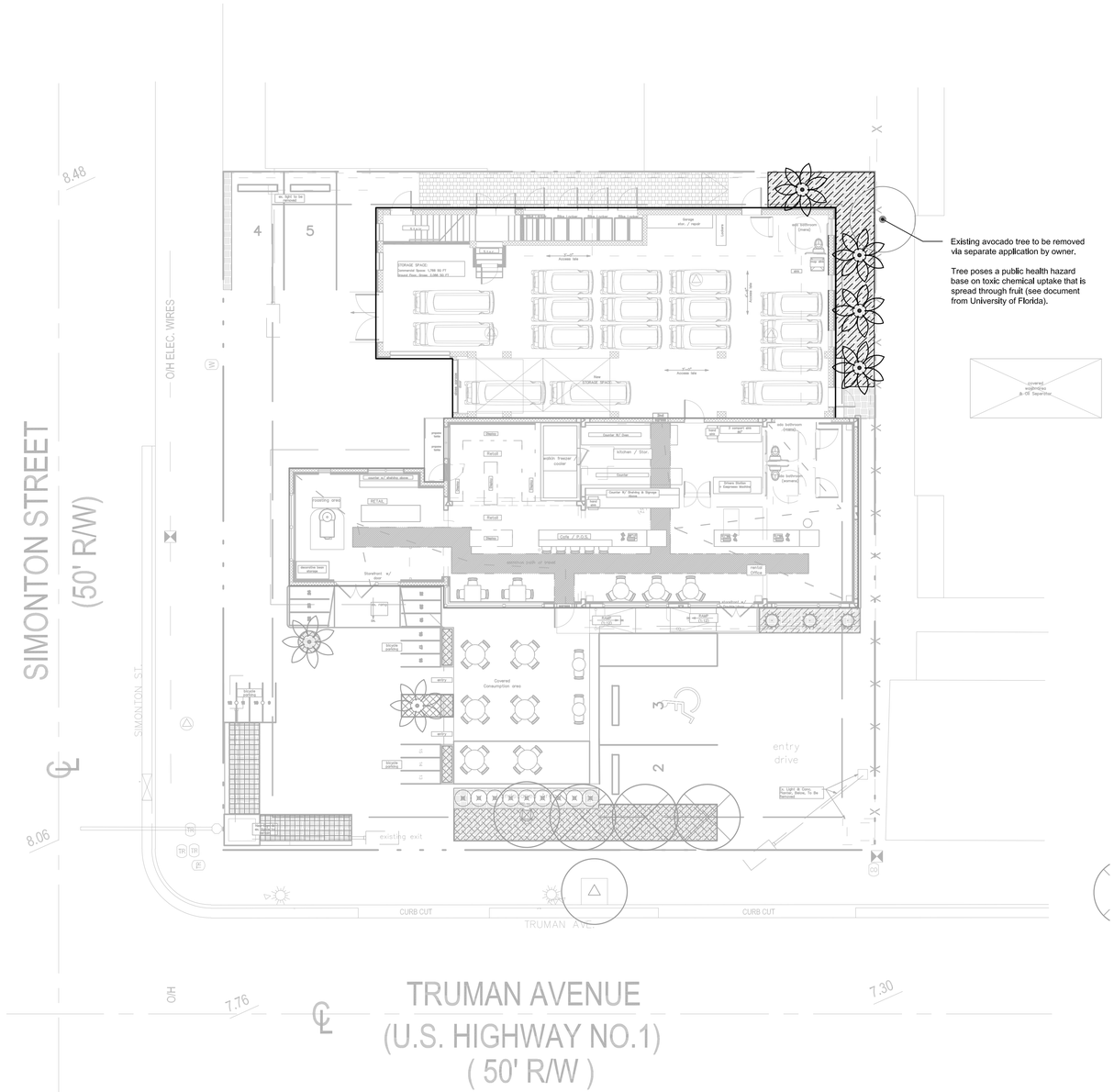
PHASE 1: LANDSCAPE PLAN

SHEET NUMBER

L1.01

SHEET **OF**

Filename: C:\USERS\MARIAN\ONEDRIVE - OA CONSULTANTS, INC\DOCS\PROJECTS\GROPEZA\TRUMAN 601\TRM601 LAND PH1.DWG
Last Modified by: MAN_MARIAN
Last Plotted date: 3/10/2022 11:49 AM



PLANT SCHEDULE							
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	
	PE	4	Ptychosperma elegans	Alexander Palm	F.G.	14` C.T.	
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	ZP	59	Zamia pumila	Coontie	3 GAL.	18"-24" OA.	24" o.c.

phase 2 landscape area= 239 sq.ft.

NOT FOR CONSTRUCTION

PROJECT

A RENOVATION FOR 601 TRUMAN AVE

601 TRUMAN AVE & 919 SIMONTON ST
KEY WEST, FL 33040

CLIENT/OWNER

VENTER ENTERPRISE, LLC
MARIUS VENTER

608 GRIFFIN LANE
KEY WEST, FL 33040

REGISTRATION

ISSUED FOR:

ISSUANCE	DD MMM YY

PROJECT NUMBER XXXXX.X

DATE: 11.11.2021

SCALE: 1"-10'-0"

DRAWN BY: IM

CHECKED BY: KO

DRAWING SCALE AND NORTH ARROW

GRAPHIC SCALE NORTH

SHEET TITLE

PHASE 2: LANDSCAPE PLAN

SHEET NUMBER

L1.02

SHEET **OF**

Filename: C:\USERS\MARIAN\ONEDRIVE - OA CONSULTANTS, INC\DOCS\PROJECTS\GROPECA\TRUMAN 601\TRMN01 LAND PHZ.DWG
Last Modified by: MAN MARIANN
Last Plotted date: 3/10/2022 2:29 PM

Traffic Statement

KBP CONSULTING, INC.

October 25, 2021

Mr. Thomas Francis-Siburg, MSW, MURP, AICP
Planner / Development Specialist
Trepanier & Associates, Inc.
1421 First Street
Key West, Florida 33040-3648

Re: Moped Hospital / Cuban Coffee Queen
601 Truman Avenue, Key West, Florida
Traffic Statement

Dear Thomas:

The Moped Hospital is an existing moped, golf cart, and bicycle rental, sales, service / repair and manufacturing business located in the northern quadrant of the intersection at Simonton Street and Truman Avenue in Key West, Monroe County, Florida. More specifically, the subject site is located at 601 Truman Avenue. This project seeks to reduce the intensity of the existing operations at this site and create a coffee shop and employee housing.

The existing operations on the site are licensed for 177 mopeds, 50 golf carts, and 150 bicycles. In addition, the site has 1,440 square feet of retail / service area and 2,855 square feet of storage / warehousing area. The proposed operations will be implemented in two (2) phases. Phase 1 will include the addition of the coffee shop (Cuban Coffee Queen) with a floor area of approximately 2,177 square feet, a reduction in the in the number of mopeds from 177 to 127, an increase in the number of golf carts from 50 to 100, and a decrease in the number of bicycles from 150 to 63. In addition, the retail / service area will be reduced to 315 square feet and the storage / warehousing area will be reduced to 1,768 square feet. Phase 2 will involve the reduction in the number of bicycles to 56, an increase in the retail / service area to 362 square feet, an increase of the storage / warehousing area to 2,849 square feet, and the addition of four (4) affordable residential units. The floor plans for this development are presented in Attachment A. The purpose of this traffic statement is to document the anticipated traffic impacts associated with these proposed actions.

Trip Generation Analysis – Cuban Coffee Queen

In order to estimate the trip generation characteristics of the proposed Cuban Coffee Queen, traffic counts were performed at another Cuban Coffee Queen store in Key West. The location chosen was their 5 Key Lime Square store which is their busiest store and has the largest number of seats and retail area. (The store area at this location is approximately 2,397 square feet.) The counts were collected on their busiest days of the week (Friday, Saturday and Sunday) during the peak season (3/19/21 – 3/21/21). During each of these days, the number of customers arriving in 30-minute intervals was documented according to their mode of transportation (i.e. automobile, moped, bicycle, or walking). The results of this data collection effort are presented in Attachment B.

For the purposes of this analysis, the number of customers arriving by automobile and moped have been highlighted due to the fact that these modes consume roadway capacity whereas bicyclists and pedestrians generally do not. Over the three-day survey period, the average number of customers arriving by automobile was 19 and the average number of customers arriving by moped was 31. (It is acknowledged that more than one customer may have arrived in/on one vehicle; however, in order to present a

conservative analysis each automobile customer was assumed to have arrived in/on one vehicle without any other passengers.) The results of this analysis indicate that, on a typical day, approximately 50 customers arrive at this Cuban Coffee Queen by automobile or moped.

Given that each customer generates two (2) trips per visit (i.e. an entering trip and an exiting trip), this site generates on average 100 vehicle trips per day. During the morning, the number of customers arriving by automobile or moped in the peak hour is 11, or 22 trips. The number of customers in the PM peak hour is five (5), or 10 trips. Since trips for this type of land use are typically based upon the building area, an adjustment for the proposed store size is appropriate. As mentioned previously, the proposed floor area for this use is 2,177 square feet and the size of the store at 5 Key Lime Square is 2,397 square feet. As a result, the estimated number of trips for the proposed location is estimated to be approximately 91% of that observed at the existing location. This adjustment yields 91 daily vehicle trips, 20 AM peak hour vehicle trips, and nine (9) PM peak hour vehicle trips.

Trip Generation Analysis – Moped Hospital

As noted previously, the proposed modifications to the operating characteristics of the Moped Hospital involve a reduction of 50 mopeds (from 177 to 127) and an increase of 50 golf carts (from 50 to 100). The net effect on roadway capacity of a reduction of 50 mopeds and an increase of 50 golf carts is essentially zero. There will be a significant reduction in the number of bicycles at this location (currently 150 and 56 at Phase 2); however, this reduction will have little impact on roadway capacity in the area. As mentioned previously, there is a net zero impact on roadway capacity of the existing and proposed operating characteristics of the Moped Hospital.

Trip Generation Analysis – Residential Units

Four (4) affordable residential dwelling units will be included as part of the Phase 2 redevelopment of the Moped Hospital site. Per Sec. 122-1470 of the City of Key West Code of Ordinances, bicycle and scooter / moped parking can be provided for infill / affordable housing units in lieu of providing automobile parking. Given that these proposed residential units will comply with this parking alternative, it is evident that the number of traditional vehicle trips to be generated will be less than residential units with automobile parking.

According to the Institute of Transportation Engineers (ITE) *Trip Generation Manual (11th Edition)*, low-rise multifamily housing units generate approximately 6.74 trips per dwelling unit on a weekday. The AM and PM peak hour trip generation rates are 0.40 and 0.51 trips per dwelling unit, respectively. With the aforementioned absence of automobile parking associated with these proposed dwelling units, it appears reasonable to assume that very few trips will be generated by these units. However, in order to present a conservative analysis, a trip reduction of 50% is believed to be more than reasonable. As such, the number of trips to be generated by the four (4) dwelling units is 14 weekday trips, one (1) AM peak hour trip, and one (1) PM peak hour trip.

Trip Generation Analysis – Retail / Service Area

According to the Institute of Transportation Engineers (ITE) *Trip Generation Manual (11th Edition)*, retail space (<40k square feet) generates approximately 54.45 trips per 1,000 square feet on a weekday. The AM and PM peak hour trip generation rates are 2.36 and 6.59 trips per 1,000 square feet, respectively. Given the reduction in floor area from 1,440 square feet to 362 square feet, the number of daily trips is expected to be reduced by 59 trips and the number of AM and PM peak hour trips is expected to be reduced by three (3) and seven (7) trips, respectively.

Trip Generation Analysis – Storage / Warehousing Area

According to the Institute of Transportation Engineers (ITE) *Trip Generation Manual (11th Edition)*, warehousing space generates approximately 1.71 trips per 1,000 square feet on a weekday. The AM and PM peak hour trip generation rates are 0.17 and 0.18 trips per 1,000 square feet, respectively. Given the that the floor area for this use will ultimate be almost equivalent (i.e. 2,855 square feet of existing area and 2,849 square feet of proposed floor area at Phase 2) the number of trips will be roughly equivalent.

Traffic Impacts

In accordance with Sec. 18-358 of the City's Code of Ordinances, the traffic impacts associated with the proposed coffee shop and affordable residential units to be co-located with the Moped Hospital must be addressed. More specifically, insignificant (or "de minimis") impacts are defined as those that constitute an impact of less than three percent (3.0%) of the capacity on the local transportation network.

Based upon the location of the existing development and the proposed land uses, it is expected that the vehicles associated with the coffee shop and affordable dwelling units will arrive by and depart throughout the City's street grid network in a variety of directions as to minimize their impacts to any single roadway or intersection. However, for the purposes of this analysis, our focus is on both Simonton Street and Truman Avenue. For the purposes of this analysis, it has been assumed that the new site traffic will equally distribute to both Simonton Street and Truman Avenue.

Therefore, it is estimated that up to 23 net new daily vehicle trips, nine (9) net new AM peak hour vehicle trips and up to two (2) net new PM peak hour vehicle trips will impact both of these roadways.

Capacity Analyses

The Florida Department of Transportation (FDOT) maintains a traffic count station (#908112) on Simonton Street approximately 200 feet to the southeast of Petronia Street which is approximately 500 feet to the northwest of the subject site. The most recent annual traffic counts for this station indicate that there are approximately 5,300 vehicles on this roadway segment on a daily basis. Based upon the published K-Factor (peak-to-daily percentage) of 9.00, the peak hour traffic volume at this location is estimated to be approximately 477 vehicles.

The FDOT also maintains a traffic count station (#905011) on Truman Avenue approximately 200 feet east of Duval Street which is roughly 300 feet west of the subject site. The most recent annual traffic counts for this station indicate that there are approximately 11,900 vehicles on this roadway segment on a daily basis. Based upon the published synopsis reports published by the FDOT, the AM peak hour traffic volume at this location is approximately 690 vehicles and the PM peak hour traffic volume at this location is approximately 845. The traffic count data for both of these count stations is presented in Attachment C to this memorandum.

According to the FDOT's 2020 Quality / Level of Service Handbook, in urbanized areas two-lane undivided, class II (35 miles per hour or slower posted speed limit), state roadways without exclusive turn lanes have a daily capacity of approximately 11,840 vehicles and a peak hour capacity of approximately 1,064 vehicles. These capacities apply to Truman Avenue. For non-state roadways without exclusive turn lanes the daily capacity is approximately 10,360 vehicles and the peak hour capacity is approximately 930 vehicles. These capacities apply to Simonton Street. Please see Attachment D for the referenced level of service thresholds. The daily and peak hour traffic impacts to the adjacent roadway segments are summarized in Table 1 below.

Table 1
Moped Hospital / Cuban Coffee Queen
Traffic Impacts
601 Truman Avenue - Key West, Florida

Roadway	Daily			Peak Hour		
	Capacity	Project Traffic	% Impact	Capacity	Project Traffic	% Impact
Truman Avenue (SR 5/ US 1) - W of Simonton Street	11,840	23	0.19%	1,064	9	0.85%
Truman Avenue (SR 5/ US 1) - E of Simonton Street	11,840	23	0.19%	1,064	9	0.85%
Simonton Street - N of Truman Avenue	10,360	23	0.22%	930	9	0.97%
Simonton Street - S of Truman Avenue	10,360	23	0.22%	930	9	0.97%

As indicated in Table 1 above, the projected daily and peak hour vehicle trips associated with the proposed coffee shop and affordable dwelling units are substantially less than the 3.0% significance thresholds on each of the directly impacted roadway segments adjacent to the site. Therefore, these volumes will not constitute a significant impact on the local street network.

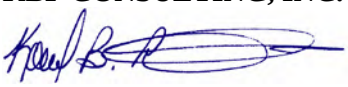
Conclusions

Based upon the foregoing analysis and assessment of the traffic operations associated with the proposed Cuban Coffee Queen and the affordable residential dwelling units to be co-located with the existing Moped Hospital at Truman Avenue and Simonton Street in Key West, it is evident that the resulting daily and peak hour traffic can be accommodated within the City's 3.0% traffic impact threshold on the directly impacted roadways.

If you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

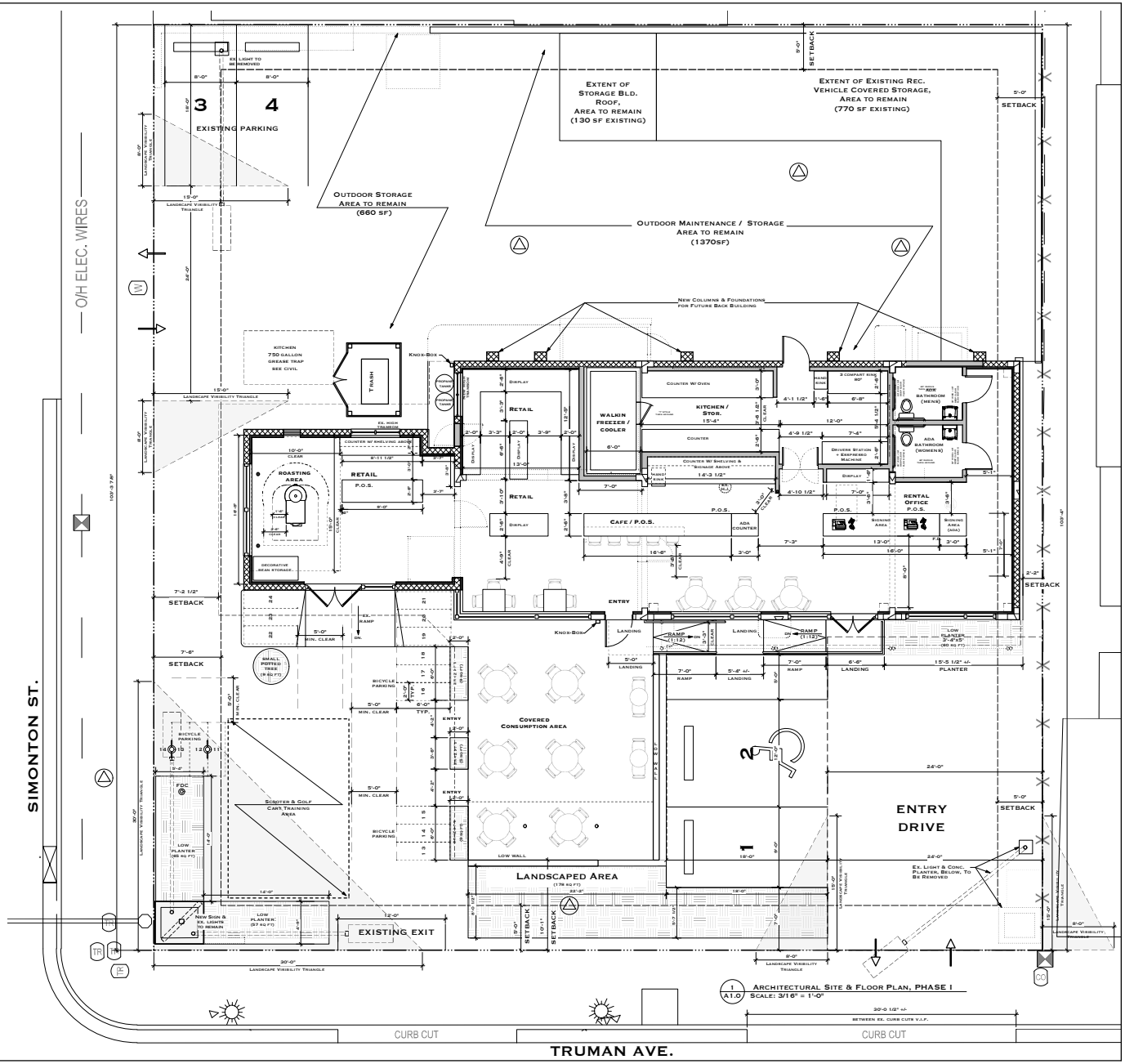
KBP CONSULTING, INC.



Karl B. Peterson, P.E.
Senior Transportation Engineer

Attachment A

Floor Plans



T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, FL 33040

DRAWING TITLE:
ARCHITECTURAL SITE PLAN & FLOOR PLAN, PHASE I

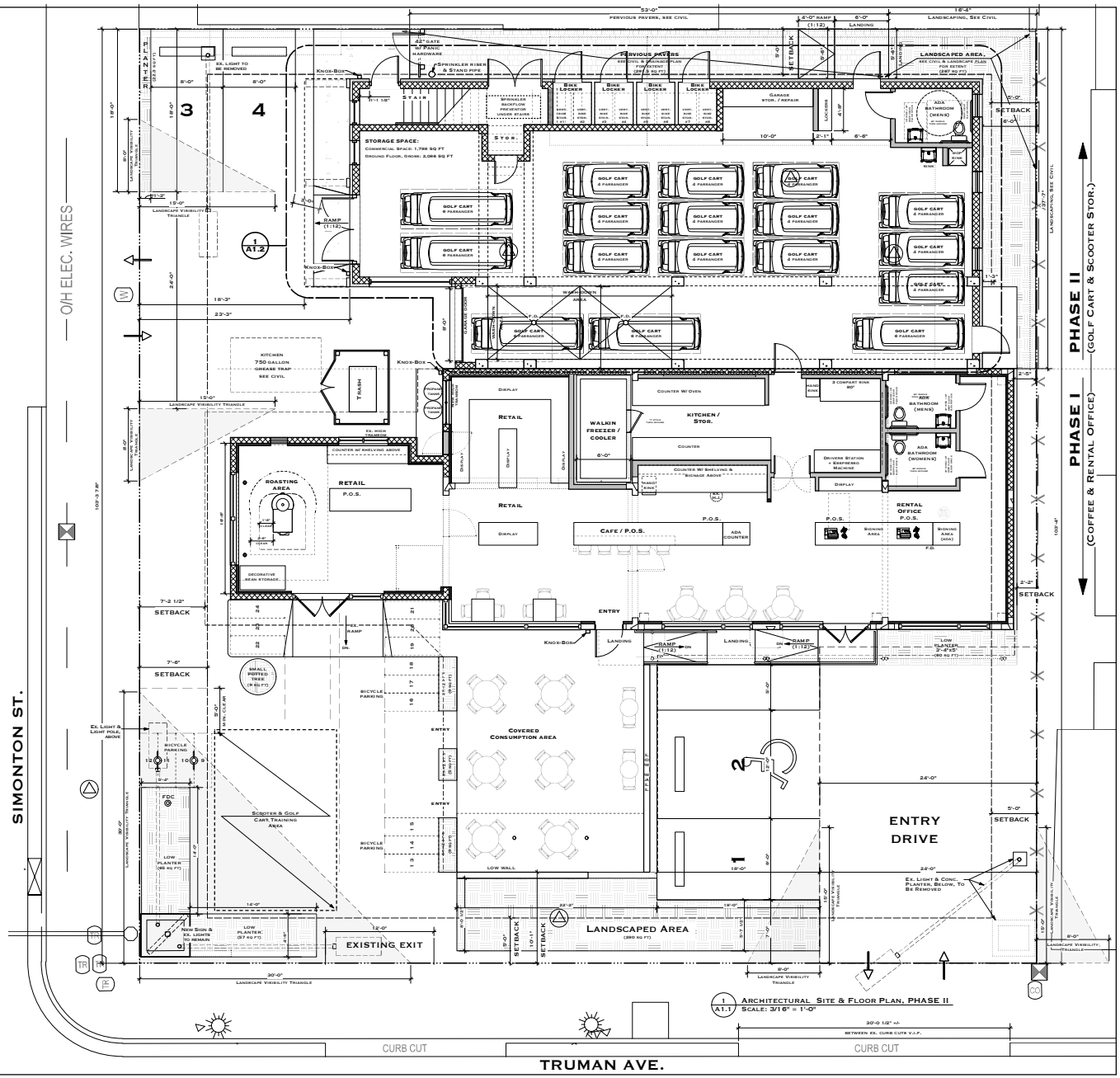
DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

A1.0
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505



1 A1.1 Architectural Site & Floor Plan, Phase II
Scale: 3/16" = 1'-0"

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, FL 33040

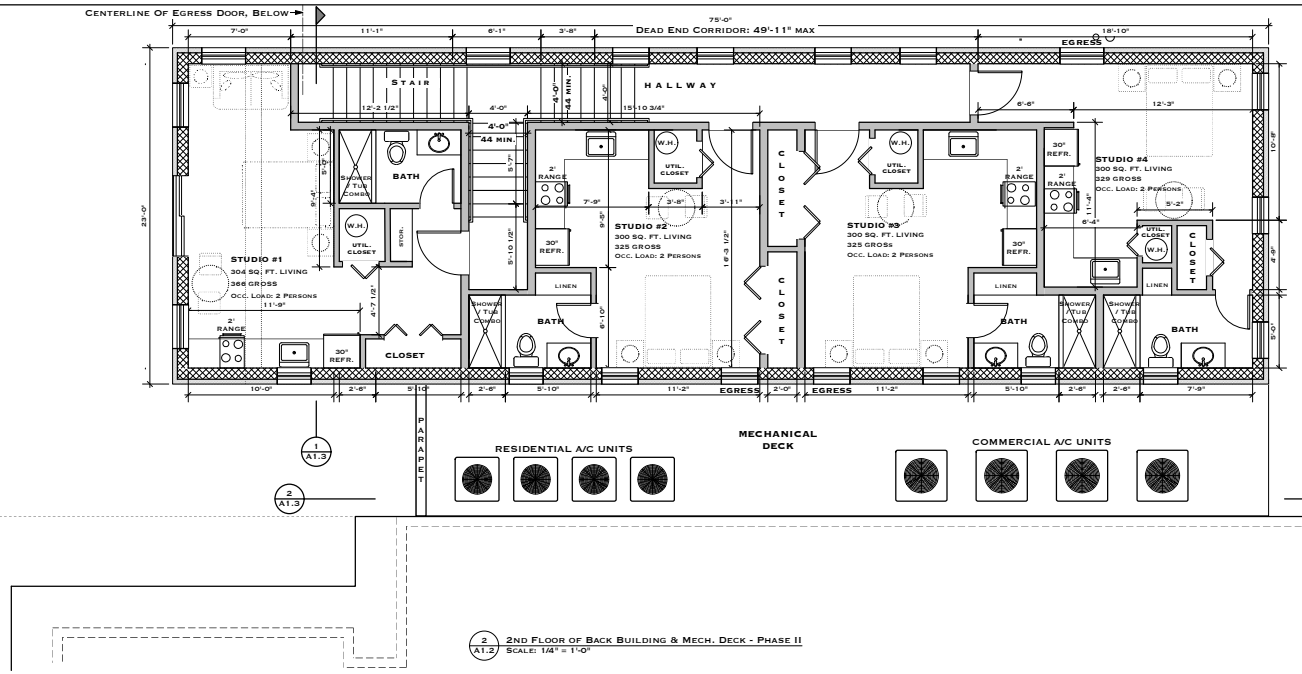
DRAWING TITLE:
ARCHITECTURAL SITE PLAN & FLOOR PLAN, PHASE II

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

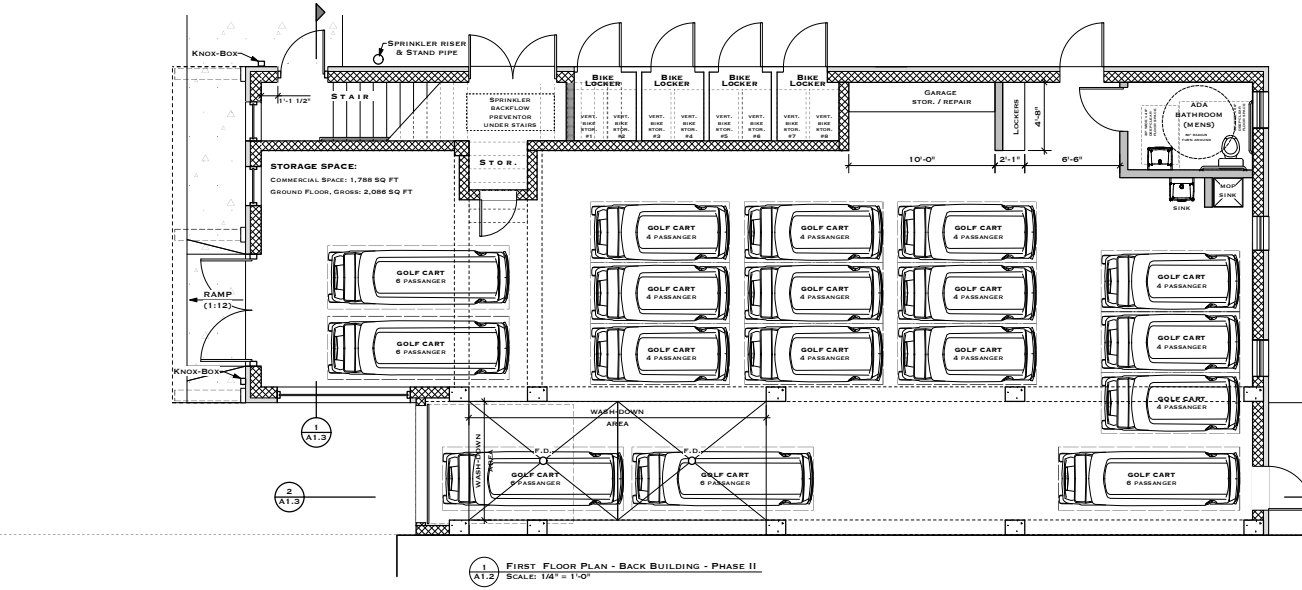
REVISION #	DATE

A1.1
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC



2 A1.2 2ND FLOOR OF BACK BUILDING & MECH. DECK - PHASE II
SCALE: 1/4" = 1'-0"



1 A1.2 FIRST FLOOR PLAN - BACK BUILDING - PHASE II
SCALE: 1/4" = 1'-0"

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,F L 33040

DRAWING TITLE:
BACK BUILDING - FIRST FLOOR & SECOND FLOOR PLANS - PHASEII

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

A1.2
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC

Attachment B

Cuban Coffee Queen – 5 Key Lime Square

Customer Data

Cuban Coffee Queen
Traffic Counts
5 Key Lime Square - Key West, Florida

Period		Friday, 3/19/2021				Saturday, 3/20/2021				Sunday, 3/21/2021				Total Count					Daily Average				
Start	End	Auto	Scooter	Bike	Walk	Auto	Scooter	Bike	Walk	Auto	Scooter	Bike	Walk	Auto	Scooter	Bike	Walk	Total	Auto	Scooter	Bike	Walk	Total
Open	7:30 AM	0	0	4	6	0	0	2	6	0	0	0	3	0	0	6	15	21	0.0	0.0	2.0	5.0	7.0
7:30 AM	8:00 AM	0	0	3	4	0	0	0	5	0	0	0	4	0	0	3	13	16	0.0	0.0	1.0	4.3	5.3
8:00 AM	8:30 AM	1	3	5	15	1	9	5	29	0	2	2	14	2	14	12	58	86	0.7	4.7	4.0	19.3	28.7
8:30 AM	9:00 AM	3	4	20	34	2	2	15	46	0	6	8	56	5	12	43	136	196	1.7	4.0	14.3	45.3	65.3
9:00 AM	9:30 AM	2	7	22	27	1	4	11	39	2	1	10	55	5	12	43	121	181	1.7	4.0	14.3	40.3	60.3
9:30 AM	10:00 AM	4	8	12	39	2	0	13	53	1	1	6	41	7	9	31	133	180	2.3	3.0	10.3	44.3	60.0
10:00 AM	10:30 AM	4	0	15	35	2	1	9	45	2	1	7	52	8	2	31	132	173	2.7	0.7	10.3	44.0	57.7
10:30 AM	11:00 AM	2	3	17	33	1	4	8	36	1	2	8	45	4	9	33	114	160	1.3	3.0	11.0	38.0	53.3
11:00 AM	11:30 AM	1	0	10	25	0	2	6	34	2	2	8	30	3	4	24	89	120	1.0	1.3	8.0	29.7	40.0
11:30 AM	12:00 PM	2	2	4	20	0	4	4	27	1	1	5	29	3	7	13	76	99	1.0	2.3	4.3	25.3	33.0
12:00 PM	12:30 PM	2	3	5	22	2	2	12	42	1	0	8	22	5	5	25	86	121	1.7	1.7	8.3	28.7	40.3
12:30 PM	1:00 PM	2	4	4	15	0	0	12	28	0	0	4	14	2	4	20	57	83	0.7	1.3	6.7	19.0	27.7
1:00 PM	1:30 PM	1	0	2	18	0	3	6	25	1	0	4	22	2	3	12	65	82	0.7	1.0	4.0	21.7	27.3
1:30 PM	2:00 PM	1	0	3	12	1	2	1	11	0	0	1	6	2	2	5	29	38	0.7	0.7	1.7	9.7	12.7
2:00 PM	2:30 PM	1	1	8	20	1	0	4	9	0	0	2	7	2	1	14	36	53	0.7	0.3	4.7	12.0	17.7
2:30 PM	3:00 PM	1	2	4	26	1	0	0	14	1	1	0	4	3	3	4	44	54	1.0	1.0	1.3	14.7	18.0
3:00 PM	3:30 PM	0	1	2	4	0	0	0	4	0	0	2	11	0	1	4	19	24	0.0	0.3	1.3	6.3	8.0
3:30 PM	4:00 PM	0	0	3	9	0	0	2	7	0	1	3	4	0	1	8	20	29	0.0	0.3	2.7	6.7	9.7
4:00 PM	4:30 PM	1	0	0	6	0	0	2	11	0	2	1	20	1	2	3	37	43	0.3	0.7	1.0	12.3	14.3
4:30 PM	5:00 PM	0	0	1	11	0	0	0	7	0	0	1	4	0	0	2	22	24	0.0	0.0	0.7	7.3	8.0
5:00 PM	5:30 PM	0	1	0	8	0	2	0	10	0	0	0	4	0	3	0	22	25	0.0	1.0	0.0	7.3	8.3
5:30 PM	6:00 PM	1	0	0	4	0	0	0	5	0	0	1	11	1	0	1	20	22	0.3	0.0	0.3	6.7	7.3
6:00 PM	6:30 PM	0	0	4	4	0	0	0	11	0	0	2	9	0	0	6	24	30	0.0	0.0	2.0	8.0	10.0
6:30 PM	Close	1	0	0	6	0	0	0	10	0	0	0	6	1	0	0	22	23	0.3	0.0	0.0	7.3	7.7
Total		**30**	**39**	**148**	**403**	**14**	**35**	**112**	**514**	**12**	**20**	**83**	**473**	**56**	**94**	**343**	**1390**	**1883**	**19**	**31**	**114**	**463**	**628**

Attachment C

FDOT Traffic Data

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2019 HISTORICAL AADT REPORT

COUNTY: 90 - MONROE

SITE: 8112 - SIMONTON ST, 200' SOUTH OFPETRONIA ST (2011 OFF SYSTEM CYCLE)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2019	5300 T	N 2700	S 2600	9.00	54.70	4.70
2018	5300 S	N 2700	S 2600	9.00	55.10	6.60
2017	5300 F	N 2700	S 2600	9.00	53.90	4.70
2016	5300 C	N 2700	S 2600	9.00	54.90	8.80
2015	6600 T	0	0	9.00	54.30	8.10
2014	6300 S			9.00	55.20	3.80
2013	6200 F	0	0	9.00	54.80	7.30
2012	6100 C	N 0	S 0	9.00	55.00	8.20

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2019 HISTORICAL AADT REPORT

COUNTY: 90 - MONROE

SITE: 5011 - SR 5/US-1/TRUMAN AV, 200' E DUVAL ST

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2019	11900 C	W 5800	E 6100	9.00	54.70	3.60
2018	11200 C	W 5700	E 5500	9.00	55.10	6.60
2017	9300 C	W 4800	E 4500	9.00	53.90	4.70
2016	9100 C	W 4300	E 4800	9.00	54.90	8.80
2015	10200 C	W 5500	E 4700	9.00	54.30	8.10
2014	9300 C	W 4600	E 4700	9.00	55.20	3.80
2013	8500 C	W 4600	E 3900	9.00	54.80	7.30
2012	8100 C	W 4000	E 4100	9.00	55.00	8.20
2011	9000 C	W 4500	E 4500	9.00	55.10	8.30
2010	9700 C	W 4800	E 4900	10.26	56.84	10.30
2009	9300 C	W 4300	E 5000	10.23	56.56	8.40
2008	8600 C	N 4400	S 4200	10.45	54.98	8.60
2007	8600 C	N 4600	S 4000	10.00	55.10	9.80
2006	7600 C	N 3700	S 3900	10.08	55.69	12.30
2005	8200 C	N 4300	S 3900	10.40	55.70	5.50
2004	10400 C	N 5000	S 5400	10.00	56.00	3.10

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

COUNTY: 90
STATION: 5011
DESCRIPTION: SR 5/US-1/TRUMAN AV, 200' E DUVAL ST
START DATE: 08/13/2019
START TIME: 0000

	DIRECTION: E					DIRECTION: W					COMBINED
TIME	1ST	2ND	3RD	4TH	TOTAL	1ST	2ND	3RD	4TH	TOTAL	TOTAL
0000	35	28	22	16	101	17	18	15	12	62	163
0100	25	15	15	11	66	11	11	9	9	40	106
0200	15	14	11	11	51	10	10	7	6	33	84
0300	4	10	12	6	32	3	4	4	8	19	51
0400	13	14	8	12	47	9	4	5	7	25	72
0500	8	8	18	16	50	13	13	17	17	60	110
0600	14	20	32	37	103	19	30	53	66	168	271
0700	49	43	54	53	199	61	73	78	87	299	498
0800	60	81	70	78	289	83	93	86	74	336	625
0900	77	77	78	68	300	65	70	81	67	283	583
1000	80	64	61	87	292	81	73	83	83	320	612
1100	87	85	80	86	338	86	83	87	78	334	672
1200	106	88	89	98	381	79	95	93	82	349	730
1300	88	71	100	99	358	101	92	79	98	370	728
1400	84	86	83	84	337	80	78	79	83	320	657
1500	103	104	115	112	434	93	88	80	94	355	789
1600	107	113	99	108	427	70	77	88	98	333	760
1700	124	110	84	92	410	92	89	94	83	358	768
1800	88	80	94	79	341	94	81	88	69	332	673
1900	75	74	64	73	286	82	89	67	65	303	589
2000	65	81	69	69	284	51	60	68	66	245	529
2100	67	55	64	54	240	51	47	45	36	179	419
2200	56	54	53	46	209	45	30	29	27	131	340
2300	37	45	37	33	152	28	38	18	26	110	262
24-HOUR TOTALS:					5727					5364	11091

PEAK VOLUME INFORMATION

	DIRECTION: E		DIRECTION: W		COMBINED DIRECTIONS	
	HOUR	VOLUME	HOUR	VOLUME	HOUR	VOLUME
A.M.	845	310	745	349	800	625
P.M.	1530	447	1645	373	1630	808
DAILY	1530	447	1645	373	1630	808

TRUCK PERCENTAGE 4.19 3.30 3.76

CLASSIFICATION SUMMARY DATABASE

DIR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTTRK	TOTVOL
E	336	4358	793	33	157	21	1	28	0	0	0	0	0	0	0	240	5727
W	361	4111	715	14	105	25	1	29	3	0	0	0	0	0	0	177	5364

GENERATED BY SPS 5.0.49P

COUNTY: 90
STATION: 5011
DESCRIPTION: SR 5/US-1/TRUMAN AV, 200' E DUVAL ST
START DATE: 08/14/2019
START TIME: 0000

	DIRECTION: E					DIRECTION: W					COMBINED
TIME	1ST	2ND	3RD	4TH	TOTAL	1ST	2ND	3RD	4TH	TOTAL	TOTAL
0000	29	18	16	22	85	20	12	13	12	57	142
0100	15	12	8	8	43	9	5	11	11	36	79
0200	14	8	11	6	39	11	4	6	6	27	66
0300	9	8	4	10	31	6	5	4	5	20	51
0400	14	12	11	6	43	7	7	4	7	25	68
0500	5	14	25	24	68	11	9	14	16	50	118
0600	22	17	31	47	117	24	34	44	62	164	281
0700	39	60	68	90	257	66	94	122	101	383	640
0800	92	76	69	72	309	89	75	95	98	357	666
0900	68	56	70	77	271	90	82	73	98	343	614
1000	74	74	78	76	302	74	77	84	88	323	625
1100	80	87	97	93	357	99	96	77	95	367	724
1200	95	87	90	85	357	87	102	83	96	368	725
1300	100	93	96	82	371	89	92	93	85	359	730
1400	85	83	86	98	352	80	100	102	93	375	727
1500	107	116	120	119	462	90	94	86	81	351	813
1600	116	106	115	117	454	84	98	100	88	370	824
1700	127	120	102	89	438	96	81	74	88	339	777
1800	87	74	88	69	318	79	70	87	76	312	630
1900	65	63	53	65	246	82	65	56	74	277	523
2000	77	68	75	61	281	78	68	54	59	259	540
2100	63	53	60	52	228	53	53	46	48	200	428
2200	77	48	51	48	224	43	35	29	34	141	365
2300	39	36	44	27	146	38	33	30	20	121	267
24-HOUR TOTALS:					5799					5624	11423

PEAK VOLUME INFORMATION

	DIRECTION: E		DIRECTION: W		COMBINED DIRECTIONS	
	HOUR	VOLUME	HOUR	VOLUME	HOUR	VOLUME
A.M.	745	327	715	406	715	716
P.M.	1630	479	1415	385	1615	847
DAILY	1630	479	715	406	1615	847

TRUCK PERCENTAGE 4.10 3.00 3.56

CLASSIFICATION SUMMARY DATABASE

DIR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTTRK	TOTVOL
E	344	4388	829	44	145	20	0	28	1	0	0	0	0	0	0	238	5799
W	390	4285	780	12	121	11	1	23	1	0	0	0	0	0	0	169	5624

GENERATED BY SPS 5.0.49P

COUNTY: 90
STATION: 5011
DESCRIPTION: SR 5/US-1/TRUMAN AV, 200' E DUVAL ST
START DATE: 08/15/2019
START TIME: 0000

	DIRECTION: E					DIRECTION: W					COMBINED
TIME	1ST	2ND	3RD	4TH	TOTAL	1ST	2ND	3RD	4TH	TOTAL	TOTAL
0000	37	22	17	21	97	11	12	17	10	50	147
0100	22	12	11	12	57	8	14	10	6	38	95
0200	10	10	13	13	46	14	9	4	9	36	82
0300	10	14	10	10	44	6	10	5	9	30	74
0400	12	8	11	9	40	6	6	3	7	22	62
0500	10	11	18	15	54	15	9	9	17	50	104
0600	19	26	28	41	114	24	29	48	64	165	279
0700	43	51	83	89	266	54	89	104	125	372	638
0800	73	77	64	79	293	88	90	87	94	359	652
0900	73	63	79	67	282	75	79	72	89	315	597
1000	93	86	75	77	331	76	86	78	86	326	657
1100	114	86	102	101	403	84	100	87	91	362	765
1200	82	99	100	75	356	104	98	91	101	394	750
1300	79	92	89	95	355	91	99	91	89	370	725
1400	93	85	94	112	384	67	75	106	79	327	711
1500	120	92	103	88	403	93	94	76	95	358	761
1600	111	119	95	127	452	106	72	106	102	386	838
1700	120	114	82	75	391	98	118	79	81	376	767
1800	98	86	85	69	338	87	95	76	72	330	668
1900	81	93	80	56	310	83	86	81	74	324	634
2000	70	75	62	78	285	58	75	56	60	249	534
2100	63	69	64	64	260	55	55	48	42	200	460
2200	54	63	59	45	221	48	42	37	32	159	380
2300	55	46	48	39	188	30	25	29	14	98	286
24-HOUR TOTALS:					5970					5696	11666

PEAK VOLUME INFORMATION

	DIRECTION: E		DIRECTION: W		COMBINED DIRECTIONS	
	HOUR	VOLUME	HOUR	VOLUME	HOUR	VOLUME
A.M.	730	322	730	407	730	729
P.M.	1615	461	1630	424	1630	880
DAILY	1615	461	1630	424	1630	880

TRUCK PERCENTAGE 3.95 3.25 3.61

CLASSIFICATION SUMMARY DATABASE

DIR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTTRK	TOTVOL
E	343	4506	885	37	153	14	2	27	2	1	0	0	0	0	0	236	5970
W	362	4361	788	18	132	12	2	19	2	0	0	0	0	0	0	185	5696

GENERATED BY SPS 5.0.49P

Attachment D

FDOT Level of Service Tables

TABLE 1

Generalized **Annual Average Daily** Volumes for Florida's Urbanized Areas

January 2020

INTERRUPTED FLOW FACILITIES

STATE SIGNALIZED ARTERIALS

Class I (40 mph or higher posted speed limit)

Lanes	Median	B	C	D	E
2	Undivided	*	16,800	17,700	**
4	Divided	*	37,900	39,800	**
6	Divided	*	58,400	59,900	**
8	Divided	*	78,800	80,100	**

Class II (35 mph or slower posted speed limit)

Lanes	Median	B	C	D	E
2	Undivided	*	7,300	14,800	15,600
4	Divided	*	14,500	32,400	33,800
6	Divided	*	23,300	50,000	50,900
8	Divided	*	32,000	67,300	68,100

Non-State Signalized Roadway Adjustments

(Alter corresponding state volumes by the indicated percent.)

