



PORT & MARINE SERVICES

201 William Street
Key West, FL 33040

ADDENDUM NO. 1

**DOCKMASTER / TRANSIENT RESTROOM BUILDING
CITY MARINA at GARRISON BIGHT
ITB #17-004**

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

DRAWINGS:

Attached drawings are made part of this contract.

All other elements of the Contract and Bid documents, including the Bid Date shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 1** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signature

Name of Business



PORT & MARINE SERVICES

201 William Street
Key West, FL 33040

ADDENDUM NO. 2

**DOCKMASTER / TRANSIENT RESTROOM BUILDING
CITY MARINA at GARRISON BIGHT
ITB #17-004**

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

DRAWINGS:

Remove all plumbing drawings and replace with new sheets P-1, P-2, P-3 and P-4.

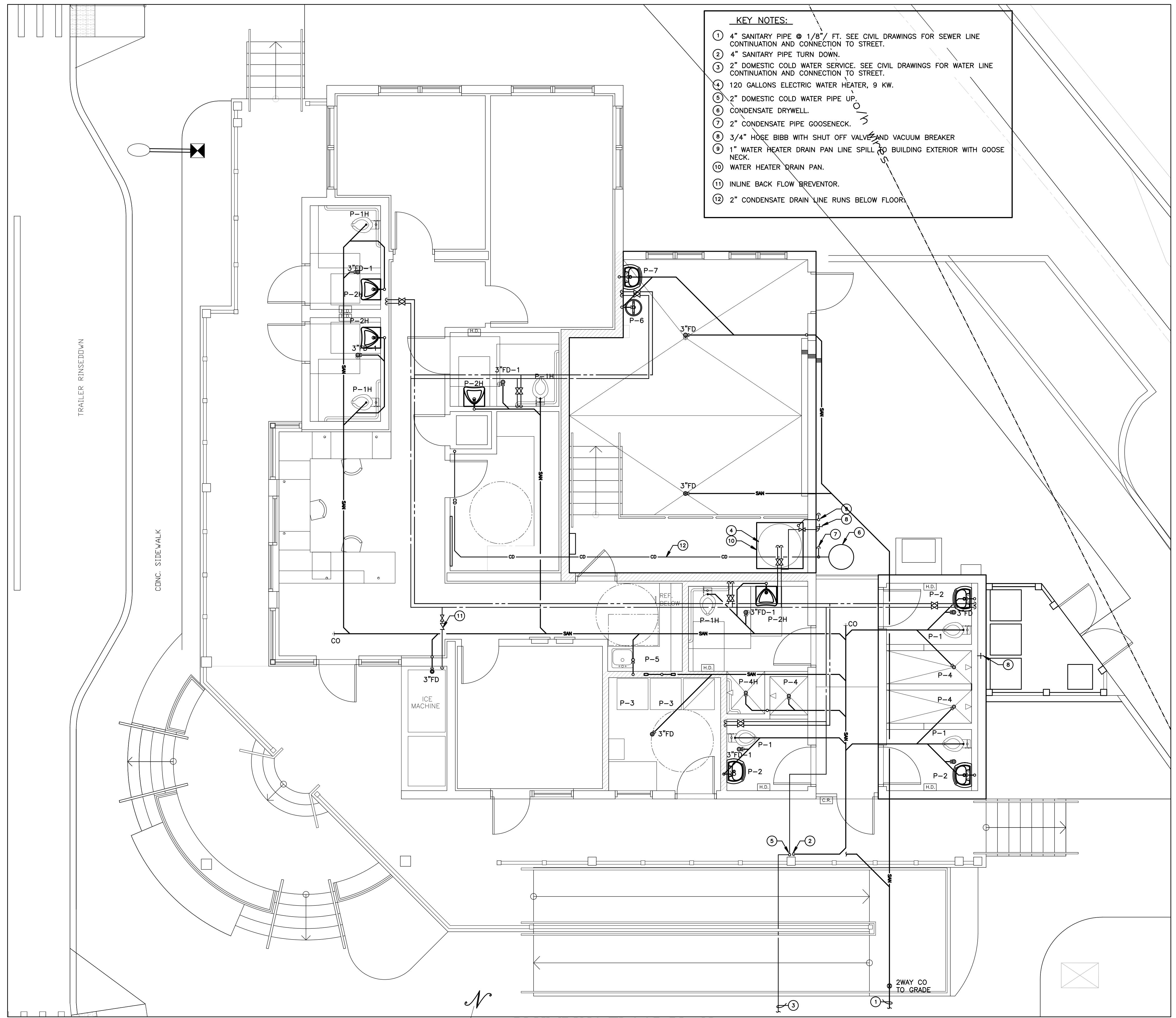
All other elements of the Contract and Bid documents, including the Bid Date shall remain unchanged.

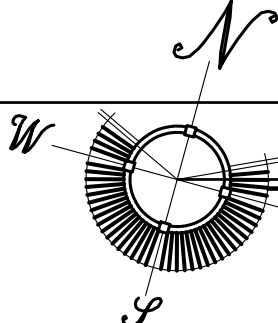
All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 2** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signature

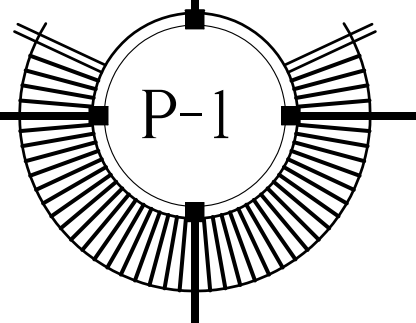
Name of Business

- KEY NOTES:**
- ① 4" SANITARY PIPE @ 1/8" / FT. SEE CIVIL DRAWINGS FOR SEWER LINE CONTINUATION AND CONNECTION TO STREET.
 - ② 4" SANITARY PIPE TURN DOWN.
 - ③ 2" DOMESTIC COLD WATER SERVICE. SEE CIVIL DRAWINGS FOR WATER LINE CONTINUATION AND CONNECTION TO STREET.
 - ④ 120 GALLONS ELECTRIC WATER HEATER, 9 KW.
 - ⑤ 2" DOMESTIC COLD WATER PIPE UP.
 - ⑥ CONDENSATE DRYWELL.
 - ⑦ 2" CONDENSATE PIPE GOOSENECK.
 - ⑧ 3/4" HOSE BIBB WITH SHUT OFF VALVE AND VACUUM BREAKER
 - ⑨ 1" WATER HEATER DRAIN PAN LINE SPILL TO BUILDING EXTERIOR WITH GOOSE NECK.
 - ⑩ WATER HEATER DRAIN PAN.
 - ⑪ INLINE BACK FLOW BREVENTOR.
 - ⑫ 2" CONDENSATE DRAIN LINE RUNS BELOW FLOOR.




PLUMBING FLOOR PLAN
 SCALE : 1/4" = 1'-0"

TRANSIENT RESTROOMS / DOCK MASTER BUILDING
 CITY MARINA / GARRISON BIGHT
 KEY WEST, FLORIDA



Date: 02/14/13 17:26:07 File Path: S:\Projects\9910\0000 DOCK MASTER BUILDING 6-17-16\VP-1 - Plumbing Plan.dwg | Layout: P-1

NOTE:
EXPOSED PLUMBING PIPING IS NOT ALLOWED.
ALL PLUMBING PIPING SHALL RUN
UNDERGROUND, INSIDE CEILING SPACE, INSIDE
COLUMN OR INSIDE WALL. NO EXTRAS WILL
BE ALLOWED FOR FAILURE TO DO SO.