Non-State Signalized Roadways - 10%

Median & Turn Lane Adjustments

Lanes	Median	Exclusive Left Lanes	Exclusive Right Lanes	Adjustment Factors
2	Divided	Yes	No	+5%
2	Undivided	No	No	-20%
Multi	Undivided	Yes	No	-5%
Multi	Undivided	No	No	-25%
–	–	–	Yes	+ 5%

One-Way Facility Adjustment

Multiply the corresponding two-directional volumes in this table by 0.6

BICYCLE MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

Paved Shoulder/Bicycle Lane Coverage	B	C	D	E
0-49%	*	2,900	7,600	19,700
50-84%	2,100	6,700	19,700	>19,700
85-100%	9,300	19,700	>19,700	**

PEDESTRIAN MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

Sidewalk Coverage	B	C	D	E
0-49%	*	*	2,800	9,500
50-84%	*	1,600	8,700	15,800
85-100%	3,800	10,700	17,400	>19,700

BUS MODE (Scheduled Fixed Route)[3]

(Buses in peak hour in peak direction)

Sidewalk Coverage	B	C	D	E
0-84%	> 5	≥ 4	≥ 3	≥ 2
85-100%	> 4	≥ 3	≥ 2	≥ 1

UNINTERRUPTED FLOW FACILITIES

FREEWAYS

Core Urbanized

Lanes	B	C	D	E
4	47,600	66,400	83,200	87,300
6	70,100	97,800	123,600	131,200
8	92,200	128,900	164,200	174,700
10	115,300	158,900	203,600	218,600
12	136,500	192,400	246,200	272,900

Urbanized

Lanes	B	C	D	E
4	45,900	62,700	75,600	85,400
6	68,900	93,900	113,600	128,100
8	91,900	125,200	151,300	170,900
10	115,000	156,800	189,300	213,600

Freeway Adjustments

Auxiliary Lanes Present in Both Directions	Ramp Metering
+ 20,000	+ 5%

UNINTERRUPTED FLOW HIGHWAYS

Lanes	Median	B	C	D	E
2	Undivided	11,700	18,000	24,200	32,600
4	Divided	36,300	52,600	66,200	75,300
6	Divided	54,600	78,800	99,400	113,100

Uninterrupted Flow Highway Adjustments

Lanes	Median	Exclusive left lanes	Adjustment factors
2	Divided	Yes	+5%
Multi	Undivided	Yes	-5%
Multi	Undivided	No	-25%

[1]Values shown are presented as two-way annual average daily volumes for levels of service and are for the automobile/truck modes unless specifically stated. This table does not constitute a standard and should be used only for general planning applications. The computer models from which this table is derived should be used for more specific planning applications. The table and deriving computer models should not be used for corridor or intersection design, where more refined techniques exist. Calculations are based on planning applications of the HCM and the Transit Capacity and Quality of Service Manual.

[2] Level of service for the bicycle and pedestrian modes in this table is based on number of vehicles, not number of bicyclists or pedestrians using the facility.

[3] Buses per hour shown are only for the peak hour in the single direction of the higher traffic flow.

* Cannot be achieved using table input value defaults.

** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached. For the bicycle mode, the level of service letter grade (including F) is not achievable because there is no maximum vehicle volume threshold using table input value defaults.

Source:
Florida Department of Transportation
Systems Implementation Office
https://www.fdot.gov/planning/systems/

TABLE 4

Generalized **Peak Hour Two-Way** Volumes for Florida's Urbanized Areas[1]

January 2020

INTERRUPTED FLOW FACILITIES

STATE SIGNALIZED ARTERIALS

Class I (40 mph or higher posted speed limit)

Lanes	Median	B	C	D	E
2	Undivided	*	1,510	1,600	**
4	Divided	*	3,420	3,580	**
6	Divided	*	5,250	5,390	**
8	Divided	*	7,090	7,210	**

Class II (35 mph or slower posted speed limit)

Lanes	Median	B	C	D	E
2	Undivided	*	660	1,330	1,410
4	Divided	*	1,310	2,920	3,040
6	Divided	*	2,090	4,500	4,590
8	Divided	*	2,880	6,060	6,130

Non-State Signalized Roadway Adjustments

(Alter corresponding state volumes by the indicated percent.)

Non-State Signalized Roadways - 10%

Median & Turn Lane Adjustments

Lanes	Median	Exclusive Left Lanes	Exclusive Right Lanes	Adjustment Factors
2	Divided	Yes	No	+5%
2	Undivided	No	No	-20%
Multi	Undivided	Yes	No	-5%
Multi	Undivided	No	No	-25%
–	–	–	Yes	+ 5%

One-Way Facility Adjustment

Multiply the corresponding two-directional volumes in this table by 0.6

BICYCLE MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

Paved Shoulder/Bicycle Lane Coverage	B	C	D	E
0-49%	*	260	680	1,770
50-84%	190	600	1,770	>1,770
85-100%	830	1,700	>1,770	**

PEDESTRIAN MODE[2]

(Multiply vehicle volumes shown below by number of directional roadway lanes to determine two-way maximum service volumes.)

Sidewalk Coverage	B	C	D	E
0-49%	*	*	250	850
50-84%	*	150	780	1,420
85-100%	340	960	1,560	>1,770

BUS MODE (Scheduled Fixed Route)[3]

(Buses in peak hour in peak direction)

Sidewalk Coverage	B	C	D	E
0-84%	> 5	≥ 4	≥ 3	≥ 2
85-100%	> 4	≥ 3	≥ 2	≥ 1

UNINTERRUPTED FLOW FACILITIES

FREEWAYS

Core Urbanized

Lanes	B	C	D	E
4	4,050	5,640	6,800	7,420
6	5,960	8,310	10,220	11,150
8	7,840	10,960	13,620	14,850
10	9,800	13,510	17,040	18,580
12	11,600	16,350	20,930	23,200

Urbanized

Lanes	B	C	D	E
4	4,130	5,640	7,070	7,690
6	6,200	8,450	10,510	11,530
8	8,270	11,270	13,960	15,380
10	10,350	14,110	17,310	19,220

Freeway Adjustments

Auxiliary Lanes Present in Both Directions	Ramp Metering
+ 1,800	+ 5%

UNINTERRUPTED FLOW HIGHWAYS

Lanes	Median	B	C	D	E
2	Undivided	1,050	1,620	2,180	2,930
4	Divided	3,270	4,730	5,960	6,780
6	Divided	4,910	7,090	8,950	10,180

Uninterrupted Flow Highway Adjustments

Lanes	Median	Exclusive left lanes	Adjustment factors
2	Divided	Yes	+5%
Multi	Undivided	Yes	-5%
Multi	Undivided	No	-25%

[1] Values shown are presented as peak hour directional volumes for levels of service and are for the automobile/truck modes unless specifically stated. This table does not constitute a standard and should be used only for general planning applications. The computer models from which this table is derived should be used for more specific planning applications. The table and deriving computer models should not be used for corridor or intersection design, where more refined techniques exist. Calculations are based on planning applications of the HCM and the Transit Capacity and Quality of Service Manual.

[2] Level of service for the bicycle and pedestrian modes in this table is based on number of vehicles, not number of bicyclists or pedestrians using the facility.

[3] Buses per hour shown are only for the peak hour in the single direction of the higher traffic flow.

* Cannot be achieved using table input value defaults.

** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached. For the bicycle mode, the level of service letter grade (including F) is not achievable because there is no maximum vehicle volume threshold using table input value defaults.

Source:
Florida Department of Transportation
Systems Implementation Office
https://www.fdot.gov/planning/systems/

Environmental Report & Recommendations

PREMIUM ENVIRONMENTAL CONSULTING, LLC

November 29, 2021

Mr. Marius Venter
Venter Enterprises, LLC
608 Griffin Lane
Key West, Florida 33040

Re: <u>Environmental Recommendations</u>
Moped Hospital
601 Truman Avenue and 919 Simonton Street
Key West, Monroe County, Florida
FDEP Facility ID No.: 44/8841232

Dear Mr. Venter:

An underground plume of contaminants is present due to the historical fuel use and underground storage tanks at the above referenced site. Laboratory analyses of groundwater samples collected in August 2011 and March 2020 (**Exhibit A – 2011 and 2020 Site Assessment Reports)** reported dissolved hydrocarbon concentrations in groundwater samples that were above Table V Natural Attenuation Source Concentrations (NADCs) and Table I Groundwater Concentration Target Levels (GCTLs) as listed in Chapter 62-777, Florida Administrative Code **(Exhibit B – Groundwater Analytical Maps)**.

The Florida Department of Environmental Protection has established a priority scoring system to secure State funding to cleanup sites. This site's priority score is 9 and could obtain future funding through the Low-Scored Site Initiative (LSSI) program which applies to sites with scores ≤ 29. FDEP is currently performing cleanup on sites scored 11 and above.

We are aware of City regulations requiring the removal of existing onsite paving to allow the creation of pervious areas, landscaping, and stormwater management. Upon review of the of the current proposed development plans **(Exhibit C – 2021 Development Plans)** we strongly recommend impervious ground surface be maintained until the groundwater meets GCTLs, or as otherwise directed by the City of Key West. We also suggest the following environmental conditions for the redevelopment approval:

- An FDEP-approved impermeable vapor barrier be installed beneath the footprint of the proposed new building at 919 Simonton Street.

- Stormwater management systems should be installed after the groundwater meets Chapter 62-777 Contaminant Cleanup Target Levels, or as otherwise directed by the City of Key West.

- Landscaping should be installed after the groundwater meets Chapter 62-777 Contaminant Cleanup Target Levels, or as otherwise directed by the City of Key West.

If you have questions, please let me know.

Sincerely,
PREMIUM ENVIRONMENTAL CONSULTING, LLC

_____
John C. Baeringer, P.G.
President

EXHIBIT A

2011 AND 2020 SITE ASSESSMENT REPORTS

PREMIUM ENVIRONMENTAL CONSULTING, LLC

March 30, 2020

Mr. Marius Venter
1007 Varela Center #A
Key West, Florida 33040

Re: Groundwater Sampling Report
Moped Hospital
601 Truman Avenue
Key West, Monroe County, Florida
FDEP Facility ID No.: 44/8841232

Dear Mr. Venter:

Premium Environmental Consulting, LLC (PEC) has completed groundwater sampling activities as authorized by the Professional Service Agreement signed on March 16, 2020. These activities were conducted in accordance with the applicable portions set forth in Chapter 2010-278, Laws of Florida, Section 376.3071(11), Florida Statutes (FS), consistent with the guidance documents for the FDEP Low Score Site Initiative (LSSI) program and the Petroleum Restoration Program. Laboratory analyses of groundwater samples collected in August 2011, as part of a previous LSSI investigation, reported dissolved hydrocarbon concentrations in groundwater samples that were above Table V Natural Attenuation Source Concentrations (NADCs) and Table 1 Groundwater Concentration Target Levels (GCTLs) as listed in Chapter 62-777, Florida Administrative Code (FAC). PEC sampled existing monitoring wells to evaluate current site conditions, and this report summarizes the work performed and the laboratory results of the groundwater sampling.

On March 20, 2020, PEC personnel gauged and collected samples from monitoring wells MW-1 through MW-4 and MW-A for laboratory analyses. The groundwater samples were submitted to Pace Analytical Laboratories, Inc. (Pace) for analyses by United States Environmental Protection Agency (EPA) Method 8260 for benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertbutyl ether (MTBE), Method 8270 for polynuclear aromatic hydrocarbons (PAHs), and Method 6010 for total lead.

Analytical results of groundwater samples from monitoring wells MW-1 through MW-4 exceeded FDEP target levels; however, a significant decrease in dissolved hydrocarbon concentrations was observed when compared to the August 2011 groundwater sampling results. PEC will discuss the results with the FDEP in order to determine possible actions to achieve closure.

A site map is provided as **Figure 1**, and groundwater analytical summary tables are provided in **Tables 1 and 2**. Field notes, groundwater sampling logs and equipment calibration logs are provided in **Attachment A.** Laboratory analytical results are provided in **Attachment B**, and tables summarizing the groundwater analytical results from August 2011 are provided for comparison in **Attachment C**.

If you have questions, please let me know.

Sincerely,
PREMIUM ENVIRONMENTAL CONSULTING, LLC

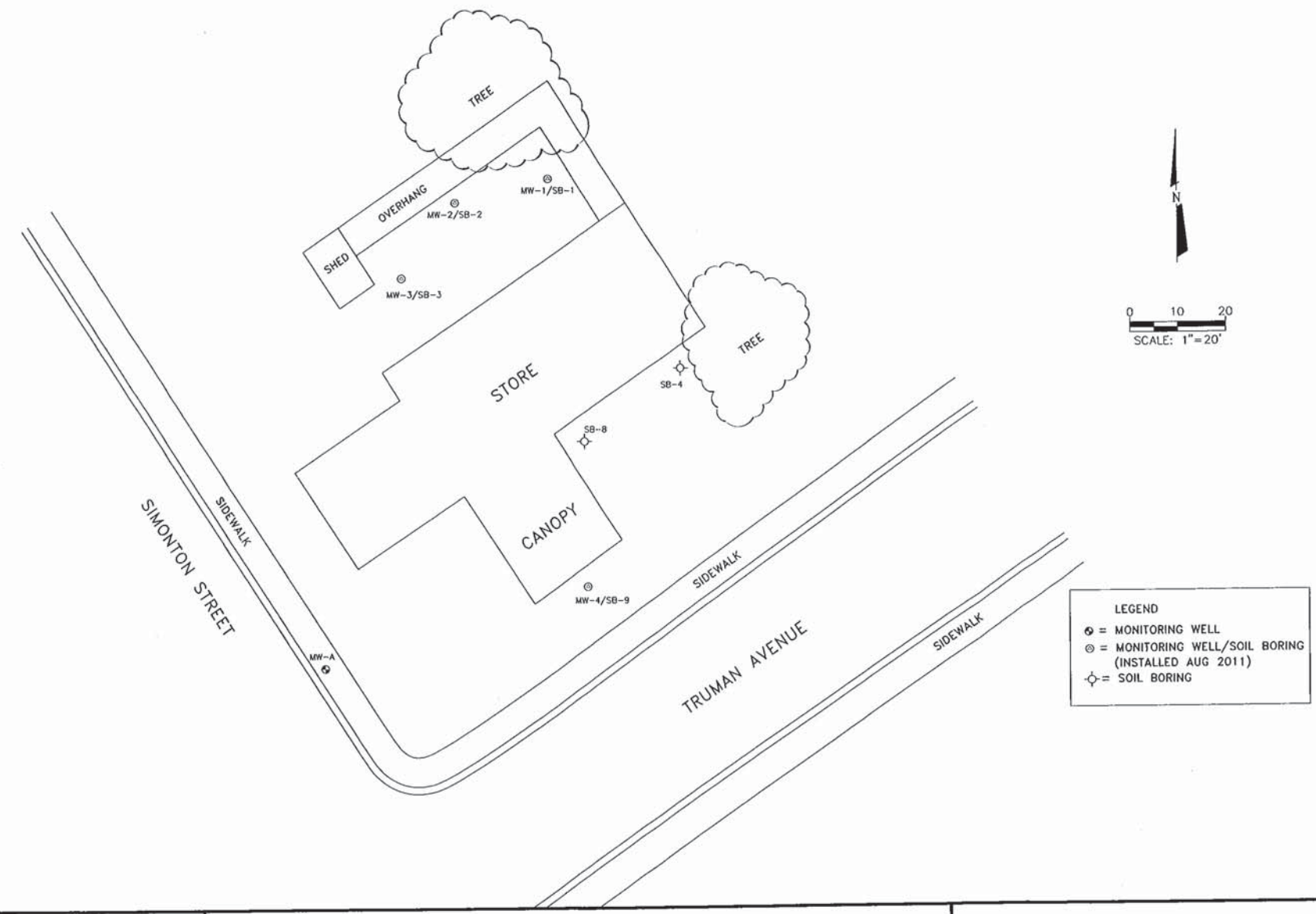
John C. Baeringer

_____
John C. Baeringer, P.G.
President

FIGURE AND TABLES

128090.001

DELRAY W:\PROJECTS\PETROL\INDP_OIL\MOPED HOSPITAL\001 LSSI\CADD\128090 SITE.DWG



HCR
HANDEX CONSULTING & REMEDIATION, LLC
430 S. Congress Avenue, Suite 1D
Delray Beach, Florida 33445
Telephone: (561) 243-9551
Fax: (561) 243-8707
Certificate of Authorization # 26812

MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, FLORIDA
09-26-11

FIGURE 1
SITE MAP

TABLE 1: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - VOCs and Metals

Facility ID#: 44/8841232 **Facility Name: Moped Hospital** **See notes at end of table.**

Sample		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOAs	MTBE	EDB	1,2-Di-chloro-ethane	Total Arsenic	Cadmium	Total Chro-mium	Total Lead
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
MW-1	03/20/2020	**2.3**	**1.9**	**7.6**	**2.1 I**	**13.9**	0.51 U	NS	NS	NS	NS	NS	**32.3**
MW-2	03/20/2020	**10.2**	**2.1**	**9.2**	**5.6**	**27.1**	0.51 U	NS	NS	NS	NS	NS	**35.0**
MW-3	03/20/2020	**1.1**	**1.1**	**37.4**	**11.0**	**50.6**	0.51 U	NS	NS	NS	NS	NS	**15.3**
MW-4	03/20/2020	**4.7**	**0.62 I**	**3.6**	2.1 U	**8.9**	0.51 U	NS	NS	NS	NS	NS	**7.0 I**
MW-A	03/20/2020	0.30 U	0.33 U	0.30 U	2.1 U	2.1 U	0.51 U	NS	NS	NS	NS	NS	4.6 U
GCTLs		1	40	30	20	NA	20	0.02	3	10	5	100	15
NADCs		100	400	300	200	NA	200	2	300	100	50	1000	150

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

Exceeds GCTL Limit

Exceeds NADC Limit

TABLE 2: GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY - PAHs and TRPHs

Facility ID#: 44/8841232 **Facility Name: Moped Hospital**

See notes at end of table.

Sample		TRPHs	Naph-thalene	1-Methyl-naph-thalene	2-Methyl-naph-thalene	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo (g,h,i) perylene	Fluoran-thene	Fluorene	Phenan-threne	Pyrene	Benzo (a) pyrene	Benzo (a) anthra-cene	Benzo (b) fluoran-thene	Benzo (k) fluoran-thene	Chrysene	Dibenz (a,h) anthra-cene	Indeno (1,2,3-cd) pyrene
Location	**Date**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**	**(ug/L)**
MW-1	03/20/2020	NS	**57.1**	**24.6**	0.68 U	**4.1**	0.030 U	0.043 U	0.15 U	**0.21 I**	**2.8**	**1.2**	**0.17 I**	0.12 U	0.055 U	0.027 U	0.16 U	0.026 U	0.13 U	0.12 U
MW-2	03/20/2020	NS	**117**	**72.7**	**19.8**	**18.1**	**0.20 I**	**1.2**	0.15 U	**2.1**	**10.9**	**9.7**	**0.89**	0.12 U	0.055 U	0.027 U	0.16 U	0.026 U	0.13 U	0.12 U
MW-3	03/20/2020	NS	**609**	**53.5**	**13.8**	**26.9**	**0.23 I**	**0.43 I**	0.15 U	**0.75**	**15.9**	**7.3**	**0.56**	0.12 U	0.055 U	0.027 U	0.16 U	0.026 U	0.13 U	0.12 U
MW-4	03/20/2020	NS	**36.8**	**18.9**	**18.0**	**0.31 I**	0.030 U	0.043 U	0.15 U	**0.071 I**	**0.28 I**	**0.27 I**	**0.044 I**	0.12 U	0.055 U	0.027 U	0.16 U	0.026 U	0.13 U	0.12 U
MW-A	03/20/2020	NS	**3.3**	**4.3**	**6.5**	**0.089 I**	0.030 U	0.043 U	0.15 U	**0.053 I**	**0.12 I**	0.16 U	**0.052 I**	0.12 U	0.055 U	0.027 U	0.16 U	0.026 U	0.13 U	0.12 U
GCTLs		5000	14	28	28	20	210	2100	210	280	280	210	210	.2**	.05a	.05a	.5	4.8	.005a	.05a
NADCs		50000	140	280	280	200	2100	21000	2100	2800	2800	2100	2100	20	5	5	50	480	.5	5

Notes:

NA = Not Available

NS = Not Sampled

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

** = As provided in Chapter 62-550, F.A.C.

a = See the October 12, 2004 "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits" to determine how to evaluate data when the CTL is lower than the PQL.

Exceeds GCTL Limit

Exceeds NADC Limit

ATTACHMENT A

FIELD NOTES, GROUNDWATER SAMPLING LOGS AND EQUIPMENT CALIBRATION LOGS

94

Location 601 Truman Ave., Key West, FL Date 3/20/20

Project / Client Moped Hospital

Fac. ID# 44/8841232,

Partly cloudy, 83°F. John Baeringer of PEC, LLC arrived on site at 3:00 PM. The purpose of the visit is to sample five existing monitoring wells. John Baeringer conducted calibration of YSI Pro Plus Meter (DO, specific conductance, and pH) at office prior to arrival at site, and also collected initial calibration verification readings at the office. Refer to the calibration logs for details. Proceeded to start groundwater sampling activities. Refer to the groundwater sampling logs for details regarding purging and sampling. The stop/stop times are listed below: MW-1, start 3:44 PM, stop 4:10 PM; MW-2, start 4:30 PM, stop 4:55 PM; MW-3, start 5:25 PM, stop 5:50 PM; MW-A, start 6:06 PM, stop 6:35 PM; MW-4, start 6:54 PM, stop 7:20 PM. The groundwater samples were immediately placed on ice. John Baeringer collected continuing calibration verification readings from YSI Pro Plus and Hach 2100Q (turbidity) from 7:55 to 8:10 PM. Departed site at 8:20 PM.

John Baeringer

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Moped Hospital	SITE LOCATION: 601 Truman Avenue, Key West, FL	
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 3/20/20

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 6.00 feet) X 0.16 gallons/foot = 0.96 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	PURGING INITIATED AT: 3:44PM	PURGING ENDED AT: 4:00PM	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
3:54PM	1.0	1.0	.1	6.28	6.58	28.0	1139	0.17	2.54	Clear	None
3:57PM	0.3	1.3	.1	6.28	6.58	28.0	1136	0.16	2.65	Clear	None
4:00PM	0.3	1.6	.1	6.28	6.58	28.0	1136	0.15	1.87	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Baeringer/PEC	SAMPLER(S) SIGNATURE(S): John C. Baeringer	SAMPLING INITIATED AT: 4:05PM	SAMPLING ENDED AT: 4:10 PM
PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1	3	CG	40 ML	HCL	---	---	8260 BTEX/MTBE	APP	200
MW-1	1	AG	250 ML	None	---	---	8270 PAHs	APP	400
MW-1	1	HDPE	250 ML	HNO3	---	---	6010 PB	APP	400

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Moped Hospital	SITE LOCATION: 601 Truman Avenue, Key West, FL	
WELL NO: Mw-2	SAMPLE ID: Mw-2	DATE: 3/20/20

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.15'	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 6.15' feet) X 0.16 gallons/foot = 0.94 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	PURGING INITIATED AT: 4:30pm	PURGING ENDED AT: 4:46 pm	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
4:40pm	1.0	1.0	.1	6.40'	6.67	28.7	906	2.66	33.4	Clear	None
4:43 pm	.3	1.3	.1	6.40'	6.67	28.7	906	1.25	30.0	Clear	None
4:46 pm	.3	1.6	.1	6.40	6.68	28.7	904	0.59	28.9	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Baenhger/PEC	SAMPLER(S) SIGNATURE(S): John C. Baenhger	SAMPLING INITIATED AT: 4:50pm	SAMPLING ENDED AT: 4:55pm
PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
Mw-2	3	CG	40 ML	HCL	---	---	8260 BTEX/MTBE	APP	200
Mw-2	1	AG	250 ML	None	---	---	8270 PAHs	APP	400
Mw-2	1	HDPE	250 ML	HNO3	---	---	6010 PB	APP	400

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Moped Hospital	SITE LOCATION: 601 Truman Avenue, Key West, FL	
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 3/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.37	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 6.37 feet) X 0.16 gallons/foot = 0.90 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	PURGING INITIATED AT: 5:25PM	PURGING ENDED AT: 5:40PM	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
MW-3 5:34PM	.9	.9	.9	6.44	7.35	27.2	334.3	0.41	19.0	Clear	None
MW-3 5:37PM	.3	1.2	1.2	6.44	7.35	27.2	331.4	0.33	23.3	Clear	None
MW-3 5:40PM	.3	1.5	1.5	6.44	7.35	27.2	328.4	0.29	23.7	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Baeringer/PEC	SAMPLER(S) SIGNATURE(S): John C. Baeringer	SAMPLING INITIATED AT: 5:45PM	SAMPLING ENDED AT: 5:50PM
PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3	3	CG	40 ML	HCL	---	---	8260 BTEX/MTBE	APP	200
MW-3	1	AG	250 ML	None	---	---	8270 PAHs	APP	400
MW-3	1	HDPE	250 ML	HNO3	---	---	6010 PB	APP	400

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Moped Hospital	SITE LOCATION: 601 Truman Avenue, Key West, FL	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 3/20/20

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 5.42	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 5.42 feet) X 0.16 gallons/foot = 1.05 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0'	PURGING INITIATED AT: 6:54pm	PURGING ENDED AT: 7:11PM	TOTAL VOLUME PURGED (gallons): 1.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
7:05PM	1.1	1.1	.1	5.49	6.87	30.3	703	0.36	40.3	Clear	None
7:08 PM	.3	1.4	.1	5.49	6.89	30.2	702	0.35	43.9	Clear	None
7:11 PM	.3	1.7	.1	5.49	6.89	30.2	702	0.30	43.3	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Baeringer/PEC	SAMPLER(S) SIGNATURE(S): John C. Baeringer	SAMPLING INITIATED AT: 7:15PM	SAMPLING ENDED AT: 7:20PM
PUMP OR TUBING DEPTH IN WELL (feet): 7.0'	TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-4	3	CG	40 ML	HCL	---	---	8260 BTEX/MTBE	APP	200
MW-4	1	AG	250 ML	None	---	---	8270 PAHs	APP	400
MW-4	1	HDPE	250 ML	HNO3	---	---	6010 PB	APP	400

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Moped Hospital	SITE LOCATION: 601 Truman Avenue, Key West, FL	
WELL NO: MW-A	SAMPLE ID: MW-A	DATE: 3/20/20

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 4 feet to 14 feet	STATIC DEPTH TO WATER (feet): 5.94	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14 feet – 5.94 feet) X 0.16 gallons/foot = 1.29 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	PURGING INITIATED AT: 6:06 PM	PURGING ENDED AT: 6:25PM	TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
6:19PM	1.3	1.3	.1	5.99	7.20	28.8	469	0.27	3.67	Clear	None
6:22PM	.3	1.6	.1	5.99	7.20	28.8	469	0.27	1.90	Clear	None
6:25PM	.3	1.9	.1	5.99	7.20	28.8	469	0.22	0.89	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: John Baeringer/PEC	SAMPLER(S) SIGNATURE(S): John C. Baeringer	SAMPLING INITIATED AT: 6:30PM	SAMPLING ENDED AT: 6:35PM
PUMP OR TUBING DEPTH IN WELL (feet): 7.5'	TUBING MATERIAL CODE: HDPE/S	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-A	3	CG	40 ML	HCL	---	---	8260 BTEX/MTBE	APP	200
MW-A	1	AG	250 ML	None	---	---	8270 PAHs	APP	400
MW-A	1	HDPE	250 ML	HNO3	---	---	6010 PB	APP	400

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Turbidity Calibration Log (DEP SOPs FT1000 & FT1600)
Regional Operations Centers

Meter ID: 3907 Date of Last Calibration: 2/20/20 Project Name: Moped Hospital

Quarterly Calibration

Sampler Name: John Baeringer Date: 2/20/20 Time: 1:00 PM (ETZ) / CTZ *(circle one)*

Standard Value *(Use Primary Formazin Standards)*	Exp. Date	Lot #	Type of Information Displayed During Calibration? *(circle one)*	Value Displayed NTU	Calibration Pass / Fail *(circle one)*
20.0 NTU	7/2020	A 9084	(Meter Reading) / Next Value	20.1	(P) / F
100.0 NTU	6/2020	A 9080	(Meter Reading) / Next Value	101.0	(P) / F
800.0 NTU	7/2020	A 9085	(Meter Reading) / Next Value	796.0	(P) / F
NTU			Meter Reading / Next Value		P / F

Initial Calibration Verification (ICV) *(Only perform ICV immediately after quarterly calibr. Do not use < 0.1 NTU standard for ICV.)*

Sampler Name: John Baeringer Date: 2/20/20 Time: 1:07 PM (ETZ) / CTZ *(circle one)*

Standard Value *(Use A Primary Formazin Standard)*	Exp. Date	Lot #	Meter Reading NTU	Pass / Fail *(circle one)*
10.0 NTU	6/2020	A9079	10.5	(P) / F

Secondary Gel Standard Quarterly Verification *(perform gel standard verification immediately after quarterly calib. and ICV)*

Sampler Name: _____ Date: _____ Time: _____ ETZ / CTZ *(circle one)*

Standard Value Range NTU	Previous Value Assigned NTU	Exp. Date	Lot #	Meter Reading NTU *(new value assigned)*	Acceptable Range, NTU *(Calculate using new value assigned & acceptance criteria*)*
0 – 10					
10 – 100					
100 - 1000					

Daily Continuing Calibration Verification (CCV) *(required every day that meter is used)*

Date	Time (24hr) CT-ET	Sampler Name	Standard Type *(circle one)*	Standard Value NTU	Exp. Date	Lot #	Meter Reading NTU	Pass / Fail
3/20/20	8:10 PM	John Baeringer	(Formazin) / Gel	10.0	6/2020	A9079	10.5	(P) / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F
			Formazin / Gel					P / F

Comments:

*Acceptance Criteria: 0.1-10 NTU → ± 10 %; 11-40 NTU → ± 8 %; 41-100 NTU → ± 6.5 %; >100 NTU → ± 5 %;
Acceptable ranges for common standards: 20 NTU (18.4 - 21.6 NTU); 100 NTU (93.5 – 106.5 NTU); 800 NTU (760 - 840 NTU)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: 19C103325 RQ- Project: Moped Hospital

Notes: (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	John Baeringer	3/20/20	8:30AM	24.7	768.7	8.309	8.41	101.2			(P) / F	(L) / F
ICV	John Baeringer	3/20/20	8:32AM	24.7	768.7	8.309	8.37	100.9			(P) / F	(L) / F
CCV	John Baeringer	3/20/20	7:55PM	26.8	766.5	7.997	8.06	100.7			(P) / F	L / (F)
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	John Baeringer	3/20/20	8:35AM	06A118	01/21	1,413	1,416	(P) F	(L) / F
ICV	John Baeringer	3/20/20	8:37AM	06A118	01/21	1,413	1,417	(P) / F	(L) / F
CCV	John Baeringer	3/20/20	8:03PM	06A118	01/21	1,413	1,419	(P) / F	L / (F)
CCV								P / F	L / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	John Baeringer	3/20/20	8:41AM	9EK054	2/21	7.0	24.4	7.0		(P) / F	(L) / F
Calibr.	John Baeringer	3/20/20	8:45AM	9GC044	3/21	4.0	24.4	4.0		(P) / F	(L) / F
Calibr.	John Baeringer	3/20/20	8:50AM	9GB956	2/21	10.0	24.5	10.0		(P) / F	(L) / F
ICV	John Baeringer	3/20/20	8:52AM	9GB956	2/21	10.0	24.6	10.01		(P) / F	(L) / F
CCV	John Baeringer	3/20/20	7:59PM	9EK054	2/21	7.0	29.3	7.10		(P) / F	L / (F)
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)
If **YES**, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

ATTACHMENT B

LABORATORY ANALYTICAL RESULTS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

March 27, 2020

John Baeringer
Premium Environmental Consulting, LLC
1350 NE 23 Place
Pompano Beach, FL 33064

RE: Project: Moped Hospital
Pace Project No.: 35538982

Dear John Baeringer:
Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Terrence Anderson
terrence.anderson@pacelabs.com
954-582-4300
Project Manager

Enclosures

cc: Phil Cook, Premium Environmental Consulting

Pace Analytical Services, LLC
3610 Park Central Blvd N
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CERTIFICATIONS

Project: Moped Hospital
Pace Project No.: 35538982

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services, LLC
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(954)582-4300

SAMPLE SUMMARY

Project: Moped Hospital
Pace Project No.: 35538982

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35538982001	**MW-1**	Water	03/20/20 16:05	03/21/20 15:53
35538982002	**MW-2**	Water	03/20/20 16:50	03/21/20 15:53
35538982003	**MW-3**	Water	03/20/20 17:45	03/21/20 15:53
35538982004	**MW-4**	Water	03/20/20 19:15	03/21/20 15:53
35538982005	**MW-A**	Water	03/20/20 18:30	03/21/20 15:53

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SAMPLE ANALYTE COUNT

Project: Moped Hospital
Pace Project No.: 35538982

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35538982001	**MW-1**	EPA 6010	CS2	1	PASI-O
		EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	CLT	10	PASI-O
35538982002	**MW-2**	EPA 6010	CS2	1	PASI-O
		EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	CLT	10	PASI-O
35538982003	**MW-3**	EPA 6010	CS2	1	PASI-O
		EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	CLT	10	PASI-O
35538982004	**MW-4**	EPA 6010	CS2	1	PASI-O
		EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	CLT	10	PASI-O
35538982005	**MW-A**	EPA 6010	CS2	1	PASI-O
		EPA 8270 by SIM	CB1	20	PASI-O
		EPA 8260	CLT	10	PASI-O

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SUMMARY OF DETECTION

Project: Moped Hospital
Pace Project No.: 35538982

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35538982001	**MW-1**					
EPA 6010	Lead	32.3	ug/L	10.0	03/24/20 11:42	
EPA 8270 by SIM	Acenaphthene	4.1	ug/L	0.50	03/26/20 00:31	
EPA 8270 by SIM	Fluoranthene	0.21 I	ug/L	0.50	03/26/20 00:31	
EPA 8270 by SIM	Fluorene	2.8	ug/L	0.50	03/26/20 00:31	
EPA 8270 by SIM	1-Methylnaphthalene	24.6	ug/L	2.0	03/26/20 00:31	
EPA 8270 by SIM	Naphthalene	57.1	ug/L	2.0	03/26/20 00:31	
EPA 8270 by SIM	Phenanthrene	1.2	ug/L	0.50	03/26/20 00:31	
EPA 8270 by SIM	Pyrene	0.17 I	ug/L	0.50	03/26/20 00:31	
EPA 8260	Benzene	2.3	ug/L	1.0	03/26/20 19:28	
EPA 8260	Ethylbenzene	7.6	ug/L	1.0	03/26/20 19:28	
EPA 8260	Toluene	1.9	ug/L	1.0	03/26/20 19:28	
EPA 8260	Xylene (Total)	2.1 I	ug/L	5.0	03/26/20 19:28	
EPA 8260	m&p-Xylene	3.5 I	ug/L	4.0	03/26/20 19:28	
EPA 8260	o-Xylene	2.1	ug/L	1.0	03/26/20 19:28	
35538982002	**MW-2**					
EPA 6010	Lead	35.0	ug/L	10.0	03/24/20 11:46	
EPA 8270 by SIM	Acenaphthene	18.1	ug/L	0.50	03/26/20 00:53	
EPA 8270 by SIM	Acenaphthylene	0.20 I	ug/L	0.50	03/26/20 00:53	
EPA 8270 by SIM	Anthracene	1.2	ug/L	0.50	03/26/20 00:53	
EPA 8270 by SIM	Fluoranthene	2.1	ug/L	0.50	03/26/20 00:53	
EPA 8270 by SIM	Fluorene	10.9	ug/L	0.50	03/26/20 00:53	
EPA 8270 by SIM	1-Methylnaphthalene	72.7	ug/L	2.0	03/26/20 00:53	
EPA 8270 by SIM	2-Methylnaphthalene	19.8	ug/L	2.0	03/26/20 00:53	
EPA 8270 by SIM	Naphthalene	117	ug/L	2.0	03/26/20 00:53	
EPA 8270 by SIM	Phenanthrene	9.7	ug/L	0.50	03/26/20 00:53	
EPA 8270 by SIM	Pyrene	0.89	ug/L	0.50	03/26/20 00:53	
EPA 8260	Benzene	10.2	ug/L	1.0	03/26/20 19:53	
EPA 8260	Ethylbenzene	9.2	ug/L	1.0	03/26/20 19:53	
EPA 8260	Toluene	2.1	ug/L	1.0	03/26/20 19:53	
EPA 8260	Xylene (Total)	5.6	ug/L	5.0	03/26/20 19:53	
EPA 8260	m&p-Xylene	4.2	ug/L	4.0	03/26/20 19:53	
EPA 8260	o-Xylene	1.3	ug/L	1.0	03/26/20 19:53	
35538982003	**MW-3**					
EPA 6010	Lead	15.3	ug/L	10.0	03/24/20 11:49	
EPA 8270 by SIM	Acenaphthene	26.9	ug/L	0.50	03/26/20 01:16	
EPA 8270 by SIM	Acenaphthylene	0.23 I	ug/L	0.50	03/26/20 01:16	
EPA 8270 by SIM	Anthracene	0.43 I	ug/L	0.50	03/26/20 01:16	
EPA 8270 by SIM	Fluoranthene	0.75	ug/L	0.50	03/26/20 01:16	
EPA 8270 by SIM	Fluorene	15.9	ug/L	0.50	03/26/20 01:16	
EPA 8270 by SIM	1-Methylnaphthalene	53.5	ug/L	2.0	03/26/20 01:16	
EPA 8270 by SIM	2-Methylnaphthalene	13.8	ug/L	2.0	03/26/20 01:16	
EPA 8270 by SIM	Naphthalene	609	ug/L	20.0	03/26/20 12:48	
EPA 8270 by SIM	Phenanthrene	7.3	ug/L	0.50	03/26/20 01:16	
EPA 8270 by SIM	Pyrene	0.56	ug/L	0.50	03/26/20 01:16	
EPA 8260	Benzene	1.1	ug/L	1.0	03/26/20 20:18	
EPA 8260	Ethylbenzene	37.4	ug/L	1.0	03/26/20 20:18	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

SUMMARY OF DETECTION

Project: Moped Hospital
Pace Project No.: 35538982

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35538982003	**MW-3**					
EPA 8260	Toluene	1.1	ug/L	1.0	03/26/20 20:18	
EPA 8260	Xylene (Total)	11.0	ug/L	5.0	03/26/20 20:18	
EPA 8260	m&p-Xylene	7.0	ug/L	4.0	03/26/20 20:18	
EPA 8260	o-Xylene	4.0	ug/L	1.0	03/26/20 20:18	
35538982004	**MW-4**					
EPA 6010	Lead	7.0 I	ug/L	10.0	03/24/20 11:53	
EPA 8270 by SIM	Acenaphthene	0.31 I	ug/L	0.50	03/26/20 01:38	
EPA 8270 by SIM	Fluoranthene	0.071 I	ug/L	0.50	03/26/20 01:38	
EPA 8270 by SIM	Fluorene	0.28 I	ug/L	0.50	03/26/20 01:38	
EPA 8270 by SIM	1-Methylnaphthalene	18.9	ug/L	2.0	03/26/20 01:38	
EPA 8270 by SIM	2-Methylnaphthalene	18.0	ug/L	2.0	03/26/20 01:38	
EPA 8270 by SIM	Naphthalene	36.8	ug/L	2.0	03/26/20 01:38	
EPA 8270 by SIM	Phenanthrene	0.27 I	ug/L	0.50	03/26/20 01:38	
EPA 8270 by SIM	Pyrene	0.044 I	ug/L	0.50	03/26/20 01:38	
EPA 8260	Benzene	4.7	ug/L	1.0	03/26/20 20:43	
EPA 8260	Ethylbenzene	3.6	ug/L	1.0	03/26/20 20:43	
EPA 8260	Toluene	0.62 I	ug/L	1.0	03/26/20 20:43	
EPA 8260	o-Xylene	0.53 I	ug/L	1.0	03/26/20 20:43	
35538982005	**MW-A**					
EPA 8270 by SIM	Acenaphthene	0.089 I	ug/L	0.50	03/26/20 02:01	
EPA 8270 by SIM	Fluoranthene	0.053 I	ug/L	0.50	03/26/20 02:01	
EPA 8270 by SIM	Fluorene	0.12 I	ug/L	0.50	03/26/20 02:01	
EPA 8270 by SIM	1-Methylnaphthalene	4.3	ug/L	2.0	03/26/20 02:01	
EPA 8270 by SIM	2-Methylnaphthalene	6.5	ug/L	2.0	03/26/20 02:01	
EPA 8270 by SIM	Naphthalene	3.3	ug/L	2.0	03/26/20 02:01	
EPA 8270 by SIM	Pyrene	0.052 I	ug/L	0.50	03/26/20 02:01	

Pace Analytical Services, LLC
3610 Park Central Blvd N
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(954)582-4300

ANALYTICAL RESULTS

Project: Moped Hospital
Pace Project No.: 35538982

Sample: MW-1 **Lab ID: 35538982001** Collected: 03/20/20 16:05 Received: 03/21/20 15:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**32.3**	ug/L	10.0	4.6	1	03/24/20 01:44	03/24/20 11:42	7439-92-1	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**4.1**	ug/L	0.50	0.040	1	03/25/20 13:15	03/26/20 00:31	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	03/25/20 13:15	03/26/20 00:31	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	03/25/20 13:15	03/26/20 00:31	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	03/25/20 13:15	03/26/20 00:31	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	03/25/20 13:15	03/26/20 00:31	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	03/25/20 13:15	03/26/20 00:31	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	03/25/20 13:15	03/26/20 00:31	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 00:31	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	03/25/20 13:15	03/26/20 00:31	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	03/25/20 13:15	03/26/20 00:31	53-70-3	
Fluoranthene	**0.21 I**	ug/L	0.50	0.018	1	03/25/20 13:15	03/26/20 00:31	206-44-0	
Fluorene	**2.8**	ug/L	0.50	0.088	1	03/25/20 13:15	03/26/20 00:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	03/25/20 13:15	03/26/20 00:31	193-39-5	
1-Methylnaphthalene	**24.6**	ug/L	2.0	0.19	1	03/25/20 13:15	03/26/20 00:31	90-12-0	
2-Methylnaphthalene	**0.68 U**	ug/L	2.0	0.68	1	03/25/20 13:15	03/26/20 00:31	91-57-6	
Naphthalene	**57.1**	ug/L	2.0	0.29	1	03/25/20 13:15	03/26/20 00:31	91-20-3	
Phenanthrene	**1.2**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 00:31	85-01-8	
Pyrene	**0.17 I**	ug/L	0.50	0.032	1	03/25/20 13:15	03/26/20 00:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	38-92		1	03/25/20 13:15	03/26/20 00:31	321-60-8	
p-Terphenyl-d14 (S)	85	%	54-112		1	03/25/20 13:15	03/26/20 00:31	1718-51-0	
8260 MSV, Short List	Analytical Method: EPA 8260								
Benzene	**2.3**	ug/L	1.0	0.30	1		03/26/20 19:28	71-43-2	
Ethylbenzene	**7.6**	ug/L	1.0	0.30	1		03/26/20 19:28	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		03/26/20 19:28	1634-04-4	
Toluene	**1.9**	ug/L	1.0	0.33	1		03/26/20 19:28	108-88-3	
Xylene (Total)	**2.1 I**	ug/L	5.0	2.1	1		03/26/20 19:28	1330-20-7	
m&p-Xylene	**3.5 I**	ug/L	4.0	2.1	1		03/26/20 19:28	179601-23-1	
o-Xylene	**2.1**	ug/L	1.0	0.27	1		03/26/20 19:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		03/26/20 19:28	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		03/26/20 19:28	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/26/20 19:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

ANALYTICAL RESULTS

Project: Moped Hospital
Pace Project No.: 35538982

Sample: MW-2 **Lab ID: 35538982002** Collected: 03/20/20 16:50 Received: 03/21/20 15:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**35.0**	ug/L	10.0	4.6	1	03/24/20 01:44	03/24/20 11:46	7439-92-1	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**18.1**	ug/L	0.50	0.040	1	03/25/20 13:15	03/26/20 00:53	83-32-9	
Acenaphthylene	**0.20 I**	ug/L	0.50	0.030	1	03/25/20 13:15	03/26/20 00:53	208-96-8	
Anthracene	**1.2**	ug/L	0.50	0.043	1	03/25/20 13:15	03/26/20 00:53	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	03/25/20 13:15	03/26/20 00:53	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	03/25/20 13:15	03/26/20 00:53	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	03/25/20 13:15	03/26/20 00:53	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	03/25/20 13:15	03/26/20 00:53	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 00:53	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	03/25/20 13:15	03/26/20 00:53	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	03/25/20 13:15	03/26/20 00:53	53-70-3	
Fluoranthene	**2.1**	ug/L	0.50	0.018	1	03/25/20 13:15	03/26/20 00:53	206-44-0	
Fluorene	**10.9**	ug/L	0.50	0.088	1	03/25/20 13:15	03/26/20 00:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	03/25/20 13:15	03/26/20 00:53	193-39-5	
1-Methylnaphthalene	**72.7**	ug/L	2.0	0.19	1	03/25/20 13:15	03/26/20 00:53	90-12-0	
2-Methylnaphthalene	**19.8**	ug/L	2.0	0.68	1	03/25/20 13:15	03/26/20 00:53	91-57-6	
Naphthalene	**117**	ug/L	2.0	0.29	1	03/25/20 13:15	03/26/20 00:53	91-20-3	
Phenanthrene	**9.7**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 00:53	85-01-8	
Pyrene	**0.89**	ug/L	0.50	0.032	1	03/25/20 13:15	03/26/20 00:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	38-92		1	03/25/20 13:15	03/26/20 00:53	321-60-8	
p-Terphenyl-d14 (S)	81	%	54-112		1	03/25/20 13:15	03/26/20 00:53	1718-51-0	
8260 MSV, Short List	Analytical Method: EPA 8260								
Benzene	**10.2**	ug/L	1.0	0.30	1		03/26/20 19:53	71-43-2	
Ethylbenzene	**9.2**	ug/L	1.0	0.30	1		03/26/20 19:53	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		03/26/20 19:53	1634-04-4	
Toluene	**2.1**	ug/L	1.0	0.33	1		03/26/20 19:53	108-88-3	
Xylene (Total)	**5.6**	ug/L	5.0	2.1	1		03/26/20 19:53	1330-20-7	
m&p-Xylene	**4.2**	ug/L	4.0	2.1	1		03/26/20 19:53	179601-23-1	
o-Xylene	**1.3**	ug/L	1.0	0.27	1		03/26/20 19:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/26/20 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/26/20 19:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/26/20 19:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