GENERAL NOTES:

- ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, STATE AND LOCAL ORDINANCES.
- DRAINAGE SYSTEM DESIGN IS BASED ON 1/8" PER FOOT MINIMUM FALL FOR PIPES 3" OR LARGER AND 1/4" PER FOOT MINIMUM FALL FOR PIPES 2" OR SMALLER. ANY DEVIATIONS SHALL BE APPROVED BY ARCHITECT/ENGINEER.
- PROVIDE CLEAN OUTS EVERY 75 FT. AND AT BASE OF EVERY WASTESTACK. ALL CLOSE-OUTS TO BE FLUSH MOUNTED.
- MATERIALS SHALL BE ALL NEW AND AS FOLLOWS:
 - DRAINAGE WASTE AND VENT PIPING ABOVE AND BELOW GROUND PVC DRAINAGE WASTE AND PIPING (DW) CONFORMING TO ASTM D-2665. INSTALL PLASTIC (PVC) SCH40 SOLID WALL PIPES ONLY WHEN IT IS APPROVED BY LOCAL AUTHORITIES AND NOT TO BE USED IN AIR RETURN PLENUM.
 - WATER PIPING: SCHEDULE 40 CPVC FOR RISERS AND BRANCH LINES. PVC SCH. 40 OUTSIDE. WATER PIPING MATERIAL MUST BE APPROVED BY CODE AND ACCEPTABLE TO OWNER.
 - CONDENSATE DRAIN PIPING: SCHEDULE 40 CPVC INSIDE BUILDING AND SCHEDULE 40 PVC UNDERGROUND. PROVIDE 3/4" ARMAFLEX PIPE INSULATION TO ALL CONDENSATE DRAIN PIPING ABOVE GRADE.
 - FLOOR CLEAN OUTS: REFER TO PLUMBING FIXTURE SCHEDULE.
 - WALL CLEAN OUTS: REFER TO PLUMBING FIXTURE SCHEDULE.
 - VALVES: 125 PSI NIBCO SCOTT, STOCKHAM OR EQUAL.
 - HOSE BIBBS: REFER TO PLUMBING FIXTURE SCHEDULE.
- PERFORM THE FOLLOWING TEST:
 - WATER PIPING SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE TEST OF 100 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.
 - DRAINAGE SYSTEM: BEFORE INSTALLATION OF ANY DRAINS, THE END OF THE SYSTEM SHALL BE CAPPED & ALL LINES FILLED WITH WATER TO HIGHEST POINT & ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVELS REMAIN CONSTANT.
 - CORRECT ALL DEFECTS DISCLOSED BY ABOVE TESTS.
 - COMPLETE SYSTEM FIXTURE & EQUIPMENT SHALL BE GIVEN AN IN SERVICE TEST AFTER COMPLETION OF THE INSTALLATION.
 - STERILIZE ALL WATER LINES WITH A MIXTURE OF (2) POUNDS OF CHLORINATED LIME TO EACH 1000 gal. OF WATER (50 PPM OF AVAILABLE CHLORINE.) RETAIN MIXTURE IN PIPES FOR 24 HOURS AND FLUSH THOROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.
 - PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE, AND THAT HE WILL, AT HIS EXPENSE, REPAIR AND REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING GUARANTEE PERIOD.
 - CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION BEFORE COMMENCING ANY WORK.
 - PLUMBING CONTRACTOR SHALL PAY ALL FEES, INSPECTION AND CONNECTION CHARGES REQUIRED.
 - SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL OF ALL EQUIPMENT, MATERIALS AND LAYOUTS PRIOR INSTALLATION.
 - OFFSET PIPING AS REQUIRED TO CLEAR BUILDING STRUCTURE, DUCTWORK, ETC. AS SHOWN ON DRAWINGS AND AS REQUIRED BY FIELD CONDITIONS.
 - PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A/C CONDENSATE DRAIN AND TRAP. SEE A/C PLANS FOR LOCATION OF UNITS AND DRAINS.
 - PLUMBING CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT.
 - COORDINATE WORK WITH OTHER TRADES.
 - FURNISH AND INSTALL FIXTURES AS SPECIFIED IN SCHEDULE ON SHEET P-1.
 - EACH BATHROOM GROUP SHALL BE PROVIDED WITH SHOCK ABSORBER PER FLORIDA BUILDING CODE.
 - PROVIDE SHUTOFF VALVE FOR EACH FIXTURE, JUST BEFORE CONNECTING TO FIXTURE.
 - WHEREVER DISSIMILAR METALS ARE TO BE JOINED, A DIELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH TYPES OF PIPES.
 - PIPE INSULATION:
 - ALL CONDENSATE LINES SHALL BE INSULATED WITH 3/4" FIRE RETARDANT ARMAFLEX INSULATION WITH A MAXIMUM OF 25/50 FLAME SPREAD AND SMOKE DEVELOPED RESPECTIVELY.
 - ALL HOT WATER LINES SHALL BE INSULATED WITH 1" FIRE RETARDANT ARMAFLEX INSULATION WITH A MAXIMUM OF 25/50 FLAME SPREAD AND SMOKE DEVELOPED RESPECTIVELY.

PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	COLD WATER		HOT WATER		MANUFACTURER/MODEL	TRIM
		DRAIN	WATER	WATER			
P-1	WATER CLOSET	4"	1"	--		AMERICAN STANDARD "MADERA FLOWISE" 3451.528, 15" HEIGHT 1.28 GPF, TOP SPUD FLOOR MOUNTED.	AMERICAN STANDARD SELECTRONIC FLUSH VALVE, BATTERY OPERATED. DUEL FLUSH 1.6/1.1GPF MODEL #6065.761.0002 SEAT: AMERICAN STANDARD #5901.100SS ELONGATED HEAVY DUTY, BOWL OPEN FRONT SEAT LESS COVER WITH SELF -SUSTAINING HINGE
P-1H	WATER CLOSET (HANDICAP)	4"	1"	--		AMERICAN STANDARD "MADERA FLOWISE" 3461.528, 16-1/2" HEIGHT 1.28 GPF, TOP SPUD, FLOOR MOUNTED.	AMERICAN STANDARD SELECTRONIC FLUSH VALVE, BATTERY OPERATED. DUEL FLUSH 1.6/1.1 GPF MODEL #6065.761.002 SEAT: AMERICAN STANDARD #5901.100SS ELONGATED HEAVY DUTY, BOWL OPEN FRONT SEAT LESS COVER WITH SELF -SUSTAINING HINGE
P-2	LAVATORY	1 1/4"	1/2"	1/2"		AMERICAN STANDARD "AQUALYN" #0475.047, WHITE VITREOUS CHINA. SELF-RIMMING COUNTERTOP SINK WITH FRONT OVERFLOW AND CENTER FAUCET HOLE.	FAUCET: AMERICAN STANDARD #7055.205, POLISHED CHROME, BATTERY POWERED, CAST BRASS FAUCET WITH 0.5 GPM PRESSURE COMPENSATING, VANDAL-RESISTANT NON-AERATED SPRAY AND ABOVE DECK MIXING VALVE WITH HOT LIMIT SAFETY STOP. DRAIN: MCGUIRE #155A POLISHED CHROME PLATED CAST BRASS OPEN GRID STRAINER AND TAILPIECE, MCGUIRE #8872 POLISHED CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON. SUPPLY: BRASS-CRAFT POLISHED CHROME PLATED CAST BRASS ANGLE SUPPLY WITH RIGID SUPPLY RISER, LOOSE KEY STOP AND ESCUTCHEON.
P-2H	LAVATORY (HANDICAP)	1 1/4"	1/2"	1/2"		AMERICAN STANDARD "LUCERNE" #0356.421, WHITE VITREOUS CHINA WALL HUNG LAVATORY WITH CENTER FAUCET HOLE, FRONT INTEGRAL OVERFLOW AND CONCEALED ARM SUPPORT OPENING. CARRIER: MIFAB MC-41 SERIES.	FAUCET: AMERICAN STANDARD #7055.205, POLISHED CHROME, BATTERY POWERED, CAST BRASS FAUCET WITH 0.5 GPM PRESSURE COMPENSATING, VANDAL-RESISTANT NON-AERATED SPRAY AND ABOVE DECK MIXING VALVE WITH HOT LIMIT SAFETY STOP. DRAIN: MCGUIRE #155A POLISHED CHROME PLATED CAST BRASS OPEN GRID STRAINER AND TAILPIECE, MCGUIRE #8872 POLISHED CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON. SUPPLY: BRASS-CRAFT POLISHED CHROME PLATED CAST BRASS ANGLE SUPPLY WITH RIGID SUPPLY RISER, LOOSE KEY STOP AND ESCUTCHEON. PIPE INSULATION: TRUEBRO #101W & #105W, WHITE HANDICAP LAVATORY P-TRAP AND INSULATION.
P-3	WASHING MACHINE	2"	3/4"	--		AMERICAN STANDARD "WASHBROOK'S" #6590.501, WHITE WASHOUT FLUSH ACTION, 0.5 GPF, FLUSHING RIM TOP INLET SPUD AND WALL HANGERS. CARRIER: MIFAB MC-31 SERIES.	FLUSH: AMERICAN STANDARD #6063.051.002. POLISHED CHROME BRASS VALVE, EXPOSED, BATTERY POWERED, SENSOR OPERATED VALVE.
P-4	SHOWER	2"	1/2"	1/2"		SEE ARCHITECTURAL DRAWINGS.	FAUCET: AMERICAN STANDARD #1675.507, SHOWER TRIM KIT, SINGLE-HANDLE PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW SET AT 110° F., INTEGRAL SERVICE STOPS AND 1.5 GPM CHROME PLATED BRASS SHOWER HEAD. DRAIN: MIFAB #F1000-6"-3-6-7, 6" ROUND STAINLESS STEEL STRAINER WITH SECURITY SCREWS AND TRAP SEAL PRIMER TAPPING.
P-4H	SHOWER (HANDICAP)	2"	1/2"	1/2"		SEE ARCHITECTURAL DRAWINGS.	FAUCET: AMERICAN STANDARD #1662.211, HANDICAP SHOWER KIT, SINGLE-HANDLE PRESSURE BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW SET AT 110° F., INTEGRAL SERVICE STOPS, 1.5 GPM CHROME PLATED HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL SUPPLY, AND 36" SLIDE BAR. DRAIN: MIFAB #F1000-6"-3-6-7, 6" ROUND STAINLESS STEEL STRAINER WITH SECURITY SCREWS AND TRAP SEAL PRIMER TAPPING. PROVIDE ANTISCALD VALVE
P-5	KITCHEN SINK	2"	1/2"	1/2"		AMERICAN STANDARD #245B.252211/791566-0750A, COUNTERTOP MOUNT SINK.	AMERICAN STANDARD #4332F15.310, "PEKOE" SINGLE HANDLE FAUCET. MCGUIRE #LFH170bv, POLISHED BRASS FAUCET SUPPLIES. MCGUIRE #8912CB, P-TRAP.
P-6	EYE WASH	2"	1/2"			ACORN SAFETY MODEL # S0410.	
FD FD-1	FLOOR DRAIN	3"	--	--		MIFAB MODEL F1100-S6-1-6-7-SS, CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLES, 6" SQUARE SATIN FINISHED STAINLESS STEEL STRAINER, VANDAL PROOF AND 1/2" TRAP SEAL	COORDINATE FINISHED FLOOR ELEVATION WITH ARCH.
P-7	WALL HUNG SINK	1 1/4"	1/2"	1/2"		JUST MODEL # A-544-FS 20 GAUGE STAINLESS STEEL. WALL HUNG. AND CENTER FAUCET HOLE.	FAUCET: JS-47-TCSA. CAST BRASS FAUCET WITH 0.5 GPM WITH HOT LIMIT SAFETY STOP. DRAIN:
FCO	FLOOR CLEANOUT	4"	--	--		WATTS FLOOR CLEANOUT #CO-200-R NH	
WCO	WALL CLEANOUT	2"	--	--		WATTS LINE CLEANOUT #CO-450-RD	
GCO	GRADE CLEANOUT	4"	--	--		WATTS ACCESS HOUSING #CO-300-MF	
HB/VB	HOSE BIBB W/VACUUM BREAKER	--	3/4"	--		MIFAB MODEL MHY-9041, ROUGH BRASS WALL FAUCET OPERATING KEY, 3/4" MALE HOSE CONNECTION AND ANTI-SIPHON VACUUM BREAKER.	
TP	TRAP PRIMER	--	1/2"	--		MIFAB MODEL M-500-UN-DU-625, PRESSURE DROP ACTIVATED BRASS TRAP SEAL PRIMER WITH UNION CONNECTION, DISTRIBUTION UNIT AND 5/8" COMPRESSION CONNECTIONS UP TO FOUR TRAPS.	ALL TRAP PRIMERS SHALL BE LOCATED IN ACCESSIBLE AREAS SUCH AS WALK-IN PLUMBING CHASES, MECHANICAL ROOMS AND JANITOR CLOSETS. PROVIDE ACCESS PANELS FOR AREAS INACCESSIBLE.