ANALYTICAL RESULTS

Project: Moped Hospital
Pace Project No.: 35538982

Sample: MW-3 **Lab ID: 35538982003** Collected: 03/20/20 17:45 Received: 03/21/20 15:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**15.3**	ug/L	10.0	4.6	1	03/24/20 01:44	03/24/20 11:49	7439-92-1	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**26.9**	ug/L	0.50	0.040	1	03/25/20 13:15	03/26/20 01:16	83-32-9	
Acenaphthylene	**0.23 I**	ug/L	0.50	0.030	1	03/25/20 13:15	03/26/20 01:16	208-96-8	
Anthracene	**0.43 I**	ug/L	0.50	0.043	1	03/25/20 13:15	03/26/20 01:16	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	03/25/20 13:15	03/26/20 01:16	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	03/25/20 13:15	03/26/20 01:16	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	03/25/20 13:15	03/26/20 01:16	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	03/25/20 13:15	03/26/20 01:16	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 01:16	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	03/25/20 13:15	03/26/20 01:16	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	03/25/20 13:15	03/26/20 01:16	53-70-3	
Fluoranthene	**0.75**	ug/L	0.50	0.018	1	03/25/20 13:15	03/26/20 01:16	206-44-0	
Fluorene	**15.9**	ug/L	0.50	0.088	1	03/25/20 13:15	03/26/20 01:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	03/25/20 13:15	03/26/20 01:16	193-39-5	
1-Methylnaphthalene	**53.5**	ug/L	2.0	0.19	1	03/25/20 13:15	03/26/20 01:16	90-12-0	
2-Methylnaphthalene	**13.8**	ug/L	2.0	0.68	1	03/25/20 13:15	03/26/20 01:16	91-57-6	
Naphthalene	**609**	ug/L	20.0	2.9	10	03/25/20 13:15	03/26/20 12:48	91-20-3	
Phenanthrene	**7.3**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 01:16	85-01-8	
Pyrene	**0.56**	ug/L	0.50	0.032	1	03/25/20 13:15	03/26/20 01:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	38-92		1	03/25/20 13:15	03/26/20 01:16	321-60-8	
p-Terphenyl-d14 (S)	82	%	54-112		1	03/25/20 13:15	03/26/20 01:16	1718-51-0	
8260 MSV, Short List	Analytical Method: EPA 8260								
Benzene	**1.1**	ug/L	1.0	0.30	1		03/26/20 20:18	71-43-2	
Ethylbenzene	**37.4**	ug/L	1.0	0.30	1		03/26/20 20:18	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		03/26/20 20:18	1634-04-4	
Toluene	**1.1**	ug/L	1.0	0.33	1		03/26/20 20:18	108-88-3	
Xylene (Total)	**11.0**	ug/L	5.0	2.1	1		03/26/20 20:18	1330-20-7	
m&p-Xylene	**7.0**	ug/L	4.0	2.1	1		03/26/20 20:18	179601-23-1	
o-Xylene	**4.0**	ug/L	1.0	0.27	1		03/26/20 20:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		03/26/20 20:18	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/26/20 20:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/20 20:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

ANALYTICAL RESULTS

Project: Moped Hospital
Pace Project No.: 35538982

Sample: MW-4 **Lab ID: 35538982004** Collected: 03/20/20 19:15 Received: 03/21/20 15:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**7.0 I**	ug/L	10.0	4.6	1	03/24/20 01:44	03/24/20 11:53	7439-92-1	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.31 I**	ug/L	0.50	0.040	1	03/25/20 13:15	03/26/20 01:38	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	03/25/20 13:15	03/26/20 01:38	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	03/25/20 13:15	03/26/20 01:38	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	03/25/20 13:15	03/26/20 01:38	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	03/25/20 13:15	03/26/20 01:38	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	03/25/20 13:15	03/26/20 01:38	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	03/25/20 13:15	03/26/20 01:38	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 01:38	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	03/25/20 13:15	03/26/20 01:38	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	03/25/20 13:15	03/26/20 01:38	53-70-3	
Fluoranthene	**0.071 I**	ug/L	0.50	0.018	1	03/25/20 13:15	03/26/20 01:38	206-44-0	
Fluorene	**0.28 I**	ug/L	0.50	0.088	1	03/25/20 13:15	03/26/20 01:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	03/25/20 13:15	03/26/20 01:38	193-39-5	
1-Methylnaphthalene	**18.9**	ug/L	2.0	0.19	1	03/25/20 13:15	03/26/20 01:38	90-12-0	
2-Methylnaphthalene	**18.0**	ug/L	2.0	0.68	1	03/25/20 13:15	03/26/20 01:38	91-57-6	
Naphthalene	**36.8**	ug/L	2.0	0.29	1	03/25/20 13:15	03/26/20 01:38	91-20-3	
Phenanthrene	**0.27 I**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 01:38	85-01-8	
Pyrene	**0.044 I**	ug/L	0.50	0.032	1	03/25/20 13:15	03/26/20 01:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	38-92		1	03/25/20 13:15	03/26/20 01:38	321-60-8	
p-Terphenyl-d14 (S)	81	%	54-112		1	03/25/20 13:15	03/26/20 01:38	1718-51-0	
8260 MSV, Short List	Analytical Method: EPA 8260								
Benzene	**4.7**	ug/L	1.0	0.30	1		03/26/20 20:43	71-43-2	
Ethylbenzene	**3.6**	ug/L	1.0	0.30	1		03/26/20 20:43	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		03/26/20 20:43	1634-04-4	
Toluene	**0.62 I**	ug/L	1.0	0.33	1		03/26/20 20:43	108-88-3	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		03/26/20 20:43	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		03/26/20 20:43	179601-23-1	
o-Xylene	**0.53 I**	ug/L	1.0	0.27	1		03/26/20 20:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		03/26/20 20:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/26/20 20:43	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/26/20 20:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

ANALYTICAL RESULTS

Project: Moped Hospital
Pace Project No.: 35538982

Sample: MW-A **Lab ID: 35538982005** Collected: 03/20/20 18:30 Received: 03/21/20 15:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.6 U**	ug/L	10.0	4.6	1	03/24/20 01:44	03/24/20 11:56	7439-92-1	
8270 MSSV PAHLV by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	**0.089 I**	ug/L	0.50	0.040	1	03/25/20 13:15	03/26/20 02:01	83-32-9	
Acenaphthylene	**0.030 U**	ug/L	0.50	0.030	1	03/25/20 13:15	03/26/20 02:01	208-96-8	
Anthracene	**0.043 U**	ug/L	0.50	0.043	1	03/25/20 13:15	03/26/20 02:01	120-12-7	
Benzo(a)anthracene	**0.055 U**	ug/L	0.10	0.055	1	03/25/20 13:15	03/26/20 02:01	56-55-3	
Benzo(a)pyrene	**0.12 U**	ug/L	0.20	0.12	1	03/25/20 13:15	03/26/20 02:01	50-32-8	
Benzo(b)fluoranthene	**0.027 U**	ug/L	0.10	0.027	1	03/25/20 13:15	03/26/20 02:01	205-99-2	
Benzo(g,h,i)perylene	**0.15 U**	ug/L	0.50	0.15	1	03/25/20 13:15	03/26/20 02:01	191-24-2	
Benzo(k)fluoranthene	**0.16 U**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 02:01	207-08-9	
Chrysene	**0.026 U**	ug/L	0.50	0.026	1	03/25/20 13:15	03/26/20 02:01	218-01-9	
Dibenz(a,h)anthracene	**0.13 U**	ug/L	0.15	0.13	1	03/25/20 13:15	03/26/20 02:01	53-70-3	
Fluoranthene	**0.053 I**	ug/L	0.50	0.018	1	03/25/20 13:15	03/26/20 02:01	206-44-0	
Fluorene	**0.12 I**	ug/L	0.50	0.088	1	03/25/20 13:15	03/26/20 02:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.12 U**	ug/L	0.15	0.12	1	03/25/20 13:15	03/26/20 02:01	193-39-5	
1-Methylnaphthalene	**4.3**	ug/L	2.0	0.19	1	03/25/20 13:15	03/26/20 02:01	90-12-0	
2-Methylnaphthalene	**6.5**	ug/L	2.0	0.68	1	03/25/20 13:15	03/26/20 02:01	91-57-6	
Naphthalene	**3.3**	ug/L	2.0	0.29	1	03/25/20 13:15	03/26/20 02:01	91-20-3	
Phenanthrene	**0.16 U**	ug/L	0.50	0.16	1	03/25/20 13:15	03/26/20 02:01	85-01-8	
Pyrene	**0.052 I**	ug/L	0.50	0.032	1	03/25/20 13:15	03/26/20 02:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	38-92		1	03/25/20 13:15	03/26/20 02:01	321-60-8	
p-Terphenyl-d14 (S)	90	%	54-112		1	03/25/20 13:15	03/26/20 02:01	1718-51-0	
8260 MSV, Short List	Analytical Method: EPA 8260								
Benzene	**0.30 U**	ug/L	1.0	0.30	1		03/26/20 21:08	71-43-2	
Ethylbenzene	**0.30 U**	ug/L	1.0	0.30	1		03/26/20 21:08	100-41-4	
Methyl-tert-butyl ether	**0.51 U**	ug/L	2.0	0.51	1		03/26/20 21:08	1634-04-4	
Toluene	**0.33 U**	ug/L	1.0	0.33	1		03/26/20 21:08	108-88-3	
Xylene (Total)	**2.1 U**	ug/L	5.0	2.1	1		03/26/20 21:08	1330-20-7	
m&p-Xylene	**2.1 U**	ug/L	4.0	2.1	1		03/26/20 21:08	179601-23-1	
o-Xylene	**0.27 U**	ug/L	1.0	0.27	1		03/26/20 21:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/26/20 21:08	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/26/20 21:08	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/26/20 21:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: Moped Hospital
Pace Project No.: 35538982

QC Batch: 620148 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35538982001, 35538982002, 35538982003, 35538982004, 35538982005

METHOD BLANK: 3371128 Matrix: Water
Associated Lab Samples: 35538982001, 35538982002, 35538982003, 35538982004, 35538982005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	4.6 U	10.0	4.6	03/24/20 10:56	

LABORATORY CONTROL SAMPLE: 3371129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	250	254	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3371130 3371131

Parameter	Units	35538915011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	4.6 U	250	250	240	242	96	97	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: Moped Hospital
Pace Project No.: 35538982

QC Batch: 621012 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35538982001, 35538982002, 35538982003, 35538982004, 35538982005

METHOD BLANK: 3374729 Matrix: Water
Associated Lab Samples: 35538982001, 35538982002, 35538982003, 35538982004, 35538982005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	0.30 U	1.0	0.30	03/26/20 11:40	
Ethylbenzene	ug/L	0.30 U	1.0	0.30	03/26/20 11:40	
m&p-Xylene	ug/L	2.1 U	4.0	2.1	03/26/20 11:40	
Methyl-tert-butyl ether	ug/L	0.51 U	2.0	0.51	03/26/20 11:40	
o-Xylene	ug/L	0.27 U	1.0	0.27	03/26/20 11:40	
Toluene	ug/L	0.33 U	1.0	0.33	03/26/20 11:40	
Xylene (Total)	ug/L	2.1 U	5.0	2.1	03/26/20 11:40	
1,2-Dichloroethane-d4 (S)	%	114	70-130		03/26/20 11:40	
4-Bromofluorobenzene (S)	%	92	70-130		03/26/20 11:40	
Toluene-d8 (S)	%	110	70-130		03/26/20 11:40	

LABORATORY CONTROL SAMPLE: 3374730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.0	100	70-130	
Ethylbenzene	ug/L	20	18.9	94	70-130	
m&p-Xylene	ug/L	40	38.5	96	70-130	
Methyl-tert-butyl ether	ug/L	20	16.7	83	64-124	
o-Xylene	ug/L	20	18.6	93	70-130	
Toluene	ug/L	20	18.6	93	70-130	
Xylene (Total)	ug/L	60	57.0	95	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3375017

Parameter	Units	35538968038 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	0.30 U	20	20.3	102	70-130	
Ethylbenzene	ug/L	0.30 U	20	19.6	98	70-130	
m&p-Xylene	ug/L	2.1 U	40	40.2	100	70-130	
Methyl-tert-butyl ether	ug/L	0.51 U	20	15.8	79	64-124	
o-Xylene	ug/L	0.27 U	20	19.2	96	70-130	
Toluene	ug/L	0.33 U	20	19.9	99	70-130	
Xylene (Total)	ug/L	2.1 U	60	59.3	99	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: Moped Hospital
Pace Project No.: 35538982

SAMPLE DUPLICATE: 3375016

Parameter	Units	35538968037 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	0.30 U	0.30 U		40	
Ethylbenzene	ug/L	0.30 U	0.30 U		40	
m&p-Xylene	ug/L	2.1 U	2.1 U		40	
Methyl-tert-butyl ether	ug/L	0.51 U	0.51 U		40	
o-Xylene	ug/L	0.27 U	0.27 U		40	
Toluene	ug/L	0.33 U	0.33 U		40	
Xylene (Total)	ug/L	2.1 U	2.1 U		40	
1,2-Dichloroethane-d4 (S)	%	111	108		40	
4-Bromofluorobenzene (S)	%	93	92		40	
Toluene-d8 (S)	%	111	105		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: Moped Hospital
Pace Project No.: 35538982

QC Batch: 620449 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35538982001, 35538982002, 35538982003, 35538982004, 35538982005

METHOD BLANK: 3372489 Matrix: Water
Associated Lab Samples: 35538982001, 35538982002, 35538982003, 35538982004, 35538982005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.19 U	2.0	0.19	03/25/20 18:26	
2-Methylnaphthalene	ug/L	0.68 U	2.0	0.68	03/25/20 18:26	
Acenaphthene	ug/L	0.040 U	0.50	0.040	03/25/20 18:26	
Acenaphthylene	ug/L	0.030 U	0.50	0.030	03/25/20 18:26	
Anthracene	ug/L	0.043 U	0.50	0.043	03/25/20 18:26	
Benzo(a)anthracene	ug/L	0.055 U	0.10	0.055	03/25/20 18:26	
Benzo(a)pyrene	ug/L	0.12 U	0.20	0.12	03/25/20 18:26	
Benzo(b)fluoranthene	ug/L	0.027 U	0.10	0.027	03/25/20 18:26	
Benzo(g,h,i)perylene	ug/L	0.15 U	0.50	0.15	03/25/20 18:26	
Benzo(k)fluoranthene	ug/L	0.16 U	0.50	0.16	03/25/20 18:26	
Chrysene	ug/L	0.026 U	0.50	0.026	03/25/20 18:26	
Dibenz(a,h)anthracene	ug/L	0.13 U	0.15	0.13	03/25/20 18:26	
Fluoranthene	ug/L	0.018 U	0.50	0.018	03/25/20 18:26	
Fluorene	ug/L	0.088 U	0.50	0.088	03/25/20 18:26	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	0.15	0.12	03/25/20 18:26	
Naphthalene	ug/L	0.29 U	2.0	0.29	03/25/20 18:26	
Phenanthrene	ug/L	0.16 U	0.50	0.16	03/25/20 18:26	
Pyrene	ug/L	0.032 U	0.50	0.032	03/25/20 18:26	
2-Fluorobiphenyl (S)	%	71	38-92		03/25/20 18:26	
p-Terphenyl-d14 (S)	%	85	54-112		03/25/20 18:26	

LABORATORY CONTROL SAMPLE: 3372490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	5	3.5	70	40-96	
2-Methylnaphthalene	ug/L	5	3.5	70	40-94	
Acenaphthene	ug/L	5	3.6	73	42-96	
Acenaphthylene	ug/L	5	3.7	74	39-90	
Anthracene	ug/L	5	3.9	78	46-109	
Benzo(a)anthracene	ug/L	5	4.3	87	50-116	
Benzo(a)pyrene	ug/L	5	4.5	89	48-117	
Benzo(b)fluoranthene	ug/L	5	4.5	89	51-124	
Benzo(g,h,i)perylene	ug/L	5	4.0	80	47-121	
Benzo(k)fluoranthene	ug/L	5	4.7	95	50-125	
Chrysene	ug/L	5	4.5	90	53-122	
Dibenz(a,h)anthracene	ug/L	5	4.0	79	45-123	
Fluoranthene	ug/L	5	4.4	89	52-119	
Fluorene	ug/L	5	3.8	75	44-100	
Indeno(1,2,3-cd)pyrene	ug/L	5	4.0	80	46-121	
Naphthalene	ug/L	5	3.5	71	40-91	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA

Project: Moped Hospital
Pace Project No.: 35538982

LABORATORY CONTROL SAMPLE: 3372490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	5	4.1	81	47-111	
Pyrene	ug/L	5	4.4	89	51-120	
2-Fluorobiphenyl (S)	%			73	38-92	
p-Terphenyl-d14 (S)	%			88	54-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3372818 3372819

Parameter	Units	35539157001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	1.2 I	5	5	5.1	4.9	78	75	40-96	3	40	
2-Methylnaphthalene	ug/L	0.88 I	5	5	4.7	4.6	76	74	40-94	3	40	
Acenaphthene	ug/L	0.040 U	5	5	3.8	3.7	75	74	42-96	2	40	
Acenaphthylene	ug/L	0.030 U	5	5	3.8	3.7	76	74	39-90	3	40	
Anthracene	ug/L	0.043 U	5	5	3.9	3.9	79	78	46-109	0	40	
Benzo(a)anthracene	ug/L	0.055 U	5	5	4.3	4.3	86	85	50-116	0	40	
Benzo(a)pyrene	ug/L	0.12 U	5	5	4.4	4.4	89	88	48-117	0	40	
Benzo(b)fluoranthene	ug/L	0.027 U	5	5	4.4	4.3	88	87	51-124	1	40	
Benzo(g,h,i)perylene	ug/L	0.15 U	5	5	3.9	3.8	77	76	47-121	2	40	
Benzo(k)fluoranthene	ug/L	0.16 U	5	5	4.6	4.6	93	93	50-125	0	40	
Chrysene	ug/L	0.026 U	5	5	4.4	4.4	89	88	53-122	1	40	
Dibenz(a,h)anthracene	ug/L	0.13 U	5	5	3.9	3.8	78	77	45-123	1	40	
Fluoranthene	ug/L	0.018 U	5	5	4.4	4.4	89	88	52-119	1	40	
Fluorene	ug/L	0.088 U	5	5	4.0	3.9	79	77	44-100	2	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.12 U	5	5	3.9	3.9	78	77	46-121	1	40	
Naphthalene	ug/L	5.1	5	5	10.9	10.7	116	112	40-91	2	40	J(M1)
Phenanthrene	ug/L	0.16 U	5	5	4.1	4.1	82	81	47-111	1	40	
Pyrene	ug/L	0.032 U	5	5	4.4	4.4	88	88	51-120	0	40	
2-Fluorobiphenyl (S)	%						74	72	38-92			
p-Terphenyl-d14 (S)	%						84	84	54-112			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALIFIERS

Project: Moped Hospital
Pace Project No.: 35538982

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
3610 Park Central Blvd N
Pompano Beach, FL 33064
(954)582-4300

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Moped Hospital
Pace Project No.: 35538982

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35538982001	**MW-1**	EPA 3010	620148	EPA 6010	620154
35538982002	**MW-2**	EPA 3010	620148	EPA 6010	620154
35538982003	**MW-3**	EPA 3010	620148	EPA 6010	620154
35538982004	**MW-4**	EPA 3010	620148	EPA 6010	620154
35538982005	**MW-A**	EPA 3010	620148	EPA 6010	620154
35538982001	**MW-1**	EPA 3510	620449	EPA 8270 by SIM	620764
35538982002	**MW-2**	EPA 3510	620449	EPA 8270 by SIM	620764
35538982003	**MW-3**	EPA 3510	620449	EPA 8270 by SIM	620764
35538982004	**MW-4**	EPA 3510	620449	EPA 8270 by SIM	620764
35538982005	**MW-A**	EPA 3510	620449	EPA 8270 by SIM	620764
35538982001	**MW-1**	EPA 8260	621012		
35538982002	**MW-2**	EPA 8260	621012		
35538982003	**MW-3**	EPA 8260	621012		
35538982004	**MW-4**	EPA 8260	621012		
35538982005	**MW-A**	EPA 8260	621012		

WO# : 35538982

35538982

Pace Analytical
WWW.PACELABS.COM

Request Document

All relevant fields must be completed accurately

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Invoice Information:	
Company:	Premium Environmental Consulting, LLC	Report To:	John Baeringer	Attention:	
Address:	1350 NE 23 Place	Copy To:		Company Name:	Same as Sect. A
Pompano Beach, FL 33064				Address:	
Email:	jbaeringer@pecfla.com	Purchase Order #:		Pace Quote:	
Phone:	(561)613-9985 Fax:	Project Name:	Moped Hospital	Pace Project Manager:	terrence.anderson@pacelabs.com
Requested Due Date:	5 day TAT	Project #:		Pace Profile #:	10456-4

Regulatory Agency	
State / Location	FL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Lead, Total	PAH by 8270 SIM (low vol)	8260 BTEX/MTBE	Residual Chlorine (Y/N)	
1	MW-1	WT		3/20/20	4:05 PM				5	1		1	3						X	X	X		Cash pricing
2	MW-2	WT		3/20/20	4:50 PM				5	1		1	3						X	X	X		
3	MW-3	WT		3/20/20	5:45 PM				5	1		1	3						X	X	X		
4	MW-4	WT		3/20/20	7:15 PM				5	1		1	3						X	X	X		
5	MW-A	WT		3/20/20	6:30 PM				5	1		1	3						X	X	X		
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	John Baeringer	3/21/20	3:53PM	[illegible]	3/21/20	1553	-0.3

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	John Baeringer					
SIGNATURE of SAMPLER:	John C. Baeringer	DATE Signed: 3/21/20				

Sample Condition Upon Receipt Form (SCUR)

WO#: 35538982
PM: TGA Due Date: 03/30/20
CLIENT: 36-PREENV

Project
Project Manager
Client:

Date and Initials of person:
Examining contents: RD
Label:
Deliver:
pH:

Thermometer Used: T-343 Date: 3/21/20 Time: 1553 Initials: RD

State of Origin: ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C	-0.3 (Visual)	0.2 (Correction Factor)	-0.3 (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** (Wet) Blue Dry None

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☑Yes ☐ No ☐N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐N/A	
Relinquished Signature & Sampler Name COC	☑Yes ☐ No ☐N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐N/A	
Sufficient Volume	☑Yes ☐ No ☐N/A	
Correct Containers Used	☑Yes ☐ No ☐N/A	
Containers Intact	☑Yes ☐ No ☐N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐ No ☐N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	☑Yes ☐ No ☐N/A	Preservative: Lot #/Trace #: Date: Time: Initials:
Headspace in VOA Vials? (>6mm):	☐Yes ☑ No ☐N/A	
Trip Blank Present:	☐Yes ☑ No ☐N/A	

Client Notification/ Resolution:
Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

ATTACHMENT C

GROUNDWATER ANALYTICAL SUMMARY TABLES FROM 2011 LSSI SITE ASSESSMENT REPORT

TABLE 3
SUMMARY OF GROUNDWATER ANALYSES
VOAS BY EPA METHOD 8260 & LEAD BY EPA METHOD 6010

MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP FACILITY ID: 44/8841232

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Lead	Methylene Chloride
Table I GCTLs		**1**	**40**	**30**	**20**	**20**	**15**	**5**
Table V NADSCs		**100**	**400**	**300**	**200**	**200**	**150**	**500**
MW-1	8/19/2011	**854**	18.3	**48.3**	**170**	0.500 U	**30.8**	**151**
MW-2	8/19/2011	**29.8**	0.500 U	5.30	4.6	0.500 U	**23.1**	2.50 U
MW-3	8/19/2011	**33.8**	10.6	**92.4**	**44**	0.500 U	NS	NS
MW-4	8/19/2011	**269**	0.500 U	**30.6**	2.0	0.500 U	NS	NS
MW-A	8/19/2011	0.500 U	0.500 U	2.40	0.50 U	0.500 U	NS	NS

NOTES:

All results reported in micrograms per liter (ug/l). NS = Not Sampled

"BTEX" denotes volatile organic aromatics (benzene, toluene, ethylbenzene, and total xylenes). "MTBE" denotes methyl-tert-butyl ether.

"Table I GCTLs" refers to Table I, Groundwater Cleanup Target Levels (GCTLs) of FDEP Chapter 62-777 FAC.

"Table V NADSCs" refers to Table V, Natural Attenuation Default Source Concentrations (NADSCs) of FDEP Chapter 62-777 FAC.

"I" = Result is between the Practical Quantitative Limit (PQL) and the Method Detection Limit (MDL).

"U" = The compound was analyzed for but not detected.

BOLD numbers indicate a Table I GCTL exceedance

BOLD Underlined numbers indicate a Table V NADSC exceedance

(from 2011 LSSI Report prepared by HCR)

TABLE 4
SUMMARY OF GROUNDWATER ANALYSES
PAHs BY EPA METHOD 8270 & TRPH BY FL-PRO

MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP FACILITY ID: 44/8841232

Sample Location	Sample Date	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a) Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenzo(a,h)-Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d) Pyrene	1-methyl Naphthalene	2-methyl Naphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH
Table I GCTLs		20	210	2100	0.05	0.2	0.05	210	0.5	4.8	0.005	280	280	0.05	28	28	14	210	210	5,000
Table V NADSCs		200	2100	21000	5	20	5	2100	50	480	0.5	2800	2800	5	280	280	140	2100	2100	50,000
MW-1	8/19/2011	6.78	0.0264 U	0.891 I	**0.0630 I**	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	0.509 I	6.29	0.0107 U	41.8	56.8	202	7.84	0.641	1,170
MW-2	8/19/2011	10.0	0.0264 U	1.61	**0.0990 I**	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	2.03	9.19	0.0107 U	37.9	61.7	178	11.3	0.958	1,080
MW-3	8/19/2011	**31.0**	0.0264 U	3.68	**0.457**	0.0960 I	**0.125**	0.0370 I	0.109	0.386	0.00560 U	4.81	23.0 I	**0.0300 I**	107	112	816	23.2 I	2.79	2,670
MW-4	8/19/2011	0.629 I	0.0264 U	0.00560 U	0.0113 U	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	0.0900 I	0.723 I	0.0107 U	94.9	184	438	0.719 I	0.0920 I	2,390
MW-A	8/19/2011	0.165 I	0.0264 U	0.00560 U	0.0113 U	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	0.0570 I	0.190 I	0.0107 U	13.8	10.9	17.8	0.217 I	0.0510 I	534 I

NOTES:

All results reported in micrograms per liter (ug/L). NS = Not Sampled

"PAHs" denotes Polynuclear Aromatic Hydrocarbons. "TRPH" denotes Total Recoverable Petroleum Hydrocarbons.

"Table I GCTLs" refers to Table I, Groundwater Cleanup Target Levels (GCTLs) of FDEP Chapter 62-777 FAC.

"Table V NADSCs" refers to Table V, Natural Attenuation Default Source Concentrations (NADSCs) of FDEP Chapter 62-777 FAC.

"I" = Result is between the Practical Quantitative Limit (PQL) and the Method Detection Limit (MDL).

"U" = The compound was analyzed for but not detected.

BOLD numbers indicate a Table I GCTL exceedance

BOLD Underlined numbers indicate a Table V NADSC exceedance

(From 2011 LSSI Report prepared by HCR)

HCR

HCR
HANDEX CONSULTING & REMEDIATION, LLC

September 30, 2011

Ms. Michelle Allard, P.G.
Florida Department of Environmental Protection
Bureau of Petroleum Storage Systems, Section 5
2600 Blair Stone Road, MS 4585
Tallahassee, FL 32399-2400

RE: Site Assessment Report
Moped Hospital
601 Truman Avenue
Key West, Monroe County, Florida
FDEP Facility ID No.: 44/8841232
HCR Project No.: 128090.001
Discharge Date: 6/20/1996 (ATRP-Partial)
Site Priority Ranking Score: 9

Dear Ms. Allard,

Handex Consulting & Remediation-Southeast, LLC (HCR) is pleased to provide the Florida Department of Environmental Protection (FDEP) with this Site Assessment Report for the above-referenced facility. Should you have any questions, please contact the undersigned at 561-243-9551, extension 1318.

Sincerely,
HANDEX CONSULTING AND REMEDIATION-SE, LLC

Philip R Cook

Philip Cook, P.G.
Senior Project Manager

cc: Mr. Stephen P. Olson, MCOLSON Corporation, 601 Truman Avenue, Key West, FL 33040-3234

HCR
HANDEX CONSULTING
& REMEDIATION, LLC

SITE ASSESSMENT REPORT

SEPTEMBER 2011

Moped Hospital
601 Truman Avenue
Key West, Monroe County, Florida
FDEP Facility ID No.: 44/8841232

Prepared for:

Ms. Michelle Allard, P.G.
Florida Department of Environmental Protection
Bureau of Petroleum Storage Systems, Section 5
2600 Blair Stone Road, MS 4585
Tallahassee, FL 32399-2400

Prepared by:

HANDEX CONSULTING AND REMEDIATION-SE, LLC.
430 South Congress Avenue, Suite 1D
Delray Beach, Florida 33445
Geology Business License # GB 85

Mallory Ott
Staff Hydrogeologist

9-30-11
Date

Philip R. Cook, P.G.
Senior Project Manager

9-30-11
Date

SITE ASSESSMENT REPORT

Moped Hospital
601 Truman Avenue
Key West, Monroe County, Florida
FDEP Facility ID No.: 44/8841232

Statement of Professional Certification

I, Philip R. Cook, P.G. No. 1154, certify that I currently hold an active license in the State of Florida and am competent through education or experience to provide the geological service contained in this report. I further certify that, in my professional judgment, the components of this Site Assessment Report dated September 30, 2011 satisfy the requirements set forth in FDEP Task Assignment 2011-95-W94589, and was prepared by me or under my responsible charge. Moreover, I certify that Handex Consulting and Remediation – Southeast, LLC holds an active Geology Business License #522 to provide the geological service.

Reviewed by: Philip R Cook 9-30-11

Philip R. Cook, P.G.
No. 1154
Senior Project Manager

HCR

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SITE ASSESSMENT REPORT

Moped Hospital
601 Truman Avenue
Key West, Monroe County, Florida
FDEP Facility ID No.: 44/8841232

1.0 INTRODUCTION

Handex Consulting and Remediation, LLC-SE (HCR) has prepared this Site Assessment Report (SAR) for the Moped Hospital facility located at 601 Truman Avenue, Key West, Monroe County, Florida. A Site Map depicting the facility layout is included as **Figure 1**.

The site is currently in the Petroleum Cleanup Pre-Approval program with a site score of 9. This SAR describes the methodology and results of site assessment activities performed at the site under the Low-Scored Site Initiative (LSSI) program in August 2011.

2.0 SITE HISTORY

According to the FDEP SCTM database, the facility utilized three 3,000-gallon Underground Storage Tanks (USTs) containing unknown fuels, one 550-gallon waste oil UST and one 550-gallon UST containing mineral spirits (non-regulated material). Documentation found in the OCULUS database indicates that these USTs were abandoned on site on June 14, 1988 by Hauber Enterprises, Inc. On June 28, 1996, George B. Wittmer Associates, Inc. (GBWA) submitted a Limited Preliminary Site Investigation (LPSI) letter report which documented the advancement of two soil borings to assess the soil quality conditions on site. The results of the soil field analysis and inspection yielded moderate to strong petroleum odors and Photoionization Detector (PID) readings up to 420 parts per million (ppm). Based on the results of the investigation, a Discharge Reporting Form (DRF) dated June 28, 1996 was submitted to FDEP. On November 6, 1996, FDEP deemed the site eligible for state-administered cleanup under the Abandoned Tank Restoration Program (ATRP) based on the contamination related to storage of petroleum products. However, the eligibility excluded waste oil and mineral spirits contamination. No other documentation was found available in the OCULUS database from 1996 to 2011.

A cost proposal to conduct site assessment activities under the Low Score Site Initiative (LSSI) program was submitted and Work Order #2011-95-W94589 was issued on June 7, 2011. A copy of Work Order #2011-95-W94589 is included as **Appendix A**.

3.0 ASSESSMENT ACTIVITIES

3.1 Soil Sampling (August 16 & 17, 2011)

On August 16 and 17, 2011, HCR advanced soil borings SB-1, SB-2, SB-3, SB-4, SB-8, and SB-9 across the site. Soil borings SB-4 and SB-8 were advanced to a total depth of approximately six feet below land surface (BLS) and the remaining soil borings were advanced to a total depth of approximately 12 feet BLS. After consultation with FDEP Team Five, the number of borings indicated in the work order was reduced due to the difficulty in conducting the borings in native limestone.

The soil borings were advanced in 2-foot depth increments to the water table and collected using a decontaminated stainless steel hand auger. Each soil sample was field screened using a Toxic Vapor Analyzer (TVA). The TVA was utilized in general accordance with the protocol outlined in Chapter 62-770.200(12) F.A.C. Prior to analysis, the TVA was calibrated to a methane standard as recommended by the manufacturer. If an unfiltered TVA reading was detected, an additional reading was taken with the use of an activated charcoal filter to correct for methane. The total corrected net hydrocarbon measurement was determined by subtracting the filtered reading from the unfiltered reading. The TVA screening results ranged from less than 1 part per million (ppm) to 1338 ppm.

During the advancement of the soil borings the general shallow surficial lithology was determined to consist of concrete to approximately one foot BLS followed by limestone to approximately 12 feet BLS. The lithologic boring logs summarizing the soil sample descriptions and TVA field data are included as **Appendix B**.

On August 17, 2011, soil samples SB-4 (4-5') and SB-8 (0-2') were collected and shipped to Pace Analytical, a Florida-certified environmental laboratory (FDEP CompQAP #E86240), for laboratory analyses of benzene, toluene, ethylbenzene, total xylenes (BTEX) plus methyl-tert-butyl-ether (MTBE) by Environmental Protection Agency (EPA) Method 8260B, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270C, and Total Recoverable Petroleum Hydrocarbons (TRPH).

Laboratory analysis of the soil samples collected from SB-4 (4-5') and SB-8 (0-2') indicated hydrocarbon concentration that were either within the Table II Soil Cleanup Target Levels (SCTLs) or below the laboratory detection limit (BDL). However, note that the laboratory detection limit for benzene (0.0264 mg/kg) in soil sample SB-4 (4-5') was slightly above the Residential Direct Exposure Table II SCTL (0.007 mg/kg).

Additionally, the Benzo(a)pyrene Conversion Table was utilized for soil sample SB-8 (0-2') since laboratory analytical results indicated the presence of at least one of the carcinogenic PAHs at a concentration equal to or higher than the

Method Detection Limit (MDL). Based on the calculation, the total benzo(a)pyrene equivalents concentration was determined to be below the FDEP Residential Direct Exposure SCTL.

The soil laboratory analytical data is summarized on **Tables 1** and **2** and depicted in **Figures 2** and **3**. A copy of the Benzo(a)pyrene Conversion Table is included as **Appendix C**. A copy of the soil laboratory analytical report and chain-of-custody documentation are included in **Appendix D.**

3.2 Monitoring Well Installation (August 16 & 17, 2011)

On August 16 & 17, 2011, HCR installed shallow monitoring wells MW-1, MW-2, MW-3, and MW-4 to assess groundwater quality conditions at the site. Monitoring well MW-1 was installed in the location of SB-1, MW-2 was installed in the location of SB-2, MW-3 was installed in the location of SB-3 and MW-4 was installed in the location of SB-9. The shallow monitoring wells were installed with a track mounted Geoprobe direct-push rig to a total depth of approximately 12 feet BLS with 10 feet of 0.010-inch slotted screen located from 2 to 12 feet BLS. The annular space between the well screen and the borehole was filled with a 20/30 grade sand filter pack to a height of approximately one foot above the well screen. The filter pack was sealed with a layer of 30/65 grade fine sand, followed by cement grout to the surface. A locking cap was placed on top of each well. The wells were completed with eight-inch diameter manholes within 18-inch by 18-inch concrete pads. The monitoring wells were developed until clear. The well construction and development logs are included as **Appendix E**.

3.3 Groundwater Sampling (August 19, 2011)

On August 19, 2011, HCR collected depth to water measurements and groundwater samples from newly installed monitoring wells MW-1, MW-2, MW-3, and MW-4 and existing monitoring well MW-A.

Groundwater samples were collected in general accordance with the revised Chapter 62-160 F.A.C. Standard Operating Procedures (SOP) for Field Activities (DEP-SOP-001/01), which became effective on June 8, 2004. The groundwater samples were placed on ice and shipped to Pace Analytical, a Florida-certified environmental laboratory (FDEP CompQAP #E86240). Groundwater samples collected from monitoring wells MW-1 and MW-2 were analyzed for the Table B parameters and groundwater samples collected from monitoring wells MW-3, MW-4, and MW-A were analyzed for BTEX plus MTBE by EPA Method 8260, PAHs by EPA Method 8270, and TRPH by FL-PRO. Copies of the FDEP groundwater sampling logs are included as **Appendix F**.

Laboratory analyses of the groundwater samples collected on August 19, 2011, reported dissolved hydrocarbon concentrations in monitoring wells MW-1, MW-2, MW-3, and MW-4 that were above the Table V Natural Attenuation Default

Source Concentrations (NADSCs) and dissolved hydrocarbon concentrations in monitoring well MW-A that were above the Table I Groundwater Cleanup Target Levels (GCTLS). Additionally, lead was reported above the Table I GCTL in the samples collected from monitoring wells MW-1 and MW-2. Methylene chloride was also reported above the Table I GCTL in the sample collected from monitoring well MW-1; however, methylene chloride is a common laboratory contaminant and was also detected in the trip blank for this site.

A summary of the August 2011 groundwater analysis is presented on **Tables 3** and **4** and illustrated on **Figures 4** and **5.** The laboratory analytical report and chain-of-custody documentation for this sampling event are included in **Appendix D**.

4.0 CONCLUSIONS & RECOMMENDATIONS

On August 16 and 17, 2011, HCR advanced soil borings SB-1, SB-2, SB-3, SB-4, SB-8, and SB-9 across the site. Soil borings SB-4 and SB-8 were advanced to a total depth of approximately six feet BLS and the remaining soil borings were advanced to a total depth of approximately 12 feet BLS. The soil borings were advanced in 2-foot depth increments to the water table and collected using a decontaminated stainless steel hand auger. Each soil sample was field screened using a TVA. The TVA screening results ranged from less than 1 ppm to 1338 ppm.

On August 17, 2011, soil samples SB-4 (4-5') and SB-8 (0-2') were collected for laboratory analyses of BTEX plus MTBE by EPA Method 8260B, PAHs by EPA Method 8270C, and TRPH.

Laboratory analysis of the soil samples collected from SB-4 (4-5') and SB-8 (0-2') indicated hydrocarbon concentration that were either within the Table II SCTLs or BDL. Additionally, the Benzo(a)pyrene Conversion Table was utilized for soil sample SB-8 (0-2') since laboratory analytical results indicated the presence of at least one of the carcinogenic PAHs at a concentration equal to or higher than the MDL. Based on the calculation, the total benzo(a)pyrene equivalents concentration was determined to be below the FDEP Residential Direct Exposure SCTL.

Additionally, on August 16 & 17, 2011, HCR installed shallow monitoring wells MW-1, MW-2, MW-3, and MW-4 to assess groundwater quality conditions at the site. Monitoring well MW-1 was installed in the location of SB-1, MW-2 was installed in the location of SB-2, MW-3 was installed in the location of SB-3, and MW-4 was installed in the location of SB-9. The shallow monitoring wells were installed with a track mounted Geoprobe direct-push rig to a total depth of approximately 12 feet BLS with 10 feet of 0.010-inch slotted screen located from 2 to 12 feet BLS.

On August 19, 2011, HCR collected depth to water measurements and groundwater samples from newly installed monitoring wells MW-1, MW-2, MW-3, and MW-4 and existing monitoring well MW-A.

Groundwater samples collected from monitoring wells MW-1 and MW-2 were analyzed for the Table B parameters and groundwater samples collected from monitoring wells MW-3, MW-4, and MW-A were analyzed for BTEX plus MTBE by EPA Method 8260, PAHs by EPA Method 8270, and TRPH by FL-PRO.

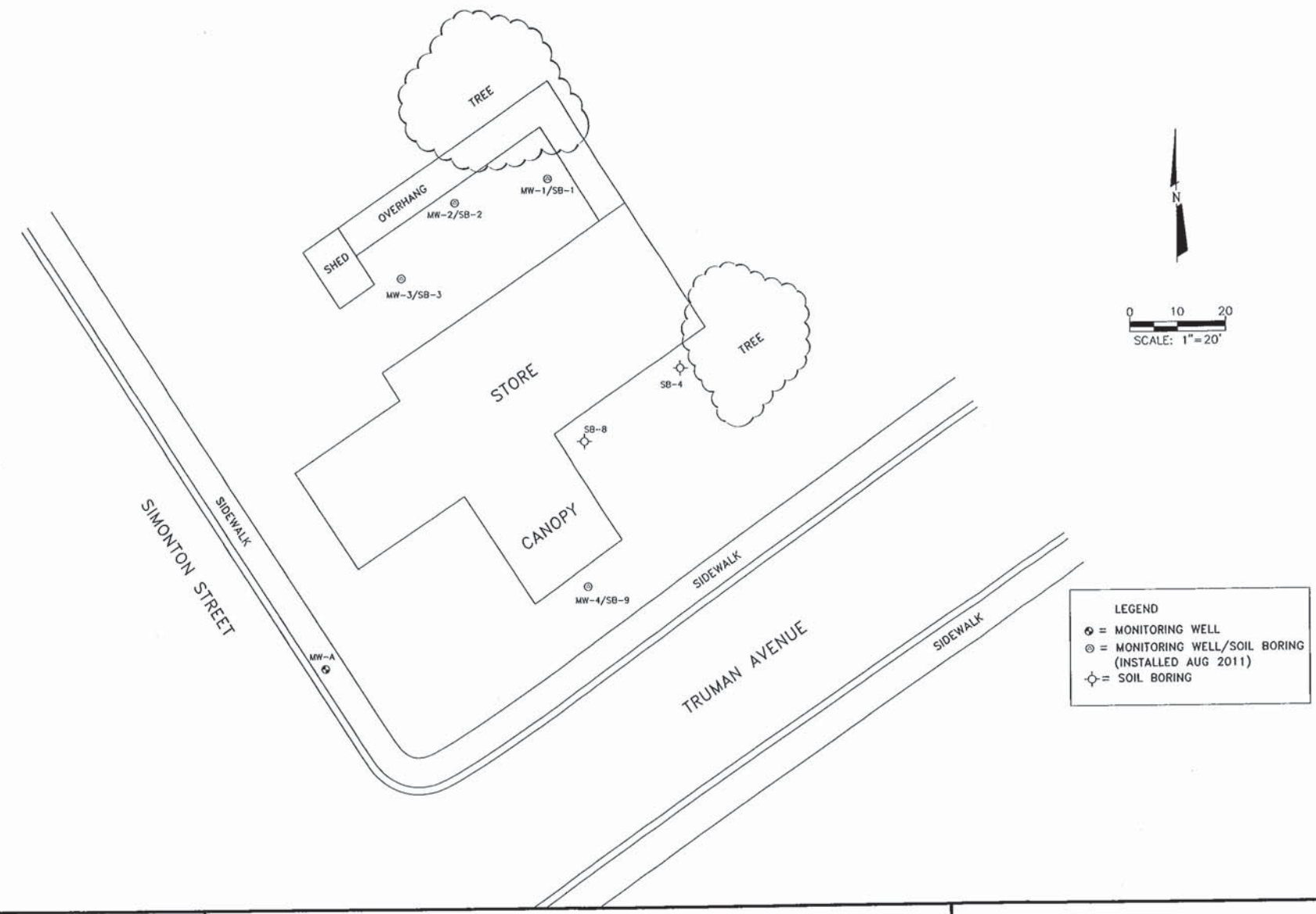
Laboratory analyses of the groundwater samples collected on August 19, 2011, reported dissolved hydrocarbon concentrations in monitoring wells MW-1, MW-2, MW-3, and MW-4 that were above the Table V NADSCs and dissolved hydrocarbon concentrations in monitoring well MW-A that were above the Table I GCTLS. Additionally, lead was reported above the Table I GCTL in monitoring wells MW-1 and MW-2. Methylene chloride was also reported above the Table I GCTL in the sample collected from monitoring well MW-1; however, methylene chloride is a common laboratory contaminant and was also detected in the trip blank for this site.

Based on the groundwater laboratory analytical results the site does not currently qualify for an SRCO. Additional assessment activities at the site will be placed on hold until funding becomes available.

FIGURES

128090.001

DELRAY W:\PROJECTS\PETROL\INDP_OIL\MOPED HOSPITAL\001 LSSI\CADD\128090 SITE.DWG



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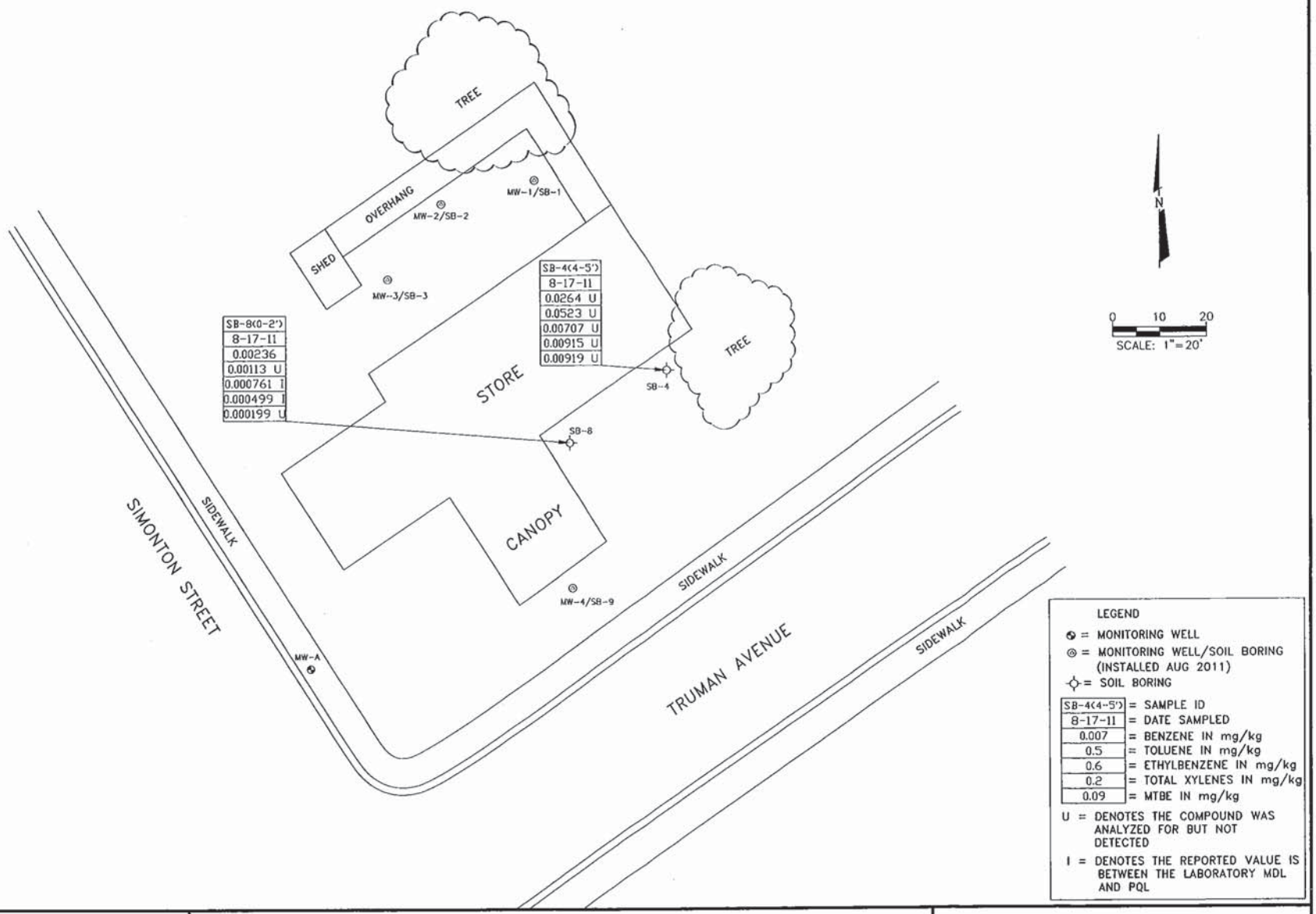
MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, FLORIDA
09-26-11

FIGURE 1
SITE MAP



LEGEND

- ⊗ = MONITORING WELL
- ◎ = MONITORING WELL/SOIL BORING (INSTALLED AUG 2011)
- ⊹ = SOIL BORING

SB-4(4-5')	= SAMPLE ID
8-17-11	= DATE SAMPLED
0.007	= BENZENE IN mg/kg
0.5	= TOLUENE IN mg/kg
0.6	= ETHYLBENZENE IN mg/kg
0.2	= TOTAL XYLENES IN mg/kg
0.09	= MTBE IN mg/kg

U = DENOTES THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED

I = DENOTES THE REPORTED VALUE IS BETWEEN THE LABORATORY MDL AND PQL

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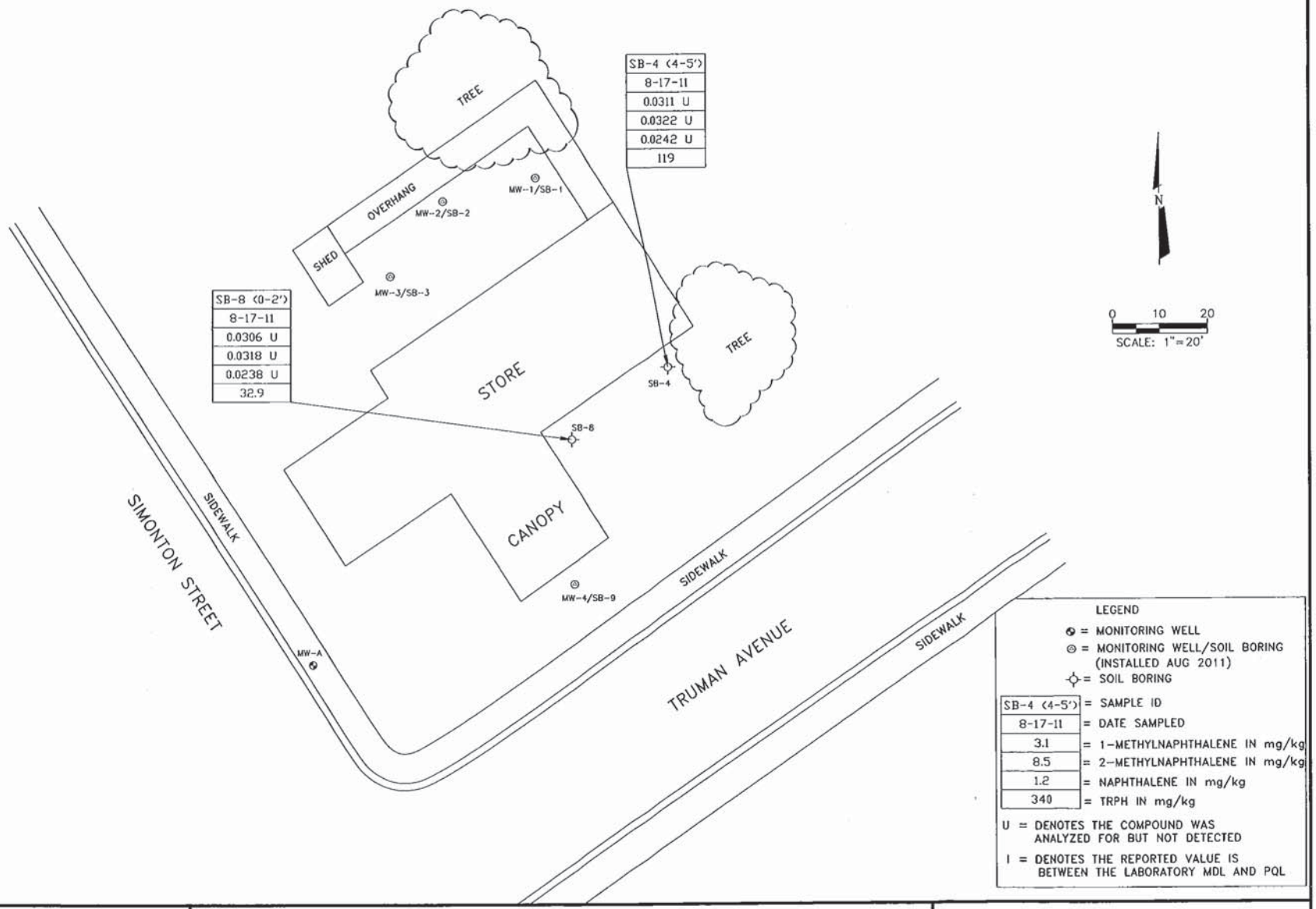
MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, FLORIDA

09-26-11

FIGURE 2
DISTRIBUTION OF BTEX & MTBE IN SOIL
AUGUST 17, 2011



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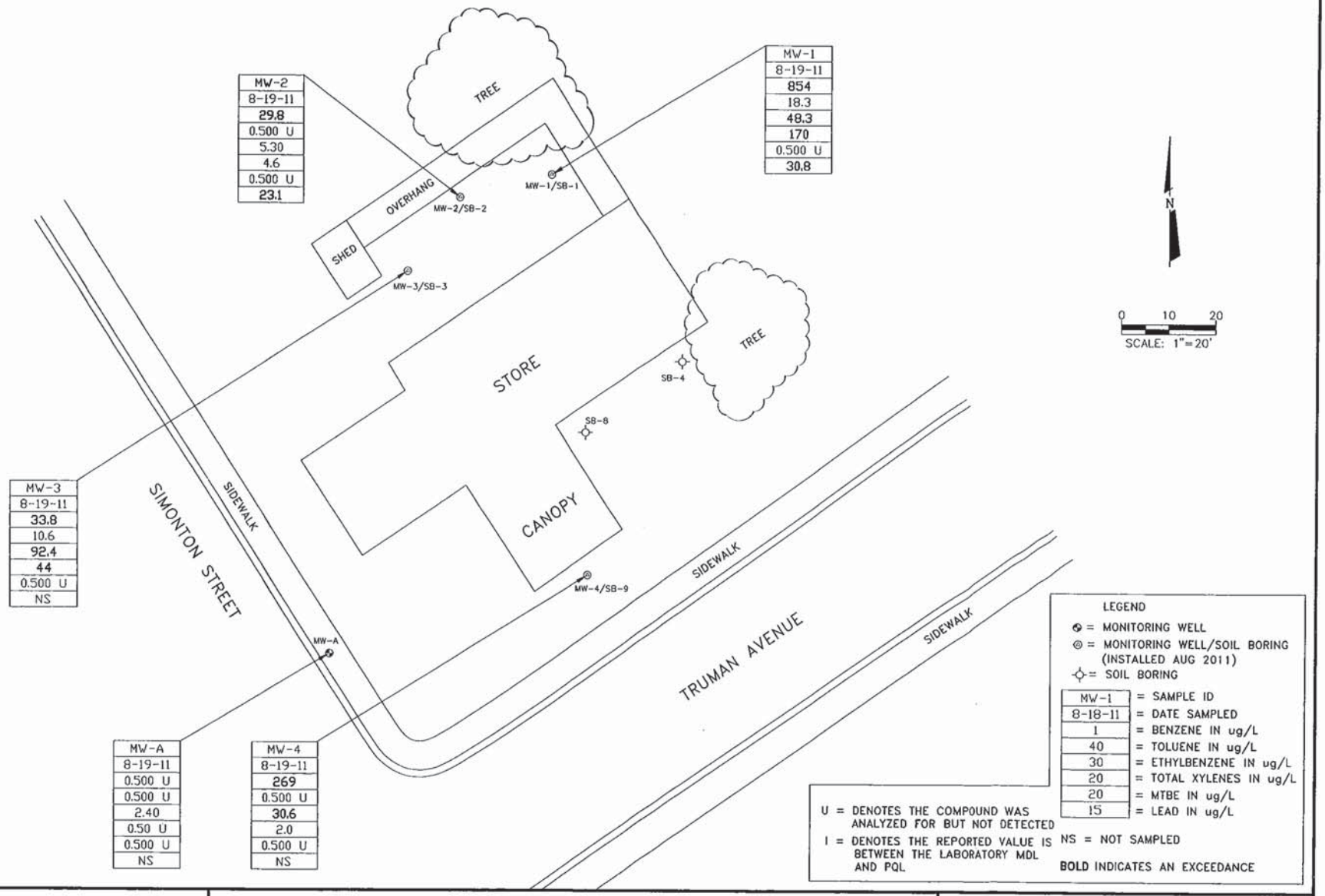
MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, FLORIDA

09-26-11

FIGURE 3
DISTRIBUTION OF PAHS & TRPH IN SOIL
AUGUST 17, 2011



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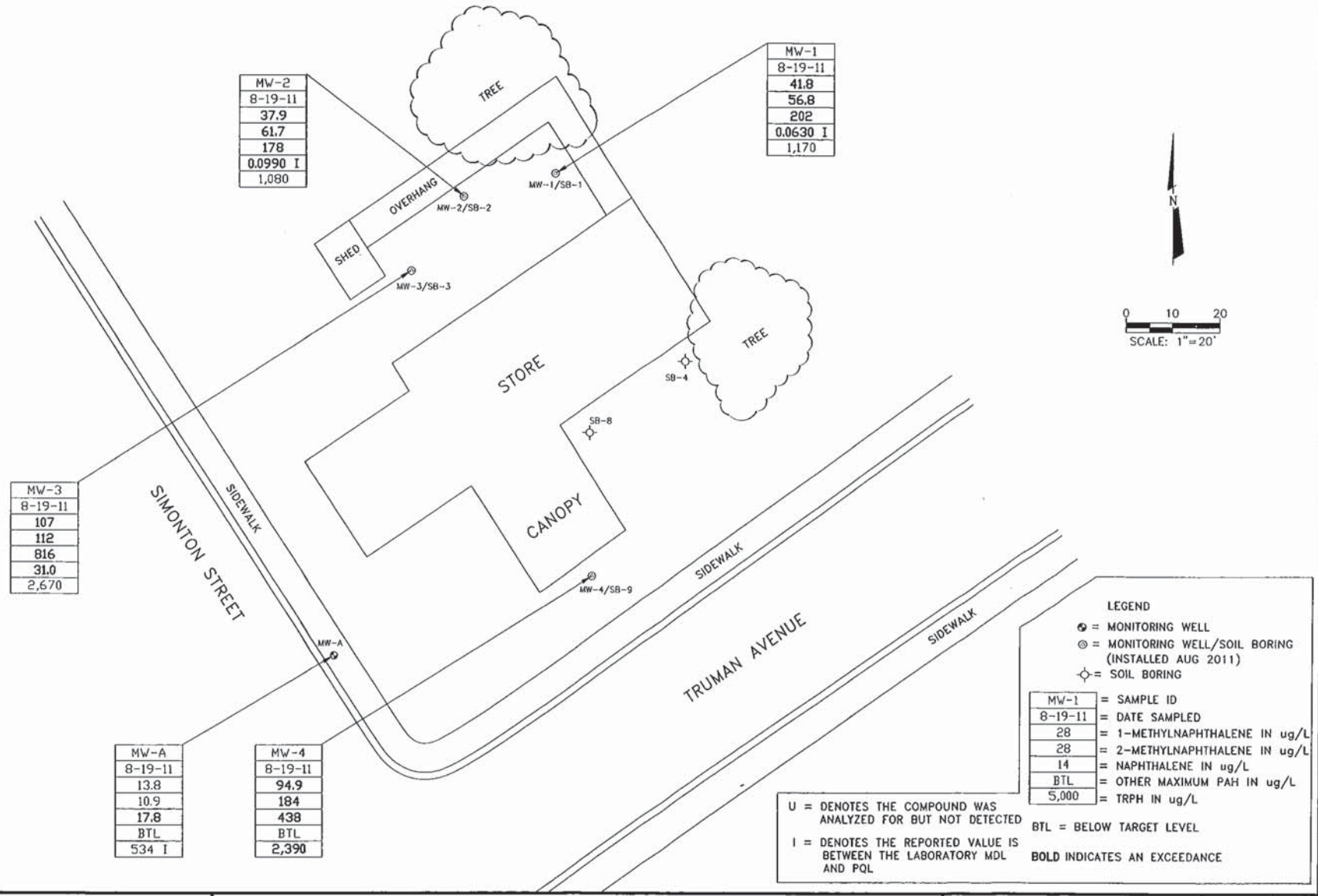
MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, FLORIDA

09-26-11

FIGURE 4
DISTRIBUTION OF VOAS & LEAD IN GROUNDWATER
AUGUST 19, 2011



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601 TRUMAN AVENUE
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09-26-11

FIGURE 5
DISTRIBUTION OF PAHS & TRPH IN GROUNDWATER
AUGUST 19, 2011

TABLES

TABLE 1
SUMMARY OF SOIL ANALYSES
BTEX + MTBE BY EPA METHOD 8260

MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP FACILITY ID: 44/8841232

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
Direct Exposure Residential		**1.2**	**7500**	**1500**	**130**	**4400**
Direct Exposure Commercial/Industrial		**1.7**	**60000**	**9200**	**700**	**2400**
Leachability Based on Groundwater Criteria		**0.007**	**0.5**	**0.6**	**0.2**	**0.09**
SB-4 (4-5')	8/17/2011	0.0264 U	0.0523 U	0.00707 U	0.00915 U	0.00919 U
SB-8 (0-2')	8/17/2011	0.00236	0.00113 U	0.000761 I	0.000499 I	0.000199 U

NOTES:

All results reported in milligrams per kilogram (mg/kg). NS = Not Sampled

"BTEX" denotes volatile organic aromatics (benzene, toluene, ethylbenzene, and total xylenes). "MTBE" denotes methyl-tert-butyl ether.

"Direct Exposure Residential" refers to Chapter 62-777 F.A.C. Table II Soil Cleanup Target Levels (SCTLs), Direct Exposure Residential Target Le

"Direct Exposure Commercial/Industrial" refers to Chapter 62-777 F.A.C. Table II Soil Cleanup Target Levels, Direct Exposure Commercial Target

"Leachability Based on Groundwater Criteria" refers to Chapter 62-777 F.A.C. Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria Target Levels. All SCTLs are from Chapter 62-777, FAC effective April 17, 2005.

"I" = Result is between the Practical Quantitative Limit (PQL) and the Method Detection Limit (MDL).

"U" = The compound was analyzed for but not detected.

BOLD numbers indicate Table II SCTL exceedance.

TABLE 2
SUMMARY OF SOIL ANALYSES
PAHs BY EPA METHOD 8270 & TRPH BY FL-PRO

MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP FACILITY ID: 44/8841232

Sample		Acenaph-	Acenaph-	Anthra-	Benzo(a)	Benzo(a)-	Benzo(b)-	Benzo(g,h,i)-	Benzo(k)-	Chrysene	Dibenzo(a,h)-	Fluor-	Fluorene	Indeno(1,2,3-c,d)	1-Methyl	2-Methyl	Naphth-	Phen-	Pyrene	TRPH
Location	Date	thene	thylene	cene	Anthracene	Pyrene	Fluoranthene	Perylene	Fluoranthene		Anthracene	anthene		Pyrene	Naphthalene	Naphthalene	alene	anthrene		
Direct Exposure Residential		**2,400**	**1,800**	**21,000**	**#**	**0.1**	**#**	**2,500**	**#**	**#**	**#**	**3,200**	**2,600**	**#**	**200**	**210**	**55**	**2,200**	**2,400**	**460**
Direct Exposure Commercial/Industrial		**20,000**	**20,000**	**300,000**	**#**	**0.7**	**#**	**52,000**	**#**	**#**	**#**	**59,000**	**33,000**	**#**	**1,800**	**2,100**	**300**	**36,000**	**45,000**	**2,700**
Leachability Based on Groundwater Criteria		**2.1**	**27**	**2,500**	**0.8**	**8**	**2.4**	**32,000**	**24**	**77**	**0.7**	**1,200**	**160**	**6.6**	**3.1**	**8.5**	**1.2**	**250**	**880**	**340**
SB-4 (4-5')	8/17/2011 √	0.0253 U	0.0345 U	0.0403 U	0.0322 U	0.0288 U	0.0230 U	0.0311 U	0.0380 U	0.0265 U	0.0311 U	0.0437 U	0.0265 U	0.0391 U	0.0311 U	0.0322 U	0.0242 U	0.0368 U	0.0380 U	119
SB-8 (0-2')	8/17/2011 √	0.0250 U	0.0341 U	0.0397 U	0.0318 U	0.0284 U	0.0291 I	0.0371 I	0.0375 U	0.0261 U	0.0306 U	0.0431 U	0.0261 U	0.0386 U	0.0306 U	0.0318 U	0.0238 U	0.0363 U	0.0375 U	32.9

NOTES:
All results reported in milligrams per kilogram (mg/kg).
"PAHs" denotes Polynuclear Aromatic Hydrocarbons. "TRPH" denotes Total Recoverable Petroleum Hydrocarbons.
"Direct Exposure Residential" refers to Chapter 62-777 F.A.C. Table II Soil Cleanup Target Levels (SCTLs), Direct Exposure Residential Target Levels.
"Direct Exposure Commercial/Industrial" refers to Chapter 62-777 F.A.C. Table II Soil Cleanup Target Levels, Direct Exposure Commercial Target Levels.
"Leachability Based on Groundwater Criteria" refers to Chapter 62-777 F.A.C. Table II Soil Cleanup Target Levels, Leachability Based on Groundwater Criteria Target Levels.
" # " indicates that each concentration must be converted to Benzo(a) pyrene (BaP) equivalent using the "BaP Conversion Table".
"All SCTLs are from Chapter 62-777, FAC effective April 17, 2005"
"I" = Result is between the Practical Quantitative Limit (PQL) and the Method Detection Limit (MDL).
"U" = The compound was analyzed for but not detected.
BOLD numbers indicate Table II SCTL exceedance.

TABLE 3
SUMMARY OF GROUNDWATER ANALYSES
VOAS BY EPA METHOD 8260 & LEAD BY EPA METHOD 6010

MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP FACILITY ID: 44/8841232

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Lead	Methylene Chloride
Table I GCTLs		**1**	**40**	**30**	**20**	**20**	**15**	**5**
Table V NADSCs		**100**	**400**	**300**	**200**	**200**	**150**	**500**
MW-1	8/19/2011	**854**	18.3	**48.3**	**170**	0.500 U	**30.8**	**151**
MW-2	8/19/2011	**29.8**	0.500 U	5.30	4.6	0.500 U	**23.1**	2.50 U
MW-3	8/19/2011	**33.8**	10.6	**92.4**	**44**	0.500 U	NS	NS
MW-4	8/19/2011	**269**	0.500 U	**30.6**	2.0	0.500 U	NS	NS
MW-A	8/19/2011	0.500 U	0.500 U	2.40	0.50 U	0.500 U	NS	NS

NOTES:

All results reported in micrograms per liter (ug/l). NS = Not Sampled

"BTEX" denotes volatile organic aromatics (benzene, toluene, ethylbenzene, and total xylenes). "MTBE" denotes methyl-tert-butyl ether.

"Table I GCTLs" refers to Table I, Groundwater Cleanup Target Levels (GCTLs) of FDEP Chapter 62-777 FAC.

"Table V NADSCs" refers to Table V, Natural Attenuation Default Source Concentrations (NADSCs) of FDEP Chapter 62-777 FAC.

"I" = Result is between the Practical Quantitative Limit (PQL) and the Method Detection Limit (MDL).

"U" = The compound was analyzed for but not detected.

BOLD numbers indicate a Table I GCTL exceedance

BOLD Underlined numbers indicate a Table V NADSC exceedance

HCR

TABLE 4
SUMMARY OF GROUNDWATER ANALYSES
PAHs BY EPA METHOD 8270 & TRPH BY FL-PRO

MOPED HOSPITAL
601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP FACILITY ID: 44/8841232

Sample Location	Sample Date	Acenaph-thene	Acenaph-thylene	Anthra-cene	Benzo(a) Anthracene	Benzo(a)-Pyrene	Benzo(b)-Fluoranthene	Benzo(g,h,i)-Perylene	Benzo(k)-Fluoranthene	Chrysene	Dibenzo(a,h)-Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d) Pyrene	1-methyl Naphthalene	2-methyl Naphthalene	Naphthalene	Phenanthrene	Pyrene	TRPH
Table I GCTLs		20	210	2100	0.05	0.2	0.05	210	0.5	4.8	0.005	280	280	0.05	28	28	14	210	210	5,000
Table V NADSCs		200	2100	21000	5	20	5	2100	50	480	0.5	2800	2800	5	280	280	140	2100	2100	50,000
MW-1	8/19/2011	6.78	0.0264 U	0.891 I	**0.0630 I**	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	0.509 I	6.29	0.0107 U	41.8	56.8	202	7.84	0.641	1,170
MW-2	8/19/2011	10.0	0.0264 U	1.61	**0.0990 I**	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	2.03	9.19	0.0107 U	37.9	61.7	178	11.3	0.958	1,080
MW-3	8/19/2011	31.0	0.0264 U	3.68	**0.457**	0.0960 I	**0.125**	0.0370 I	0.109	0.386	0.00560 U	4.81	23.0 I	**0.0300 I**	107	112	816	23.2 I	2.79	2,670
MW-4	8/19/2011	0.629 I	0.0264 U	0.00560 U	0.0113 U	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	0.0900 I	0.723 I	0.0107 U	94.9	184	438	0.719 I	0.0920 I	2,390
MW-A	8/19/2011	0.165 I	0.0264 U	0.00560 U	0.0113 U	0.0133 U	0.0154 U	0.0142 U	0.0116 U	0.0165 U	0.00560 U	0.0570 I	0.190 I	0.0107 U	13.8	10.9	17.8	0.217 I	0.0510 I	534 I

NOTES:

All results reported in micrograms per liter (ug/L). NS = Not Sampled

"PAHs" denotes Polynuclear Aromatic Hydrocarbons. "TRPH" denotes Total Recoverable Petroleum Hydrocarbons.

"Table I GCTLs" refers to Table I, Groundwater Cleanup Target Levels (GCTLs) of FDEP Chapter 62-777 FAC.

"Table V NADSCs" refers to Table V, Natural Attenuation Default Source Concentrations (NADSCs) of FDEP Chapter 62-777 FAC.

"I" = Result is between the Practical Quantitative Limit (PQL) and the Method Detection Limit (MDL).

"U" = The compound was analyzed for but not detected.

BOLD numbers indicate a Table I GCTL exceedance

BOLD Underlined numbers indicate a Table V NADSC exceedance

APPENDIX A

Florida DEP • Bureau of Petroleum Storage Systems - Petroleum Cleanup Preapproval Program

SC Verbal Authorization for Change in Scope of Work

FDEP Task Assignment # 2011-95-W94589 FACID #: 44/8841232 FDEP/LP Site Manager: Michelle Allard

Contractor Name: Handex Consulting and Remediation - SE, LLC Contractor Phone #: 561-243-9551

Site Name and Address: Moped Hospital

This is an authorization for the costs associated with the scope of work listed below. In order for these costs to be paid, these changes will need to be incorporated into the applicable change order/invoice for the referenced work order or task assignment (including copies of all applicable subcontractor & materials invoices).

Description of Change: **Field Event**

This VCO is to change laboratory services from Xenco to Pace Analytical.

Field Work	Section & Number	Template Activity Description	Cost per Item	# of Items	Authorized Costs
n/a	H-1	General / SA Report Preparation Costs[1]	n/a		

[1] *actual amount will be determined in template cost sheet during invoicing*

subtotal:

Subcontractor/Equip. Purchase	Authorized Costs	In-house Services/Equip. Rental	Authorized Costs
Laboratory [Pace Analytical]			

subtotal (with 10% markup): ***subtotal (no markup):***

Field Work	Labor Category	"Bare" Labor Rates	Labor Hours	Authorized Costs	Misc. Expenses	Authorized Costs
					Equipment:	
					Materials:	
					Other:	
					[ ]	

Equipment Kit Costs: $0.00 *(See Price List)*

***subtotal*:** *(* Includes all markups & equipment kit costs)*

subtotal:

Deliverable(s)	Previous Due Date(s)	New Due Date(s)
1st:		
2nd:		
3rd:		
4th:		
5th:		
Final:		

FDEP Cost Share

Total Authorized Costs

Period of Service extended to:

Requested by Contractor Representative: Julio Michel (Print Name) (Signature) Date: 8/5/2011

Authorized by FDEP Site Manager: Michelle Allard (Print Name) (Signature) Date: 8/8/11

Accepted Contractor Representative: ~~Julio Michel~~ Philip R. Cook (Print Name) (Signature) Date: 8/10/11

Cost Center Administrator Approval >$10,000:

Reviewer Initials (optional): Date: 8/8/11

Low Scored Site Initiative Work Order

ZQ

Work Order Number: 2011-95-W94589
Cost Center #: 37450404555
Category: 087888/FY 10-11/UP
FDEP Facility Id #: 44/8841232
Score: 9
Contract #: PPA003
Site Name: MOPED HOSPITAL
Eligibility: LSSI
Address (Street, City): 601 TRUMAN AVE, KEY WEST
County: Monroe
Contractor Name: HANDEX CONSULTING AND REMEDIATION-SOUTHEAST, LLC
CID #: 01184
Contractor Address: 430 S CONGRESS AVE, SUITE 1D, DELRAY BEACH, FL 33445
FEID #: 20-3908156
Contractor Representative: Phillip Cook
Phone #: 561/243-9551 ext.118
FDEP Site Manager: Michelle Allard
Phone #: 850/222-6446 ext.255
Cleanup Phase: Site Assessment
Cleanup Activity: SITE ASSESSMENT

Work Order Description:

In accordance with section 376.30711(1)(b), F.S., all work, including verbal change orders (VCOs), must be preapproved by the Department prior to the work being performed or the costs being incurred.

Per proposal received 4/21/11 (completed 5/27/11) Handex has stated the accpetable cleanup goal of LSSI will be SRCO only. Work order consists of 1 Event: 1 prop prep, HASP, 1-2 per mobe for in-house DPT completion of 9 borings to WT (approx 10' BLS) screening w/OVA at 2' intervals, collecting 6 samples fr highest OVA locations w/at least 1 fr 0-2' interval repesenting the most impacted native soil (see SPT for all lab analyses by Xenco), SPLP & TPH speciation to be performed only w/Tm 5 SM approval, installation of 4 MWs w/10' screen (see backup spreadsheet for oversight & kit costs); 1-1 man mobe for sampling of newly installed wells and 1 existing well w/water levels. Upon receipt of event results, Handex to contact SM to discuss next field activities or discontinuation of LSSI work. Final deliverable to be a general report w/updated figures, tables and recommendations. All work to be performed in accordance w/Chapter 62,770, F.A.C., BPSS SOP 10/08, DEP SOP 001/01 and LSSI Guidance effective 2/21/11. Any changes to scope of work must have Tm 5 SM approval.

Deliverable 1:		**Due Date 1:**	
Deliverable 2:		**Due Date 2:**	
Deliverable 3:		**Due Date 3:**	
Deliverable 4:		**Due Date 4:**	
Deliverable 5:		**Due Date 5:**	
Deliverable 6:		**Due Date 6:**	
Final Deliverable:	GENERAL REPORT	**Final Due Date:**	Sep. 30, 2011

Period of Service: ~~Contractor Representative Signature Date~~ Work Order Return Date To 6 months after w/o return date

Amount: $16,725.74

This WORK ORDER is not in effect until signed by all parties. The FDEP will not pay any amount of this WORK ORDER until the original signed copy has been returned to the FDEP. The FDEP will not pay for any portion of the scope of work that has not been performed as of the date of invoice.

Performance of this work order shall be governed by the terms of the preapproval work order performance agreement (PPA) listed above and the additional terms and conditions on the following pages.

		Date
FDEP Site Manager:	Michelle Allard	5/27/2011
FDEP Manager:	[signature]	6/2/11
Cost Center Administrator:	[signature]	6/2/11
Contractor Representative:	Emily R Carr	6-7-11
Contractor Representative: (second contractor signature is optional)		

FDEP Use Only:
Technical review: Initials: MA Date: 5/27/11
Fiscal Review: Initials: [signature] Date: 6/2/11

Petroleum Preapproval Program Work Order

Work Order # 2011-95-W94589

NOTICE

ALL PRIME CONTRACTORS, SUBCONTRACTORS AND VENDORS ARE STRONGLY ENCOURAGED TO REVIEW THE TERMS AND CONDITIONS OF THIS CONTRACT

WORK ORDER TERMS & CONDITIONS

1. Certification of Performance

a. The PRIME CONTRACTOR signing this Work Order agrees to be bound by the terms and conditions contained herein.

b. The PRIME CONTRACTOR signing this Work Order agrees to perform the approved scope of work at the approved cost. Any changes to the scope of work or cost must be approved in writing by the Florida Department of Environmental Protection (DEPARTMENT).

c. The PRIME CONTRACTOR agrees that it is responsible for the professional quality, technical accuracy, timely completion and coordination of all designs, drawings, specifications, reports, other services and installations furnished under this Work Order.

d. The PRIME CONTRACTOR represents that its services and installations shall be performed in a manner consistent with that level of care and skill ordinarily exercised by other professional consultants under similar circumstances at the time the services are performed.

e. The PRIME CONTRACTOR certifies that it currently meets all of the qualifications for participation in the Petroleum Cleanup Preapproval Program as required by Sections 376.30711(2)(b)-(c), Florida Statutes (F.S.), and any other appropriate Florida laws and as outlined in Section 2.2 of the Preapproval SOP. The PRIME CONTRACTOR further certifies that it will not knowingly permit any of these qualifications to lapse during the duration of this Work Order. The PRIME CONTRACTOR agrees that if any of the qualifications do lapse, it will immediately notify the DEPARTMENT and will suspend the performance of this Work Order until all the qualifications are met.

f. The PRIME CONTRACTOR certifies that it has read, understands and will perform all work in accordance with these terms and conditions, applicable statutes, and any rules and guidance issued by the DEPARTMENT and the standards of performance therein.

2. Additional Terms and Conditions

a. This Work Order is issued to the listed PRIME CONTRACTOR and is not transferable or assignable. However, pursuant to Section 376.30711(5)(a), F.S., invoices submitted pursuant to this Work Order are assignable. Persons wishing to exercise this option should refer to section 6.7.10 of the Preapproval SOP and/or contact the DEPARTMENT for assistance. The PRIME CONTRACTOR or the PRIME CONTRACTOR's in-house services, subsidiaries or affiliates, shall not subcontract, assign, or transfer any work under this Work Order that:

(1) Costs $2,500 or more and is not covered by a Preapproval fixed cost template or fixed price schedule without the prior written consent of the DEPARTMENT using the verbal authorization form. No first tier subcontractor or vendor awarded work under this Work Order shall further subcontract, assign, or transfer any work that costs $2,500 or more without the prior written consent of the DEPARTMENT using the verbal authorization form. All requests from first tier subcontractors or vendors to the DEPARTMENT for prior written approval must be made through the PRIME CONTRACTOR. Violations of this provision shall result in forfeiture of payment for the associated work;

Petroleum Preapproval Program Work Order

Work Order # 2011-95-W94589

(2) Costs $2,500 or more and is covered by a Preapproval fixed cost template or fixed price schedule without providing prior written notice to the DEPARTMENT before the work is performed. No first tier subcontractor or vendor awarded work under this Work Order shall further subcontract, assign, or transfer any work that costs $2,500 or more without providing prior written notice to the DEPARTMENT before the work is performed. All such notices from first tier subcontractors or vendors to the DEPARTMENT must be made through the PRIME CONTRACTOR. Violations of this provision shall result in forfeiture of payment for the associated work.

b. The PRIME CONTRACTOR shall provide a copy of this Work Order, including the terms and conditions, to each and every subcontractor and vendor regardless of value.

c. The PRIME CONTRACTOR agrees to be responsible for the fulfillment of all work elements included in any subcontract consented to by the DEPARTMENT and agrees to be responsible for the payment of all monies due under any subcontract in accordance with Subsection 287.0585(1) and Subsections 376.30711(5)(d) and (e), F.S., see Chapter 2008-127, Laws of Florida (L.O.F.), and paragraphs 2. j and 2. l of this agreement. It is understood and agreed by the PRIME CONTACTOR that the DEPARTMENT shall not be liable to any subcontractor or vendor for any expenses or liabilities incurred under the subcontract and that the PRIME CONTRACTOR shall be solely liable to the subcontractor or vendor for all expenses and liabilities incurred under the subcontract.

d. The issuance of this Work Order does not constitute an approval, certification, or endorsement of the PRIME CONTRACTOR by the DEPARTMENT. The DEPARTMENT hereby gives its written consent to use the subcontractors and vendors designated in the proposal for the work as designated in the proposal.

e. The issuance of this Work Order does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This Work Order is not a waiver of, or approval of, any other DEPARTMENT permit or approval that may be required for other aspects of the total project which are not addressed in this Work Order.

f. This Work Order does not relieve the PRIME CONTRACTOR from liability for harm or injury to human health or welfare, animal or plant life, or property, caused by its activities or from penalties therefore; nor does it allow the PRIME CONTRACTOR to cause or contribute to pollution in contravention of Florida Statutes and DEPARTMENT rules.

g. All documents, reports correspondence, invoices, billings and any other written or electronic records related to this Work Order are considered to be public records. The DEPARTMENT may unilaterally cancel this Work Order, remove the PRIME CONTRACTOR as the designated cleanup contractor for the subject site, or cancel the PRIME CONTRACTOR's participation in the Preapproval Program for failure of the PRIME CONTRACTOR to maintain such public records and allow unrestricted access to such public records as specified by Chapter 119, F.S.

h. The PRIME CONTRACTOR, by accepting this Work Order, specifically agrees to allow authorized DEPARTMENT personnel, and personnel of a contracted Local Program or Team, to observe and inspect the work being performed under this Work Order, including:

(1) Access to any public records that must be kept under conditions of the Work Order;

(2) Inspection of the facility, equipment, practices, or operations required under this Work Order; and

(3) Sampling or monitoring of any substances or parameters at any location reasonable or necessary to assure compliance with this Work Order or DEPARTMENT rules.

i. The PRIME CONTRACTOR agrees that this Work Order is subject to the applicable provisions of Section 287.058, F.S., Section 287.0582, F.S., Section 287.0585, and Subsection 376.30711(5), F.S., (see Chapter 2008-127, L.O.F.).

Petroleum Preapproval Program Work Order

Work Order # 2011-95-W94589

j. Pursuant to Subsection 287.0585(1) and Subsection 376.30711(5), F.S., (see Chapter 2008-127, L.O.F.) the PRIME CONTRACTOR, or persons to which the PRIME CONTRACTOR has assigned its right to payment, is responsible for prompt payment of all subcontractors and vendors under this Work Order within 7 working days from the date of receipt of payment from the DEPARTMENT, and the provisions of Subsection 287.0585(2), F.S., do not apply. If the PRIME CONTRACTOR receives less than full payment from the DEPARTMENT for the services or goods of the subcontractors or vendors, then the PRIME CONTRACTOR shall be required to disburse only the funds to the subcontractors and vendors in the same proportion as paid by the DEPARTMENT.

k. In accordance with Section 287.0585, F.S., the DEPARTMENT is not responsible for ensuring that the PRIME CONTRACTOR provides payment to all subcontractors and vendors. Section 287.0585, F.S., authorizes the Department of Legal Affairs (DLA) in the Attorney General's Office to provide legal assistance to subcontractors and vendors in proceedings brought against Contractors for non-compliance with the prompt payment provisions of that section, as well as the payment of penalties and restitution for attorney's fees and related expenses of the aggrieved party or the DLA.

l. For final invoices, all subcontractors and vendors must be paid by the PRIME CONTRACTOR prior to submittal of the final invoice for this Work Order for all of their costs included in all of the PRIME CONTRACTOR's invoices submitted for this Work Order prior to the final invoice in proportion to the amount approved for payment by the DEPARTMENT. The PRIME CONTRACTOR shall also be required to submit a properly completed Contractor Release of Claim Form stating that it acknowledges these requirements, that prompt payment of all subcontractors and vendors for all of their costs included in the final invoice is required as outlined in paragraph 2. j. above, that penalties for non-compliance and provisions for legal assistance from the Department of Legal Affairs are included in Subsection 287.0585(1), F.S., that the work was completed in accordance with this Work Order, and that upon receipt of the final payment it releases the property owner and the DEPARTMENT from any claims arising from this Work Order.

m. If this Work Order has been issued pursuant to a Preapproved Advanced Cleanup (PAC) or Petroleum Cleanup Participation Program (PCPP) contract, then the termination of that contract may result in the immediate termination of this Work Order.

n. The State of Florida's performance and obligation to pay for services under this Work Order is contingent upon appropriations by the Legislature in effect at the time of execution. Authorization for continuation and completion of this Work Order and payment associated therewith may be rescinded with proper notice at the discretion of the DEPARTMENT if Legislative appropriations are reduced.

o. In accordance with Subsection 376.30711(5)(b), F.S., (see Chapter 2008-127, L.O.F.) the PRIME CONTRACTOR shall submit invoices to the DEPARTMENT within 30 days after the date of the DEPARTMENT's written acceptance of each interim deliverable and written approval of the final deliverable specified in the Work Order. It is understood and agreed by the PRIME CONTRACTOR that failure to submit interim invoices within this timeframe may result in monetary penalties and failure to submit the final invoice within this timeframe may result in the automatic closure of the Work Order and forfeiture of the unpaid balance of the Work Order.

p. The purchase of non-expendable equipment costing $1,000.00 or more under this Work Order shall remain the property of the DEPARTMENT and be subject to the provisions of Section 7.4 of the Preapproval Program SOP. The PRIME CONTRACTOR shall have the use of the equipment for authorized purposes under the Work Order until the required work has been completed provided adequate maintenance procedures are implemented. When no longer needed, the PRIME CONTRACTOR shall return all non-expendable equipment purchased under this Work Order to the DEPARTMENT. However, if the responsible party or property owner wish to acquire the equipment, the DEPARTMENT, at its discretion, may elect to transfer ownership of the equipment to the responsible party or property owner in exchange for payment or trade based on its fair market value as of the date of title transfer. All such ownership transfers are subject to approval of the DEPARTMENT's Surplus Property Review Board and must be documented in a formal agreement executed by both parties in a format approved by the DEPARTMENT such as a Funding Transition Agreement or Site Rehabilitation Funding Allocation Agreement.

q. The PRIME CONTRACTOR acknowledges that the total amount of this Work Order is not considered to be a fixed price contract or a lump sum contract.

Petroleum Preapproval Program Work Order

Work Order # 2011-95-W94589

r. The PRIME CONTRACTOR represents that if it (or any entity that it has an ownership interest in or has an ownership interest in it) has a financial or ownership interest in the cleanup site that is the subject of this Work Order, that written notice has already been provided to the Site Manager stating the specific nature of the interest in the property and who holds that interest.

s. In addition to any other remedies available at law, failure to implement any of the terms and conditions of this Work Order shall be considered a breach of contract and shall subject the PRIME CONTRACTOR to cancellation of this Work Order, loss of payment, or removal as the designated PRIME CONTRACTOR. Individual contract terms may also have other specific remedies for violations.

3. Audit - Access to Records & Purpose

a. The PRIME CONTRACTOR shall maintain organized and cataloged books, records, documents and all subcontractor and vendor invoices directly or indirectly pertinent to performance under this Work Order in accordance with generally accepted accounting principles consistently applied. All such records shall be kept at one of the Prime Contractor's offices located within the legal boundaries of the State of Florida per Chapter 6, F.S. or made available at such office within five business days of receipt of a request from the DEPARTMENT. The DEPARTMENT, the State or their authorized representatives shall have access to such records without charge for audit or investigation purposes during the term of the Work Order and for three years following Work Order completion. Failure to maintain such required records shall constitute a breach of contract and could result in forfeiture of remaining payments on this Work Order, removal as the designated PRIME CONTRACTOR for the subject site or dismissal of the PRIME CONTRACTOR from participation in the Preapproval Program.

b. The PRIME CONTRACTOR acknowledges that there are several purposes of a DEPARTMENT audit:

1) To confirm the actual level of effort and costs for comparison with the Preapproval Fixed Cost Templates, Fixed Price Schedule and Level of Effort guidelines. Such information is not intended for cost recovery, but will be used to support future adjustments in these fixed costs program wide; and

2) To confirm compliance with the terms and conditions of the Work Order, the Preapproval standard operating procedures, applicable DEPARTMENT rules and guidance, and to investigate instances of criminal violations pursuant to Section 376.302, F.S., any of which may result cost recovery or other appropriate action.

4. Dispute Resolution - Suspension or Cancellation of Work

a. The DEPARTMENT may order a suspension or cessation of work in order to resolve disputes regarding a PRIME CONTRACTOR'S performance or the performance of their subcontractor. If this is necessary, the DEPARTMENT will notify the PRIME CONTRACTOR either verbally and/or in writing by either express or certified USPS mail or private express mail with a copy of the notification sent to the property owner. The PRIME CONTRACTOR or its subcontractors will not be paid for any work performed or idle time during such suspension or cancellation until the DEPARTMENT determines what, if any payments should be made.

b. The DEPARTMENT may initiate a suspension or cancellation of work. The DEPARTMENT reserves the right to suspend or cancel work for good cause. Good cause includes, but is not limited to, failure to comply with the provisions of this Work Order, failure to acquire proper state, federal or local permits, any audit or report indicating that any phase of actual work completed was inconsistent with the approved scope or cost, or failure of a PRIME CONTRACTOR to maintain its required qualifications.

c. A written notice of intent to suspend or cancel work shall give the PRIME CONTRACTOR a minimum of fifteen (15) working days to respond and to correct the deficiencies unless the DEPARTMENT's initial findings are so egregious that no remedies are acceptable. In cases where the findings are egregious, the DEPARTMENT reserves the right to remove the PRIME CONTRACTOR from the site and take whatever actions may be necessary.

d. If the PRIME CONTRACTOR does not remedy the deficiency within the timeframe allotted, the Work Order shall be deemed suspended or canceled at the discretion of the DEPARTMENT.

e. In the event the DEPARTMENT determines, in its sole discretion, that the PRIME CONTRACTOR or any of its subcontractors is in breach of the terms and conditions of this Work Order, the DEPARTMENT reserves the right to exercise all remedies at law and equity.