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
---	COLD WATER LINE (CW)
---	HOT WATER RECIRC. (HWR)
CD	CONDENSATE DRAIN LINE
---	HOT WATER LINE (HW)
---	SANITARY WASTE LINE (SAN)
---	SANITARY VENT LINE (V)
AC	AIR CHAMBER
CV	CHECK VALVE
FCO	FLOOR CLEAN OUT
CO	WALL CLEAN OUT
GV	GATE VALVE
HB	HOSE BIBB WITH VACUUM BREAKER
VB	VALVE IN BOX
SBV	SHUT OFF BALL VALVE
VIV	GATE VALVE IN VERTICAL
PT	"P" TRAP
COOG	UNION CLEAN OUT ON GROUND ABOVE
ABV	UNION CLEAN OUT ON GROUND BELOW
BLW	UNION CLEAN OUT ON GROUND BELOW
CEIL. CLG.	CEILING
FL	FLOOR
F.U.	FIXTURE UNIT
(UG)	UNDERGROUND
V.T.R.	VENT THRU ROOF
VB	VACUUM BREAKER
TP	TRAP PRIMER
○	CONNECTION (NEW TO EXISTING)

MAXIMUM FLOW RATES & CONSUMPTION FOR
PLUMBING FIXTURES AND FIXTURE FITTINGS
TABLE 604.4 FBC 2014

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY
LAVATORY FAUCET	0.5 GPM @ 60 PSI
SHOWER HEAD	1.5 GPM @ 80 PSI
WATER CLOSET	1.28 GALLONS PER FLUSHING CYCLE
NOTE:	
1. ALL PLUMBING FIXTURES SHALL COMPLY WITH CHAPTER 4 OF FLORIDA PLUMBING CODE.	
2. ALL SHOWERS VALVES SHALL HAVE ANTI-SCALD PROTECTION.	

WATER HEATER SCHEDULE

SYMBOL	SERVICE	GAL. CAP.	RECOV. @ 50° RISE	ELECTRICAL REQUIREMENTS	MANUFACTURER/MODEL
EWH-1	BUILDING A	120	74 GPH	240 V. 1 PH 9 KW	A.O. SMITH MODEL DRE-120



PORT & MARINE SERVICES

201 William Street
Key West, FL 33040

ADDENDUM NO. 3

**DOCKMASTER / TRANSIENT RESTROOM BUILDING
CITY MARINA at GARRISON BIGHT
ITB #17-004**

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

GENERAL NOTES and CLARIFICATIONS:

The estimated project cost is \$1,300,000.00.

All other elements of the Contract and Bid documents, including the Bid Date shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 3** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signature

Name of Business



PORT & MARINE SERVICES

201 William Street
Key West, FL 33040

ADDENDUM NO. 4

DOCKMASTER / TRANSIENT RESTROOM BUILDING CITY MARINA at GARRISON BIGHT ITB #17-004

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

QUESTIONS and CLARIFICATIONS:

1. Drawing E-2 shows a ceiling fan in the Maintenance Shop but there is no fixture designation or description in the fixture schedule.

As indicated on ID-2, the ceiling fan is an 8' dia. Industrial fan. The basis of design or equal is a Grainger 9 blade ceiling fan. The bid should include all required accessories for a fully functional ceiling fan.

2. Drawing E-2 shows a 2 head emergency light but there is no fixture designation or description in the fixture schedule.

On E-4 the emergency exit lights are designated as either 'X' or 'X1'. Fixture designation and description are located on the fixture schedule.

3. Drawing E-1 Key Note #1 describes the secondary feeder for power to the building from Key Energy's power pole. There is not a definite location shown for this pole. Are we to provide an allowance for the footage?

The anticipated footage is approximately 75'-0". Contractor is to provide unit price for length exceeding this amount. Should more than 75'-0" be anticipated, contractor is to reflect added price in bid.

4. Type A- all fixtures have EM battery packs listed. Do they really want this? They have the Type E, 2 head EM packs also in the areas with the Type A.

Fixture 'A-1' has a battery pack listed not type 'A'. Also type 'E' fixture is only located in the Maintenance Shop. The designations of fixtures types on E-2 are not in error.

5. Type E- all should be wet location to match the intent of the other fixtures listed as wet location.

Type 'E' fixtures are not in a wet environment as they are located in the Maintenance Shop. Type 'D' are suitable for wet locations because these are the exterior surface mounted fixtures.

6. Type EX- ditto above for Type E.

There is no type 'EX' fixture for this project.

7. It appears that all fixtures should be wash down, since the facility is a public restroom. Please advise.

Fixtures should not be wash down type.

8. Will the construction site be a smoke free environment for FGBC requirements?

The site does not need to be smoke free. However, during construction the contractor needs to meet or exceed the minimum requirements recommended in Design Approaches of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guideline for Occupied Buildings under Construction, 1995. See attached FGBC guidelines and project checklist for requirements and points required for this project

9. Are Bacon Davis Wages applicable for this project?

No.

10. Is Certified Payroll required?

No.

11. The project states it is subject to the "Buy American Act". The wood decking (IPE) specifically cannot meet this requirement. Please provide direction on how to address specified items that cannot meet the Buy American Act.

It is the City's understanding that an exception can be granted for the use of IPE as it cannot be produced (grown) in the United States.

12. Is Flood Insurance required?

Refer to General Conditions Article 34, Section E.

13. Is a Flood Elevation Certificate available?

No.

14. Is Wind Insurance required?

Refer to General Conditions Article 34, Section E.

15. Supplementary Conditions of Part 3 Conditions of Contract (page 60) states "If the work is being done on or near a navigable waterway, Contractors Workers Compensation shall be endorsed

to provide USL&H Act...and Jones Act...coverage if specified by the City of Key West.” Will these coverages be required?

No.

16. What is the Wall Type for the exterior wall at the Maintenance Shop?

Wall Type 8 as defined on sheet A-2.