Petroleum Preapproval Program Work Order

Work Order # 2011-95-W94589

(FOR PRIME CONTRACTOR, SUBCONTRACTOR & VENDOR REFERENCE)

*Note: Effective July 1, 2008, Subsection 376.30711(5)(e), F.S. (see Chapter 2008-127, L.O.F.) stipulates that Subsection 287.0585(2), F.S., shall not apply to payments associated with preapproved site rehabilitation agreements. Therefore, payment agreements between preapproval contractors and their subcontractors and suppliers will not affect the statutory requirement in Subsection 287.0585(1), F.S., for preapproval contractors to make prompt payment to subcontractors and suppliers within seven (7) days of receipt of payment from the Department. Penalties for non-compliance and provisions for legal assistance are included in Subsection 287.0585(1), F.S. (see applicable statutory citations below):

Subsection 376.30711(5)(d) & (e), F.S. (2008)

376.30711 Preapproved site rehabilitation,

(5)(d) Contractors or persons to which the contractor has assigned its right to payment pursuant to paragraph (a) shall make prompt payment to subcontractors and suppliers for their costs associated with a preapproved site rehabilitation agreement pursuant to s. 287.0585(1).

(5)(e) The exemption in s. 287.0585(2) shall not apply to payments associated with a preapproved site rehabilitation agreement.

Section 287.0585, Florida Statutes (2004)

287.0585 Late payments by contractors to sub-contractors and suppliers; penalty.

(1) When a contractor receives from a state agency any payment for contractual services, commodities, supplies, or construction contracts, except those construction contracts subject to the provisions of chapter 339, the contractor shall pay such money's received to each subcontractor and supplier in proportion to the percentage of work completed by each subcontractor and supplier at the time of receipt of the payment. If the contractor receives less than full payment, then the contractor shall be required to disburse only the funds received on a pro rata basis with the contractor, sub-contractors, and suppliers, each receiving a prorated portion based on the amount due on the payment. If the contractor without reasonable cause fails to make payments required by this section to subcontractors and suppliers within 7 working days after the receipt by the contractor of full or partial payment, the contractors shall pay to the subcontractors and suppliers a penalty in the amount of one-half of 1 percent of the amount due, per day, from the expiration of the period allowed herein for payment. Such penalty shall be in addition to actual payments owed and shall not exceed 15 percent of the outstanding balance due. In addition to other fines or penalties, a person found not in compliance with any provision of this subsection may be ordered by the court to make restitution for attorney's fees and all related costs to the aggrieved party or the Department of Legal Affairs when it provides legal assistance pursuant to this section. The Department of Legal Affairs may provide legal assistance to subcontractors or vendors in proceedings brought against contractors under the provisions of this section.

(2) This section shall not apply when the contract between the contractor and subcontractors or subvendors provides otherwise.

Petroleum Preapproval Program Work Order Template

First Event

Work Order #:	2011-95-W94589	FDEP/LP Site Mgr:	MICHELLE ALLARD	Cost Share Information	
Facility Id #:	448841232	Site Name:	MOPED HOSPITAL	FDEP Share:	100.00%
Contractor #:	01184	Contractor Name:	HANDEX CONSULTING AND REMEDIATION-SOUTHEAST, LLC	Applicant/Owner Share:	0.00%
Date:	05/27/11	FDEP Contract #:	PPA003	Total:	100.00%

Work Description: LSSI assessment

	Template	Comments / Notes	Allowed Cost	Original Number of Items	Original Item Cost	Change Amount	Change Costs	Template Total Cost
Section A: Packaged Work Scopes								
1	Pumping Test or Multi-phase Pilot Test (using in-house personnel)		$3,048.90		$0.00		$0.00	$0.00
2	Vapor Extraction or Air Sparging Pilot Test (using in-house personnel)		$2,055.39		$0.00		$0.00	$0.00
3	Air Sparging & Vapor Extraction Pilot Test (using in-house personnel)		$3,197.27		$0.00		$0.00	$0.00
4	Monthly O&M Visit		$851.42		$0.00		$0.00	$0.00
5	RAI Monthly O&M Allowance - Small System		$2,776.92		$0.00		$0.00	$0.00
6	RAI Monthly O&M Allowance - Medium System		$3,254.33		$0.00		$0.00	$0.00
7	RAI Monthly O&M Allowance - Large System		$3,831.74		$0.00		$0.00	$0.00
8	RAI Supplemental O&M Monthly Allowance - Thermox/Catox Treatment		$476.03		$0.00		$0.00	$0.00
				Section A Subtotals:	$0.00		$0.00	$0.00
Section B: Office Activities, Part I								
1	Proposal Preparation	Completed 5/27/11	$536.08	1	$536.08		$0.00	$536.08
2	File Review		$583.13		$0.00		$0.00	$0.00
3	Permits		$730.45		$0.00		$0.00	$0.00
4	Site Health & Safety Plan		$341.70	1	$341.70		$0.00	$341.70
6	Notice of Discovery of Contamination Package (initial or TPOC)		$270.59		$0.00		$0.00	$0.00
				Section B Subtotals:	$877.78		$0.00	$877.78
Section C: Field Activities								
1	Mobilization (2 persons)		$810.76	1.0	$810.76		$0.00	$810.76
2	Mobilization (1 person)		$453.05	1.0	$453.05		$0.00	$453.05
3	Drilling Setup (w/utility clearance)		$565.93		$0.00		$0.00	$0.00
4	SB for Soil Screening or Piezometer Install (≤ 10 ft)		$236.65		$0.00		$0.00	$0.00
5	SB for Soil Screening or Piezometer Install (> 10 ft to ≤ 30 ft)		$354.98		$0.00		$0.00	$0.00
6	SB for Soil Screening or Piezometer Install (> 30 ft)		$473.31		$0.00		$0.00	$0.00
7	Well Install (≤ 20 ft)		$484.26		$0.00		$0.00	$0.00
8	Well Install (> 20 ft to ≤ 40 ft)		$726.39		$0.00		$0.00	$0.00
9	Well Install (> 40 ft)				$0.00		$0.00	$0.00
10	Well Install, double cased (≤ 40 ft)		$1,452.78		$0.00		$0.00	$0.00
11	Well Install, multiple cased (> 40 ft)				$0.00		$0.00	$0.00
12	Recovery Well Install (≤ 40 ft)		$968.52		$0.00		$0.00	$0.00
13	Recovery Well Install (> 40 ft)				$0.00		$0.00	$0.00
14	Air Sparging Well Install (≤ 40 ft)		$363.20		$0.00		$0.00	$0.00
15	Soil VE Well Install (≤ 40 ft)		$236.65		$0.00		$0.00	$0.00
16	AS and/or Soil VE Well Install (> 40 ft)				$0.00		$0.00	$0.00
17	Well or Piezometer Abandonment		$85.85		$0.00		$0.00	$0.00
18	Recovery or Multi-phase Well Abandonment		$243.18		$0.00		$0.00	$0.00
19	Well Sampling with Water Level		$241.75	5	$1,208.75		$0.00	$1,208.75
20	Water Level or Free Product Gauging		$24.58		$0.00		$0.00	$0.00
21	Free Product Gauging & Bailing (per well)		$116.13		$0.00		$0.00	$0.00
22	Area Survey		$968.52		$0.00		$0.00	$0.00
23	Whole Day Oversight [total days (to nearest 1/10th) x number of people]		$894.28		$0.00		$0.00	$0.00
24	Kit Allowance (total days to nearest 1/10th) (no per diem included)		$342.06		$0.00		$0.00	$0.00
25	Per Diem (total days x number of people)		$117.96		$0.00		$0.00	$0.00
				Section C Subtotals:	$2,472.56		$0.00	$2,472.56
Section D: Other Field Work								
1	Other Field Work		$2,366.53		$2,366.53		$0.00	$2,366.53
2	Other Field Work				$0.00		$0.00	$0.00
				Section D Subtotals:	$2,366.53		$0.00	$2,366.53
Section E: Other Equip. Rental Cost(s)								
1	Other Equipment				$0.00		$0.00	$0.00
2	Other Equipment				$0.00		$0.00	$0.00
				Section E Subtotals:	$0.00		$0.00	$0.00

Petroleum Preapproval Program Work Order Template

First Event

Work Order #: 2011-95-W94589 Facility Id #: 448841232 Site Name: MOPED HOSPITAL Date: 05/27/11

Template	Comments / Notes	Allowed Cost	Original: Number of Items	Original: Item Cost	Change: Change Amount	Change: Change Costs	Template Total Cost
Section F: In-house Service Cost(s)							
1 Laboratory				$0.00		$0.00	$0.00
2 Drilling				$0.00		$0.00	$0.00
3 Direct Push		$2,490.73		$2,490.73		$0.00	$2,490.73
4 Construction				$0.00		$0.00	$0.00
5 Other				$0.00		$0.00	$0.00
		Section F Subtotals:		$2,490.73		$0.00	$2,490.73
Section G: Subcontractor Cost(s)	Sub Markup = 10.00%	Unit Cost	# Units		Do not include markup		
1 Laboratory (from worksheet)	Xenco	$4,902.29	1	$5,392.52		$0.00	$5,392.52
2 Laboratory	Encores	$12.00	4	$52.80		$0.00	$52.80
3 Mobile Lab				$0.00		$0.00	$0.00
4 Drilling				$0.00		$0.00	$0.00
5 Direct Push				$0.00		$0.00	$0.00
6 Construction				$0.00		$0.00	$0.00
7 Non-Capital Equip. and/or Materials				$0.00		$0.00	$0.00
8 Remedial Equip./System Lease				$0.00		$0.00	$0.00
9 Disposal				$0.00		$0.00	$0.00
10 Other				$0.00		$0.00	$0.00
		Section G Subtotals:		$5,445.32		$0.00	$5,445.32
Section G1: Remedial System Purchase					Do not include markup		
1 Remedial System Costs				$0.00		$0.00	$0.00
2 PAC Remedial System Costs				$0.00		$0.00	$0.00
		Remedial System Subtotals:		$0.00		$0.00	$0.00
Section H: Office Activities, Part II							
1 General / SA Report	Field Work x Multiplier				Field Work =	$0.00	
Field Work Costs (Secs C & D) =	$4,839.09 25%	$1,209.77	1.0	$1,209.77	1.0	$0.00	$1,209.77
2 Letter / NPDES Report		$282.27		$0.00		$0.00	$0.00
3 O&M Quarterly Report		$1,645.53		$0.00		$0.00	$0.00
4 O&M Annual Report		$3,038.45		$0.00		$0.00	$0.00
5 Pilot Test Plan		$730.17		$0.00		$0.00	$0.00
6 Pilot Test Report		$1,275.27		$0.00		$0.00	$0.00
7 Level 1 LSRAP or RAP Modification		$1,401.02		$0.00		$0.00	$0.00
8 Level 2 LSRAP or RAP Modification		$2,742.89		$0.00		$0.00	$0.00
9 Level 3 LSRAP or RAP Modification		$4,866.33		$0.00		$0.00	$0.00
10 Level 4 LSRAP or RAP Modification		$6,038.42		$0.00		$0.00	$0.00
11 Level 1 Remedial Action Plan		$12,072.42		$0.00		$0.00	$0.00
12 Level 2 Remedial Action Plan		$16,076.85		$0.00		$0.00	$0.00
13 As-built Drawings (P.E. red lined)		$617.81		$0.00		$0.00	$0.00
14 Construction Drawings and Specs		$3,398.01		$0.00		$0.00	$0.00
15 RAC Bid Package Solicitation/Evaluation		$1,916.72		$0.00		$0.00	$0.00
16 RA Startup Report		$2,386.61		$0.00		$0.00	$0.00
17 Soil Source Removal Report		$1,768.80		$0.00		$0.00	$0.00
18 Natural Attenuation Plan		$1,079.88		$0.00		$0.00	$0.00
19 Remedial Action Interim Report		$530.10		$0.00		$0.00	$0.00
20 General Remedial Action Report		$1,079.88		$0.00		$0.00	$0.00
21 NA or Post RA Monitoring Quarterly Report		$530.10		$0.00		$0.00	$0.00
22 NA or Post RA Monitoring Annual Report		$1,324.39		$0.00		$0.00	$0.00
23 Well Abandonment Report		$244.51		$0.00		$0.00	$0.00
24 Initial Map & Table Generation		$1,863.05	1	$1,863.05		$0.00	$1,863.05
25 Other Report Type (backup spreadsheet)				$0.00		$0.00	$0.00
		Section H Subtotals:		$3,072.82		$0.00	$3,072.82

Deliverables

	Due Date	Deliverable / Documentation
Interim Deliverable	Invoice Only	Lab results, field notes, recommendations
Final Deliverable Information (Specify only if selected for this event)		
Deliverable #	1	General / SA Report
Deliverable Due	09/30/11	
Period of Service to:		See front of work order

This Event Template Totals

	Original	Change	Total
Event Total:	$16,725.74	$0.00	$16,725.74
Retainage: 0%			

Cumulative Work Order Totals (less Retainage)

Invoice	Previous	This Event	Total
# 1-6 Events	n/a	$13,652.92	$13,652.92
# 7 Remedial Systems	n/a	$0.00	$0.00
# 8 Final Deliverable	n/a	$3,072.82	$3,072.82
# 9 Retainage	n/a	$0.00	$0.00
Work Order Total		$16,725.74	$16,725.74

This Event Template Invoice Totals (less Retainage)

Invoice	Original	Change	Total
# 1 1st Event	$13,652.92	$0.00	$13,652.92
# 7 Remedial Systems	$0.00	$0.00	$0.00
# 8 Final Deliverable	$3,072.82	$0.00	$3,072.82
# 9 Retainage	$0.00	$0.00	$0.00
Event Template Total	$16,725.74	$0.00	$16,725.74

Preapproval Sampling Parameter Table

Work Order # 2011-95-W94589 Facility ID # 448841232 Site Name: MOPED HOSPITAL

EVENT 1		Analytical Parameters (enter number of samples for each method)										
Groundwater Sample Locations	Number of Events	BTEX + MTBE EPA 8021B	BTEX + MTBE EPA 8260B	PAHs EPA 8270C	PAHs EPA 8310	TRPHs FL-PRO	Lead EPA 6010B	VOAs & VOHs EPA 8021B	VOAs & VOHs EPA 8260B	EDB EPA 504	EDB EPA 8011	Chapter 62-770 Table B
1 MW-1	1											1
2 MW-2	1											1
3 MW-3	1		1	1		1						
4 MW-4	1		1	1		1						
5 MW-A	1		1	1		1						
6 SPLP analyses	1		2	2								
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
No. Samples		0	5	5	0	3	0	0	0	0	0	2
Cost per Sample		$60.67	$60.67	$128.89	$128.89	$96.05	$15.16	$128.89	$128.89	$50.55	$55.61	$374.07
Subtotal	$1,984.09	$0.00	$303.35	$644.45	$0.00	$288.15	$0.00	$0.00	$0.00	$0.00	$0.00	$748.14

Soil /Air Sample Locations	Number of Events	BTEX + MTBE EPA 8021B	BTEX + MTBE EPA 8260B	PAHs EPA 8270C	PAHs EPA 8310	TRPHs FL-PRO	VOHs EPA 8021B	VOHs EPA 8260B	As, Cd, Cr, Pb EPA 6010B	SPLP Extraction EPA 1312	TPH Speciation	EPA TO-3
1 SS-1	1		1	1		1						
2 SS-2	1		1	1		1						
3 SS_3	1		1	1		1						
4 SS_4	1		1	1		1						
5 SS-5	1		1	1		1						
6 SS-6	1		1	1		1						
7 SPLP analyses	1									4		
8 Speciation	1										2	
No. Samples		0	6	6	0	6	0	0	0	4	2	0
Cost per Sample		$67.23	$67.23	$136.49	$136.49	$98.58	$80.89	$80.89	$70.76	$101.10	$350.00	$126.37
Subtotal	$2,918.20	$0.00	$403.38	$818.94	$0.00	$591.48	$0.00	$0.00	$0.00	$404.40	$700.00	$0.00

Event 1 Total Lab Cost: $4,902.29

EVENT 2		Analytical Parameters (enter number of samples for each method)										
Groundwater Sample Locations	Number of Events	BTEX + MTBE EPA 8021B	BTEX + MTBE EPA 8260B	PAHs EPA 8270C	PAHs EPA 8310	TRPHs FL-PRO	Lead EPA 6010B	VOAs & VOHs EPA 8021B	VOAs & VOHs EPA 8260B	EDB EPA 504	EDB EPA 8011	Chapter 62-770 Table B
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
No. Samples		0	0	0	0	0	0	0	0	0	0	0
Cost per Sample		$60.67	$60.67	$128.89	$128.89	$96.05	$15.16	$128.89	$128.89	$50.55	$55.61	$374.07
Subtotal	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Soil /Air Sample Locations	Number of Events	BTEX + MTBE EPA 8021B	BTEX + MTBE EPA 8260B	PAHs EPA 8270C	PAHs EPA 8310	TRPHs FL-PRO	VOHs EPA 8021B	VOHs EPA 8260B	As, Cd, Cr, Pb EPA 6010B	SPLP Extraction EPA 1312	Modified EPA 18	EPA TO-3
1												
2												
3												
4												
5												
6												
7												
No. Samples		0	0	0	0	0	0	0	0	0	0	0
Cost per Sample		$67.23	$67.23	$136.49	$136.49	$98.58	$80.89	$80.89	$70.76	$101.10	$126.37	$126.37
Subtotal	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Petroleum Preapproval Program Work Order Template

Work Order #:	2011-95-W94589		
FDEP Facility ID#:	448841232	Subtask A	1 day DPT-9 borings, 4 wells
Site Name:	MOPED HOSPITAL	Subtask B	
Contractor:	HANDEX CONSULTING AND REMEDIATION-SOUTHEAS	Subtask C	
FDEP Site Mgr:	MICHELLE ALLARD	Subtask D	
WO Description:	LSSI assessment	Subtask E	
Date:	May 27, 2011		

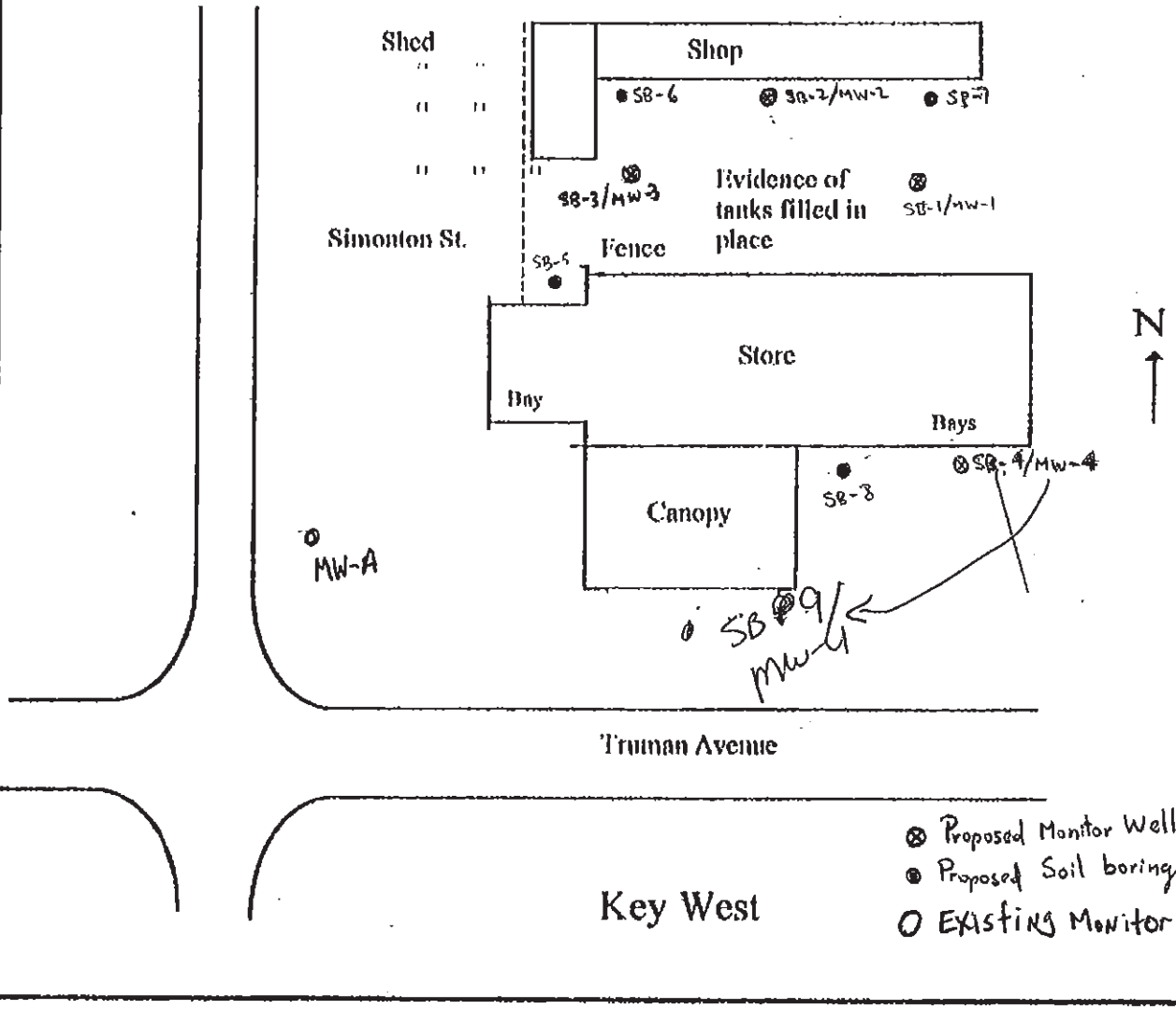
Labor Rate	Personnel Category		Event Template Totals	A	B	C	D	E
$27.80	MLP		10.0	10.0	0.0	0.0	0.0	0.0
$23.36	ULT		10.0	10.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
$0.00			0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL HOURS		20.0	20.0	0.0	0.0	0.0	0.0
	1) Bare Labor Cost		$511.60	511.60	0.00	0.00	0.00	0.00
	2) Project Management (line 1)	15.0%	$76.74	76.74	0.00	0.00	0.00	0.00
	3) Indirect, Overhead, G&A, Fee (lines 1 & 2)	194.0%	$1,141.38	1141.38	0.00	0.00	0.00	0.00
	4) Total Labor Cost		$1,729.72	1,729.72	0.00	0.00	0.00	0.00
	5) Equipment Rental		$0.00	0.00	0.00	0.00	0.00	0.00
	6) Other Direct Costs (lines 1 & 2)	10.0%	$58.83	58.83	0.00	0.00	0.00	0.00
	7) Soil Assessment Kit		$577.98	577.98	0.00	0.00	0.00	0.00
	8) CONTRACTOR SUBTOTAL		$2,366.53	2,366.53	0.00	0.00	0.00	0.00
	9) Per Diem		$0.00	0.00	0.00	0.00	0.00	0.00
	10) Extra Vehicle		$0.00	0.00	0.00	0.00	0.00	0.00
	11) Personal Protection Equipment		$0.00	0.00	0.00	0.00	0.00	0.00
	12) Other Subcontractors		$0.00	0.00	0.00	0.00	0.00	0.00
	13) Sub Handling Fee (line 12)	10.0%	$0.00	0.00	0.00	0.00	0.00	0.00
	14) Equipment Purchase		$0.00	0.00	0.00	0.00	0.00	0.00
	15) Equip Purchase Fee	10.0%	$0.00	0.00	0.00	0.00	0.00	0.00
	16) SUBCONTRACTOR SUBTOTAL		$0.00	0.00	0.00	0.00	0.00	0.00
	17) TOTAL PRICE (less retainage)		$2,366.53	2,366.53	0.00	0.00	0.00	0.00
	18) RETAINAGE	0.0%	$0.00	0.00	0.00	0.00	0.00	0.00
	19) TOTAL PRICE (including retainage)		$2,366.53	2,366.53	0.00	0.00	0.00	0.00

(Note: Subtask totals do not automatically populate template)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
POLLUTANT STORAGE TANK SYSTEM
INSPECTION REPORT FORM - COVER PAGE

FACILITY ID: 448841232 FACILITY NAME: Moped Hospital
FACILITY LOCATION: 610 Truman Avenue, Key West, FL 33040

Moped Hospital



Google maps

Get Directions My Maps

« Print Send Link

Michelle Allard

From: Cook, Philip [PCook@handexmail.com]
Sent: Monday, May 16, 2011 12:06 PM
To: Michelle Allard
Subject: RE: proposals for JDJ (fac 448511639), Moped Hosp (448841232) and Boas (449101760)
Attachments: Lab Quote.pdf

Hi Michelle,

Attached is my response regarding your comments. I you want, please give me a call to discuss.

General Comments:
1. We would prefer not to piggy back the work since we may have to be flexible due to staffing and site access issues. ✓ Ponder checking costs-OK not to combine - MA
2. An email quote from Xenco Labs for the speciation is attached.
3. Yes, you are correct. That was an oversight on our part since we included personnel time on our backup spreadsheet.

JDJ-448511639

1. I agree.

Moped Hospital-448841232

1. We have confirmed with the owner that he is willing to pay the deductible.
2. SB-8 and SB-4/MW-4 were proposed to provide assessment to the south of the tanks. If you do not think this is necessary, I have no problem deleting them.
3. I agree.

Boas-449101760

1 I agree.

Please let me know if you would like us to revise our proposal or if you will just make the change to the work order. Also, please give me a call if you would like to discuss or if you have any questions.

Thanks,

PHILIP R. COOK, P.G.
Senior Project Manager

Handex Consulting and Remediation, LLC
430 South Congress Avenue
Delray Beach, Florida 33445

Phone: 561-243-9551
Fax: 561-243-8707
Cell: 561-635-7219

-----Original Message-----
From: Michelle Allard [mailto:mallard@wrscompass.com]
Sent: Wednesday, April 27, 2011 12:47 PM
To: Baeringer, John
Subject: proposals for JDJ (fac 448511639), Moped Hosp (448841232) and Boas (449101760)

John-I have been assigned the 3 referenced proposals. I have some general comments/questions that apply to

all three and then some that apply to a specific proposal.

General comments/questions:

1. Since all 3 of these sites are in Key West, have you given thought to "piggy backing" the work? If so, can we reduce the amount/cost of mobes for the DPT rig and field personnel? Perhaps reducing the same amounts from each proposal so that the costs will still be evenly distributed among the three. Note-we can enter ½ mobes in the work order template now.
2. The GW SPLP analyses needs to be added to the lab costs for each of the proposals, as does a couple of TPH speciation for the soil samples. Could you get the price for speciation from Xenco?
3. For each of the proposals, since you are also collecting soil samples using DPT and putting in wells with the auger attachment, you do not get a drill setup, also you do not get the line items under Section C for the borings or well installation.

Proposal specific comments/questions:

JDJ-448511639

1. Only change I am considering is reducing the soil samples for lab analyses to 6, with 2 SPLP extraction and 2 TPH speciation.

Moped Hospital-448841232

1. As of right now, legislation has been tacked onto a bill waiving the deductibles and PCPP co-pays for LSSI, we are not sure if it will get through yet. Is your site owner aware that if he/she receives a SRCO, the deductible may be required and if so, would he/she be willing to pay it?
2. Please explain the locations of SB-8 and SB-4/MW-4. Were there dispensers under the canopy? If so, why not move them closer to the canopy?
3. Lab analyses-I would like to reduce the Table B analyses for GW to 2 samples from the most likely contaminated well locations and the other 3 samples be run for BTEX+MTBE, PAHs and TPHs. Soil analyses, I would like to reduce the number of SPLP to 2 samples, add 2 samples for speciation and lead and reduce the overall soil samples to 6.

Boas-449101760

1. Only changes I have are to the lab. Reducing one of the Chapter B to BTEX+MTBE, PAHs and TPHs, reducing soil lab to 6, adding 2 lead and speciation, reducing SPLP to 2.

Please let me know if these changes are acceptable and your thoughts about the combining of work order efforts,

Thanks!

Michelle Allard, P.G.
Senior Geologist
WRSCOMPASS
508-A Capital Circle S.E.
Tallahassee, FL 32301
T 850-222-6446 ext. 255
F 850.222.4049

APPENDIX B

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number: SB-1/MW-1	Permit Number: NA	FDEP Facility Identification Number: 4488 91232
Site Name: Moped Hospital	Borehole Start Date: 8.16.11 End Date: 8.16.11	Borehole Start Time: 1145 ☒ AM ☐ PM End Time: 1520 ☐ AM ☒ PM
Environmental Contractor: HCR	Geologist's Name: E. Caneja	Environmental Technician's Name: NA
Drilling Company: HCR	Pavement Thickness (inches): 5" concrete	Borehole Diameter (inches): 4"
Borehole Depth (feet): 12'		
Drilling Method(s): Solid Stem auger	Apparent Borehole DTW (in feet from soil moisture content): ~6'	Measured Well DTW (in feet after water recharges in well): 5.60'
OVA (list model and check type): TVA 1000 ☒ FID ☐ PID		

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☐ Backfill ☒ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA							1	0-5" Concrete, 5"-1'	—	D	
DC	0-2'	—	NA	<1	—	<1	2	Roadrock/base material,			
	2-4'			NS	NS	NS	3	1-1.25' brown sand w/			
							4	limestone rocks, 1.25'			
							5	caprock limestone.			
							6	cannot advance further.			
							7	initiate solid stem			
							8	augers at 1.25'.			
							9	1.25-12' Limestone.			
							10	collected at 2-4'			
							11	soil sample off the			
							12	auger collected for			
								soil screening only.			
								Strong odors in saturated			
								drill cuttings			

Moisture Content: D, M, W, S

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number: SB-2/MW-2	Permit Number: NA	FDEP Facility Identification Number: 4488 9/252
Site Name: Moped Hospital	Borehole Start Date: 8-16-11 End Date: 8-16-11	Borehole Start Time: 1210 ☐ AM ☒ PM End Time: 1600 ☐ AM ☒ PM
Environmental Contractor: HCR	Geologist's Name: E. Canega	Environmental Technician's Name: NA
Drilling Company: HCR	Pavement Thickness (inches): 4" concrete	Borehole Diameter (inches): 10" & 4"
Borehole Depth (feet): 12'		
Drilling Method(s): solid stem auger w/ DPT casing	Apparent Borehole DTW (in feet from soil moisture content): ~5.5'	Measured Well DTW (in feet after water recharges in well): 5.55'
OVA (list model and check type): TVA1000 ☒ FID ☐ PID		

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☒ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2'	–	NA	–	–	–	1	0-4" concrete, 4"-1.25' limestone Basefill/base material, 1.25-12' limestone. 2-4' soil sample collected from augers. will be used for screening purposes only. well set to 12.20' bls.		D	
DC	2-4'	–		<1	–	<1	2				
							3				
							4				
							5			M	
							6			W	
							7			S	
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-3/MW-3	NA	4488 41232
Site Name:	**Borehole Start Date:** 8.16.11	**Borehole Start Time:** 1215 ☐ AM ☒ PM
Moped Hospital	**End Date:** 8.16.11	**End Time:** 1640 ☐ AM ☒ PM
Environmental Contractor:	**Geologist's Name:**	**Environmental Technician's Name:**
HCR	t. Caneja	N/A
Drilling Company:	**Pavement Thickness (inches):**	**Borehole Diameter (inches):**	**Borehole Depth (feet):**
HCR	4" concrete	4"	12'
Drilling Method(s):	**Apparent Borehole DTW (in feet from soil moisture content):** ~6'	**Measured Well DTW (in feet after water recharges in well):** 5.99'	**OVA (list model and check type):**
Solid stem auger			TVA-1000 ☒ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☒ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (Include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-2'	12"	NA	<1	-	<1	1	0-9" concrete, 9"-8" Road rock + base fill, 8"-2' Fill material (this area has been dug before). Fill is 60% sands, 40% rocks, brown in color). 2-4' Fill material, light brown in color. 80% course sands, 20% gravelly rocks. Initiate solid stem augers at 4' bls, solid limestone. 4-12' Limestone.	-	D	
							2				
	2-4'	24"		<1	-	<1	3				
							4				
DC							5			M	
							6				
							7			W	
							8				
							9			S	
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-4	NA	448841232
Site Name:	**Borehole Start Date:** 8.17.11	**Borehole Start Time:** 950 ☒ AM ☐ PM
Moped Hospital	**End Date:** 8.17.11	**End Time:** 1010 ☒ AM ☐ PM
Environmental Contractor:	**Geologist's Name:**	**Environmental Technician's Name:**
MCR	E. Cuneja	NA
Drilling Company:	**Pavement Thickness (inches):**	**Borehole Diameter (inches):**	**Borehole Depth (feet):**
MCR	6" concrete	4"	6'
Drilling Method(s):	**Apparent Borehole DTW (in feet from soil moisture content):**	**Measured Well DTW (in feet after water recharges in well):**	**OVA (list model and check type):**
HA, DP	~6'	NA	TVA 1000 ☒ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA ↓	0-2'	6"	NA ↓	58	8	50	1	0-6" Concrete, 6"-1'		D ↓	
							2	Base fill material 1-1.25'			
							3	Limestone 80% w/ med brown sands 20%. 1.25'			
DP ↓	2-4'	12"		<1	-	<1	4	Hard limestone. Used solid stem auger to break-up rocks. Collect a polverized			Soil lab sample SB-4 (4-5') for analysis 1030hr
	4-6'	24"	↓	1074 ↓ DRY	4	1070	5	Sample at 0-2' for screening only. 2-3'			
							6	Same litho as above.		M ↓ W/S	
							7	3' advance DP. 3-6'			
							8	Refusal at 6' Hardrock.			
							9	3-6' Limestone.			
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-8	N/A	948841232

Site Name:	Borehole Start Date: 8.17.11	Borehole Start Time: 912 ☒ AM ☐ PM
Moped Hospital	End Date: 8.17.11	End Time: 940 ☒ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
HCL	E. Canejo	NA

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
HCL	6" concrete	4"	6'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content): ~5'	Measured Well DTW (in feet after water recharges in well): NA	OVA (list model and check type): TVA-1000 ☒ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA ↓	0-2'	6"	NA	61	4	57	1	0-6" Concrete, 6"-1.25' Roadrock, base material.		D ↓	Lab Soil Sample collected at SB-8 0-2' 955.
DP ↓	2-4'	6"	NA	19	<1	19	2	1.25'-1.5' Hard rock layer, 1.5-2' Brown f/m grained sands w/ limestone frags.			
↓	4-6'	24"	NA	2430 ↑ wet	1092	1338	3	20% sands, 80% rocks. 2-3' same as above.			
							4	3' Hard rock (limestone), advance DPT. 3.25'-4' limestone frags w/		M W S	
							5				
							6				
							7				
							8				
							9	brown f/m sands.			
							10	4-4.5' Stained hard limestone. 4.5'-5'			
							11	Petrified wood. 5-6'			
							12	limestone			

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number:	Permit Number:	FDEP Facility Identification Number:
SB-9 / MW-4	NA	448841232

Site Name:	Borehole Start Date:	Borehole Start Time:
Moped Hospital	8/16/11 End Date: 8/17/11	1110 ☒ AM ☐ PM End Time: 900 ☒ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
HCR	E. Careja	NA

Drilling Company:	Pavement Thickness (inches):	Borehole Diameter (inches):	Borehole Depth (feet):
HCR	6" Concrete	4"	12'

Drilling Method(s):	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type):
SO/O stem auger w/ PVC casing	~5.5	5.15'	TVA1000 ☒ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☒ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA ↓ DC	0-2'	2"	NA	NS	NS	NS	1	0-6" Concrete, 6"-1' Roadrock, 1'-1.2' Asphalt layer, 1.2' Caprock limestone. 1.2-12' Solid limestone. Grabbed a polverized rock sample off of the augers for screening purposes only. Strong hydrocarbon odors at the saturated zone. Well set to 12' bls.		D ↓ M W S	
	2-4'	24"		23	41	23	2				
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

APPENDIX C

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Site Name:	Moped Hospital
Location:	601 Truman Avenue
Facility ID No.:	44/8841232
Soil Sample No.	SB-8 (0-2')
Sample Date	8/17/2011
Location:	
Depth (ft):	0-2'

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.0142	1.0	0.014
Benzo(a)anthracene	0.0159	0.1	0.002
Benzo(b)fluoranthene	0.0291	0.1	0.003
Benzo(k)fluoranthene	0.01875	0.01	0.000
Chrysene	0.01305	0.001	0.000
Dibenz(a,h)anthracene	0.0153	1.0	0.015
Indeno(1,2,3-cd)pyrene	0.0193	0.1	0.002

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = 0.0

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	**Concentration Reported**	**Data Qualifier**	**Enter**
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

APPENDIX D

Analytical Report 425485

for

Handex of Delray Beach

Project Manager: PHIL COOK

Moped Hospital

30-AUG-11

Collected By: Client

3231 NW 7th Avenue, Boca Raton, FL 33431
Ph:(561) 447-7373 Fax:(561) 447-6136

Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Pace Analytical

30-AUG-11

Project Manager: **PHIL COOK**
Handex of Delray Beach
430 South Congress Avenue Suite 1D
Delray Beach, FL 33445

Reference: PACE Report No: **425485**
Moped Hospital
Project Address:

PHIL COOK:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the PACE Report Number 425485. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by PACE Analytical Services. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 425485 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting PACE Analytical Services to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Terrence Anderson
Office Manager

Sample Cross Reference 425485

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-8 (0-2')	S	08-17-11 09:55		425485-001
SB-4 (4-5')	S	08-17-11 10:30		425485-002

Pace Analytical

Certificate of Analytical Results 425485

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: SB-8 (0-2')	**Matrix:** Soil	**Date Received:** Aug-18-11 11:00
Lab Sample Id: 425485-001	**Date Collected:** Aug-17-11 09:55	

Analytical Method: Percent Moisture
Tech: ARM
Analyst: ARM
Seq Number: 866890

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	11.9	1.00	1.00	%	08/19/11 08:49		1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425485

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: SB-8 (0-2')	**Matrix:** Soil	**Date Received:** Aug-18-11 11:00
Lab Sample Id: 425485-001	**Date Collected:** Aug-17-11 09:55	

Analytical Method:	BTEX by SW8260B		**Prep Method:** SW5030B
Tech:	BRL		**% Moisture:** 11.9
Analyst:	BRL	**Date Prep:** Aug-22-11 22:46	**Basis:** Dry Weight
Seq Number:	867261		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00236	0.00125	0.000573	mg/kg	08/25/11 23:33		1
Ethylbenzene	100-41-4	0.000761	0.00125	0.000153	mg/kg	08/25/11 23:33	I	1
m,p-Xylenes	179601-23-1	0.000499	0.00374	0.000300	mg/kg	08/25/11 23:33	I	1
MTBE	1634-04-4	U	0.00125	0.000199	mg/kg	08/25/11 23:33	U	1
o-Xylene	95-47-6	U	0.00125	0.000198	mg/kg	08/25/11 23:33	U	1
Toluene	108-88-3	U	0.00249	0.00113	mg/kg	08/25/11 23:33	U	1
Total Xylenes	1330-20-7	0.000499	0.00125	0.000198	mg/kg	08/25/11 23:33	I	1
Total BTEX		0.00362	0.00125	0.000153	mg/kg	08/25/11 23:33		1

Analytical Method:	PAHs by SW846 8270C		**Prep Method:** SW3550
Tech:	LUA		**% Moisture:** 11.9
Analyst:	BAT	**Date Prep:** Aug-23-11 13:00	**Basis:** Dry Weight
Seq Number:	867151		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Acenaphthene	83-32-9	U	0.114	0.0250	mg/kg	08/24/11 18:36	U	1
Acenaphthylene	208-96-8	U	0.114	0.0341	mg/kg	08/24/11 18:36	U	1
Anthracene	120-12-7	U	0.114	0.0397	mg/kg	08/24/11 18:36	U	1
Benzo(a)anthracene	56-55-3	U	0.114	0.0318	mg/kg	08/24/11 18:36	U	1
Benzo(a)pyrene	50-32-8	U	0.0749	0.0284	mg/kg	08/24/11 18:36	U	1
Benzo(b)fluoranthene	205-99-2	0.0291	0.114	0.0227	mg/kg	08/24/11 18:36	I	1
Benzo(g,h,i)perylene	191-24-2	0.0371	0.114	0.0306	mg/kg	08/24/11 18:36	I	1
Benzo(k)fluoranthene	207-08-9	U	0.114	0.0375	mg/kg	08/24/11 18:36	U	1
Chrysene	218-01-9	U	0.114	0.0261	mg/kg	08/24/11 18:36	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.0749	0.0306	mg/kg	08/24/11 18:36	U	1
Fluoranthene	206-44-0	U	0.114	0.0431	mg/kg	08/24/11 18:36	U	1
Fluorene	86-73-7	U	0.114	0.0261	mg/kg	08/24/11 18:36	U	1
2-Methylnaphthalene	91-57-6	U	0.227	0.0318	mg/kg	08/24/11 18:36	U	1
1-Methylnaphthalene	90-12-0	U	0.114	0.0306	mg/kg	08/24/11 18:36	U	1
Naphthalene	91-20-3	U	0.114	0.0238	mg/kg	08/24/11 18:36	U	1
Phenanthrene	85-01-8	U	0.114	0.0363	mg/kg	08/24/11 18:36	U	1
Pyrene	129-00-0	U	0.114	0.0375	mg/kg	08/24/11 18:36	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.114	0.0386	mg/kg	08/24/11 18:36	U	1

Project: Florida Standard List of Methods

Final 1.000

Certificate of Analytical Results 425485

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: SB-8 (0-2')	**Matrix:** Soil	**Date Received:** Aug-18-11 11:00
Lab Sample Id: 425485-001	**Date Collected:** Aug-17-11 09:55	

Analytical Method:	TPH by FLPRO		**Prep Method:** SW3550
Tech:	LUA		**% Moisture:** 11.9
Analyst:	JEZ	**Date Prep:** Aug-23-11 10:30	**Basis:** Dry Weight
Seq Number:	867090		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
FL-PRO	FL-PRO	32.9	22.7	3.29	mg/kg	08/24/11 04:44		1

Project: Florida Standard List of Methods

Final 1.000

Pace Analytical

Certificate of Analytical Results 425485

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: SB-4 (4-5')	**Matrix:** Soil	**Date Received:** Aug-18-11 11:00
Lab Sample Id: 425485-002	**Date Collected:** Aug-17-11 10:30	

Analytical Method: Percent Moisture
Tech: ARM
Analyst: ARM
Seq Number: 866890

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	13.1	1.00	1.00	%	08/19/11 08:49		1

Project: Florida Standard List of Methods

Final 1.000

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: SB-4 (4-5') **Matrix:** Soil **Date Received:** Aug-18-11 11:00

Lab Sample Id: 425485-002 **Date Collected:** Aug-17-11 10:30

Analytical Method: BTEX by SW8260B **Prep Method:** SW5030B

Tech: BRL **% Moisture:** 13.1

Analyst: BRL **Date Prep:** Aug-29-11 09:12 **Basis:** Dry Weight

Seq Number: 867424

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	0.0575	0.0264	mg/kg	08/28/11 23:29	U	50
Ethylbenzene	100-41-4	U	0.0575	0.00707	mg/kg	08/28/11 23:29	U	50
m,p-Xylenes	179601-23-1	U	0.173	0.0138	mg/kg	08/28/11 23:29	U	50
MTBE	1634-04-4	U	0.0575	0.00919	mg/kg	08/28/11 23:29	U	50
o-Xylene	95-47-6	U	0.0575	0.00915	mg/kg	08/28/11 23:29	U	50
Toluene	108-88-3	U	0.115	0.0523	mg/kg	08/28/11 23:29	U	50
Total Xylenes	1330-20-7	U	0.0575	0.00915	mg/kg	08/28/11 23:29	U	50
Total BTEX		U	0.0575	0.00707	mg/kg	08/28/11 23:29	U	50

Analytical Method: PAHs by SW846 8270C **Prep Method:** SW3550

Tech: LUA **% Moisture:** 13.1

Analyst: BAT **Date Prep:** Aug-23-11 13:00 **Basis:** Dry Weight

Seq Number: 867151

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Acenaphthene	83-32-9	U	0.115	0.0253	mg/kg	08/24/11 18:54	U	1
Acenaphthylene	208-96-8	U	0.115	0.0345	mg/kg	08/24/11 18:54	U	1
Anthracene	120-12-7	U	0.115	0.0403	mg/kg	08/24/11 18:54	U	1
Benzo(a)anthracene	56-55-3	U	0.115	0.0322	mg/kg	08/24/11 18:54	U	1
Benzo(a)pyrene	50-32-8	U	0.0759	0.0288	mg/kg	08/24/11 18:54	U	1
Benzo(b)fluoranthene	205-99-2	U	0.115	0.0230	mg/kg	08/24/11 18:54	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.115	0.0311	mg/kg	08/24/11 18:54	U	1
Benzo(k)fluoranthene	207-08-9	U	0.115	0.0380	mg/kg	08/24/11 18:54	U	1
Chrysene	218-01-9	U	0.115	0.0265	mg/kg	08/24/11 18:54	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.0759	0.0311	mg/kg	08/24/11 18:54	U	1
Fluoranthene	206-44-0	U	0.115	0.0437	mg/kg	08/24/11 18:54	U	1
Fluorene	86-73-7	U	0.115	0.0265	mg/kg	08/24/11 18:54	U	1
2-Methylnaphthalene	91-57-6	U	0.230	0.0322	mg/kg	08/24/11 18:54	U	1
1-Methylnaphthalene	90-12-0	U	0.115	0.0311	mg/kg	08/24/11 18:54	U	1
Naphthalene	91-20-3	U	0.115	0.0242	mg/kg	08/24/11 18:54	U	1
Phenanthrene	85-01-8	U	0.115	0.0368	mg/kg	08/24/11 18:54	U	1
Pyrene	129-00-0	U	0.115	0.0380	mg/kg	08/24/11 18:54	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.115	0.0391	mg/kg	08/24/11 18:54	U	1

Project: Florida Standard List of Methods

Certificate of Analytical Results 425485

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: SB-4 (4-5')	**Matrix:** Soil	**Date Received:** Aug-18-11 11:00
Lab Sample Id: 425485-002	**Date Collected:** Aug-17-11 10:30	

Analytical Method:	TPH by FLPRO		**Prep Method:** SW3550
Tech:	LUA		**% Moisture:** 13.1
Analyst:	JEZ	**Date Prep:** Aug-23-11 10:30	**Basis:** Dry Weight
Seq Number:	867090		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
FL-PRO	FL-PRO	119	23.0	3.34	mg/kg	08/24/11 05:20		1

Project: Florida Standard List of Methods

FLORIDA flagging criteria

Data were reviewed by the
Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations.

B Results based upon colony counts outside the acceptable range.

J Estimated value; value not accurate. All results with a "J" qualifier require comment.
- J1: Surrogate Recoveries exceed established QA/QC Limits
- J2: No known QA/QC exists.
- J3: Reported value failed to meet established QA/QC limits or the sample matrix interfered with the ability to make an accurate determination
- J4: The data is questionable due to improper laboratory or field protocols

Q Sample held beyond the accepted holding time

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Compound was analyzed for but not detected at the MDL Level.

V Analyte was detected in both the sample and the associated method blank.

Y Laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory MDL and the laboratory PQL.

***** Not analyzed due to interference.

R Significant rain in the past 48 hours.

! Data deviates from historically established concentration ranges.

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

F RPD exceeded lab control limits.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425485, **Project ID:**

Lab Batch #: 867090 **Sample:** 425485-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/24/11 04:44

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.110	0.100	110	62-109	J
Pentatriacontane	0.230	0.200	115	10-171	

Lab Batch #: 867090 **Sample:** 425485-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/24/11 05:20

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.120	0.100	120	62-109	J
Pentatriacontane	0.250	0.200	125	10-171	

Lab Batch #: 867151 **Sample:** 425485-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/24/11 18:36

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.39	1.67	83	47-100	
Nitrobenzene-d5	1.29	1.67	77	44-97	
Terphenyl-D14	1.56	1.67	93	41-113	

Lab Batch #: 867151 **Sample:** 425485-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/24/11 18:54

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.27	1.67	76	47-100	
Nitrobenzene-d5	1.20	1.67	72	44-97	
Terphenyl-D14	1.52	1.67	91	41-113	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425485,

Project ID:

Lab Batch #: 867261 **Sample:** 425485-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/25/11 23:33

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0351	0.0300	117	78-137	
Dibromofluoromethane	0.0303	0.0300	101	81-115	
Toluene-D8	0.0300	0.0300	100	86-117	

Lab Batch #: 867424 **Sample:** 425485-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/28/11 23:29

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0301	0.0300	100	78-137	
Dibromofluoromethane	0.0294	0.0300	98	81-115	
Toluene-D8	0.0307	0.0300	102	86-117	

Lab Batch #: 867090 **Sample:** 609667-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/23/11 21:04

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.100	0.100	100	62-109	
Pentatriacontane	0.220	0.200	110	10-171	

Lab Batch #: 867151 **Sample:** 609663-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/24/11 12:39

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.55	1.67	93	47-100	
Nitrobenzene-d5	1.59	1.67	95	44-97	
Terphenyl-D14	1.72	1.67	103	41-113	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425485, **Project ID:**

Lab Batch #: 867261 **Sample:** 609720-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/25/11 19:56

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0326	0.0300	109	78-137	
Dibromofluoromethane	0.0294	0.0300	98	81-115	
Toluene-D8	0.0310	0.0300	103	86-117	

Lab Batch #: 867424 **Sample:** 609934-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/28/11 19:26

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0312	0.0300	104	78-137	
Dibromofluoromethane	0.0301	0.0300	100	81-115	
Toluene-D8	0.0306	0.0300	102	86-117	

Lab Batch #: 867090 **Sample:** 609667-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/23/11 21:39

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.120	0.100	120	62-109	J
Pentatriacontane	0.250	0.200	125	10-171	

Lab Batch #: 867151 **Sample:** 609663-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/24/11 12:57

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.47	1.67	88	47-100	
Nitrobenzene-d5	1.45	1.67	87	44-97	
Terphenyl-D14	1.62	1.67	97	41-113	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425485,

Project ID:

Lab Batch #: 867261 **Sample:** 609720-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/25/11 18:20

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0296	0.0300	99	78-137	
Dibromofluoromethane	0.0306	0.0300	102	81-115	
Toluene-D8	0.0297	0.0300	99	86-117	

Lab Batch #: 867424 **Sample:** 609934-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 08/28/11 17:49

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0292	0.0300	97	78-137	
Dibromofluoromethane	0.0302	0.0300	101	81-115	
Toluene-D8	0.0299	0.0300	100	86-117	

Lab Batch #: 867090 **Sample:** 425526-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/23/11 22:15

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0900	0.100	90	62-109	
Pentatriacontane	0.200	0.200	100	10-171	

Lab Batch #: 867151 **Sample:** 425578-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/24/11 20:22

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.22	1.67	73	47-100	
Nitrobenzene-d5	1.26	1.67	75	44-97	
Terphenyl-D14	1.46	1.67	87	41-113	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425485,

Project ID:

Lab Batch #: 867261 **Sample:** 425427-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/26/11 02:23

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0300	0.0300	100	78-137	
Dibromofluoromethane	0.0302	0.0300	101	81-115	
Toluene-D8	0.0303	0.0300	101	86-117	

Lab Batch #: 867424 **Sample:** 425485-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/29/11 01:06

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0297	0.0300	99	78-137	
Dibromofluoromethane	0.0297	0.0300	99	81-115	
Toluene-D8	0.0299	0.0300	100	86-117	

Lab Batch #: 867090 **Sample:** 425526-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/23/11 22:50

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.100	0.100	100	62-109	
Pentatriacontane	0.210	0.200	105	10-171	

Lab Batch #: 867151 **Sample:** 425578-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/24/11 20:40

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.23	1.67	74	47-100	
Nitrobenzene-d5	1.23	1.67	74	44-97	
Terphenyl-D14	1.56	1.67	93	41-113	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425485,

Project ID:

Lab Batch #: 867261 **Sample:** 425427-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/26/11 02:47

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0300	0.0300	100	78-137	
Dibromofluoromethane	0.0299	0.0300	100	81-115	
Toluene-D8	0.0299	0.0300	100	86-117	

Lab Batch #: 867424 **Sample:** 425485-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 08/29/11 01:30

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0298	0.0300	99	78-137	
Dibromofluoromethane	0.0302	0.0300	101	81-115	
Toluene-D8	0.0300	0.0300	100	86-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **609663-1-BLK** Matrix: **SOLID**
Lab Sample Id: **609663-1-BLK**

Analytical Method: PAHs by SW846 8270C Prep Method: SW3550

Date Analyzed: Aug-24-11 12:39 Analyst: BAT Date Prep: Aug-23-11 13:00 Tech: LUA
Seq Number: 867151

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Acenaphthene	83-32-9	U	0.100	0.0220	mg/kg	U	1
Acenaphthylene	208-96-8	U	0.100	0.0300	mg/kg	U	1
Anthracene	120-12-7	U	0.100	0.0350	mg/kg	U	1
Benzo(a)anthracene	56-55-3	U	0.100	0.0280	mg/kg	U	1
Benzo(a)pyrene	50-32-8	U	0.0660	0.0250	mg/kg	U	1
Benzo(b)fluoranthene	205-99-2	U	0.100	0.0200	mg/kg	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.100	0.0270	mg/kg	U	1
Benzo(k)fluoranthene	207-08-9	U	0.100	0.0330	mg/kg	U	1
Chrysene	218-01-9	U	0.100	0.0230	mg/kg	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.0660	0.0270	mg/kg	U	1
Fluoranthene	206-44-0	U	0.100	0.0380	mg/kg	U	1
Fluorene	86-73-7	U	0.100	0.0230	mg/kg	U	1
2-Methylnaphthalene	91-57-6	U	0.200	0.0280	mg/kg	U	1
1-Methylnaphthalene	90-12-0	U	0.100	0.0270	mg/kg	U	1
Naphthalene	91-20-3	U	0.100	0.0210	mg/kg	U	1
Phenanthrene	85-01-8	U	0.100	0.0320	mg/kg	U	1
Pyrene	129-00-0	U	0.100	0.0330	mg/kg	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.100	0.0340	mg/kg	U	1

Blank Summary 425485

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **609667-1-BLK** Matrix: **SOLID**
Lab Sample Id: **609667-1-BLK**

Analytical Method: TPH by FLPRO Prep Method: SW3550

Date Analyzed: Aug-23-11 21:04 Analyst: JEZ Date Prep: Aug-23-11 10:30 Tech: LUA
Seq Number: 867090

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
FL-PRO	FL-PRO	U	20.0	2.90	mg/kg	U	1

Project: Florida Standard List of Methods

Version: 1.007

Final 1.000

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **609720-1-BLK** Matrix: **SOLID**
Lab Sample Id: **609720-1-BLK**

Analytical Method: BTEX by SW8260B Prep Method: SW5030B

Date Analyzed: Aug-25-11 19:56 Analyst: BRL Date Prep: Aug-22-11 22:46 Tech: BRL
Seq Number: 867261

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	0.00100	0.000460	mg/kg	U	1
Ethylbenzene	100-41-4	U	0.00100	0.000123	mg/kg	U	1
m,p-Xylenes	179601-23-1	U	0.00300	0.000241	mg/kg	U	1
MTBE	1634-04-4	U	0.00100	0.000160	mg/kg	U	1
o-Xylene	95-47-6	U	0.00100	0.000159	mg/kg	U	1
Toluene	108-88-3	U	0.00200	0.000909	mg/kg	U	1
Total Xylenes	1330-20-7	U	0.00100	0.000159	mg/kg	U	1
Total BTEX		U	0.00100	0.000123	mg/kg	U	1

Project: Florida Standard List of Methods

Version: 1.007

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **609934-1-BLK** Matrix: **SOLID**
Lab Sample Id: **609934-1-BLK**

Analytical Method: BTEX by SW8260B Prep Method: SW5030B

Date Analyzed: Aug-28-11 19:26 Analyst: BRL Date Prep: Aug-29-11 09:12 Tech: BRL
Seq Number: 867424

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Benzene	71-43-2	U	0.00100	0.000460	mg/kg	U	1
Ethylbenzene	100-41-4	U	0.00100	0.000123	mg/kg	U	1
m,p-Xylenes	179601-23-1	U	0.00300	0.000241	mg/kg	U	1
MTBE	1634-04-4	U	0.00100	0.000160	mg/kg	U	1
o-Xylene	95-47-6	U	0.00100	0.000159	mg/kg	U	1
Toluene	108-88-3	U	0.00200	0.000909	mg/kg	U	1
Total Xylenes	1330-20-7	U	0.00100	0.000159	mg/kg	U	1
Total BTEX		U	0.00100	0.000123	mg/kg	U	1

Project: Florida Standard List of Methods

Version: 1.007

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **866890-1-BLK** Matrix: **SOLID**
Lab Sample Id: **866890-1-BLK**

Analytical Method: Percent Moisture Prep Method:

Date Analyzed: Aug-19-11 08:49 Analyst: ARM Date Prep: Tech: ARM
Seq Number: 866890

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Percent Moisture	TMOIST	U	1.00	1.00	%	U	1

Project: Florida Standard List of Methods

Version: 1.007

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Analytical Method: BTEX by SW8260B — Prep Method: SW5030B
Seq Number: 867261 — Matrix: Solid — Date Prep: 08/22/2011
MB Sample Id: 609720-1-BLK — LCS Sample Id: 609720-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000460	0.05	0.0439	88	73-128	mg/kg	08/25/11 18:20	
Toluene	<0.000909	0.05	0.0419	84	67-116	mg/kg	08/25/11 18:20	

Analytical Method: BTEX by SW8260B — Prep Method: SW5030B
Seq Number: 867424 — Matrix: Solid — Date Prep: 08/29/2011
MB Sample Id: 609934-1-BLK — LCS Sample Id: 609934-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Benzene	<0.000460	0.05	0.0449	90	73-128	mg/kg	08/28/11 17:49	
Toluene	<0.000909	0.05	0.0429	86	67-116	mg/kg	08/28/11 17:49	

Analytical Method: BTEX by SW8260B — Prep Method: SW5030B
Seq Number: 867261 — Matrix: Soil — Date Prep: 08/22/2011
Parent Sample Id: 425427-001 — MS Sample Id: 425427-001 S — MSD Sample Id: 425427-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000606	0.0659	0.0398	60	0.0460	70	73-128	14	20	mg/kg	08/26/11 02:23	J
Toluene	<0.00120	0.0659	0.0253	38	0.0321	49	67-116	24	20	mg/kg	08/26/11 02:23	J

Analytical Method: BTEX by SW8260B — Prep Method: SW5030B
Seq Number: 867424 — Matrix: Soil — Date Prep: 08/29/2011
Parent Sample Id: 425485-002 — MS Sample Id: 425485-002 S — MSD Sample Id: 425485-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000529	0.0575	0.0546	95	0.0484	84	73-128	12	20	mg/kg	08/29/11 01:06	
Toluene	<0.00105	0.0575	0.0504	88	0.0430	75	67-116	16	20	mg/kg	08/29/11 01:06	

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Analytical Method: PAHs by SW846 8270C — Prep Method: SW3550
Seq Number: 867151 — Matrix: Solid — Date Prep: 08/23/2011
MB Sample Id: 609663-1-BLK — LCS Sample Id: 609663-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Acenaphthene	<0.0220	1.67	1.34	80	64-106	mg/kg	08/24/11 12:57	
Acenaphthylene	<0.0300	1.67	1.46	87	64-113	mg/kg	08/24/11 12:57	
Anthracene	<0.0350	1.67	1.35	81	65-103	mg/kg	08/24/11 12:57	
Benzo(a)anthracene	<0.0280	1.67	1.50	90	69-106	mg/kg	08/24/11 12:57	
Benzo(a)pyrene	<0.0250	1.67	1.41	84	58-111	mg/kg	08/24/11 12:57	
Benzo(b)fluoranthene	<0.0200	1.67	1.26	75	43-133	mg/kg	08/24/11 12:57	
Benzo(g,h,i)perylene	<0.0270	1.67	1.59	95	52-131	mg/kg	08/24/11 12:57	
Benzo(k)fluoranthene	<0.0330	1.67	1.52	91	45-121	mg/kg	08/24/11 12:57	
Chrysene	<0.0230	1.67	1.49	89	60-110	mg/kg	08/24/11 12:57	
Dibenz(a,h)anthracene	<0.0270	1.67	1.48	89	54-130	mg/kg	08/24/11 12:57	
Fluoranthene	<0.0380	1.67	1.50	90	65-112	mg/kg	08/24/11 12:57	
Fluorene	<0.0230	1.67	1.43	86	63-107	mg/kg	08/24/11 12:57	
2-Methylnaphthalene	<0.0280	1.67	1.29	77	62-97	mg/kg	08/24/11 12:57	
1-Methylnaphthalene	<0.0270	1.67	1.32	79	62-96	mg/kg	08/24/11 12:57	
Naphthalene	<0.0210	1.67	1.28	77	63-102	mg/kg	08/24/11 12:57	
Phenanthrene	<0.0320	1.67	1.40	84	66-107	mg/kg	08/24/11 12:57	
Pyrene	<0.0330	1.67	1.43	86	67-110	mg/kg	08/24/11 12:57	
Indeno(1,2,3-c,d)Pyrene	<0.0340	1.67	1.47	88	47-137	mg/kg	08/24/11 12:57	

Analytical Method: PAHs by SW846 8270C — Prep Method: SW3550
Seq Number: 867151 — Matrix: Soil — Date Prep: 08/23/2011
Parent Sample Id: 425578-002 — MS Sample Id: 425578-002 S — MSD Sample Id: 425578-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acenaphthene	<0.0251	1.9	1.31	69	1.33	70	46-108	2	20	mg/kg	08/24/11 20:22	
Acenaphthylene	<0.0342	1.9	1.41	74	1.46	77	45-112	3	20	mg/kg	08/24/11 20:22	
Anthracene	<0.0400	1.9	1.37	72	1.44	76	46-108	5	20	mg/kg	08/24/11 20:22	
Benzo(a)anthracene	<0.0320	1.9	1.54	81	1.64	86	47-115	6	20	mg/kg	08/24/11 20:22	
Benzo(a)pyrene	<0.0285	1.9	1.46	77	1.55	82	44-115	6	20	mg/kg	08/24/11 20:22	
Benzo(b)fluoranthene	<0.0228	1.9	1.25	66	1.37	72	49-109	9	20	mg/kg	08/24/11 20:22	
Benzo(g,h,i)perylene	<0.0308	1.9	1.56	82	1.64	86	49-110	5	20	mg/kg	08/24/11 20:22	
Benzo(k)fluoranthene	<0.0377	1.9	1.62	85	1.69	89	18-142	4	20	mg/kg	08/24/11 20:22	
Chrysene	<0.0263	1.9	1.48	78	1.59	84	51-123	7	20	mg/kg	08/24/11 20:22	
Dibenz(a,h)anthracene	<0.0308	1.9	1.53	81	1.58	83	48-113	3	20	mg/kg	08/24/11 20:22	
Fluoranthene	<0.0434	1.9	1.54	81	1.63	86	47-116	6	20	mg/kg	08/24/11 20:22	
Fluorene	<0.0263	1.9	1.43	75	1.47	77	48-108	3	20	mg/kg	08/24/11 20:22	
2-Methylnaphthalene	<0.0320	1.9	1.31	69	1.26	66	47-99	4	20	mg/kg	08/24/11 20:22	
1-Methylnaphthalene	<0.0308	1.9	1.30	68	1.27	67	47-93	2	20	mg/kg	08/24/11 20:22	
Naphthalene	<0.0240	1.9	1.27	67	1.23	65	45-104	3	20	mg/kg	08/24/11 20:22	
Phenanthrene	<0.0365	1.9	1.43	75	1.49	78	47-113	4	20	mg/kg	08/24/11 20:22	
Pyrene	<0.0377	1.9	1.44	76	1.55	82	49-104	7	20	mg/kg	08/24/11 20:22	
Indeno(1,2,3-c,d)Pyrene	<0.0388	1.9	1.46	77	1.55	82	50-109	6	30	mg/kg	08/24/11 20:22	

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Analytical Method: TPH by FLPRO — Prep Method: SW3550
Seq Number: 867090 — Matrix: Solid — Date Prep: 08/23/2011
MB Sample Id: 609667-1-BLK — LCS Sample Id: 609667-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
FL-PRO	<2.90	56.5	82.8	147	62-204	mg/kg	08/23/11 21:39	

Analytical Method: TPH by FLPRO — Prep Method: SW3550
Seq Number: 867090 — Matrix: Soil — Date Prep: 08/23/2011
Parent Sample Id: 425526-001 — MS Sample Id: 425526-001 S — MSD Sample Id: 425526-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
FL-PRO	<3.49	67.9	77.6	114	91.6	135	62-204	17	25	mg/kg	08/23/11 22:15	

Analytical Method: Percent Moisture
Seq Number: 866890 — Matrix: Sludge
Parent Sample Id: 425523-001 — MD Sample Id: 425523-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	12.9	12.7	2	20	%	08/19/11 08:49	

Analytical Method: Percent Moisture
Seq Number: 866890 — Matrix: Soil
Parent Sample Id: 425518-001 — MD Sample Id: 425518-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	2.05	1.95	5	20	%	08/19/11 08:49	

425485 425485
Rec. 8.18.11.

COC / Workorder#:

Handex 6 Digit Location Code / Site ID: 128090

Chain of Custody Record

Page: 1 of: 1

Company:	HANDEX CONSULTING & REMEDIATION		
Address:	430 S. Congress Ave, Delray Beach, FL 33445		
Phone:	561 243-9551	Fax:	561 243-8707
Sampled by [Print Name(s)]/Affiliation	Elizabeth Arneja/HCR		
Sampler(s) Signature(s)	E. Arneja		

Preservatives (see codes): H S H H N N

Analyses Requested: BTEX/MTBE by 8260B; PAHs by 8270C; TRPH by FL-PRO; SPLP Extract Hold

Item No.	Field ID No.	Sampled Date	Sampled Time	Col. Method (see codes)	Matrix (see codes)	Number of Containers	Remarks	Lab. No.
1	~~SB-~~ SB-8(0-2'	8.17.11	955	G	SP	6		
2	~~SB-~~ SB-4(4-5'	8.17.11	1030	G	SP	6		
3	~~SB-~~						HOLD SPLP Speciation	
4	~~SB-~~							
5	~~SB-~~							
6	~~SB-~~							

Laboratory: Pace Analytical
Address:
Contact: Terrence Anderson
Regulatory Facility No.
Project Name: Moped Hospital
Sampling QAP No.:
Approval Date:
TAT: STANDARD
Other:

Shipping Details: 0 ← Total Number of Containers

Date Out:	Via:	Item No.	Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Returned:	Via:		E. Arneja/HCR	8.17.11	1300	[illegible]	8.18.11	1100

Additional Comments:
Bill at Preapproval rates. Email results to pcook@handexmail.com and jmichel@handexmail.com

Case Mgr: Julio Michel
Client: FDEP
Handex #: 128090 Client #
Address:
Handex / Client Bill to #:
Cash / Reimbursement:

Lab Comments
Seal #
Preserve Where Applicable
On ICE
Temperature _____C

NJ Reduced
NJ Full
Full CLP
Disk Deliverable
Other (Specify)

NJ Data Deliverable Info
Commercial "A"
Commercial "B"
State Forms

MATRIX CODES: A = Air; GW = Groundwater; SE = Sediment; SP = Soil; SW = Surface Water; W = Water (Blanks); O = Other
PRESERVATIVE CODES: H = HCL + Ice; I = Ice Only; N = Nitric Acid + Ice; P= Phosphoric Acid; S = Sulfuric Acid + Ice; M = Methanol; O = Other
COLLECTION METHOD CODES: C = Composite; G=Grab; P= Pumping; O = Other

Sample Condition Upon Receipt Form (SCUR)

Table Number:_____

Pace Analytical

Client Name: Handex Project # 425485 425485 Rec 8.18.11

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other_____

Tracking # 8356 6484 6133

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used T-108 Type of Ice: (Wet) Blue None

Cooler Temperature°C 2.4 (Visual) _____(Correction Factor) _____(Actual)

Date and Initials of person examining contents: MC

(Temp should be above freezing to 0°-6°C). If below 0°C, then was sample frozen?

☐Yes ☐No

Receipt of samples satisfactory: ☑Yes ☐No

Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted:_____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date:_____

Finished Product Information Only

F.P. Sample ID:_____

Production Code:_____

Date/Time Opened:_____

Number of Unopened Bottles Remaining:_____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other:_____

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Pace Analytical - Boca Raton, FL

Date/ Time Received: 08/18/2011 11:00:00 AM

Work Order #: 425485

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles/ container?	Yes	
#6 *Custody Seals Signed and dated for Containers/coolers	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	Yes	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **DateTime :** _____

Checklist completed by: R Khusainov Date: 08/18/2011
Robert Khusainov

Checklist reviewed by: R Khusainov Date: 08/18/2011
Robert Khusainov

Analytical Report 425640

for

Handex of Delray Beach

Project Manager: JULIO MICHEL

Moped Hospital

26-SEP-11

Collected By: Client

3231 NW 7th Avenue, Boca Raton, FL 33431
Ph:(561) 447-7373 Fax:(561) 447-6136

Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

26-SEP-11

Project Manager: **JULIO MICHEL**
Handex of Delray Beach
430 South Congress Avenue Suite 1D
Delray Beach, FL 33445

Reference: PACE Report No: **425640**
Moped Hospital
Project Address:

JULIO MICHEL:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the PACE Report Number 425640. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by PACE Analytical Services. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 425640 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting PACE Analytical Services to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Terrence Anderson
Office Manager

Sample Cross Reference 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	08-19-11 09:36		425640-001
MW-2	W	08-19-11 10:31		425640-002
MW-3	W	08-19-11 11:38		425640-003
MW-4	W	08-19-11 12:34		425640-004
MW-A	W	08-19-11 01:32		425640-005
Trip Blank	W	08-19-11 00:00		425640-006

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-1	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-001	**Date Collected:** Aug-19-11 09:36	

Analytical Method: EDB / DBCP by SW-846 8011 — **Prep Method:** EXT_8011
Tech: BRL — **% Moisture:**
Analyst: BRL — **Date Prep:** Aug-29-11 00:00
Seq Number: 867763 — SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.010	0.0063	ug/L	09/04/11 04:55	U	1

Analytical Method: ICP Metals by SW846 6010B — **Prep Method:** SW3010A
Tech: IST — **% Moisture:**
Analyst: IST — **Date Prep:** Aug-26-11 10:12
Seq Number: 867298 — SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	30.8	10.0	5.00	ug/L	08/26/11 03:44		1

Analytical Method: PAHs by SW846 8270C — **Prep Method:** SW3510C
Tech: HEA — **% Moisture:**
Analyst: BAT — **Date Prep:** Aug-23-11 08:00
Seq Number: 867103

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1-Methylnaphthalene +	90-12-0	41.8	20.0	0.522	ug/L	08/25/11 10:32		20
2-Methylnaphthalene	91-57-6	56.8	20.0	0.604	ug/L	08/25/11 10:32		20
Acenaphthene	83-32-9	6.78	1.00	0.0270	ug/L	08/23/11 20:50		1
Acenaphthylene	208-96-8	U	1.00	0.0264	ug/L	08/23/11 20:50	U	1
Anthracene	120-12-7	0.891	1.00	0.00560	ug/L	08/23/11 20:50	I	1
Benzo(a)anthracene	56-55-3	0.0630	0.100	0.0113	ug/L	08/23/11 20:50	I	1
Benzo(a)pyrene	50-32-8	U	0.100	0.0133	ug/L	08/23/11 20:50	U	1
Benzo(b)fluoranthene	205-99-2	U	0.100	0.0154	ug/L	08/23/11 20:50	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.100	0.0142	ug/L	08/23/11 20:50	U	1
Benzo(k)fluoranthene	207-08-9	U	0.100	0.0116	ug/L	08/23/11 20:50	U	1
Chrysene	218-01-9	U	0.100	0.0165	ug/L	08/23/11 20:50	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.200	0.00560	ug/L	08/23/11 20:50	U	1
Fluoranthene	206-44-0	0.509	1.00	0.00780	ug/L	08/23/11 20:50	I	1
Fluorene	86-73-7	6.29	1.00	0.0112	ug/L	08/23/11 20:50		1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.100	0.0107	ug/L	08/23/11 20:50	U	1
Naphthalene	91-20-3	202	20.0	0.688	ug/L	08/25/11 10:32		20
Phenanthrene	85-01-8	7.84	1.00	0.0136	ug/L	08/23/11 20:50		1
Pyrene	129-00-0	0.641	0.100	0.00840	ug/L	08/23/11 20:50		1

Project: Florida Standard List of Methods

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-1	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-001	**Date Collected:** Aug-19-11 09:36	

Analytical Method:	TPH by FLPRO		**Prep Method:** SW3510C
Tech:	HEE		**% Moisture:**
Analyst:	JEZ	**Date Prep:** Aug-23-11 09:00	
Seq Number:	867081		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
FL-PRO	FL-PRO	1.17	0.694	0.153	mg/L	08/24/11 13:50		1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-1	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-001	**Date Collected:** Aug-19-11 09:36	

Analytical Method: VOA PP List by SW-846 8260BPP
Tech: SUB
Analyst: SUB
Seq Number: 868247

% Moisture:

SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.120	ug/L	08/28/11 15:24	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Acrolein	107-02-8	U	20.0	10.0	ug/L	08/28/11 15:24	U	1
Acrylonitrile	107-13-1	U	10.0	5.00	ug/L	08/28/11 15:24	U	1
Benzene	71-43-2	854	1.00	0.500	ug/L	08/28/11 15:24		10
Bromodichloromethane	75-27-4	U	0.600	0.270	ug/L	08/28/11 15:24	U	1
Bromoform	75-25-2	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Methyl bromide	74-83-9	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Chlorobenzene	108-90-7	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Chloroethane	75-00-3	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Chloroform	67-66-3	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Methyl Chloride	74-87-3	U	1.00	0.620	ug/L	08/28/11 15:24	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.500	0.250	ug/L	08/28/11 15:24	U	1
Dibromochloromethane	124-48-1	U	0.500	0.260	ug/L	08/28/11 15:24	U	1
Ethylbenzene	100-41-4	48.3	1.00	0.500	ug/L	08/28/11 15:24		1
Methylene Chloride	75-09-2	151	5.00	2.50	ug/L	08/28/11 15:24		1
MTBE	1634-04-4	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Toluene	108-88-3	18.3	1.00	0.500	ug/L	08/28/11 15:24		1
Total Xylenes	1330-20-7	170	1.0	0.50	ug/L	08/28/11 15:24		1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
trans-1,3-dichloropropene	10061-02-6	U	0.500	0.250	ug/L	08/28/11 15:24	U	1
Trichloroethylene	79-01-6	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.500	ug/L	08/28/11 15:24	U	1
Vinyl Chloride	75-01-4	U	1.00	0.500	ug/L	08/28/11 15:24	U	1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-2	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-002	**Date Collected:** Aug-19-11 10:31	

Analytical Method: EDB / DBCP by SW-846 8011 — **Prep Method:** EXT_8011
Tech: BRL — **% Moisture:**
Analyst: BRL — **Date Prep:** Aug-29-11 00:00
Seq Number: 867763 — SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.010	0.0063	ug/L	09/04/11 04:55	U	1

Analytical Method: ICP Metals by SW846 6010B — **Prep Method:** SW3010A
Tech: IST — **% Moisture:**
Analyst: IST — **Date Prep:** Aug-26-11 10:12
Seq Number: 867298 — SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Lead	7439-92-1	23.1	10.0	5.00	ug/L	08/26/11 03:49		1

Analytical Method: PAHs by SW846 8270C — **Prep Method:** SW3510C
Tech: HEA — **% Moisture:**
Analyst: BAT — **Date Prep:** Aug-23-11 08:00
Seq Number: 867103

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1-Methylnaphthalene +	90-12-0	37.9	20.0	0.522	ug/L	08/25/11 10:49		20
2-Methylnaphthalene	91-57-6	61.7	20.0	0.604	ug/L	08/25/11 10:49		20
Acenaphthene	83-32-9	10.0	1.00	0.0270	ug/L	08/23/11 21:08		1
Acenaphthylene	208-96-8	U	1.00	0.0264	ug/L	08/23/11 21:08	U	1
Anthracene	120-12-7	1.61	1.00	0.00560	ug/L	08/23/11 21:08		1
Benzo(a)anthracene	56-55-3	0.0990	0.100	0.0113	ug/L	08/23/11 21:08	I	1
Benzo(a)pyrene	50-32-8	U	0.100	0.0133	ug/L	08/23/11 21:08	U	1
Benzo(b)fluoranthene	205-99-2	U	0.100	0.0154	ug/L	08/23/11 21:08	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.100	0.0142	ug/L	08/23/11 21:08	U	1
Benzo(k)fluoranthene	207-08-9	U	0.100	0.0116	ug/L	08/23/11 21:08	U	1
Chrysene	218-01-9	U	0.100	0.0165	ug/L	08/23/11 21:08	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.200	0.00560	ug/L	08/23/11 21:08	U	1
Fluoranthene	206-44-0	2.03	1.00	0.00780	ug/L	08/23/11 21:08		1
Fluorene	86-73-7	9.19	1.00	0.0112	ug/L	08/23/11 21:08		1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.100	0.0107	ug/L	08/23/11 21:08	U	1
Naphthalene	91-20-3	178	20.0	0.688	ug/L	08/25/11 10:49		20
Phenanthrene	85-01-8	11.3	1.00	0.0136	ug/L	08/23/11 21:08		1
Pyrene	129-00-0	0.958	0.100	0.00840	ug/L	08/23/11 21:08		1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-2	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-002	**Date Collected:** Aug-19-11 10:31	

Analytical Method:	TPH by FLPRO		**Prep Method:** SW3510C
Tech:	HEE		**% Moisture:**
Analyst:	JEZ	**Date Prep:** Aug-23-11 09:00	
Seq Number:	867081		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
FL-PRO	FL-PRO	1.08	0.680	0.150	mg/L	08/24/11 14:26		1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-2	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-002	**Date Collected:** Aug-19-11 10:31	

Analytical Method: VOA PP List by SW-846 8260BPP
Tech: SUB
Analyst: SUB
Seq Number: 868247

% Moisture:

SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.120	ug/L	08/28/11 15:48	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Acrolein	107-02-8	U	20.0	10.0	ug/L	08/28/11 15:48	U	1
Acrylonitrile	107-13-1	U	10.0	5.00	ug/L	08/28/11 15:48	U	1
Benzene	71-43-2	**29.8**	1.00	0.500	ug/L	08/28/11 15:48		1
Bromodichloromethane	75-27-4	U	0.600	0.270	ug/L	08/28/11 15:48	U	1
Bromoform	75-25-2	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Methyl bromide	74-83-9	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Chlorobenzene	108-90-7	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Chloroethane	75-00-3	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Chloroform	67-66-3	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Methyl Chloride	74-87-3	U	1.00	0.620	ug/L	08/28/11 15:48	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.500	0.250	ug/L	08/28/11 15:48	U	1
Dibromochloromethane	124-48-1	U	0.500	0.260	ug/L	08/28/11 15:48	U	1
Ethylbenzene	100-41-4	**5.30**	1.00	0.500	ug/L	08/28/11 15:48		1
Methylene Chloride	75-09-2	U	5.00	2.50	ug/L	08/28/11 15:48	U	1
MTBE	1634-04-4	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Toluene	108-88-3	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Total Xylenes	1330-20-7	**4.6**	1.0	0.50	ug/L	08/28/11 15:48		1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
trans-1,3-dichloropropene	10061-02-6	U	0.500	0.250	ug/L	08/28/11 15:48	U	1
Trichloroethylene	79-01-6	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.500	ug/L	08/28/11 15:48	U	1
Vinyl Chloride	75-01-4	U	1.00	0.500	ug/L	08/28/11 15:48	U	1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-3	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-003	**Date Collected:** Aug-19-11 11:38	

Analytical Method: BTEX by SW8260B
Tech: SUB — **% Moisture:**
Analyst: SUB
Seq Number: 868247 — SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	33.8	1.00	0.500	ug/L	08/28/11 16:12		1
Ethylbenzene	100-41-4	92.4	1.00	0.500	ug/L	08/28/11 16:12		1
m,p-Xylenes	179601-23-1	44.2	1.00	0.500	ug/L	08/28/11 16:12		1
MTBE	1634-04-4	U	1.00	0.500	ug/L	08/28/11 16:12	U	1
o-Xylene	95-47-6	U	1.00	0.500	ug/L	08/28/11 16:12	U	1
Toluene	108-88-3	10.6	1.00	0.500	ug/L	08/28/11 16:12		1
Total Xylenes	1330-20-7	44	1.0	0.50	ug/L	08/28/11 16:12		1
Total BTEX		180	1.0	0.50	ug/L	08/28/11 16:12		1

Analytical Method: PAHs by SW846 8270C — **Prep Method:** SW3510C
Tech: HEA — **% Moisture:**
Analyst: BAT — **Date Prep:** Aug-23-11 08:00
Seq Number: 867103

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1-Methylnaphthalene +	90-12-0	107	100	2.61	ug/L	08/25/11 11:07		100
2-Methylnaphthalene	91-57-6	112	100	3.02	ug/L	08/25/11 11:07		100
Acenaphthene	83-32-9	31.0	100	2.70	ug/L	08/25/11 11:07	I	100
Acenaphthylene	208-96-8	U	1.00	0.0264	ug/L	08/23/11 21:26	U	1
Anthracene	120-12-7	3.68	1.00	0.00560	ug/L	08/23/11 21:26		1
Benzo(a)anthracene	56-55-3	0.457	0.100	0.0113	ug/L	08/23/11 21:26		1
Benzo(a)pyrene	50-32-8	0.0960	0.100	0.0133	ug/L	08/23/11 21:26	I	1
Benzo(b)fluoranthene	205-99-2	0.125	0.100	0.0154	ug/L	08/23/11 21:26		1
Benzo(g,h,i)perylene	191-24-2	0.0370	0.100	0.0142	ug/L	08/23/11 21:26	I	1
Benzo(k)fluoranthene	207-08-9	0.109	0.100	0.0116	ug/L	08/23/11 21:26		1
Chrysene	218-01-9	0.386	0.100	0.0165	ug/L	08/23/11 21:26		1
Dibenz(a,h)anthracene	53-70-3	U	0.200	0.00560	ug/L	08/23/11 21:26	U	1
Fluoranthene	206-44-0	4.81	1.00	0.00780	ug/L	08/23/11 21:26		1
Fluorene	86-73-7	23.0	100	1.12	ug/L	08/25/11 11:07	I	100
Indeno(1,2,3-c,d)Pyrene	193-39-5	0.0300	0.100	0.0107	ug/L	08/23/11 21:26	I	1
Naphthalene	91-20-3	816	100	3.44	ug/L	08/25/11 11:07		100
Phenanthrene	85-01-8	23.2	100	1.36	ug/L	08/25/11 11:07	I	100
Pyrene	129-00-0	2.79	0.100	0.00840	ug/L	08/23/11 21:26		1

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Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-3	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-003	**Date Collected:** Aug-19-11 11:38	

Analytical Method:	TPH by FLPRO		**Prep Method:** SW3510C
Tech:	HEE		**% Moisture:**
Analyst:	JEZ	**Date Prep:** Aug-23-11 09:00	
Seq Number:	867081		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
FL-PRO	FL-PRO	2.67	0.680	0.150	mg/L	08/24/11 15:01		1

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Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-4	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-004	**Date Collected:** Aug-19-11 12:34	

Analytical Method: BTEX by SW8260B
Tech: SUB
Analyst: SUB
Seq Number: 868247
% Moisture:
SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**269**	1.00	0.500	ug/L	08/28/11 16:36		5
Ethylbenzene	100-41-4	**30.6**	1.00	0.500	ug/L	08/28/11 16:36		1
m,p-Xylenes	179601-23-1	**2.00**	1.00	0.500	ug/L	08/28/11 16:36		1
MTBE	1634-04-4	U	1.00	0.500	ug/L	08/28/11 16:36	U	1
o-Xylene	95-47-6	U	1.00	0.500	ug/L	08/28/11 16:36	U	1
Toluene	108-88-3	U	1.00	0.500	ug/L	08/28/11 16:36	U	1
Total Xylenes	1330-20-7	**2.0**	1.0	0.50	ug/L	08/28/11 16:36		1
Total BTEX		**300**	1.0	0.50	ug/L	08/28/11 16:36		5

Analytical Method: PAHs by SW846 8270C
Prep Method: SW3510C
Tech: HEA
% Moisture:
Analyst: BAT
Date Prep: Aug-23-11 08:00
Seq Number: 867103

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1-Methylnaphthalene +	90-12-0	**94.9**	50.0	1.31	ug/L	08/25/11 11:25		50
2-Methylnaphthalene	91-57-6	**184**	50.0	1.51	ug/L	08/25/11 11:25		50
Acenaphthene	83-32-9	**0.629**	1.00	0.0270	ug/L	08/23/11 21:44	I	1
Acenaphthylene	208-96-8	U	1.00	0.0264	ug/L	08/23/11 21:44	U	1
Anthracene	120-12-7	U	1.00	0.00560	ug/L	08/23/11 21:44	U	1
Benzo(a)anthracene	56-55-3	U	0.100	0.0113	ug/L	08/23/11 21:44	U	1
Benzo(a)pyrene	50-32-8	U	0.100	0.0133	ug/L	08/23/11 21:44	U	1
Benzo(b)fluoranthene	205-99-2	U	0.100	0.0154	ug/L	08/23/11 21:44	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.100	0.0142	ug/L	08/23/11 21:44	U	1
Benzo(k)fluoranthene	207-08-9	U	0.100	0.0116	ug/L	08/23/11 21:44	U	1
Chrysene	218-01-9	U	0.100	0.0165	ug/L	08/23/11 21:44	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.200	0.00560	ug/L	08/23/11 21:44	U	1
Fluoranthene	206-44-0	**0.0900**	1.00	0.00780	ug/L	08/23/11 21:44	I	1
Fluorene	86-73-7	**0.723**	1.00	0.0112	ug/L	08/23/11 21:44	I	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.100	0.0107	ug/L	08/23/11 21:44	U	1
Naphthalene	91-20-3	**438**	50.0	1.72	ug/L	08/25/11 11:25		50
Phenanthrene	85-01-8	**0.719**	1.00	0.0136	ug/L	08/23/11 21:44	I	1
Pyrene	129-00-0	**0.0920**	0.100	0.00840	ug/L	08/23/11 21:44	I	1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-4	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-004	**Date Collected:** Aug-19-11 12:34	

Analytical Method:	TPH by FLPRO		**Prep Method:** SW3510C
Tech:	HEE		**% Moisture:**
Analyst:	JEZ	**Date Prep:** Aug-23-11 09:00	
Seq Number:	867081		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
FL-PRO	FL-PRO	2.39	0.680	0.150	mg/L	08/24/11 16:13		1

Project: Florida Standard List of Methods

Pace Analytical

Certificate of Analytical Results 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-A	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-005	**Date Collected:** Aug-19-11 01:32	

Analytical Method: BTEX by SW8260B
Tech: SUB — **% Moisture:**
Analyst: SUB
Seq Number: 868247 — SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.500	ug/L	08/28/11 16:59	U	1
Ethylbenzene	100-41-4	2.40	1.00	0.500	ug/L	08/28/11 16:59		1
m,p-Xylenes	179601-23-1	U	1.00	0.500	ug/L	08/28/11 16:59	U	1
MTBE	1634-04-4	U	1.00	0.500	ug/L	08/28/11 16:59	U	1
o-Xylene	95-47-6	U	1.00	0.500	ug/L	08/28/11 16:59	U	1
Toluene	108-88-3	U	1.00	0.500	ug/L	08/28/11 16:59	U	1
Total Xylenes	1330-20-7	U	1.0	0.50	ug/L	08/28/11 16:59	U	1
Total BTEX		2.4	1.0	0.50	ug/L	08/28/11 16:59		1

Analytical Method: PAHs by SW846 8270C — **Prep Method:** SW3510C
Tech: HEA — **% Moisture:**
Analyst: BAT — **Date Prep:** Aug-23-11 08:00
Seq Number: 867103

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1-Methylnaphthalene +	90-12-0	13.8	1.00	0.0261	ug/L	08/23/11 22:02		1
2-Methylnaphthalene	91-57-6	10.9	1.00	0.0302	ug/L	08/23/11 22:02		1
Acenaphthene	83-32-9	0.165	1.00	0.0270	ug/L	08/23/11 22:02	I	1
Acenaphthylene	208-96-8	U	1.00	0.0264	ug/L	08/23/11 22:02	U	1
Anthracene	120-12-7	U	1.00	0.00560	ug/L	08/23/11 22:02	U	1
Benzo(a)anthracene	56-55-3	U	0.100	0.0113	ug/L	08/23/11 22:02	U	1
Benzo(a)pyrene	50-32-8	U	0.100	0.0133	ug/L	08/23/11 22:02	U	1
Benzo(b)fluoranthene	205-99-2	U	0.100	0.0154	ug/L	08/23/11 22:02	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.100	0.0142	ug/L	08/23/11 22:02	U	1
Benzo(k)fluoranthene	207-08-9	U	0.100	0.0116	ug/L	08/23/11 22:02	U	1
Chrysene	218-01-9	U	0.100	0.0165	ug/L	08/23/11 22:02	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.200	0.00560	ug/L	08/23/11 22:02	U	1
Fluoranthene	206-44-0	0.0570	1.00	0.00780	ug/L	08/23/11 22:02	I	1
Fluorene	86-73-7	0.190	1.00	0.0112	ug/L	08/23/11 22:02	I	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.100	0.0107	ug/L	08/23/11 22:02	U	1
Naphthalene	91-20-3	17.8	5.00	0.172	ug/L	08/25/11 11:42		5
Phenanthrene	85-01-8	0.217	1.00	0.0136	ug/L	08/23/11 22:02	I	1
Pyrene	129-00-0	0.0510	0.100	0.00840	ug/L	08/23/11 22:02	I	1

Project: Florida Standard List of Methods

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: MW-A	**Matrix:** Ground Water	**Date Received:** Aug-22-11 17:45
Lab Sample Id: 425640-005	**Date Collected:** Aug-19-11 01:32	

Analytical Method:	TPH by FLPRO		**Prep Method:** SW3510C
Tech:	HEE		**% Moisture:**
Analyst:	JEZ	**Date Prep:** Aug-23-11 09:00	
Seq Number:	867081		

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
FL-PRO	FL-PRO	0.534	0.680	0.150	mg/L	08/24/11 16:48	I	1

Project: Florida Standard List of Methods

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: Trip Blank | **Matrix:** Ground Water | **Date Received:** Aug-22-11 17:45

Lab Sample Id: 425640-006 | **Date Collected:** Aug-19-11 00:00

Analytical Method: EDB / DBCP by SW-846 8011 | **Prep Method:** EXT_8011

Tech: BRL | **% Moisture:**

Analyst: BRL | **Date Prep:** Aug-29-11 00:00

Seq Number: 867763 | SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.010	0.0063	ug/L	09/04/11 04:55	U	1

Analytical Method: VOA PP List by SW-846 8260BPP

Tech: SUB | **% Moisture:**

Analyst: SUB

Seq Number: 868248 | SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.120	ug/L	08/29/11 11:08	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Acrolein	107-02-8	U	20.0	10.0	ug/L	08/29/11 11:08	U	1
Acrylonitrile	107-13-1	U	10.0	5.00	ug/L	08/29/11 11:08	U	1
Benzene	71-43-2	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Bromodichloromethane	75-27-4	U	0.600	0.270	ug/L	08/29/11 11:08	U	1
Bromoform	75-25-2	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Methyl bromide	74-83-9	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Chlorobenzene	108-90-7	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Chloroethane	75-00-3	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Chloroform	67-66-3	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Methyl Chloride	74-87-3	U	1.00	0.620	ug/L	08/29/11 11:08	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.500	0.250	ug/L	08/29/11 11:08	U	1
Dibromochloromethane	124-48-1	U	0.500	0.260	ug/L	08/29/11 11:08	U	1
Ethylbenzene	100-41-4	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Methylene Chloride	75-09-2	**2.90**	5.00	2.50	ug/L	08/29/11 11:08	JJ	1
Tetrachloroethylene	127-18-4	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Toluene	108-88-3	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
trans-1,3-dichloropropene	10061-02-6	U	0.500	0.250	ug/L	08/29/11 11:08	U	1
Trichloroethylene	79-01-6	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.500	ug/L	08/29/11 11:08	U	1
Vinyl Chloride	75-01-4	U	1.00	0.500	ug/L	08/29/11 11:08	U	1

Project: Florida Standard List of Methods

FLORIDA flagging criteria

Data were reviewed by the
Department Supervisor and QA Director

A Value reported is the mean (average) of two or more determinations.