17. Fire Extinguishers not shown. Are Fire Extinguishers required?

Yes, refer to sheets A-2 and A-8.1 for locations and specifications.

18. Office 106 and 107 show acoustical ceiling and gypsum ceiling at varying heights (see ID 2). Are there bulkheads that need to be built to accommodate the different heights? Please clarify.

The sloping ceiling is to be 5/8” gyp. Painted and attached to underside of structure. The acoustic dropped panel is suspended from structure above and is at a level height of 10’-0”AFF. Attachment to structure should be per manufacturer’s specification. Bulkhead is not required.

19. Please provide a geotechnical report.

Geotechnical Report attached.

20. Contractor responsible for the temporary relocation of existing oil recycling containment center. And for the containment center’s final placement at its permanent location as determined by the Owner and Architect. Contractor to provide a 7’x12’x6” concrete slab with continuous 4” concrete curb at perimeter. All costs associated with this work to be included in Line Item #12 – Site Work.

21. Mandatory Pre-Bid Sign-In sheet attached.

SPECIFICATIONS:

Section 01010 – SCOPE OF WORK

1. Contractor to provide and maintain “two” (2) unisex ADA compliant portable toilets for the duration of the project. Toilets to be emptied a minimum of once weekly

DRAWINGS:

1. Remove and replace sheet ID3.1 with attached.

All other elements of the Contract and Bid documents, including the Bid Date shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 4** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signature

Name of Business

Florida Green Commercial Building Standard

Version 2: Revised 1/17/13

Final Project Application

Project Information

Project Name: _____
 Address: _____
 City & Zip: _____ County: _____
 Size (SF): _____
 Occupancy Type: _____
 New or Existing: _____ Website: _____

Designated Professional Contact Information

Name: _____
 Company: _____
 Address: _____
 City / Zip: _____
 Phone: _____
 Fax: _____
 E-mail: _____

Building Owner Contact Information

Total Fee Due: _____
 Deposit Paid: _____
 Amount Due: _____

For payment options, refer to the "Project Registration Form"
 Balance Due Must Be Submitted with Final Application.

Project Point Summary

Minimum Points to Qualify (may be over 100 if a category minimum is missed) 112 Please refer to Standards Documents and Green Commercial Reference Guide for additional information.

Category	Your Score	Required Min
Category 1: Project Management	1	0 Points
Category 2: Energy	18	30 Points
Category 3: Water	44	30 Points
Category 4: Site	29	10 Points
Category 5: Health	20	10 Points
Category 6: Materials	6	5 Points
Category 7: Disaster Mitigation	10	10 Points
Total:	128	
Total Needed:	112	

Certification Level Certified

To Qualify your project must

Certified	0 - 50	points over the projet's adjusted required minimum
Silver	51 - 100	points over the projet's adjusted required minimum
Gold	101 - 150	points over the projet's adjusted required minimum
Platinum	150 >	points over the projet's adjusted required minimum

Version 2: Revised 1/17/13

FINAL PROJECT POINTS				Project Summary
Current Project Score	128		Points Below Category Minimum	
Total Points Available	Final Points Achieved	12		
Category 1	9	1	0	Category 1: Project Management Points (Minimum Required Points: 0)
Prereq 1.1	R	Complete		Green Project Meeting
PM1	3	0		Building Information Modeling
PM2	5	0		Cost Benefit Analysis
PM3	1	1		Green Education
Category 2	144	18	12	Category 2: Energy Points (Minimum Required Points: 30)
Prereq 2.1	R			Owner Project Requirements (OPR)
Prereq 2.2	R			Basis of Design
Prereq 2.3	R			Testing and balancing of installed equipment
Prereq 2.4	R			Minimum Energy Performance
Prereq 2.5	R			Ozone Depletion Potential Management
E1	2	1		EPA Target Finder
E2	2	2		Portfolio Manager
E3	10	0		Commissioning
E4	70	8		Energy Performance Improvement
E5	2	0		Envelope Testing
E6	28	0		Renewable Energy Production
E7	4	0		Green Power
E8	4	1		Daylight Sensors
E9	4	1		Occupancy Sensors
E10	1	0		Interior Lighting
E11	5	5		Lighting Power Density
E12	2	0		Solar Study of Building
E13	10	0		Energy Monitoring Interface
Category 3	77	44	0	Category 3: Water Points (Minimum Required Points: 30)
Prereq 3.1	R			Water Use Reduction, acquire at least 3 points from Section W1 (i.e. any combination of W1.1 - W1.6)
Prereq 3.2	R	Complete		No Invasive (native or exotic) Plants
Prereq 3.3	R			Irrigation zones for turf and landscape beds are separate
Prereq 3.4	R			Rain shut off device installed CORRECTLY and operable
Prereq 3.5	R	Complete		Drought Tolerant Landscape, 25%
W1	15	10		Interior Water Use
W2	4	0		Greywater Reuse
W3	10	3		Rainwater Harvesting
W4	26	14		Installed Landscape
W5	7	2		Water Conservation Certifications
W6	15	15		Installed Irrigation
Category 4	75	29	0	Category 4: Site Points (Minimum Required Points: 10)
Prereq 4.1	R			Copy of Stormwater Pollution Prevention Plan (SWPPP) and Florida Department of Environmental Protection (FDEP)
S1	3	3		FDEP Professional
S2	22	16		Site Selection
S3	7	2		Site Enhancement
S4	9	0		Reduce Heat Islands - Hardscape
S5	4	4		Reduce Heat Islands - Roof
S6	4	0		Reduce Heat Islands - Building
S7	18	0		Stormwater
S8	4	4		Vehicular Transportation Alternatives
S9	4	0		Exterior Lighting (not attached to building)
Category 5	42	20	0	Category 5: Health (Minimum Required Points: 10)
Prereq 5.1	R			Environmental Tobacco Smoke (ETS) Control
Prereq 5.2	R			Indoor Air Quality (IAQ) Management Plan, During Construction
H1	14	1		Protect, Monitor, and Remediate Poor IAQ
H2	7	6		Low Emitting Materials
H3	8	4		System Controls
H4	13	9		Productive Work Environment
Category 6	39	6	0	Category 6: Materials (Minimum Required Points: 5)
Prereq 6.1	R			Storage & Collection of Recyclables
M1	21	2		Material Efficiency and Global Responsibility
M2	9	4		Waste Management
M3	9	0		Local/Regional Materials
Category 7	33	10	0	Category 7: Disaster Mitigation (Minimum Required Points: 10)
DM1	16	3		Hurricane Resistance
DM2	9	3		Pest Management
DM3	6	2		Flood
DM4	2	2		Fire Resistance

**REPORT OF
GEOTECHNICAL EXPLORATION**

**GARRISON BIGHT DOCK MASTER BUILDING
1801 NORTH ROOSEVELT BLVD.
KEY WEST, FLORIDA 33040**

FOR

**DOUGLAS N. HIGGINS, INC.
5707 COLLEGE ROAD
KEY WEST, FLORIDA 33040**

PREPARED BY

**NUTTING ENGINEERS OF FLORIDA, INC.
2051 NW 112TH AVENUE, SUITE 126
MIAMI, FLORIDA 33172**

PROJECT No. 1218.7

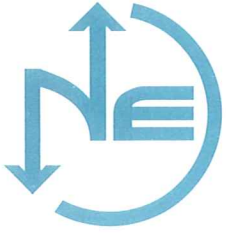
MAY 2015



*Geotechnical & Construction Materials
Engineering, Testing & Inspection
Environmental Services*

Offices throughout the state of Florida

www.nuttingengineers.com info@nuttingengineers.com



Nutting Engineers

of Florida Inc. | Established 1967

Your Project is Our Commitment

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Geotechnical and Construction Materials | Engineering, Testing and Inspections | Environmental Services

May 29, 2015

Mr. Otis May
Douglas N. Higgins, Inc.
5707 College Road
Key West, Florida 33040
Phone: (305) 292-7889
Cell: (305) 304-1021
Email: otism@dnhiggins.com

Subject: Report of Geotechnical Exploration
Garrison Bight Dock Master Building
1801 North Roosevelt Blvd.
Key West, Florida 33040

Dear Mr. May:

Nutting Engineers of Florida, Inc. (NE) has performed a geotechnical exploration for the proposed building at the above referenced site. The purpose of this exploration was to obtain information concerning the site and subsurface conditions at specific locations in order to provide site preparation and foundation design recommendations for support of the proposed construction. This report presents our findings and recommendations.

PROJECT INFORMATION

Based on our conversations and review of the site plans provided to us, we understand that a metal prefabricated building consisting of five conex containers will be installed at Garrison Bight. We anticipate that the proposed building will be elevated on columns four to five feet above existing grade; no additional fill will be used. Final elevations should be determined by a professional engineer or professional architect, or others. We note that if any of our understandings or assumptions are incorrect, we should be notified so that we may amend our recommendations accordingly.

OFFICES

Palm Beach

Miami-Dade

St. Lucie

GENERAL SUBSURFACE CONDITIONS

Subsurface Exploration

The exploration of subsurface conditions included site observation and Standard Penetration Test borings (ASTM D-1586). In order to explore the subsurface conditions at the site, two (2) Standard Penetration Test (SPT) borings were performed to a depth of twenty feet below the prevailing ground surface.

The locations of the test borings are indicated on the attached Test Boring Location Plan. Individual test boring reports are presented in the Appendix of this report. The boring locations were established in the field using approximate methods; namely, a measuring wheel and available surface controls.

Test Boring Results

The appended test boring logs present information and descriptions of the subsurface conditions as well as "N" values at each specific test boring location. The number of successive blows required to drive the sampler into the soil constitutes the test result commonly referred to as the "N" value. The "N" value has been empirically correlated with various soil properties and is considered to be indicative of the relative density of cohesionless soils and the consistency of cohesive soils.

In general, the test borings revealed a six inch layer of asphalt followed by loose to medium dense quartz fine silty sand and limestone fragments to depths of approximately six to fourteen feet underlain by very loose silt and limestone fragments to approximately fifteen feet. Below this depth, medium hard to hard limestone and quartz fine sand was observed to twenty feet, the maximum depth explored.

Representative samples collected from the SPT borings were visually reviewed in the laboratory by a geotechnical engineer to confirm the field classifications. A detailed description of the soil/rock profile is presented in the test boring records provided in the Appendix.

Groundwater Information

The immediate groundwater level was measured at the boring locations at the time of drilling. The groundwater level was encountered at a depth of approximately three and a half feet below the existing ground surface. The immediate depth to groundwater measurements presented in this report may not provide a reliable indication of stabilized or longer term depth to groundwater at this site. Water table elevations can vary dramatically with time through rainfall, droughts, storm events, flood control activities, nearby surface water bodies, tidal activity, pumping and many other factors. For these reasons, this immediate depth to water data **should not** be relied upon alone for project design considerations.

Further information regarding stabilized groundwater elevations at the site could be developed upon specific request. Additional evaluation might include monitoring of piezometers, survey of the project area for evidence of current groundwater elevation influences such as wellfields, obvious construction dewatering, tidal activity, flood control canals and other surface water bodies.

ANALYSIS AND RECOMMENDATIONS

The test borings performed for this project revealed loose to medium dense quartz fine silty sand and limestone fragments to depths of approximately six to fourteen feet below surface. Due to these said conditions and the loads imparted by the structure, it is our opinion that shallow foundations, along with the 16-inch diameter anchor piles discussed below, should provide sufficient support for the proposed construction, provided foundation criteria and site preparations are followed as discussed in this report.

We understand that the local Monroe County building code requires that shallow foundation systems must also include 16-inch auger piles installed to a minimum of three feet into the limestone formation. The foundation design and construction must be in accordance with the local building codes.

Foundation Design

Once the site preparation recommendations have been implemented as described in this report, the site may be developed with the proposed structure using conventional shallow foundations designed for an allowable bearing pressure of **3,000 pounds per square foot**.

The shallow foundations should be sized and reinforcement must be provided in accordance with the current Florida Building Code and other applicable standards.

In accordance with Monroe County Ordinance Section 9.5-316.2 (b), we recommend that 16-inch diameter augercast piles be socketed three (3) feet into the moderately to well cemented limestone which is at this site encountered approximately at depths in the range of approximately 11 to 15 feet below existing grade. Therefore the piles would need to be installed to an approximate depth of 14 to 18 feet below grade. Pile spacing and reinforcement should be determined and designed by the structural Engineer as required by the Florida Building Code; however, as a minimum it shall consist of four (4) #5 bars extending the entire pile length and shall be placed as required by the referenced Monroe County Ordinance.

Foundation Settlement

Shallow foundations designed and constructed in accordance with the recommendations of this report are estimated to sustain total settlement of less than approximately one inch. Settlement of the foundations will occur as an elastic response of the soil to the loads applied. In this case, nearly all of the settlement of the foundations due to dead loads is expected to take place during construction. The portion of the settlement due to the live load of the structure will generally take place soon after the first application of this load.

Differential settlement between adjacent foundations should be approximately half of an inch. Distortions that occur along the wall footings due to differential settlement should not be more than 1 in 500.

Floor Slab

It is our opinion that the floor slab system may be constructed as a slab on grade. We recommend that the procedures described under the "Site Preparation" section of this report be used to prepare the floor slab subgrades. Thickness of slab and adequate reinforcement must be designed by the Structural Engineer to resist all anticipated stresses and loads. We recommend that a vapor barrier be placed between the soil and concrete.

GENERAL INFORMATION

Prior to initiating compaction operations, we recommend that representative samples of the structural fill material to be used and acceptable in-place soils be collected and tested to determine their compaction and classification characteristics. The maximum dry density, optimum moisture content, gradation and plasticity characteristics should be determined. These tests are needed for compaction quality control of the structural fill and existing soils, and to determine if the fill material is acceptable.

A representative number of in-place field density tests should be performed in the compacted existing soils and in each lift of structural fill or backfill to confirm that the required degree of compaction has been obtained.

Vibratory compaction equipment will cause vibrations that will be felt by persons within adjacent buildings and could cause cosmetic damage to existing structures. The contractor should exercise due care during the performance of the vibratory compaction work. If such vibrations are not considered tolerable, then alternate foundation modification techniques such as a three feet undercut replacement method with small vibratory compactor or pressure grouting method should be considered.

Excavations of five feet or more in depth should be sloped or shored in accordance with OSHA and State of Florida requirements. Materials removed from any excavation should not be stockpiled immediately adjacent to the open excavation as this load may cause a sudden collapse of the sidewalls. The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom.

The assessment of the site environmental conditions or the presence of pollutants in the soil, rock or groundwater of the site is beyond the proposed scope of this exploration. If you desire, **Nutting Engineers of Florida, Inc.**, can perform an environmental assessment of the project site.

The installation of the pile system should be monitored by a full-time representative of Nutting Engineers to verify that the engineering intent is accomplished.



Changes in the submitted project details or the discovery of any site or varying subsurface conditions prior to and/or during construction which deviate from the data obtained in this exploration should be immediately reported to us so that the condition or change can be evaluated and appropriate action taken. We request the opportunity to review the final plans and specifications to assure that the intent of the recommendations of this report is properly interpreted and incorporated.

Our clients for this geotechnical evaluation were:


Douglas N. Higgins, Inc.
5707 College Road
Key West, Florida 33040

This report is prepared exclusively for the uses of client, other members of the design & construction team and governmental authorities for specific application to this project at the above referenced site. The conclusions provided by *Nutting Engineers of Florida, Inc.*, are based solely on the information presented in this report. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

The recommended construction phase inspection by the Geotechnical Engineer will provide continuity in the implementation and interpretation of the recommendations contained in this report. For this reason, we believe that this inspection service should be provided by *Nutting Engineers of Florida, Inc.* we would also like to offer our services for quality control testing and inspection of proposed construction, i.e. Augercast piles, foundation bearing surface, soils, concrete, steel and roofing materials.