B Results based upon colony counts outside the acceptable range.

J Estimated value; value not accurate. All results with a "J" qualifier require comment.
- J1: Surrogate Recoveries exceed established QA/QC Limits
- J2: No known QA/QC exists.
- J3: Reported value failed to meet established QA/QC limits or the sample matrix interfered with the ability to make an accurate determination
- J4: The data is questionable due to improper laboratory or field protocols

Q Sample held beyond the accepted holding time

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.

U Compound was analyzed for but not detected at the MDL Level.

V Analyte was detected in both the sample and the associated method blank.

Y Laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

I The reported value is between the laboratory MDL and the laboratory PQL.

* Not analyzed due to interference.

R Significant rain in the past 48 hours.

! Data deviates from historically established concentration ranges.

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

F RPD exceeded lab control limits.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640,

Project ID:

Lab Batch #: 867103 **Sample:** 425640-001 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/23/11 20:50

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.95	5.00	39	11-102	
Nitrobenzene-d5	1.58	5.00	32	10-109	
Terphenyl-D14	2.78	5.00	56	16-123	

Lab Batch #: 867103 **Sample:** 425640-002 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/23/11 21:08

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.16	5.00	43	11-102	
Nitrobenzene-d5	1.55	5.00	31	10-109	
Terphenyl-D14	3.07	5.00	61	16-123	

Lab Batch #: 867103 **Sample:** 425640-003 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/23/11 21:26

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.20	5.00	44	11-102	
Nitrobenzene-d5	1.39	5.00	28	10-109	
Terphenyl-D14	3.15	5.00	63	16-123	

Lab Batch #: 867103 **Sample:** 425640-004 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/23/11 21:44

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.66	5.00	53	11-102	
Nitrobenzene-d5	1.33	5.00	27	10-109	
Terphenyl-D14	3.92	5.00	78	16-123	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Pace Analytical

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640,

Project ID:

Lab Batch #: 867103 **Sample:** 425640-005 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/23/11 22:02

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.13	5.00	43	11-102	
Nitrobenzene-d5	1.27	5.00	25	10-109	
Terphenyl-D14	3.42	5.00	68	16-123	

Lab Batch #: 867081 **Sample:** 425640-001 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 08/24/11 13:50

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0714	0.102	70	82-142	J
Pentatriacontane	0.173	0.204	85	10-152	

Lab Batch #: 867081 **Sample:** 425640-002 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 08/24/11 14:26

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0700	0.100	70	82-142	J
Pentatriacontane	0.150	0.200	75	10-152	

Lab Batch #: 867081 **Sample:** 425640-003 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 08/24/11 15:01

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0700	0.100	70	82-142	J
Pentatriacontane	0.160	0.200	80	10-152	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640, **Project ID:**

Lab Batch #: 867081 **Sample:** 425640-004 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 08/24/11 16:13

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0800	0.100	80	82-142	J
Pentatriacontane	0.180	0.200	90	10-152	

Lab Batch #: 867081 **Sample:** 425640-005 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: mg/L **Date Analyzed:** 08/24/11 16:48

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0700	0.100	70	82-142	J
Pentatriacontane	0.170	0.200	85	10-152	

Lab Batch #: 867103 **Sample:** 425640-001 / DL **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/25/11 10:32

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.02	5.00	40	11-102	
Nitrobenzene-d5	2.14	5.00	43	10-109	
Terphenyl-D14	2.94	5.00	59	16-123	

Lab Batch #: 867103 **Sample:** 425640-002 / DL **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/25/11 10:49

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.90	5.00	38	11-102	
Nitrobenzene-d5	1.76	5.00	35	10-109	
Terphenyl-D14	2.86	5.00	57	16-123	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640,

Project ID:

Lab Batch #: 867103 **Sample:** 425640-003 / DL **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/25/11 11:07

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.60	5.00	52	11-102	
Nitrobenzene-d5	2.30	5.00	46	10-109	
Terphenyl-D14	4.70	5.00	94	16-123	

Lab Batch #: 867103 **Sample:** 425640-004 / DL **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/25/11 11:25

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.60	5.00	52	11-102	
Nitrobenzene-d5	2.65	5.00	53	10-109	
Terphenyl-D14	3.95	5.00	79	16-123	

Lab Batch #: 867103 **Sample:** 425640-005 / DL **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/25/11 11:42

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	1.97	5.00	39	11-102	
Nitrobenzene-d5	1.55	5.00	31	10-109	
Terphenyl-D14	3.16	5.00	63	16-123	

Lab Batch #: 868247 **Sample:** 425640-001 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/28/11 15:24

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	100	100	100	80-120	
4-Bromofluorobenzene	97	100	97	74-112	
Dibromofluoromethane	98	100	98	86-111	
Toluene-D8	110	100	110	88-116	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640,

Project ID:

Lab Batch #: 868247 **Sample:** 425640-002 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/28/11 15:48

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	96	100	96	80-120	
4-Bromofluorobenzene	98	100	98	74-112	
Dibromofluoromethane	96	100	96	86-111	
Toluene-D8	100	100	100	88-116	

Lab Batch #: 868247 **Sample:** 425640-003 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/28/11 16:12

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	94	100	94	80-120	
4-Bromofluorobenzene	100	100	100	74-112	
Dibromofluoromethane	96	100	96	86-111	
Toluene-D8	110	100	110	88-116	

Lab Batch #: 868247 **Sample:** 425640-004 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/28/11 16:36

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	95	100	95	80-120	
4-Bromofluorobenzene	96	100	96	74-112	
Dibromofluoromethane	92	100	92	86-111	
Toluene-D8	100	100	100	88-116	

Lab Batch #: 868247 **Sample:** 425640-005 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/28/11 16:59

BTEX by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	92	100	92	80-120	
4-Bromofluorobenzene	100	100	100	74-112	
Dibromofluoromethane	98	100	98	86-111	
Toluene-D8	110	100	110	88-116	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Pace Analytical

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640, **Project ID:**

Lab Batch #: 868248 **Sample:** 425640-006 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 08/29/11 11:08

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	98	100	98	80-120	
4-Bromofluorobenzene	98	100	98	74-112	
Dibromofluoromethane	100	100	100	86-111	
Toluene-D8	100	100	100	88-116	

Lab Batch #: 867763 **Sample:** 425640-001 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 09/04/11 04:55

EDB / DBCP by SW-846 8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	U	U		70-130	

Lab Batch #: 867763 **Sample:** 425640-002 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 09/04/11 04:55

EDB / DBCP by SW-846 8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	U	U		70-130	

Lab Batch #: 867763 **Sample:** 425640-006 / SMP **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 09/04/11 04:55

EDB / DBCP by SW-846 8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	U	U		70-130	

Lab Batch #: 867081 **Sample:** 609688-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 08/23/11 09:48

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0700	0.100	70	82-142	J
Pentatriacontane	0.160	0.200	80	10-152	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640,

Project ID:

Lab Batch #: 867103 **Sample:** 609708-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/23/11 14:01

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.11	5.00	42	11-102	
Nitrobenzene-d5	2.22	5.00	44	10-109	
Terphenyl-D14	3.04	5.00	61	16-123	

Lab Batch #: 868247 **Sample:** 868247-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/28/11 13:50

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	110	100	110	80-120	
4-Bromofluorobenzene	100	100	100	74-112	
Dibromofluoromethane	97	100	97	86-111	
Toluene-D8	100	100	100	88-116	

Lab Batch #: 868248 **Sample:** 868248-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/29/11 10:45

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	U	U		80-120	
4-Bromofluorobenzene	97	100	97	74-112	
Dibromofluoromethane	100	100	100	86-111	
Toluene-D8	100	100	100	88-116	

Lab Batch #: 867763 **Sample:** 610191-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 09/04/11 04:55

EDB / DBCP by SW-846 8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	U	U		70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640,

Project ID:

Lab Batch #: 867081 **Sample:** 609688-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 08/23/11 10:24

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0800	0.100	80	82-142	J
Pentatriacontane	0.190	0.200	95	10-152	

Lab Batch #: 867103 **Sample:** 609708-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/23/11 14:19

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.23	5.00	45	11-102	
Nitrobenzene-d5	2.35	5.00	47	10-109	
Terphenyl-D14	3.54	5.00	71	16-123	

Lab Batch #: 868247 **Sample:** 868247-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/28/11 12:39

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	100	100	100	80-120	
4-Bromofluorobenzene	100	100	100	74-112	
Dibromofluoromethane	100	100	100	86-111	
Toluene-D8	100	100	100	88-116	

Lab Batch #: 868248 **Sample:** 868248-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/29/11 10:45

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	96	100	96	80-120	
4-Bromofluorobenzene	100	100	100	74-112	
Dibromofluoromethane	99	100	99	86-111	
Toluene-D8	100	100	100	88-116	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640, **Project ID:**

Lab Batch #: 867763 **Sample:** 610191-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 09/04/11 04:55

EDB / DBCP by SW-846 8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	<	<0.000000100		70-130	

Lab Batch #: 867081 **Sample:** 609688-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 08/23/11 10:59

TPH by FLPRO Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl	0.0900	0.100	90	82-142	
Pentatriacontane	0.180	0.200	90	10-152	

Lab Batch #: 867103 **Sample:** 609708-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/23/11 14:36

PAHs by SW846 8270C Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
2-Fluorobiphenyl	2.57	5.00	51	11-102	
Nitrobenzene-d5	2.83	5.00	57	10-109	
Terphenyl-D14	3.62	5.00	72	16-123	

Lab Batch #: 868247 **Sample:** 868247-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/28/11 13:20

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	100	100	100	80-120	
4-Bromofluorobenzene	100	100	100	74-112	
Dibromofluoromethane	99	100	99	86-111	
Toluene-D8	100	100	100	88-116	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Moped Hospital

Work Orders : 425640,

Project ID:

Lab Batch #: 868248 **Sample:** 868248-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 08/29/11 10:45

VOA PP List by SW-846 8260BPP Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-D4	96	100	96	80-120	
4-Bromofluorobenzene	97	100	97	74-112	
Dibromofluoromethane	100	100	100	86-111	
Toluene-D8	100	100	100	88-116	

Lab Batch #: 867763 **Sample:** 425640-001 S / MS **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 09/04/11 04:55

EDB / DBCP by SW-846 8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	<	<0.000000100		70-130	

Lab Batch #: 867763 **Sample:** 425640-001 SD / MSD **Batch:** 1 **Matrix:** Ground Water

Units: ug/L **Date Analyzed:** 09/04/11 04:55

EDB / DBCP by SW-846 8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	<	<0.000000100		70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Pace Analytical

Blank Summary 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **609688-1-BLK** Matrix: **WATER**
Lab Sample Id: **609688-1-BLK**

Analytical Method: TPH by FLPRO Prep Method: SW3510C

Date Analyzed: Aug-23-11 09:48 Analyst: JEZ Date Prep: Aug-22-11 11:00 Tech: HEE
Seq Number: 867081

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
FL-PRO	FL-PRO	U	0.680	0.150	mg/L	U	1

Project: Florida Standard List of Methods

Version: 1.009

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **609708-1-BLK** Matrix: **WATER**
Lab Sample Id: **609708-1-BLK**

Analytical Method: PAHs by SW846 8270C Prep Method: SW3510C

Date Analyzed: Aug-23-11 14:01 Analyst: BAT Date Prep: Aug-23-11 08:00 Tech: HEA
Seq Number: 867103

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1-Methylnaphthalene +	90-12-0	U	1.00	0.0261	ug/L	U	1
2-Methylnaphthalene	91-57-6	U	1.00	0.0302	ug/L	U	1
Acenaphthene	83-32-9	U	1.00	0.0270	ug/L	U	1
Acenaphthylene	208-96-8	U	1.00	0.0264	ug/L	U	1
Anthracene	120-12-7	U	1.00	0.00560	ug/L	U	1
Benzo(a)anthracene	56-55-3	U	0.100	0.0113	ug/L	U	1
Benzo(a)pyrene	50-32-8	U	0.100	0.0133	ug/L	U	1
Benzo(b)fluoranthene	205-99-2	U	0.100	0.0154	ug/L	U	1
Benzo(g,h,i)perylene	191-24-2	U	0.100	0.0142	ug/L	U	1
Benzo(k)fluoranthene	207-08-9	U	0.100	0.0116	ug/L	U	1
Chrysene	218-01-9	U	0.100	0.0165	ug/L	U	1
Dibenz(a,h)anthracene	53-70-3	U	0.200	0.00560	ug/L	U	1
Fluoranthene	206-44-0	U	1.00	0.00780	ug/L	U	1
Fluorene	86-73-7	U	1.00	0.0112	ug/L	U	1
Indeno(1,2,3-c,d)Pyrene	193-39-5	U	0.100	0.0107	ug/L	U	1
Naphthalene	91-20-3	U	1.00	0.0344	ug/L	U	1
Phenanthrene	85-01-8	U	1.00	0.0136	ug/L	U	1
Pyrene	129-00-0	U	0.100	0.00840	ug/L	U	1

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **609891-1-BLK** Matrix: **WATER**
Lab Sample Id: **609891-1-BLK**

Analytical Method: ICP Metals by SW846 6010B Prep Method: SW3010A

Date Analyzed: Aug-26-11 03:08 Analyst: IST Date Prep: Aug-26-11 10:12 Tech: IST
Seq Number: 867298 SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Lead	7439-92-1	U	10.0	5.00	ug/L	U	1

Project: Florida Standard List of Methods

Version: 1.009

Pace Analytical

Blank Summary 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **610191-1-BLK** Matrix: **WATER**
Lab Sample Id: **610191-1-BLK**

Analytical Method: EDB / DBCP by SW-846 8011 Prep Method: EXT_8011

Date Analyzed: Sep-04-11 04:55 Analyst: BRL Date Prep: Aug-29-11 00:00 Tech: BRL
Seq Number: 867763 SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.010	0.0063	ug/L	U	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	).0000327	0.0000101	ug/L	U	1

Project: Florida Standard List of Methods

Version: 1.009

Pace Analytical

Blank Summary 425640

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **868247-1-BLK** Matrix: **WATER**
Lab Sample Id: **868247-1-BLK**

Analytical Method: VOA PP List by SW-846 8260BPP Prep Method:

Date Analyzed: Aug-28-11 13:50 Analyst: SUB Date Prep: Tech: SUB
Seq Number: 868247 SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.500	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.120	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.500	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.500	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.500	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.500	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.500	ug/L	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.500	ug/L	U	1
Acrolein	107-02-8	U	20.0	10.0	ug/L	U	1
Acrylonitrile	107-13-1	U	10.0	5.00	ug/L	U	1
Benzene	71-43-2	U	1.00	0.500	ug/L	U	1
Bromodichloromethane	75-27-4	U	0.600	0.270	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.500	ug/L	U	1
Methyl bromide	74-83-9	U	1.00	0.500	ug/L	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.500	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.500	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.500	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.500	ug/L	U	1
Methyl Chloride	74-87-3	U	1.00	0.620	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.500	0.250	ug/L	U	1
Dibromochloromethane	124-48-1	U	0.500	0.260	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.500	ug/L	U	1
Methylene Chloride	75-09-2	U	5.00	2.50	ug/L	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.500	ug/L	U	1
Toluene	108-88-3	U	1.00	0.500	ug/L	U	1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.500	ug/L	U	1
trans-1,3-dichloropropene	10061-02-6	U	0.500	0.250	ug/L	U	1
Trichloroethylene	79-01-6	U	1.00	0.500	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.500	ug/L	U	1
Vinyl Chloride	75-01-4	U	1.00	0.500	ug/L	U	1

Project: Florida Standard List of Methods

Version: 1.009

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Sample Id: **868248-1-BLK** Matrix: **WATER**
Lab Sample Id: **868248-1-BLK**

Analytical Method: VOA PP List by SW-846 8260BPP Prep Method:

Date Analyzed: Aug-29-11 10:45 Analyst: SUB Date Prep: Tech: SUB
Seq Number: 868248 SUB: E83079

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
1,1,1-Trichloroethane	71-55-6	U	1.00	0.500	ug/L	U	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.500	0.120	ug/L	U	1
1,1,2-Trichloroethane	79-00-5	U	1.00	0.500	ug/L	U	1
1,1-Dichloroethane	75-34-3	U	1.00	0.500	ug/L	U	1
1,1-Dichloroethene	75-35-4	U	1.00	0.500	ug/L	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.500	ug/L	U	1
1,2-Dichloropropane	78-87-5	U	1.00	0.500	ug/L	U	1
2-Chloroethyl Vinyl Ether	110-75-8	U	1.00	0.500	ug/L	U	1
Acrolein	107-02-8	U	20.0	10.0	ug/L	U	1
Acrylonitrile	107-13-1	U	10.0	5.00	ug/L	U	1
Benzene	71-43-2	U	1.00	0.500	ug/L	U	1
Bromodichloromethane	75-27-4	U	0.600	0.270	ug/L	U	1
Bromoform	75-25-2	U	1.00	0.500	ug/L	U	1
Methyl bromide	74-83-9	U	1.00	0.500	ug/L	U	1
Carbon Tetrachloride	56-23-5	U	1.00	0.500	ug/L	U	1
Chlorobenzene	108-90-7	U	1.00	0.500	ug/L	U	1
Chloroethane	75-00-3	U	1.00	0.500	ug/L	U	1
Chloroform	67-66-3	U	1.00	0.500	ug/L	U	1
Methyl Chloride	74-87-3	U	1.00	0.620	ug/L	U	1
cis-1,3-Dichloropropene	10061-01-5	U	0.500	0.250	ug/L	U	1
Dibromochloromethane	124-48-1	U	0.500	0.260	ug/L	U	1
Ethylbenzene	100-41-4	U	1.00	0.500	ug/L	U	1
Methylene Chloride	75-09-2	U	5.00	2.50	ug/L	U	1
Tetrachloroethylene	127-18-4	U	1.00	0.500	ug/L	U	1
Toluene	108-88-3	U	1.00	0.500	ug/L	U	1
trans-1,2-dichloroethylene	156-60-5	U	1.00	0.500	ug/L	U	1
trans-1,3-dichloropropene	10061-02-6	U	0.500	0.250	ug/L	U	1
Trichloroethylene	79-01-6	U	1.00	0.500	ug/L	U	1
Trichlorofluoromethane	75-69-4	U	1.00	0.500	ug/L	U	1
Vinyl Chloride	75-01-4	U	1.00	0.500	ug/L	U	1

Project: Florida Standard List of Methods

Version: 1.009

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Analytical Method: EDB / DBCP by SW-846 8011 — Prep Method: EXT_8011
Seq Number: 867763 — Matrix: Water — Date Prep: 08/29/2011
MB Sample Id: 610191-1-BLK — LCS Sample Id: 610191-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.0000121	0.00082	0.000947	116	70-130	ug/L	09/04/11 04:55	

Analytical Method: EDB / DBCP by SW-846 8011 — Prep Method: EXT_8011
Seq Number: 867763 — Matrix: Ground Water — Date Prep: 08/29/2011
Parent Sample Id: 425640-001 — MS Sample Id: 425640-001 S — MSD Sample Id: 425640-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.0000121	0.00144	0.00163	113	0.00157	109	70-130	4	20	ug/L	09/04/11 04:55	

Analytical Method: ICP Metals by SW846 6010B — Prep Method: SW3010A
Seq Number: 867298 — Matrix: Water — Date Prep: 08/26/2011
MB Sample Id: 609891-1-BLK — LCS Sample Id: 609891-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Lead	<5.00	250	237	95	80-120	ug/L	08/26/11 03:12	

Analytical Method: ICP Metals by SW846 6010B — Prep Method: SW3010A
Seq Number: 867298 — Matrix: Ground Water — Date Prep: 08/26/2011
Parent Sample Id: 425629-001 — MS Sample Id: 425629-001 S — MSD Sample Id: 425629-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Lead	<5.00	250	251	100	249	100	75-125	1	20	ug/L	08/26/11 03:20	

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Analytical Method: PAHs by SW846 8270C — Prep Method: SW3510C
Seq Number: 867103 — Matrix: Water — Date Prep: 08/23/2011
MB Sample Id: 609708-1-BLK — LCS Sample Id: 609708-1-BKS — LCSD Sample Id: 609708-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1-Methylnaphthalene	<0.0261	5	2.20	44	2.62	52	10-107	17	20	ug/L	08/23/11 14:19	
2-Methylnaphthalene	<0.0302	5	2.13	43	2.57	51	10-117	19	20	ug/L	08/23/11 14:19	
Acenaphthene	<0.0270	5	2.39	48	2.73	55	10-114	13	20	ug/L	08/23/11 14:19	
Acenaphthylene	<0.0264	5	2.56	51	2.95	59	10-120	14	20	ug/L	08/23/11 14:19	
Anthracene	<0.00560	5	2.71	54	2.98	60	10-122	9	20	ug/L	08/23/11 14:19	
Benzo(a)anthracene	<0.0113	5	3.21	64	3.29	66	21-124	2	20	ug/L	08/23/11 14:19	
Benzo(a)pyrene	<0.0133	5	3.17	63	3.16	63	17-121	0	20	ug/L	08/23/11 14:19	
Benzo(b)fluoranthene	<0.0154	5	3.56	71	3.43	69	16-129	4	20	ug/L	08/23/11 14:19	
Benzo(g,h,i)perylene	<0.0142	5	3.22	64	3.29	66	12-109	2	20	ug/L	08/23/11 14:19	
Benzo(k)fluoranthene	<0.0116	5	2.68	54	2.83	57	10-124	5	20	ug/L	08/23/11 14:19	
Chrysene	<0.0165	5	3.29	66	3.30	66	20-134	0	20	ug/L	08/23/11 14:19	
Dibenz(a,h)anthracene	<0.00560	5	2.88	58	2.96	59	10-110	3	20	ug/L	08/23/11 14:19	
Fluoranthene	<0.00780	5	3.17	63	3.36	67	10-136	6	20	ug/L	08/23/11 14:19	
Fluorene	<0.0112	5	2.67	53	2.95	59	10-119	10	20	ug/L	08/23/11 14:19	
Indeno(1,2,3-c,d)Pyrene	<0.0107	5	2.99	60	3.00	60	10-115	0	20	ug/L	08/23/11 14:19	
Naphthalene	<0.0344	5	2.12	42	2.55	51	10-121	18	20	ug/L	08/23/11 14:19	
Phenanthrene	<0.0136	5	2.81	56	3.10	62	10-128	10	20	ug/L	08/23/11 14:19	
Pyrene	<0.00840	5	3.07	61	3.09	62	15-123	1	20	ug/L	08/23/11 14:19	

Analytical Method: TPH by FLPRO — Prep Method: SW3510C
Seq Number: 867081 — Matrix: Water — Date Prep: 08/22/2011
MB Sample Id: 609688-1-BLK — LCS Sample Id: 609688-1-BKS — LCSD Sample Id: 609688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
FL-PRO	<0.150	1.7	1.92	113	1.89	111	55-118	2	20	mg/L	08/23/11 10:24	

Analytical Method: VOA PP List by SW-846 8260BPP
Seq Number: 868247 — Matrix: Water
MB Sample Id: 868247-1-BLK — LCS Sample Id: 868247-1-BKS — LCSD Sample Id: 868247-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.500	20	21.1	106	19.8	99	74-144	6	20	ug/L	08/28/11 12:39	
Benzene	<0.500	20	21.4	107	20.9	105	78-121	2	20	ug/L	08/28/11 12:39	
Chlorobenzene	<0.500	20	20.8	104	20.4	102	80-120	2	20	ug/L	08/28/11 12:39	
Ethylbenzene	<0.500	20	21.2	106	20.9	105	78-120	1	20	ug/L	08/28/11 12:39	
Toluene	<0.500	20	22.9	115	22.2	111	75-114	3	20	ug/L	08/28/11 12:39	
Trichloroethylene	<0.500	20	21.0	105	20.1	101	80-125	4	20	ug/L	08/28/11 12:39	

Handex of Delray Beach, Delray Beach, FL

Moped Hospital

Analytical Method: VOA PP List by SW-846 8260BPP

Seq Number: 868248 Matrix: Water

MB Sample Id: 868248-1-BLK LCS Sample Id: 868248-1-BKS LCSD Sample Id: 868248-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1-Dichloroethene	<0.500	20	18.3	92	18.1	91	74-144	1	20	ug/L	08/29/11 10:45	
Benzene	<0.500	20	19.3	97	19.4	97	78-121	1	20	ug/L	08/29/11 10:45	
Chlorobenzene	<0.500	20	19.5	98	19.9	100	80-120	2	20	ug/L	08/29/11 10:45	
Ethylbenzene	<0.500	20	19.9	100	20.1	101	78-120	1	20	ug/L	08/29/11 10:45	
Toluene	<0.500	20	20.4	102	20.6	103	75-114	1	20	ug/L	08/29/11 10:45	
Trichloroethylene	<0.500	20	19.0	95	19.1	96	80-125	1	20	ug/L	08/29/11 10:45	

425640

COC / Workorder#

Handex 6 Digit Location Code / Site ID: 128090

Chain of Custody Record

Page: 1 of: 1

Company:	HANDEX CONSULTING & REMEDIATION
Address:	430 S. Congress Ave, Delray Beach, FL 33445
Phone:	561 243-9551 Fax: 561 243-8707
Sampled by [Print Name(s)]/Affiliation	
Sampler(s) Signature(s)	

Laboratory: Pace Analytical
Address:
Contact: Terrence Anderson
Regulatory Facility No.
Project Name: Moped Hospital
Sampling QAP No.:
Approval Date:
TAT: STANDARD
Other:

Preservatives (see codes): H | | S | H | H | N | N

Analyses Requested

Item No.	Field ID No.	Sampled Date	Sampled Time	Col. Method (see codes)	Matrix (see codes)	Number of Containers	Table B Parameters	BTEX/MTBE by 8260B	PAHs by 8270C	TRPH BY-FL-PRO	Remarks	Lab. No.
1	MW-1	8/19/11	9:36	G	GW	3	X					
2	MW-2	8/19/11	10:51	G	GW	3	X					
3	MW-3	8/19/11	11:38	G	GW	4		X	X	X		
4	MW-4	8/19/11	12:34	G	GW	4		X	X	X		
5	MW-A	8/19/11	1:30	G	GW	4		X	X	X		

26 ← Total Number of Containers

Shipping Details
Date Out: Via:
Returned: Via:
Additional Comments:
Bill at preapproval rates. Email results to jmichel@handexmail.com and pcook@handexmail.com

Item No.	Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
		8/22/11	8:30	MW Pace	8/22/11	1705
	MW Pace	8-22-11	1745	Pace	8/22/11	1745

Case Mgr: Julio Michel
Client: FDEP
Handex #: Client #
Address:
Handex / Client Bill to #:
Cash / Reimbursement:

Lab Comments
Seal #
Preserve Where Applicable
On ICE
Temperature 8.3 C

NJ Reduced
NJ Full
Full CLP
Disk Deliverable
Other (Specify)

NJ Data Deliverable Info
Commercial "A"
Commercial "B"
State Forms

MATRIX CODES: A = Air; GW = Groundwater; SE = Sediment; SP = Soil; SW = Surface Water; W = Water (Blanks); O = Other
PRESERVATIVE CODES: H = HCL + Ice; I = Ice Only; N = Nitric Acid + Ice; P= Phosphoric Acid; S = Sulfuric Acid + Ice; M = Methanol; O = Other
COLLECTION METHOD CODES: C = Composite; G=Grab; P= Pumping; O = Other

Sample Condition Upon Receipt Form (SCUR)

Table Number:_____

Pace Analytical

Client Name: HCR Project # 429640

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other_____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used TH Type of Ice: Wet Blue None

Cooler Temperature °C 8.3 (Visual) +0.5 (Correction Factor) 8.8 (Actual)

Date and Initials of person examining contents: TH 8/22/11

(Temp should be above freezing to 0°-6°C). If below 0°C, then was sample frozen?

☐ Yes ☐ No

Receipt of samples satisfactory: ☑ Yes ☐ No

Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted:_____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date:_____

Finished Product Information Only

F.P. Sample ID:_____

Production Code:_____

Date/Time Opened:_____

Number of Unopened Bottles Remaining:_____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other:_____

APPENDIX E

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-1	Hopeq Hospital	44/8841237	8.16.11

Well Location and Type (check appropriate boxes):
☒ On-Site ☐ Right-of-Way
☐ Off-Site Private Property
☐ Above Grade (AG) ☐ Flush-to-Grade
If AG, list feet of riser above land surface:

Well Purpose:
☐ Perched Monitoring
☒ Shallow (Water-Table) Monitoring
☐ Intermediate or Deep Monitoring
☐ Remediation or Other (describe)

Well Install Method: Solid Stem Auger/ DPT casing

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'	12.30'	4"	8"	____ feet by ____ feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2", 40 PVC sch	☒ Flush-Threaded ☐ Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2", 40 PVC sch	0.010"	10 feet from 2 feet to 12 feet

	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
1st Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary		____ feet from 0 feet to ____ feet

	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
2nd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary		____ feet from 0 feet to ____ feet

	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
3rd Surface Casing Material: NA also check: ☐ Permanent ☐ Temporary		____ feet from 0 feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica sand	☐ Yes ☒ No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 fine sand seal	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
grout, concrete, manhole	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8.17.11	☐ Surge/Pump ☒ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☒ Peristaltic ☐ Submersible ☐ Other (describe)	5.60'

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
	NA	☐ Yes ☐ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☐ Continuous ☐ Intermittent			☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

See Marvelle Pittman's notes for well development data

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-2	Moped Hospital	448841237	8.16.11

Well Location and Type (check appropriate boxes):
- [X] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [X] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [X] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: solid stem auger w/ DPT casing

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'	12.10'	4"	8"	____ feet by ____ feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2", 40 sch PVC	[X] Flush-Threaded [ ] Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2", 40 sch PVC	0.010"	10 feet from 2 feet to 12 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary		____ feet from 0 feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary		____ feet from 0 feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
NA also check: [ ] Permanent [ ] Temporary		____ feet from 0 feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
	[ ] Yes [X] No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
20/30 silica sand	0.5 feet from 0.5 feet to 1. feet

Surface Seal Material:	Surface Seal: manhole, concrete	Surface Seal Length:
30/65 fine sand seal		0.5 feet from 0. feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):	
8.17.11	[ ] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)	

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[ ] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	≈ 5.55

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
		[ ] Yes [ ] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[ ] Continuous [ ] Intermittent			[ ] Yes [ ] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

see Marvelle Pittman's notes for well development data

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-3	Mapes Hospital	4488 91232	8.16.11

Well Location and Type (check appropriate boxes):
- [X] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [X] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [X] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: solid stem auger w/ DPT casing

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'	12.30'	4"	8"	____ feet by ____ feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2", 40 sch PVC	[X] Flush-Threaded [ ] Other (describe)	2 feet; from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2", 40 sch PVC	0.010"	10 feet; from 2 feet to 12 feet

1st Surface Casing Material:	1st Surface Casing I.D. (inches):	1st Surface Casing Length:
NA; also check: [ ] Permanent [ ] Temporary		____ feet; from 0 feet to ____ feet

2nd Surface Casing Material:	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length:
NA; also check: [ ] Permanent [ ] Temporary		____ feet; from 0 feet to ____ feet

3rd Surface Casing Material:	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length:
NA; also check: [ ] Permanent [ ] Temporary		____ feet; from 0 feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica sand	[ ] Yes [X] No	11 feet; from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 fine sand seal	0.5 feet; from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
grout, manhole, concrete	0.5 feet; from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8.17.11	[ ] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[ ] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
		[ ] Yes [ ] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[ ] Continuous [ ] Intermittent			[ ] Yes [ ] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

see Marvelle Pittman's notes for well development data

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-4	Moped Hospital	448841232	8/17/11

Well Location and Type (check appropriate boxes):
- [X] On-Site
- [ ] Right-of-Way
- [ ] Off-Site Private Property
- [ ] Above Grade (AG)
- [X] Flush-to-Grade

If AG, list feet of riser above land surface:

Well Purpose:
- [ ] Perched Monitoring
- [X] Shallow (Water-Table) Monitoring
- [ ] Intermediate or Deep Monitoring
- [ ] Remediation or Other (describe)

Well Install Method: solid stem auger w/ DPT casing

Surface Casing Install Method: NA

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
12'		4"	8"	____ feet by ____ feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
2", 40 sch PVC	[X] Flush-Threaded [ ] Other (describe)	2 feet from 0 feet to 2 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2", 40 sch PVC	0.010"	10 feet from 2 feet to 12 feet

1st Surface Casing Material: N/A also check: [ ] Permanent [ ] Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: N/A also check: [ ] Permanent [ ] Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: N/A also check: [ ] Permanent [ ] Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
20/30 Silica sand	[ ] Yes [X] No	11 feet from 1 feet to 12 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
30/65 fine sand seal	0.5 feet from 0.5 feet to 1 feet

Surface Seal Material:	Surface Seal Length:
concrete, manhole	0.5 feet from 0 feet to 0.5 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
8-17-11	[ ] Surge/Pump [ ] Pump [ ] Compressed Air [ ] Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
[ ] Centrifugal [ ] Peristaltic [ ] Submersible [ ] Other (describe)	

Pumping Rate (gallons per minute):	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one):
	—	[ ] Yes [ ] No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
[ ] Continuous [ ] Intermittent			[ ] Yes [X] No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

see Marvelle Pittman's notes for well development data

APPENDIX F

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Moped Hospital	SITE LOCATION:	601 Truman Avenue, Key West FL
WELL NO:	MW-1	SAMPLE ID: MW-1	DATE: 8/19/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.55	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 Well Volume = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (12.0 feet - 5.55 feet) X .16 gallons/foot = 1.0 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 9:00	PURGING ENDED AT: 9:12	TOTAL VOLUME PURGED (gallons): 2.0 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/l or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:06	0	1.0	.16	5.59	6.84	27.82	1.267	1.69	10.7	slow colorless	slightly
9:09	.50	1.5	.16	11	6.92	27.77	1.245	1.47	9.87	11	11
9:12	.50	2.0	.16	11	6.80	27.75	1.245	1.26	9.51	11	11

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY(Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Marcella Hall (HCK)	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 9:12	SAMPLING ENDED AT: 9:36 AM
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND / OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1	2	CG	40	HCL	80		BTEX/MTBE + VOHs by 8260B	RFPP	26.6
MW-1	2	CG	40	HCL	80		EDB by 8011	RFPP	26.6
MW-1	1	AG	1000	None	1000		PAHs by 8270C	APP	125.
MW-1	1	AG	1000	H2SO4	1000		TRPH by FL-PRO	APP	125.
MW-1	1	PE	250	HNO3	250		Lead by 6010B	APP	50.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethlene; PP = Polypropelene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature ± 0.2 °C Specific Conductance ± 5% Dissolved Oxygen all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Moped Hospital	SITE LOCATION:	601 Truman Avenue, Key West FL
WELL NO:	MW-2	SAMPLE ID:	MW-2
DATE:	8/19/11		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	feet to feet	STATIC DEPTH TO WATER (feet):	5.76	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 Well Volume = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (11.80 feet - 5.70 feet) X .16 gallons/foot = .97 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	7	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	7	PURGING INITIATED AT:	10:15	PURGING ENDED AT:	10:27	TOTAL VOLUME PURGED (gallons):	2.0 G

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:21	0	1.0	.16	5.76	6.98	30.02	905	1.49	23.0	clear	slight odor
10:24	.50	1.5	.16	"	6.95	29.95	904	1.32	19.6	clear	"
10:27	.50	2.0	.16	"	6.95	29.92	904	1.16	18.4	"	"
											"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 6.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Marielle Bath (HCL)	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	10:27	SAMPLING ENDED AT:	10:51
PUMP OR TUBING DEPTH IN WELL (feet):	7	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE:	µm
FIELD DECONTAMINATION:	PUMP Y (N)	TUBING Y (N) (replaced)		DUPLICATE:	Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND / OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-2	2	CG	40	HCL	80		BTEX/MTBE + VOHs by 8260B	RFPP	26.6
MW-2	2	CG	40	HCL	80		EDB by 8011	RFPP	26.6
MW-2	1	AG	1000	None	1000		PAHs by 8270C	APP	125.
MW-2	1	AG	1000	H2SO4	1000		TRPH by FL-PRO	APP	125.
MW-2	1	PE	250	HNO3	250		Lead by 6010B	APP	50.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethlene; PP = Polypropiene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature ± 0.2 °C Specific Conductance ± 5% Dissolved Oxygen all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Moped Hospital	SITE LOCATION:	601 Truman Avenue, Key West FL
WELL NO:	MW-3	SAMPLE ID: MW-3	DATE: 8/18/11

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4		5.70	PP

WELL VOLUME PURGE: 1 Well Volume = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (12.10 feet - 5.70 feet) X .16 gallons/foot = .99 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7	7	11:06	11:18	2.0 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:12	0	1.0	.16	3.94	7.00	30.14	1.225	1.58	20.2	clear/cloudy	slight odor
11:15	.50	1.5	.16	"	6.96	30.06	1220	1.42	16.8	colorless	"
11:18	.50	2.0	.16	"	6.91	30.02	1220	1.24	15.1	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Manuelle Hill (HCA)		11:18	11:38

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: µm
7	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND / OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-3	2	CG	40	HCl	80		BTEX/MTBE by 8260B	RFPP	20-6
MW-3	1	AG	1000	None	1000		PAHs by 8270C	APP	125
MW-3	1	AG	1000	H2SO4	1000		TRPH by FL-PRO	APP	125

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethlene; PP = Polypropelene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature ± 0.2 °C Specific Conductance ± 5% Dissolved Oxygen all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Moped Hospital	SITE LOCATION:	601 Truman Avenue, Key West FL	
WELL NO:	MW-4	SAMPLE ID:	MW-4	DATE: 8/19/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.05	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 Well Volume = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (12.35 feet - 5.05 feet) X .16 gallons/foot = 1.16 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 12:00	PURGING ENDED AT: 12:14	TOTAL VOLUME PURGED (gallons): 2.25 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/l or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:09	.0	1.25	.15	5.10	7.11	30.71	919	1.70	21.9	slight cloudy white	Slight Odor
12:11	.50	1.75	.15	"	7.01	30.65	919	1.44	18.4	colorless	"
12:14	.50	2.25	.15	"	6.98	30.62	920	1.40	17.	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 12:14	SAMPLING ENDED AT: 12:34
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND / OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-4	2	CG	40	HCL	80		BTEX/MTBE by 8260B	RFPP	26.6
MW-4	1	AG	1000	None	1000		PAHs by 8270C	"	125.
MW-4	1	AG	1000	H2SO4	1000		TRPH by FL-PRO	"	125.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethlene; PP = Polypropiene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature ± 0.2 °C Specific Conductance ± 5% Dissolved Oxygen all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Moped Hospital	SITE LOCATION:	601 Truman Avenue, Key West FL
WELL NO:	MW-A	SAMPLE ID: MW-A	DATE: 3/19/11

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.46	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 Well Volume = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.20 feet - 5.46 feet) X .16 gallons/foot = 1.39 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6	PURGING INITIATED AT: 12:56	PURGING ENDED AT: 1:12	TOTAL VOLUME PURGED (gallons): 2.50 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1206	0	1.50	.15	5.81	7.30	30.76	501	1.66	10.2	clear	slight odor
1209	.50	2.0	.15	"	7.25	30.64	500	1.47	9.87	"	"
1212	.50	2.50	.15	"	7.20	30.63	500	1.31	9.32	"	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Marielle Allen	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1:12	SAMPLING ENDED AT: 1:32
PUMP OR TUBING DEPTH IN WELL (feet): 6	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND / OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-A	2	CG	40	HCL	80		BTEX/MTBE by 8260B	RFPP	26-6
MW-A	1	AG	1000	None	1000		PAHs by 8270C	RFPP	125.
MW-A	1	AG	1000	H2SO4	1000		TRPH by FL-PRO	RFPP	125.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethlene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

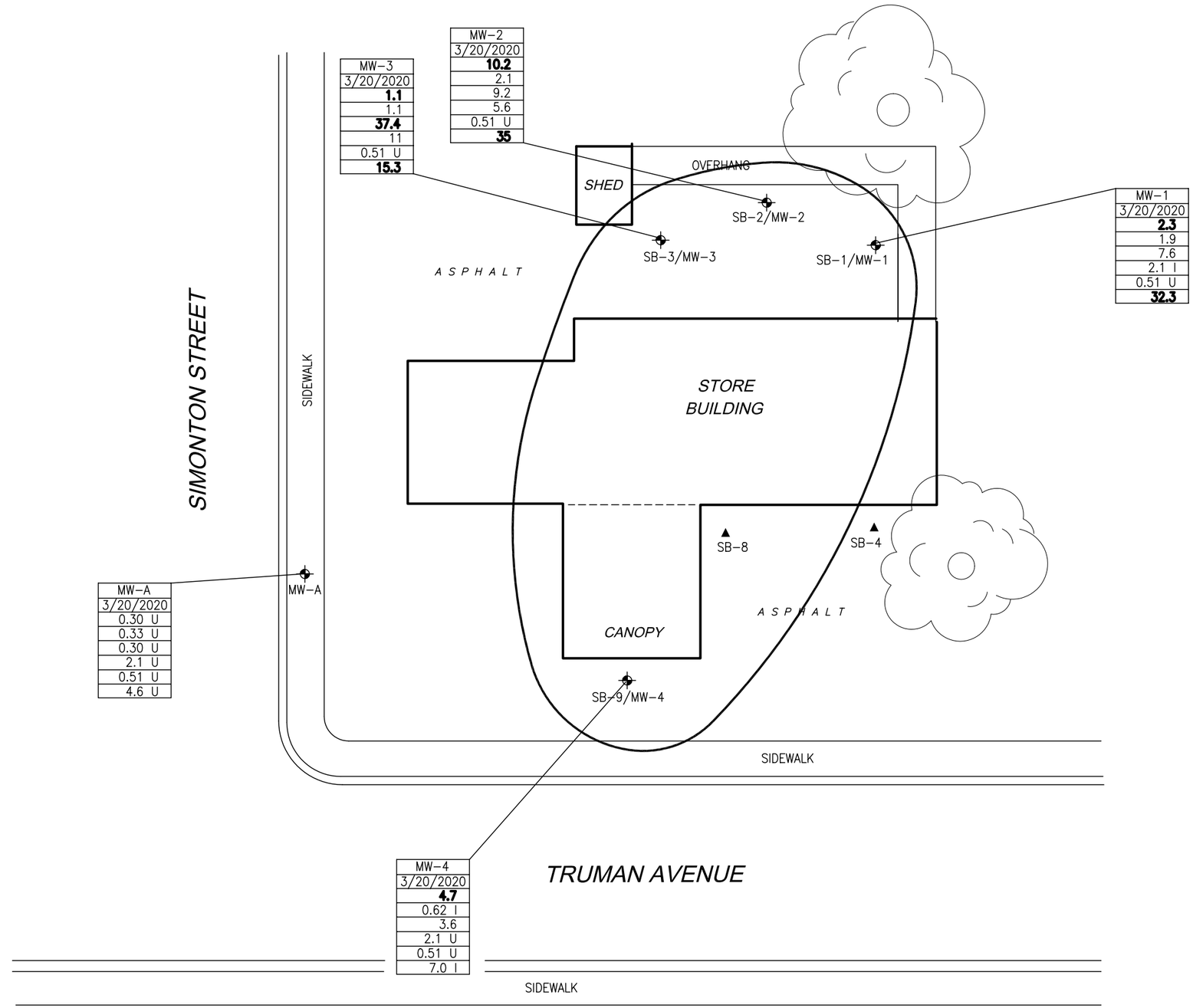
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature ± 0.2 °C Specific Conductance ± 5% Dissolved Oxygen all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

EXHIBIT B

GROUNDWATER ANALYTICAL MAPS



LEGEND

- MONITORING WELL
- SOIL BORING

SAMPLE ID / SAMPLE DATE	
0.30 U	Benzene
0.33 U	Toluene
0.30 U	Ethylbenzene
2.1 U	Xylene (Total)
2.1 U	Methyl-tert-butyl-ether
0.51 U	Lead

ESTIMATED EXTENT OF GROUNDWATER CLEANUP TARGET LEVEL EXCEEDANCE

ALL CONCENTRATIONS ARE REPORTED IN ug/L (parts per million)

I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U = The compound was analyzed for but not detected.