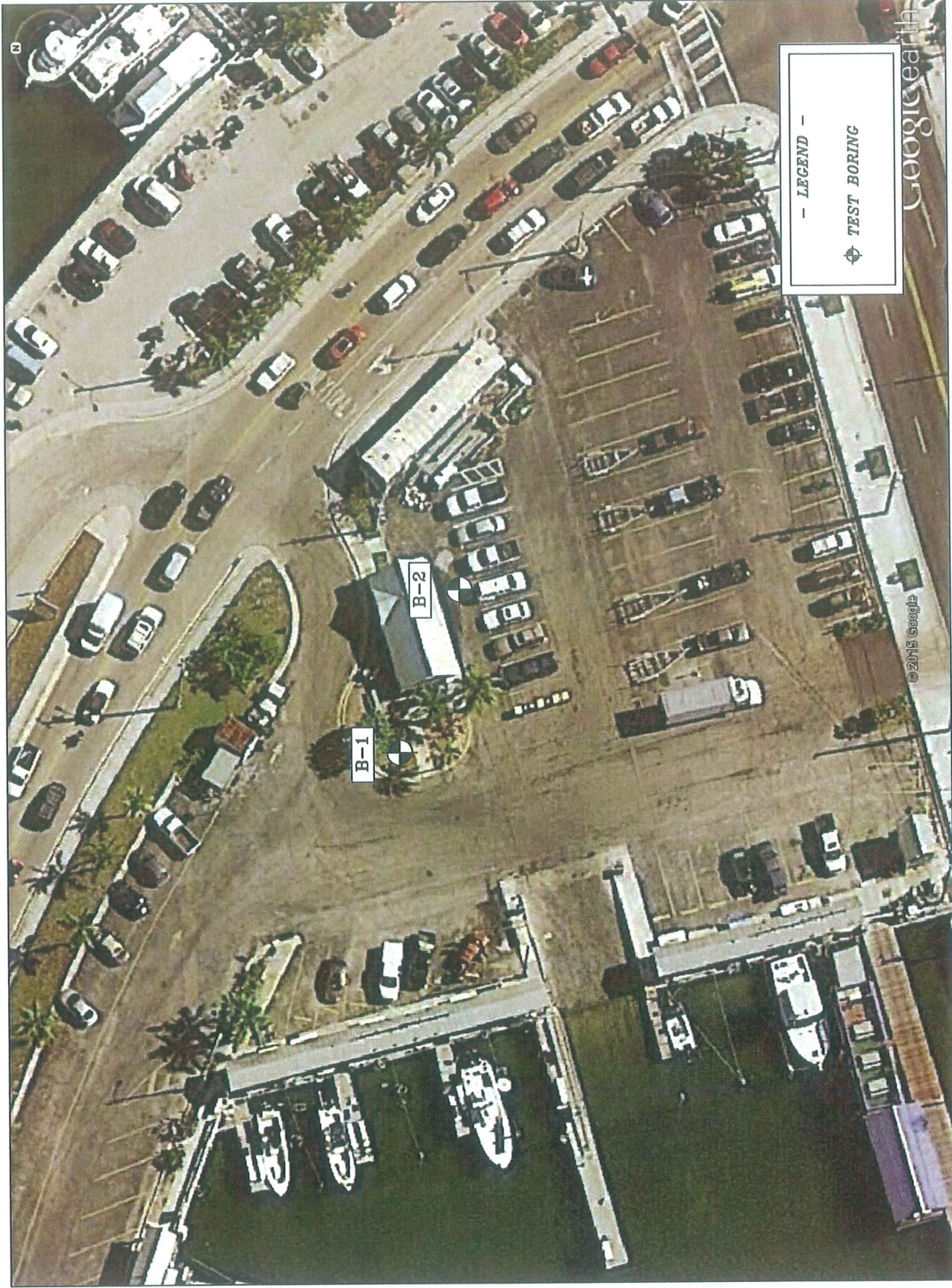
We appreciate the opportunity to provide these services for you and look forward to continuing our services for this project. If we can be of any further assistance with the design or construction services, or if you need additional information, please feel free to contact us at your convenience.

Sincerely,
NUTTING ENGINEERS OF FLORIDA, INC.


Paul C. Catledge, P.E. #68448
Senior Engineer

Attachments: Test Boring Location Plan
 Test Boring Reports
 Soil Classification Criteria
 Limitations of Liability





GARRISON BIGHT DOCK MASTER BUILDING
 1801 NORTH ROOSEVELT BLVD.
 KEY WEST, FL 33040

APPROXIMATE
 TEST LOCATIONS

NOT TO SCALE

FIGURE 1



1310 Neptune Drive
 Boynton Beach, FL., 33426
 Telephone: 561-736-4900
 Fax: 561-737-9975

BORING NUMBER B-1

PAGE 1 OF 1

PROJECT NUMBER 1218.7

CLIENT Douglas N. Higgins, Inc.

PROJECT NAME Garrison Bight Dock Master Building

PROJECT LOCATION 1801 North Roosevelt Blvd., Key West, FL 33040

DATE STARTED 4/27/15 COMPLETED 4/27/15 SURFACE ELEVATION REFERENCE Same as road crown

DRILLING METHOD Standard Penetration Boring GROUND WATER LEVELS:

LOGGED BY D. Tyson CHECKED BY P. Catledge ∇ AT TIME OF DRILLING 3.5 ft

APPROXIMATE LOCATION OF BORING As Shown on Site Plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲			
						10	20	30	40
						PL — MC — LL 20 40 60 80			
						□ FINES CONTENT (%) □			
						20 40 60 80			
0		8-inch ASPHALT							
		Lt. tan LIMESTONE and slightly SILTY SAND	SS 1	10-9-9	18		▲		
		Lt. tan fine SILTY SAND							
		∇ Gray fine SILTY SAND and pieces of wood	SS 2	10-7-6-6	13		▲		
5			SS 3	4-4-4-4	8		▲		
		Lt. tan LIMESTONE FRAGMENTS and fine slightly SILTY SAND	SS 4	1-2-3-2	5		▲		
			SS 5	2-2-2-1	4		▲		
10		Lt. gray SILT							
		Lt. tan LIMESTONE and fine SAND	SS 6	1-1-2-3	3		▲		
			SS 7	7-8-10	18			▲	
15									
			SS 8	12-14-15	29				▲
20		Bottom of hole at 20.0 feet.							

TEST NUTTING BOREHOLE 2-1218.7 DOUGLAS N. HIGGINS, INC. - GARRISON BIGHT DOCK MASTER BUILDING.GPJ GINT US.GDT 5/29/15



1310 Neptune Drive
 Boynton Beach, FL, 33426
 Telephone: 561-736-4900
 Fax: 561-737-9975

BORING NUMBER B-2

PAGE 1 OF 1

PROJECT NUMBER 1218.7

CLIENT Douglas N. Higgins, Inc.

PROJECT NAME Garrison Bight Dock Master Building

PROJECT LOCATION 1801 North Roosevelt Blvd., Key West, FL 33040

DATE STARTED 4/27/15 COMPLETED 4/27/15 SURFACE ELEVATION REFERENCE Same as road crown

DRILLING METHOD Standard Penetration Boring GROUND WATER LEVELS:

LOGGED BY D. Tyson CHECKED BY P. Catledge ∇ AT TIME OF DRILLING 3.5 ft ft

APPROXIMATE LOCATION OF BORING As Shown on Site Plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲			
						10	20	30	40
						PL — MC — LL 20 40 60 80			
						□ FINES CONTENT (%) □			
						20 40 60 80			
0		4-inch TOPSOIL							
		Lt. tan to gray fine slightly SILTY SAND and LIMESTONE FRAGMENTS	SS 1	1-3-3-5	6	▲			
			SS 2	4-4-4-4	8	▲			
5			SS 3	2-3-3-4	6	▲			
		Brown SILT and LIMESTONE FRAGMENTS	SS 4	5-4-2-2	6	▲			
			SS 5	3-2-1-1	3	▲			
10			SS 6	2-2-1-1	3	▲			
15			SS 7	1-2-2	4	▲			
		Lt. tan LIMESTONE, some fine sand							
			SS 8	16-19-21	40				▲
20		Bottom of hole at 20.0 feet.							

TEST NUTTING BOREHOLE - 2-1218.7 DOUGLAS N. HIGGINS, INC. - GARRISON BIGHT DOCK MASTER BUILDING.GPJ GINT US.GDT 5/29/15

SOIL AND ROCK CLASSIFICATION CRITERIA

SAND/SILT

N-VALUE (bpf)	RELATIVE DENSITY
0 – 4	Very Loose
5 – 10	Loose
11 – 29	Medium
30 – 49	Dense
>50	Very dense
100	Refusal

CLAY/SILTY CLAY

N-VALUE (bpf)	UNCONFINED COMP. STRENGTH (tsf)	CONSISTENCY
<2	<0.25	v. Soft
2 – 4	0.25 – 0.50	Soft
5 – 8	0.50 – 1.00	Medium
9 – 15	1.00 – 2.00	Soft
16 – 30	2.00 – 4.00	v. Stiff
>30	>4.00	Hard

ROCK

N-VALUE (bpf)	RELATIVE HARDNESS	ROCK CHARACTERISTICS
$N \geq 100$	Hard to v. hard	Local rock formations vary in hardness from soft to very hard within short vertical and horizontal distances and often contain vertical solution holes of 3 to 36 inch diameter to varying depths and horizontal solution features. Rock may be brittle to split spoon impact, but more resistant to excavation.
$25 \leq N \leq 100$	Medium hard to hard	
$5 \leq N \leq 25$	Soft to medium hard	

PARTICLE SIZE

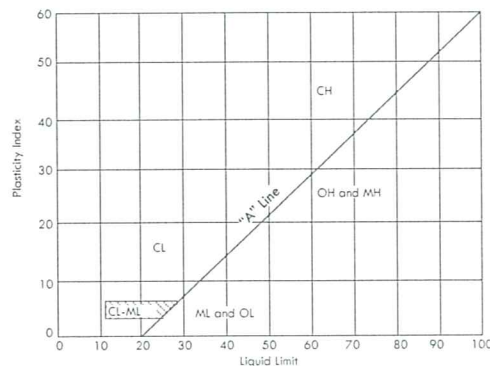
Boulder	>12 in.
Cobble	3 to 12 in.
Gravel	4.76 mm to 3 in.
Sand	0.074 mm to 4.76 mm
Silt	0.005 mm to 0.074 mm
Clay	<0.005 mm

DESCRIPTION MODIFIERS

0 – 5%	Slight trace
6 – 10%	Trace
11 – 20%	Little
21 – 35%	Some
>35%	And

Major Divisions		Group Symbols	Typical names	Laboratory classification criteria	
Coarse-grained soils (More than half of material is larger than No. 200 sieve size)	Gravels (More than half of coarse fraction is larger than No. 4 sieve size)	Clean gravels (Little or no fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_z = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3 Not meeting all gradation requirements for GW Atterberg limits below "A" line or P.I. less than 4 Atterberg limits above "A" line with P.I. greater than 7 $C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_z = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3 Not meeting all gradation requirements for SW Atterberg limits below "A" line or P.I. less than 4 Atterberg limits above "A" line with P.I. more than 7 Limits plotting in hatched zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
			GP	Poorly graded gravels, gravel-sand mixtures, little or no fines	
		Gravels with fines (Appreciable amount of fines)	GW*	$\begin{matrix} d \\ u \end{matrix}$ Silty gravels, gravel-sand-silt mixtures	
			GC	Clayey gravels, gravel-sand-clay mixtures	
		Sands (More than half of coarse fraction is smaller than No. 4 sieve size)	Clean sands (Little or no fines)	SW	
	SP			Poorly graded sands, gravelly sands, little or no fines	
	Sands with fines (Appreciable amount of fines)		SM*	$\begin{matrix} d \\ u \end{matrix}$ Silty sands, sand-silt mixtures	
			SC	Clayey sands, sand-clay mixtures	
	Fine-grained soils (More than half of material is smaller than No. 200 sieve size)		Silt and clays (Liquid limit less than 50)	ML	
		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy, clays, silty clays, lean clays	
OL		Organic silts and organic silty clays of low plasticity			
Silt and clays (Liquid limit greater than 50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
		CH	Inorganic clays or high plasticity, fat clays		
		OH	Organic clays of medium to high plasticity, organic silts		
Highly organic soils		PT	Peat and other highly organic soils		

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:
 Less than five percent.....GW, GP, SW, SP
 More than 12 percent.....GM, GC, SM, SC
 5 to 12 percent.....Borderline cases requiring dual systems**



Plasticity Chart

LIMITATIONS OF LIABILITY

WARRANTY

We warrant that the services performed by Nutting Engineers of Florida, Inc. are conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession in our area currently practicing under similar conditions at the time our services were performed. **No other warranties, expressed or implied, are made.** While the services of Nutting Engineers of Florida, Inc. are a valuable and integral part of the design and construction teams, we do not warrant, guarantee or insure the quality, completeness, or satisfactory performance of designs, construction plans, specifications we have not prepared, nor the ultimate performance of building site materials or assembly/construction.

SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings; test pits are sometimes employed. The method of determining the boring location and the surface elevation at the boring is noted in the report. This information is represented in the soil boring logs and/or a drawing. The location and elevation of the borings should be considered accurate only to the degree inherent with the method used and may be approximate.

The soil boring log includes sampling information, description of the materials recovered, approximate depths of boundaries between soil and rock strata as encountered and immediate depth to water data. The log represents conditions recorded specifically at the location where and when the boring was made. Site conditions may vary through time as will subsurface conditions. The boundaries between different soil strata as encountered are indicated at specific depths; however, these depths are in fact approximate and dependent upon the frequency of sampling, nature and consistency of the respective strata. Substantial variation between soil borings may commonly exist in subsurface conditions. Water level readings are made at the time and under conditions stated on the boring logs. Water levels change with time, precipitation, canal level, local well drawdown and other factors. Water level data provided on soil boring logs shall not be relied upon for groundwater based design or construction considerations.

LABORATORY AND FIELD TESTS

Tests are performed in *general* accordance with specific ASTM Standards unless otherwise indicated. All criteria included in a given ASTM Standard are not always required and performed. Each test boring report indicates the measurements and data developed at each specific test location.

ANALYSIS AND RECOMMENDATIONS

The geotechnical report is prepared primarily to aid in the design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it shall not be utilized to determine the cost of construction nor to stand alone as a construction specification. Contractors shall verify subsurface conditions as may be appropriate prior to undertaking subsurface work.

Report recommendations are based primarily on data from test borings made at the locations shown on the test boring reports. Soil variations commonly exist between boring locations. Such variations may not become evident until construction. Test pits sometimes provide valuable supplemental information that derived from soil borings. If variations are then noted, the geotechnical engineer shall be contacted in writing immediately so that field conditions can be examined and recommendations revised if necessary.

The geotechnical report states our understanding as to the location, dimensions and structural features proposed for the site. **Any significant changes of the site improvements or site conditions must be communicated in writing to the geotechnical engineer immediately** so that the geotechnical analysis, conclusions, and recommendations can be reviewed and appropriately adjusted as necessary.

CONSTRUCTION OBSERVATION

Construction observation and testing is an important element of geotechnical services. The geotechnical engineer's field representative (G.E.F.R.) is the "owner's representative" observing the work of the contractor, performing tests and reporting data from such tests and observations. **The geotechnical engineer's field representative does not direct the contractor's construction means, methods, operations or personnel.** The G.E.F.R. does not interfere with the relationship between the owner and the contractor and, except as an observer, does not become a substitute owner on site. The G.E.F.R. is responsible for his/her safety, but has no responsibility for the safety of other personnel at the site. The G.E.F.R. is an important member of a team whose responsibility is to observe and test the work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications. The enclosed report may be relied upon solely by the named client.

DOCKMASTER/TRANSIENT RESTROOM BUILDING

City Marina @ Garrison Bight

ITB #17-004

Mandatory Pre-Bid Meeting SIGN-IN Sheet

February 28, 2017

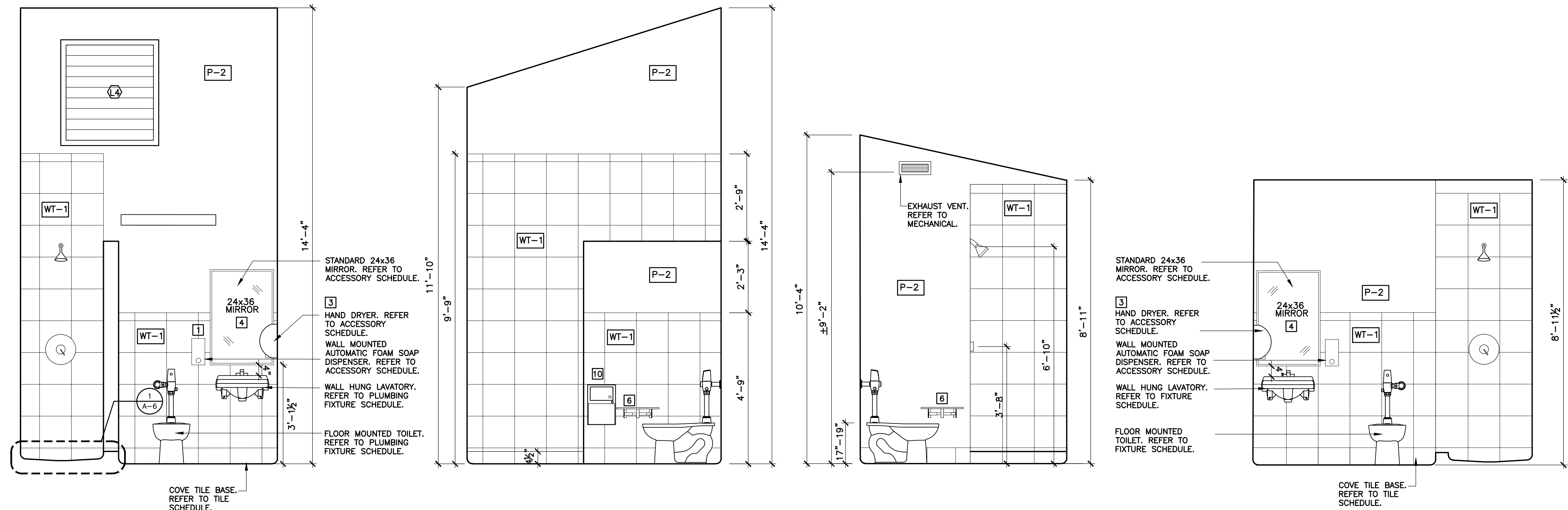
2:30 PM

NAME / COMPANY

CONTACT #

EMAIL

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Anthony Gaivan Charley	Toppino & Sons	305-296-5600	anthony.g@toppkw.com
Will Campbell	Bella Construction	305-927-8330	will@CONCRETEBELLA.COM
Paul Waters	Douglas W. Higgins	305-797-1019	Paulw@dahiggins.co
MIKE McWEENY	ABC CONST.	305-267-2370	MIKE@ABCCONSTRUCTION.CC
Robert Blanchard	D.L. Porter	941-929-9400	mwhite@dlporter.com
Kristen Argelas	W.P. Horn	305-296-0302	kristenwphorn@aol.com
David Hawthorne	305-809-3982	D Hawthorne	City of Key West - Fla
KOPEN OLSON	305-809-3803	KOLSON@CITYOFKEYWEST-FL.GOV	
Doug Bradshaw	305-809-3792	dbradshaw@	" " " "