517 = Results in **BOLD** Exceed GCTL Limit

PREMIUM ENVIRONMENTAL CONSULTING, LLC

GRAPHIC SCALE IN FEET

20' 0 20' 40'

PREPARED FOR: MOPED HOSPITAL

SITE ADDRESS: 601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP F.I.D. # 44/8841232

NORTH

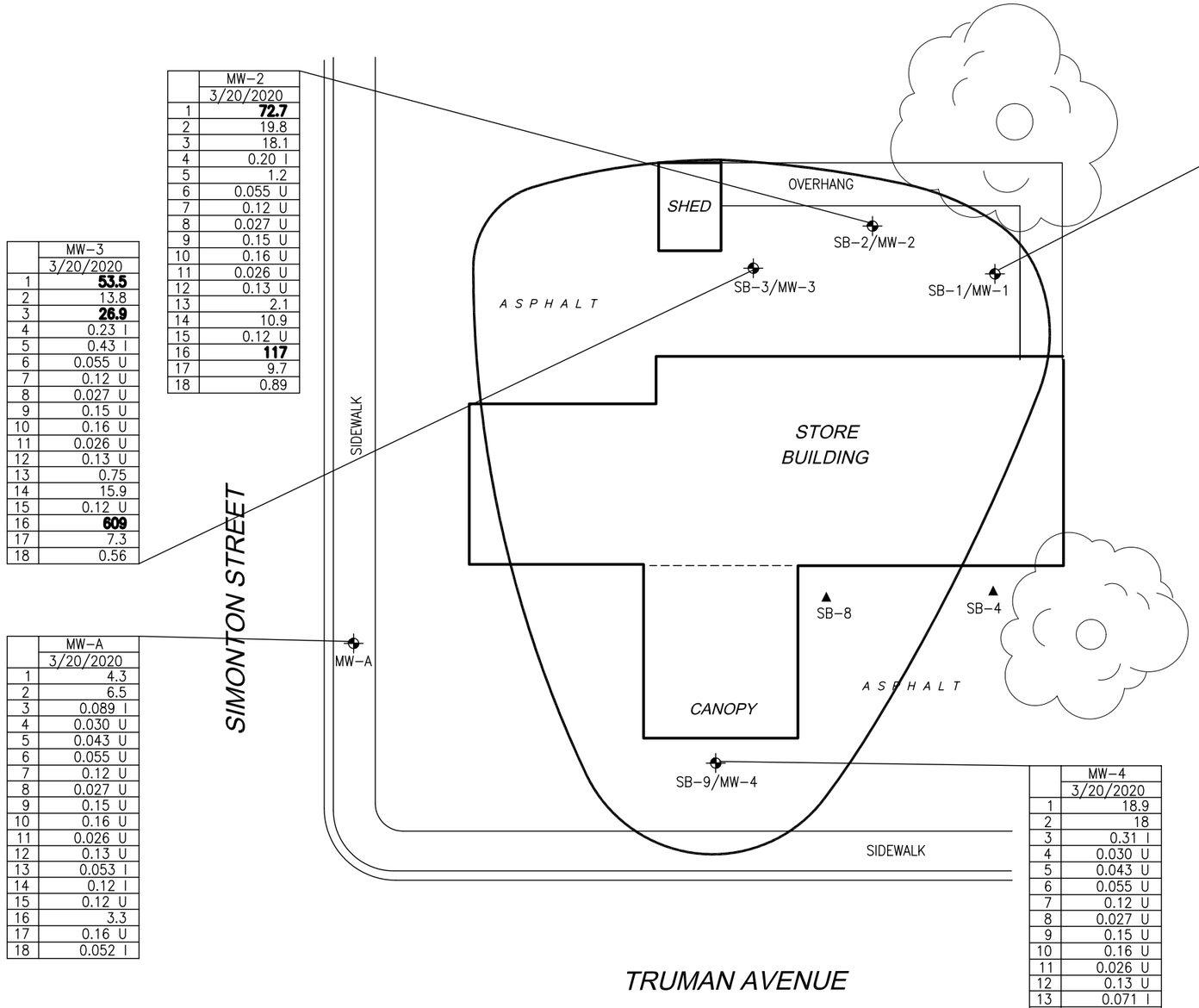
DRAWN BY: Vic Snyder

DATE DRAWN: 11/26/2021

JOB NUMBER: Moped Hospital

FIGURE NUMBER: 1

FIGURE TITLE: GROUNDWATER ANALYTICAL MAP (BTEX/MTBE/Lead)



	MW-2
	3/20/2020
1	**72.7**
2	19.8
3	18.1
4	0.20 I
5	1.2
6	0.055 U
7	0.12 U
8	0.027 U
9	0.15 U
10	0.16 U
11	0.026 U
12	0.13 U
13	2.1
14	10.9
15	0.12 U
16	**117**
17	9.7
18	0.89

	MW-3
	3/20/2020
1	**53.5**
2	13.8
3	**26.9**
4	0.23 I
5	0.43 I
6	0.055 U
7	0.12 U
8	0.027 U
9	0.15 U
10	0.16 U
11	0.026 U
12	0.13 U
13	0.75
14	15.9
15	0.12 U
16	**609**
17	7.3
18	0.56

	MW-1
	3/20/2020
1	24.6
2	0.68 U
3	4.1
4	0.030 U
5	0.043 U
6	0.055 U
7	0.12 U
8	0.027 U
9	0.15 U
10	0.16 U
11	0.026 U
12	0.13 U
13	0.21 I
14	2.8
15	0.12 U
16	**57.1**
17	1.2
18	0.17 I

	MW-A
	3/20/2020
1	4.3
2	6.5
3	0.089 I
4	0.030 U
5	0.043 U
6	0.055 U
7	0.12 U
8	0.027 U
9	0.15 U
10	0.16 U
11	0.026 U
12	0.13 U
13	0.053 I
14	0.12 I
15	0.12 U
16	3.3
17	0.16 U
18	0.052 I

	MW-4
	3/20/2020
1	18.9
2	18
3	0.31 I
4	0.030 U
5	0.043 U
6	0.055 U
7	0.12 U
8	0.027 U
9	0.15 U
10	0.16 U
11	0.026 U
12	0.13 U
13	0.071 I
14	0.28 I
15	0.12 U
16	**36.8**
17	0.27 I
18	0.044 I

LEGEND

MONITORING WELL

SOIL BORING

	SAMPLE ID	
	SAMLE DATE	
1	0.19 U	1-Methylnaphthalene
2	0.68 U	2-Methylnaphthalene
3	0.040 U	Acenaphthene
4	0.030 U	Acenaphthylene
5	0.043 U	Anthracene
6	0.055 U	Benzo(a)Anthracene
7	0.12 U	Benzo(a)Pyrene
8	0.027 U	Benzo(b)Fluoranthene
9	0.15 U	Benzo(g,h,i)perylene
10	0.16 U	Benzo(k)Fluoranthene
11	0.026 U	Chrysene
12	0.13 U	Dibenz(a,h)anthracene
13	0.018 U	Fluoranthene
14	0.088 U	Fluorene
15	0.12 U	Indedo(1,2,3-c,d)Pyrene
16	0.29 U	Naphthalene
17	0.16 U	Phenanthrene
18	0.032 U	Pyrene

ESTIMATED EXTENT OF GROUNDWATER CLEANUP TARGET LEVEL EXCEEDANCE

ALL CONCENTRATIONS ARE REPORTED IN ug/L (parts per million)

I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U = The compound was analyzed for but not detected.

517 = Results in **BOLD** Exceed GCTL Limit

PREMIUM ENVIRONMENTAL CONSULTING, LLC

GRAPHIC SCALE IN FEET

20' 0 20' 40'

PREPARED FOR:

MOPED HOSPITAL

SITE ADDRESS:

601 TRUMAN AVENUE
KEY WEST, MONROE COUNTY, FLORIDA
FDEP F.I.D. # 44/8841232

NORTH

DRAWN BY: Vic Snyder

DATE DRAWN: 11/26/2021

JOB NUMBER: Moped Hospital

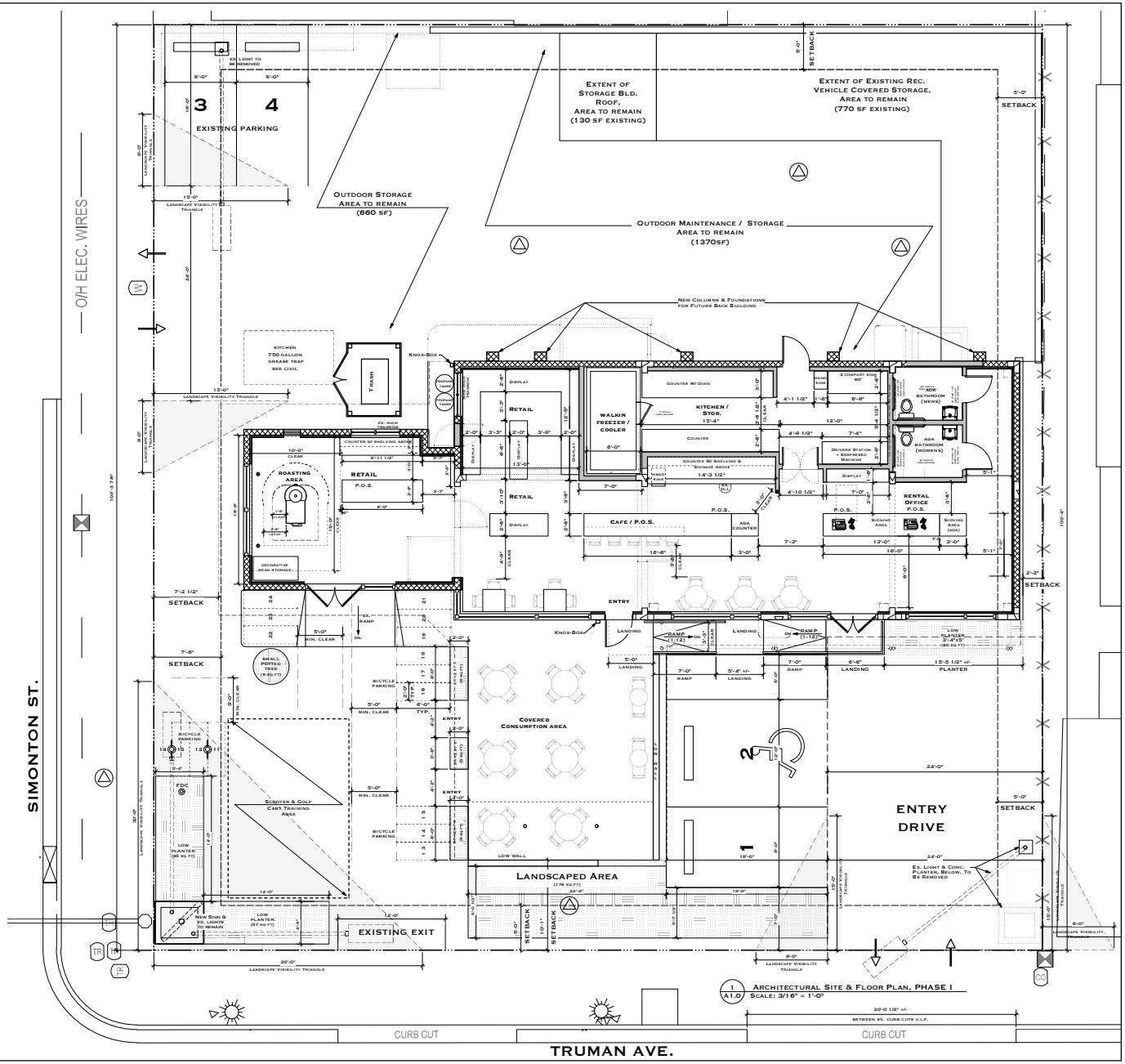
FIGURE NUMBER: 2

FIGURE TITLE:

GROUNDWATER ANALYTICAL MAP (PAHs)

EXHIBIT C

2021 DEVELOPMENT PLANS



T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, FL 33040

DRAWING TITLE:
ARCHITECTURAL SITE PLAN & FLOOR PLAN, PHASE I

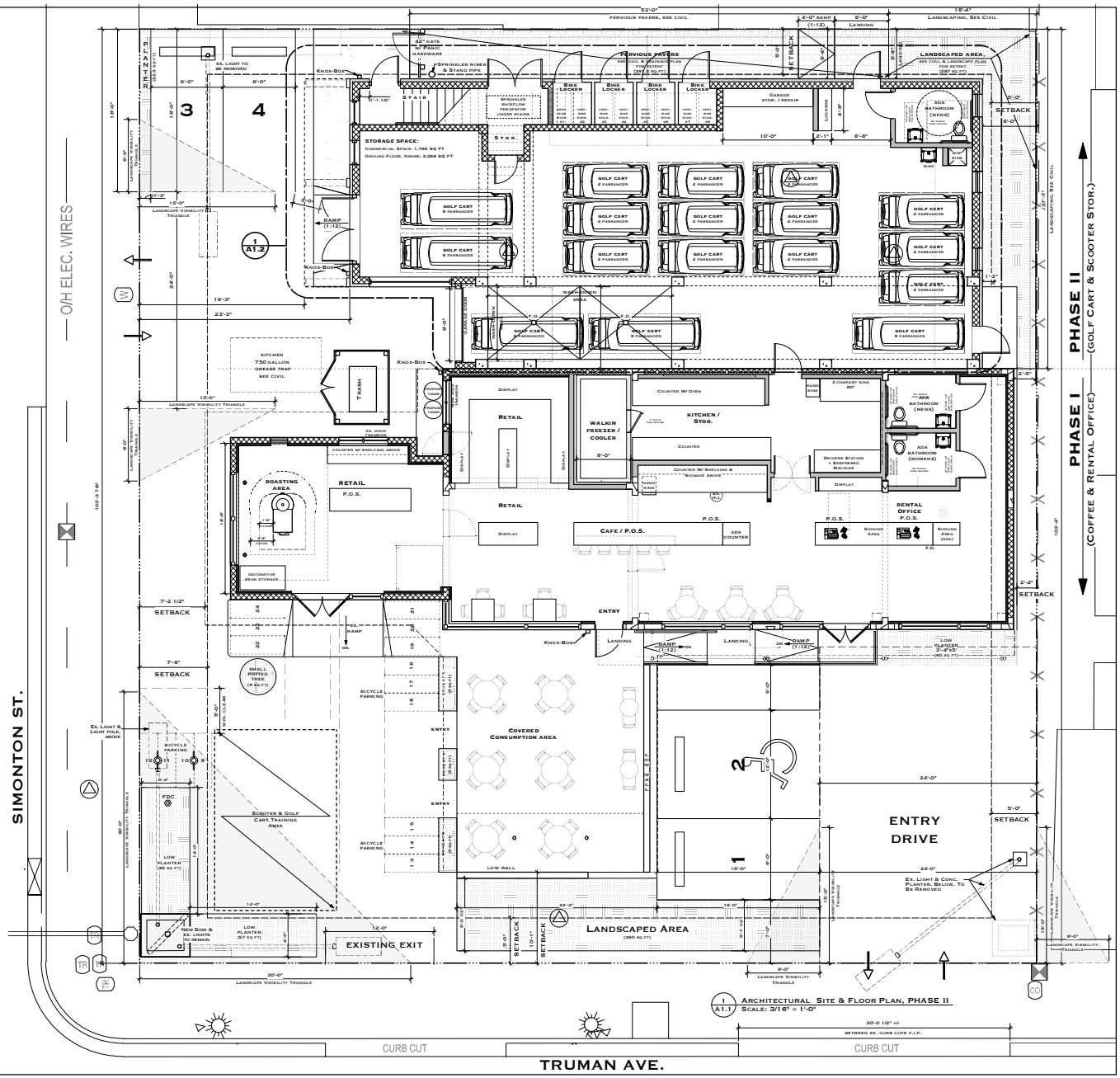
DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

A1.0
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505



1 A1.1 Architectural Site & Floor Plan, Phase II
Scale: 3/16" = 1'-0"

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
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305-340-8857
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STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST, FL 33040

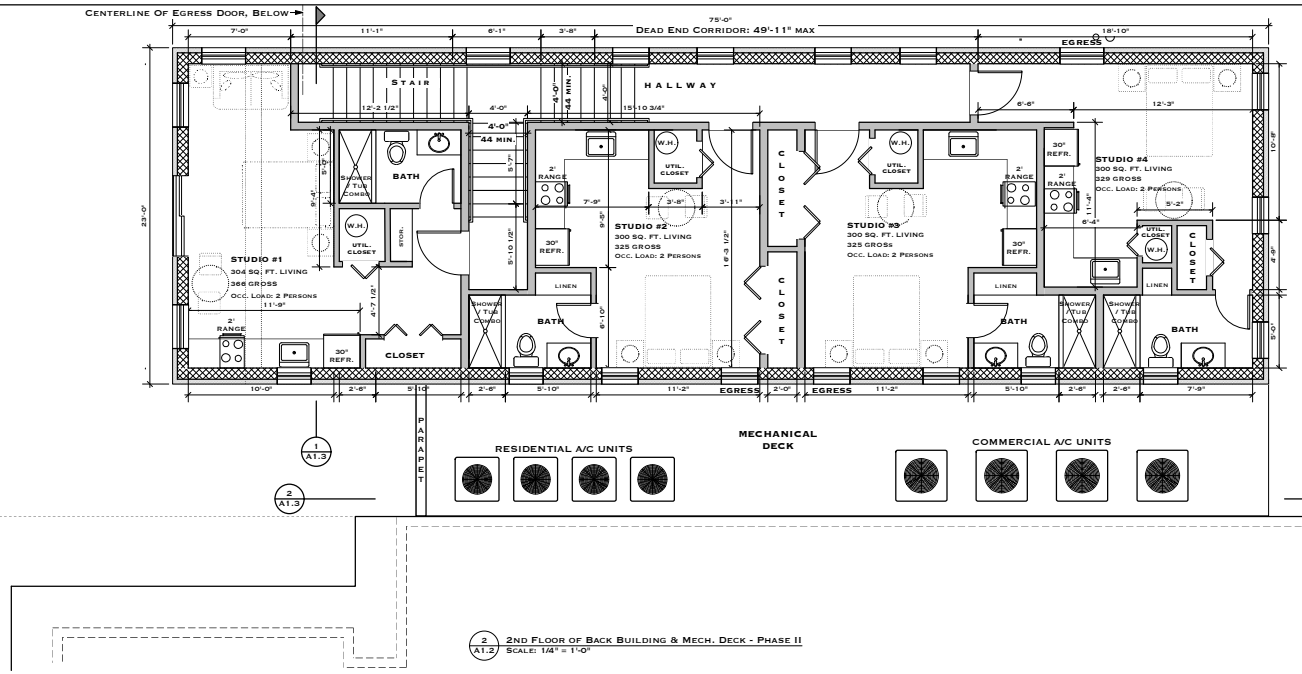
DRAWING TITLE:
ARCHITECTURAL SITE PLAN & FLOOR PLAN, PHASE II

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

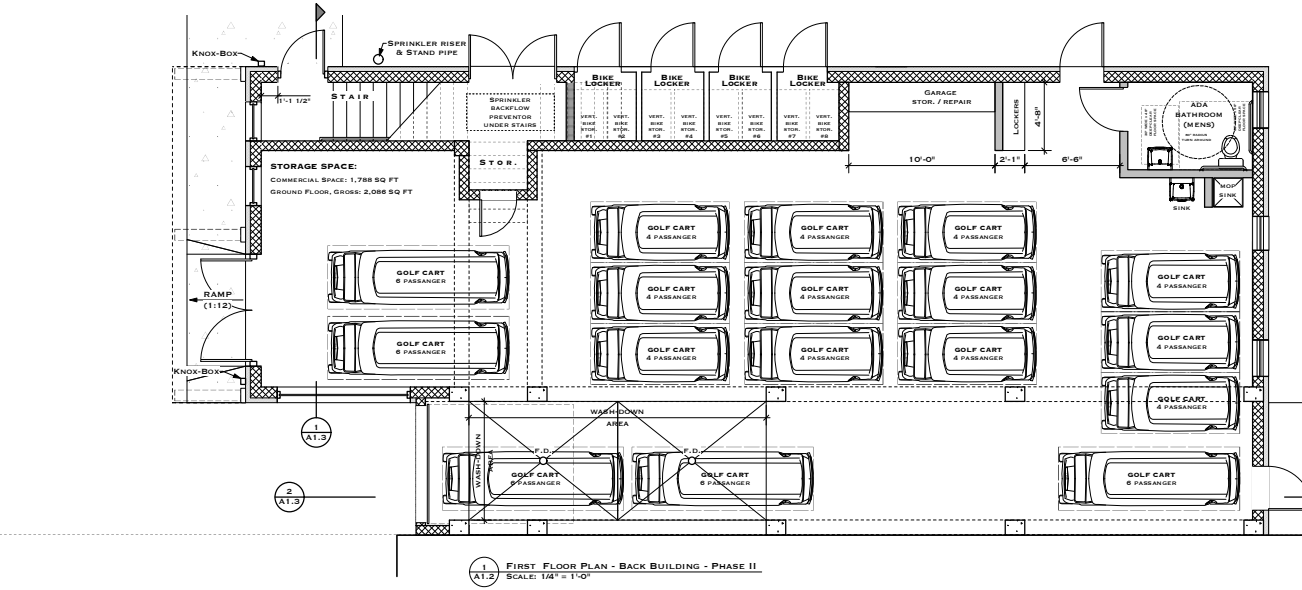
REVISION #	DATE

A1.1
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC



2 A1.2 2ND FLOOR OF BACK BUILDING & MECH. DECK - PHASE II
SCALE: 1/4" = 1'-0"



1 A1.2 FIRST FLOOR PLAN - BACK BUILDING - PHASE II
SCALE: 1/4" = 1'-0"

TIMOTHY SETH NEAL FLA. REGISTRATION # AR97505

T.S. NEAL
ARCHITECTS INC.
22974 OVERSEAS HWY
CUDJOE KEY, FL
33042
305-340-8857
251-422-9547

STATE OF FLORIDA
TIMOTHY SETH NEAL
AR97505
2-7-2022
REGISTERED ARCHITECT

PRELIMINARY DESIGN ONLY NOT FOT CONSTRUCTION

A RENOVATION FOR
601 TRUMAN AVE.
KEY WEST,FL 33040

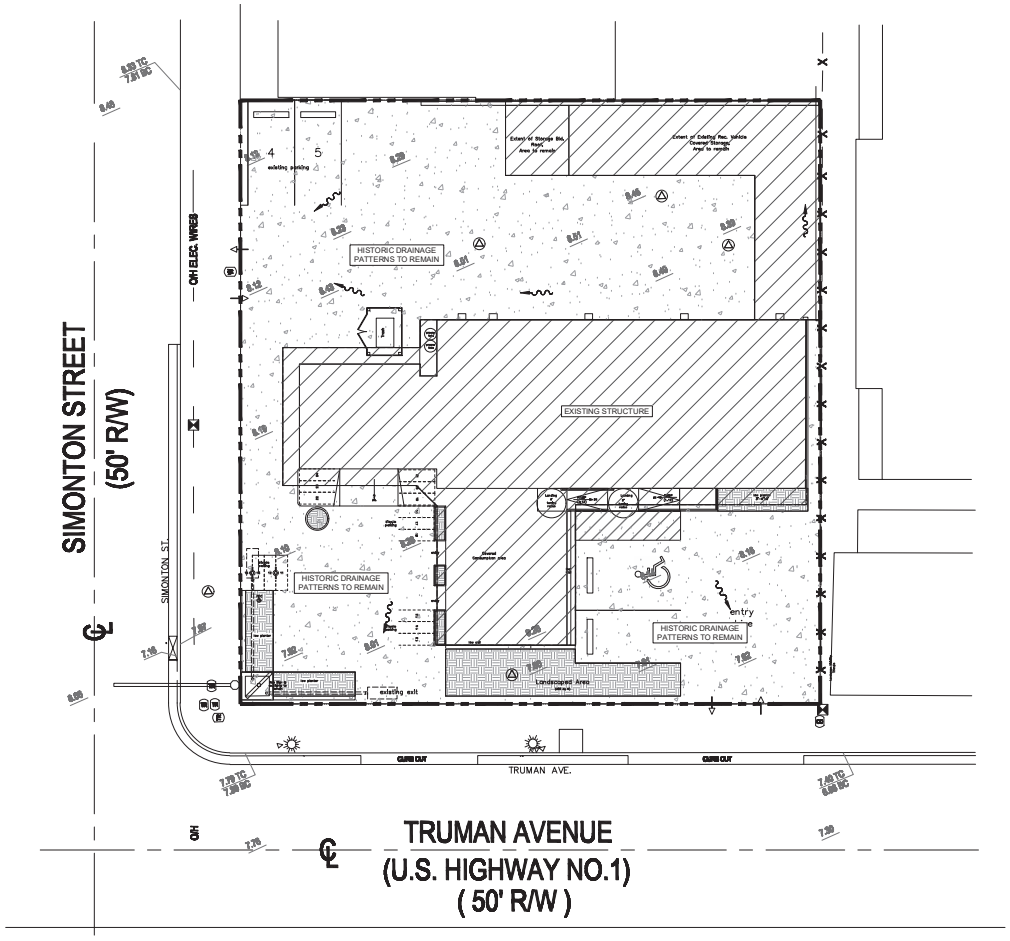
DRAWING TITLE:
BACK BUILDING - FIRST FLOOR & SECOND FLOOR PLANS - PHASEII

DRAWN: EDSA-TSN
CHECKED: -
DATE: 11-05-2021

REVISION #	DATE

A1.2
SHEET #

TSN
T. S. NEAL ARCHITECTS, INC



BAR IS TWO INCHES ON ORIGINAL DRAWINGS
IF NOT TWO INCHES, ADJUST SCALES ACCORDINGLY

LEGEND

- PROJECT LIMITS
- ROOF AREA
- CONCRETE
- DRY DETENTION AREA
- EXISTING GRADE
- PROPOSED GRADE
- STORMWATER PIPE
- STORMWATER BASIN (NYLOPLAST)
- STORMWATER INLET
- STORMWATER FLOW

NOTE:SYMBOLS IN LEGEND ARE NOT TO SCALE

Stormwater Quantity Calculations

Pre Development				
Project Area		0.235	ac	10,241.0 sf
Pervious Area		0.000	ac	- sf
Impervious Area		0.235	ac	10,241.0 sf
Percent Impervious Area		100.0%		
Information below per SFWMD ERP Vol II				
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in	
Rainfall: 25 Year / 72 Hour Event	P_{72}	12.0	in	
Depth to Water Table		4	ft	
Predeveloped Available Storage		8.18	in	
Soil Storage	S	0.00	in	
$Q_{pre} = \frac{(P-0.2S)^2}{(P+0.8S)}$	Q_{pre}	9.00	in	25YR/24HR
	Q_{pre}	12.00	in	25YR/72HR
Runoff Volume (25 year/24 hour design event)	$V_{25yr24hr}$	2.116	ac-in	
Runoff Volume (25 year/72 hour design event)	$V_{25yr72hr}$	2.821	ac-in	
Post Development				
Project Area		0.235	ac	10,241.0 sf
Pervious Area		0.011	ac	458.0 sf
Impervious Area		0.225	ac	9,783.0 sf
Percent Impervious Area		95.5%		
Information below per SFWMD ERP Vol II				
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in	
Rainfall: 25 Year / 72 Hour Event	P_{72}	12.0	in	
Depth to Water Table		4	ft	
Developed Available Storage		8.18	in	
Soil Storage	S	0.37	in	
$Q_{pre} = \frac{(P-0.2S)^2}{(P+0.8S)}$	Q_{pre}	8.58	in	25YR/24HR
	Q_{pre}	11.57	in	25YR/72HR
Runoff Volume (25 year/24 hour design event)	$V_{25yr24hr}$	2.016	ac-in	
Runoff Volume (25 year/72 hour design event)	$V_{25yr72hr}$	2.721	ac-in	
Volume Difference (25 year/24 hour design event)				
$Q_{pre-pre} = Q_{pre} - Q_{pre}$	$Q_{pre-pre}$	-0.42	in	
	$V_{pre-pre}$	-0.100	ac-in	(362) ft^3
Volume Difference (25 year/72 hour design event)				
$Q_{pre-pre} = Q_{pre} - Q_{pre}$	$Q_{pre-pre}$	-0.43	in	
	$V_{pre-pre}$	-0.101	ac-in	(365) ft^3

NOTES:
1. REDUCTION IN IMPERVIOUS AREA.
2. HISTORICAL DRAINAGE PATTERNS TO REMAIN THE SAME.

CIVIL SHEET LIST
C-1 PHASE I CONCEPTUAL PLAN
C-2 PHASE II CONCEPTUAL PLAN
C-3 CIVIL DETAILS

CONCEPTUAL PLAN - PHASE I

O'FLYNN engineering llc
Certificate of Authorization #32187
305.768.1212
brandon@oflynneng.com
1200 Fourth Street
#575
Key West, FL 33040

REVIEW SET
NOT FOR CONSTRUCTION

BRANDON G. O'FLYNN, P.E.
FL P.E. NO. 88202

601 TRUMAN AVENUE
KEY WEST, FL 33040

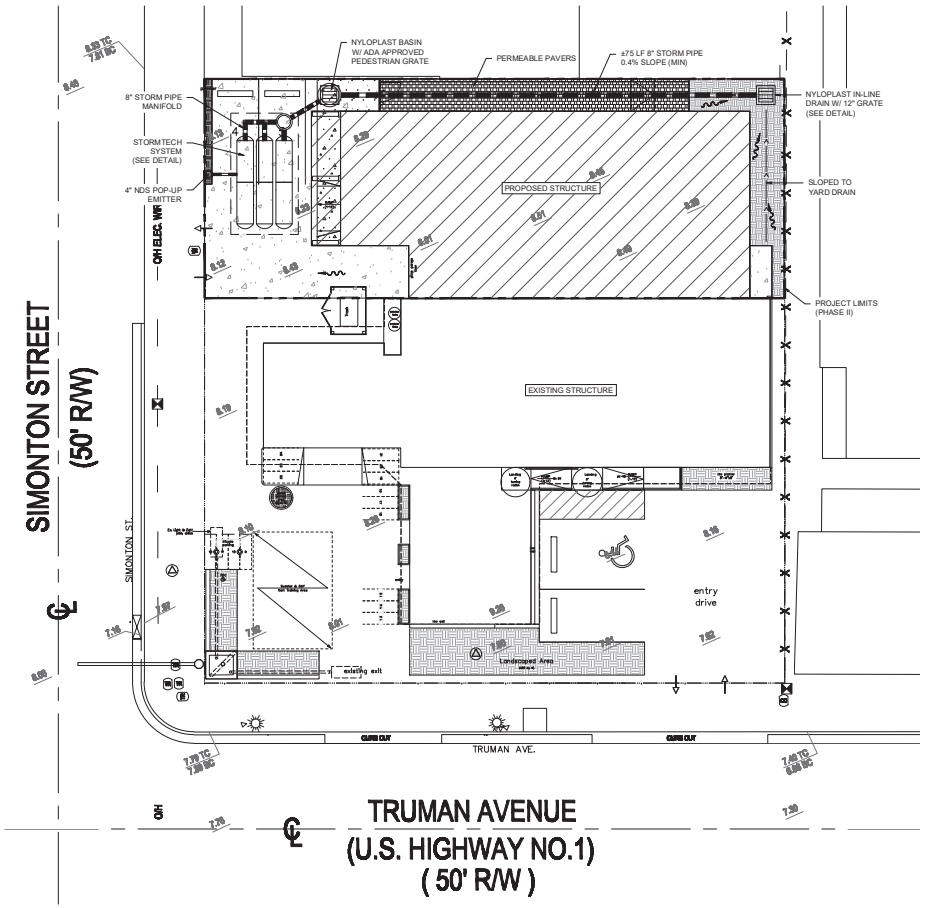
DRAWN:	BGO
DESIGNED:	BGO
CHECKED:	JCR

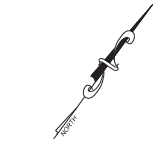
REVISION

CONCEPTUAL DRAINAGE PLAN (PHASE I)

201027 | 1/21/2022

C-1





BAR IS TWO INCHES ON ORIGINAL DRAWINGS
IF NOT TWO INCHES, ADJUST SCALES ACCORDINGLY

LEGEND

- PROJECT LIMITS
- ROOF AREA
- CONCRETE
- DRY DETENTION AREA
- EXISTING GRADE
- PROPOSED GRADE
- STORMWATER PIPE
- STORMWATER BASIN (NYLOPLAST)
- STORMWATER INLET
- STORMWATER FLOW

NOTE:SYMBOLS IN LEGEND ARE NOT TO SCALE

NOTES:
1. DOWNSPOUTS DIRECTED INTO STORMWATER MANAGEMENT SYSTEM. PROVIDE AIR-GAP AT INTERFACE FOR EMERGENCY OVERFLOW.
2. SEE SHEET C-3 FOR STORMTECH CHAMBER AND SYSTEM DETAILS.

Stormwater Quantity Calculations

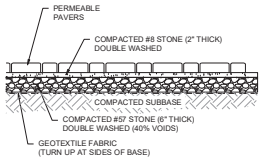
Pre Development				
Project Area		0.385	ac	3,719.0 sf
Pervious Area		0.303	ac	136.0 sf
Impervious Area		0.082	ac	3,583.0 sf
Percent Impervious Area		96.3%		
Information below per SFWMD ERP Vol II				
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in	
Rainfall: 25 Year / 72 Hour Event	P_{72}	11.0	in	
Depth to Water Table		4	ft	
Predeveloped Available Storage		8.18	in	
Soil Storage	S	0.30	in	
$Q_{pre} = \frac{(P-0.2S)^2}{(P+0.85)}$	Q_{pre}	8.65	in	25YR/24HR
	Q_{pre}	11.65	in	25YR/72HR
Runoff Volume (25 year/24 hour design event)	$V_{25yr/24hr}$	0.739	ac-in	
Runoff Volume (25 year/72 hour design event)	$V_{25yr/72hr}$	0.994	ac-in	
Post Development				
Project Area		0.385	ac	3,719.0 sf
Pervious Area		0.013	ac	559.0 sf
Impervious Area		0.373	ac	3,160.0 sf
Percent Impervious Area		85.0%		
Information below per SFWMD ERP Vol II				
Rainfall: 25 Year / 24 Hour Event	P_{24}	9.0	in	
Rainfall: 25 Year / 72 Hour Event	P_{72}	11.0	in	
Depth to Water Table		4	ft	
Developed Available Storage		8.18	in	
Soil Storage	S	1.23	in	
$Q_{pre} = \frac{(P-0.2S)^2}{(P+0.85)}$	Q_{pre}	7.68	in	25YR/24HR
	Q_{pre}	10.64	in	25YR/72HR
Runoff Volume (25 year/24 hour design event)	$V_{25yr/24hr}$	0.655	ac-in	
Runoff Volume (25 year/72 hour design event)	$V_{25yr/72hr}$	0.908	ac-in	
Volume Difference (25 year/24 hour design event)				
$Q_{post-pre} = Q_{post} - Q_{pre}$	$Q_{post-pre}$	-0.97	in	
	$V_{post-pre}$	-0.083	ac-in	(302) ft^3
Volume Difference (25 year/72 hour design event)				
$Q_{post-pre} = Q_{post} - Q_{pre}$	$Q_{post-pre}$	-1.01	in	
	$V_{post-pre}$	-0.086	ac-in	(312) ft^3

Stormwater Quality Calculations

Project Area	0.385	ac	3,719	ft^2
Surface Water	0.000	ac	-	ft^2
Roof	0.252	ac	2,250	ft^2
Other Impervious	0.121	ac	910	ft^2
Pervious	0.013	ac	559	ft^2
Impervious Area for Water Quality	0.02	ac	910	ft^2
	24%			
A) One inch of Runoff over Project Area	0.385	ac-in	310	ft^3
vs				
B) 2.5 inches x Impervious Area for Water Quality	0.252	ac-in	190	ft^3

Retention Details

Total Retention Required (Water Quality Controls)	0.385	ac-in	310	ft^3
Volumes Provided				
StormTech Chamber System	0.389	ac-in	323	ft^3
Retention Provided (Total)	0.389	ac-in	323	ft^3

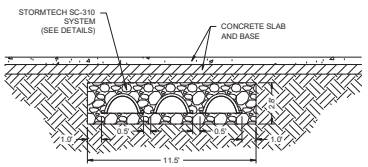


Permeable Paver Storage Calculations		
Paver Area	264	Square Feet
Stone Layer Thickness	6	Inches
Storage Provided	52.8	Cubic Feet

PERMEABLE PAVER DETAIL

SCALE: N.T.S.

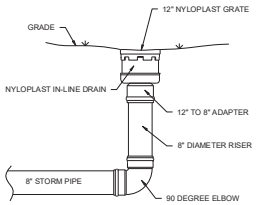
NOTES:
1. PERMEABLE PAVER WATER STORAGE IS NOT INCLUDED IN STORMWATER CALCULATIONS AND IS SHOWN TO DEMONSTRATE ADDITIONAL ON-SITE STORAGE CAPACITY.



STORMTECH SYSTEM SECTION

SCALE: N.T.S.

NOTES:
1. SEE SHEET C-3 FOR ADDITIONAL DETAILS.



IN-LINE DRAIN TYPICAL DETAIL

SCALE: N.T.S.

O'FLYNN engineering llc
Certificate of Authorization #32187
305.768.1212
brandon@oflynneng.com
1200 Fourth Street
#575
Key West, FL 33040

REVIEW SET
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BRANDON G. O'FLYNN, P.E.
FL P.E. NO. 88202

601 TRUMAN AVENUE
KEY WEST, FL 33040

DRAWN: BGO
DESIGNED: BGO
CHECKED: JCR

REVISION

CONCEPTUAL DRAINAGE PLAN (PHASE II)

201027 | 1/21/2022

C-2

CONCEPTUAL PLAN - PHASE II

ADVANCED DRAINAGE SYSTEMS, INC.

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740 OR SC-310.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

System Volume and Bed Size

Installed Storage Volume:	323.35 cubic ft.
Storage Volume Per Chamber:	14.70 cubic ft.
Number Of Chambers Required:	6
Number Of End Caps Required:	6
Chamber Rows:	3
Maximum Length:	20.75 ft.
Maximum Width:	11.50 ft.
Approx. Bed Size Required:	238.61 square ft.

System Components

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

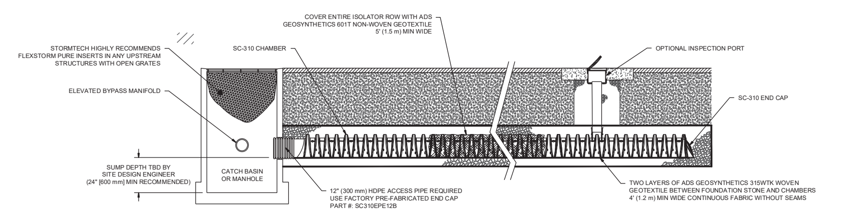
1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

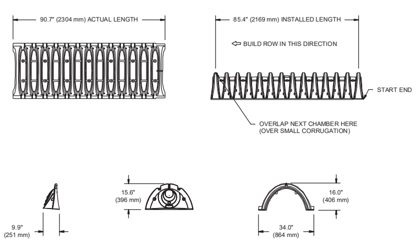
1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



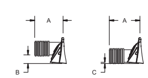
1 SC-310 ISOLATOR ROW DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	---
SC310EPE06B / SC310EPE06BPC			---	0.5" (13 mm)
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	---
SC310EPE08B / SC310EPE08BPC			---	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	---
SC310EPE10B / SC310EPE10BPC			---	0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)	---	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

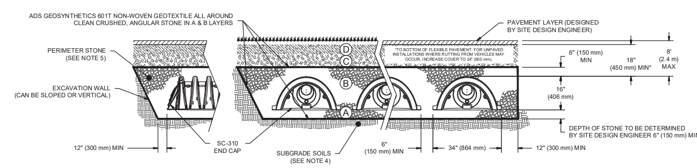
NOTE: ALL DIMENSIONS ARE NOMINAL

2 SC-310 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	# 57 STONE	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

1. SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

3 SC-310 CROSS SECTION DETAIL

O'FLYNN engineering llc
Certificate of Authorization #32187
305.768.1212
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1200 Fourth Street
#575
Key West, FL 33040

REVIEW SET
NOT FOR CONSTRUCTION

BRANDON G. O'FLYNN, P.E.
FL P.E. NO. 80520

601 TRUMAN AVENUE
KEY WEST, FL 33040

DRAWN:	BGO
DESIGNED:	BGO
CHECKED:	JCR

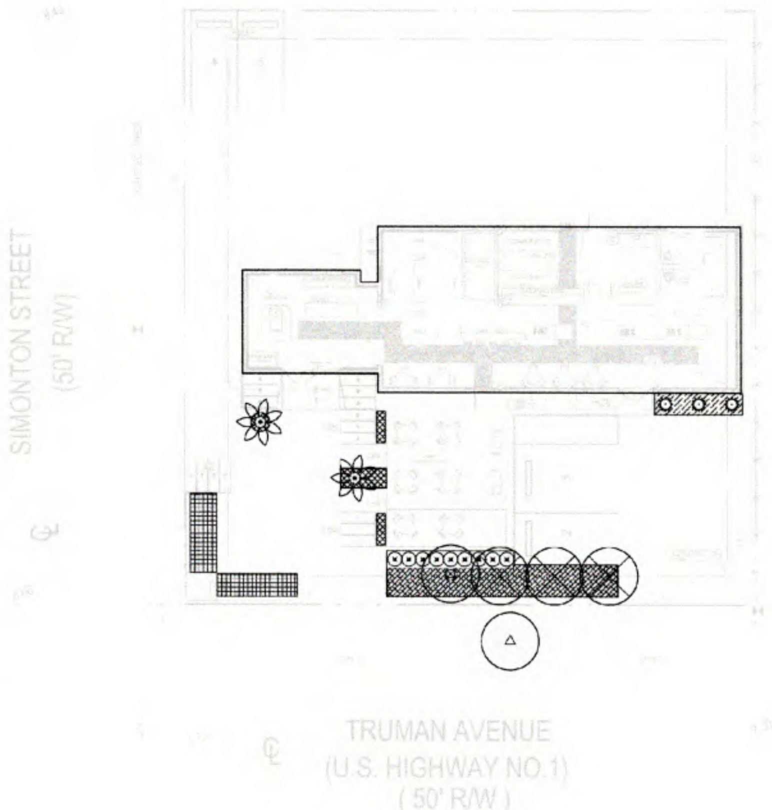
REVISION

CONCEPTUAL PLAN

DETAILS

201027 1/21/2022

C-3



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	
	CO	1	Chrysophyllum oliviforme	Satinleaf	25 GAL.	10' HT X 5' SPRD	2" CAL.	
	PE	2	Ptychosperma elegans	Alexander Palm	F.G.	14' C.T.		
	SG	1	Simarouba glauca	Paradise Tree	25 GAL.	10'-12' STD		
	TR	4	Thrinax radiata	Florida Thatch Palm	F.G.	10' GW		
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE		
	CR	3	Cordyline fruticosa 'Red Sister'	Red Sister Ti Plant	3 GAL.	24" OA. HEAVY		
	SB2	9	Spartina bakeri	Sand Cord Grass	3 GAL.	24"-30" OA. FULL		
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE		
	CI	31	Chrysobalanus icaco	Coco Plum	3 GAL.	18" HT.		24" o.c.
	IC	22	Ixora chinensis	Chinese Ixora	3 GAL.	FULL		18" o.c.
	ZP	13	Zamia pumila	Coontie	3 GAL.	18"-24" OA.		24" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE		
	EL	210	Ernodea littoralis	Golden Creeper	3 GAL.	FULL		12" o.c.

phase 1 landscape area= 519 sq.ft.

NOT FOR CONSTRUCTION

PROJECT

A RENOVATION FOR 601 TRUMAN AVE

601 TRUMAN AVE & 919 SIMONTON ST
KEY WEST, FL 33040

CLIENT/OWNER

VENTER ENTERPRISE, LLC
MARIUS VENTER

908 GRIFFIN LANE
KEY WEST, FL 33040

REGISTRATION

ISSUED FOR:

PROJECT NUMBER: XXXXX.X
DATE: 11.11.2021
SCALE: 1"=10'-0"
DRAWN BY:
CHECKED BY:

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
PHASE 1: LANDSCAPE PLAN

SHEET NUMBER
L1.01

SHEET OF

Existing avocado tree to be removed via separate application by owner.

Tree poses a public health hazard base on toxic chemical uptake that is spread through fruit (see document from University of Florida).

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	
	PE	4	Ptychosperma elegans	Alexander Palm	F.G.	14' C.T.	
SHRUB AREAS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SIZE**	**SPACING**
	ZP	59	Zamia pumila	Coontie	3 GAL.	18"-24" OA.	24" o.c.

phase 2 landscape area= 239 sq.ft.

PROJECT

A RENOVATION FOR
601 TRUMAN AVE

601 TRUMAN AVE & 919 SIMONTON ST
KEY WEST, FL 33040

CLIENT/OWNER

VENTER ENTERPRISE, LLC
MARIUS VENTER

606 GRIFFIN LANE
KEY WEST, FL 33040

REGISTRATION

ISSUED FOR:

PROJECT NUMBER: XXXXX.X
DATE: 11.11.2021
SCALE: 1"=10'-0"
DRAWN BY:
CHECKED BY:

DRAWING SCALE AND NORTH ARROW

SHEET TITLE
PHASE 2: LANDSCAPE PLAN

SHEET NUMBER
L1.02

SHEET OF

NOT FOR CONSTRUCTION