1 BATH #2 - ROOM 120
D-3 SIMILAR - ROOM 121
SCALE: 1/2" = 1'-0"

2 BATH #4 - ROOM 120
D-3 OPPOSITE HAND - ROOM 121
SCALE: 1/2" = 1'-0"

3 BATH #3 - ROOM 118
D-3
SCALE: 1/2" = 1'-0"

4 BATH #3 - ROOM 118
D-3
SCALE: 1/2" = 1'-0"

FINISH SCHEDULE									
ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS				
101 ENTRY DECK									20.5±
102 PORCH									VARIABLES 16'-2"± MAX. CEILING HEIGHT
103 DOCK MASTER LOBBY									10.0±
104 H.C. WOMEN									VARIABLES 11'-11"± MAX. CEILING HEIGHT
105 H.C. MAN									VARIABLES 11'-11"± MAX. CEILING HEIGHT
106 OFFICE D.M.									VARIABLES 15'-5"± MAX. CEILING HEIGHT
107 OFFICE									VARIABLES 15'-5"± MAX. CEILING HEIGHT
108 HALL #1									9.0±
109 TOILET									9.0±
110 RECEPTION COUNTER									10.0±
111 STORAGE COPY									9.0±
112 HALL #2									9.0±
113 FORESTRY OFFICE									9.0±
114 KITCHEN									9.0±
115 MAINTENANCE SHOP									VARIABLES
116 H.C. BATH #1									VARIABLES SHOWER ROOM SOFFIT AT 7'-8"±
117 LAUNDRY									VARIABLES 12'-6"± MAX. CEILING HEIGHT
118 BATH #3									VARIABLES SHOWER ROOM SOFFIT AT 7'-8"±
119 HALL #3									VARIABLES
120 BATH #2									VARIABLES SHOWER ROOM SOFFIT AT 7'-8"±
121 BATH #4									VARIABLES SHOWER ROOM SOFFIT AT 7'-8"±

NOTE: PORCELAIN TILE SELECTIONS: REFER TO ID-1
WD-1 WOOD DECKING: 5/4x6 STANDARD IPE WOOD
P-1 WALL PAINT: SHERWIN WILLIAMS OR EQUAL - BISCUIT SW6112. USED IN CONDITIONED SPACES AND MAINTENANCE SHOP
P-2 WALL PAINT: SHERWIN WILLIAMS OR EQUAL - CREAMERY SW6356. USED IN NON-CONDITIONED BATHROOMS & LAUNDRY
P-3 CEILING PAINT: WHITE - BASIS OF DESIGN OR EQUAL SHERWIN WILLIAMS. REFER TO SPECIFICATIONS.

ACCESSORY SCHEDULE						
NO.	DESCRIPTION	LOCATION	BASIS OF DESIGN	SIZE	MATERIAL	FINISH
01	AUTOMATIC WALL-MOUNTED FOAM SOAP DISPENSER	104, 105, 109, 116, 118, 120, 121,	BOBRICK: B-2013 CLASSIC SERIES	CAPACITY OF 27-FL OZ. 4 1/2" W, 10 1/2" H, 4 3/4" D	STAINLESS STEEL	SATIN
02	ADA COMPLIANT HAND DRYER AND ADA-COMPLIANT RECESS KIT	104, 105, 109, 116,	XLERATOR XL-SB, 40502	HAND DRYER DIM: 11 3/4" W, 12 3/8" H, 6 3/8" D RECESS KIT DIM: 16 3/8" W, 26" H, 3 3/8" D	STAINLESS STEEL	BRUSHED
03	HAND DRYER	118, 120, 121	XLERATOR XL-SB, 40502	HAND DRYER DIM: 11 3/4" W, 12 3/8" H, 6 3/8" D	STAINLESS STEEL	BRUSHED
04	INTER-LOK STAINLESS STEEL FRAMED MIRROR	118, 120, 121	AMERICAN SPECIALTIES 0600	UNITS ARE SUPPLIED WITH 1/4" THICK PLATE GLASS	STAINLESS STEEL	SATIN
05	FIXED ANGLE TILT MIRROR	104, 105, 109, 116 (H.C.)	AMERICAN SPECIALTIES 0535-2436	24" W X 36" H FOR COMPLIANCE WITH ADA ACCESSIBILITY GUIDELINES, BOTTOM OF REFLECTING SURFACE SHOULD BE INSTALLED 40"	STAINLESS STEEL	SATIN
06	ADA COMPLIANT SURFACE-MOUNTED TOILET TISSUE DISPENSER AND UTILITY SHELF	104, 105, 109, 116, 118, 120, 121	BOBRICK B-2840 CLASSIC SERIES	HOLDS TWO ROLLS 16" W, 3 7/8" H, 5" MIN DEPTH	STAINLESS STEEL	SATIN
07	FOLDING SHOWER SEAT	116	AMERICAN SPECIALTIES 8206 - L, R	MEETS ADA. SEAT IS 1/2" THICK, ONE SEAT 33" W, 22 7/8" FROM WALL	SOLID PHENOLIC, FRAME, SUPPORT LEGS, FLANGES, AND BRACKET - STAINLESS STEEL	SATIN
08	CLOTHES/TOWEL HOOK STRIP - FRONT MOUNTING	116, 118, 120, 121	AMERICAN SPECIALTIES 129	MEETS ADA. DIM: 18" W, 5 1/2" H, 3 3/8" DEPTH	STAINLESS STEEL	SATIN
09	EXTRA-HEAVY DUTY SHOWER CURTAIN ROD	116, 118	AMERICAN SPECIALTIES 1204	1-1/4" DIA	STAINLESS STEEL	SATIN
10	WALL MOUNTED SANITARY NAPKIN DISPOSAL	104, 105, 109, 116	BOBRICK: B-254 CLASSIC SERIES	10 3/8" W, 15" H, 4" MIN DEPTH	STAINLESS STEEL	SATIN
11						

NOTE: ACCESSORY NOTE: CONTRACTOR TO PROVIDE LISTED BASIS OF DESIGN OR PROVIDE EQUAL IN PERFORMANCE AND FINISH.

LOW EMITTING MATERIALS SEE FGBC REFERENCE GUIDE BOUND IN THE SPECIFICATIONS

ALL ADHESIVES, SEALANTS AND COATINGS USED IN THE PROJECT SHALL BE LOW VOC AND MEET THE LIMITS BELOW ESTABLISHED BY THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE #1168 AND ALL SEALANTS USED AS FILLERS MUST MEET THE REQUIREMENTS OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 8, RULE 51.

VOLATILE ORGANIC COMPOUND (VOC) LIMITS (GRAMS PER LITER) LESS WATER AND LESS EXEMPT COMPOUNDS

ADHESIVES AND SEALANTS

Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet Adhesives	150
Wood Flooring Adhesive	100
Rubber Floor Adhesives	60
Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Single Ply Roof Membrane Adhesives	250

CONTRACTOR SHALL MAINTAIN AND MAKE AVAILABLE MATERIAL SAFETY DATA SHEETS OR ACCEPTABLE DOCUMENTATION HIGHLIGHTING THE STATED VOC EMISSIONS FOR EACH ADHESIVE, SEALANT, PAINT AND COATING USED IN THE BUILDING.

SEAL

THESE DRAWINGS MAY NOT BE REPRODUCED WITHOUT WRITTEN AUTHORIZATION BY WILLIAM P. HORN

DATE
02-14-13 D.R.C.
05-14-13 PL. BD.
01-12-16 PL. BD.
01-31-17 BID SET
03-08-17 ADDENDUM #4

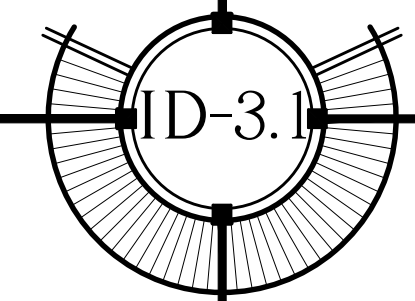
REVISIONS

DRAWN BY

KMA
EMA

PROJECT NUMBER

1215





PORT & MARINE SERVICES

201 William Street
Key West, FL 33040

ADDENDUM NO. 5

**DOCKMASTER / TRANSIENT RESTROOM BUILDING
CITY MARINA at GARRISON BIGHT
ITB #17-004**

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

DRAWINGS:

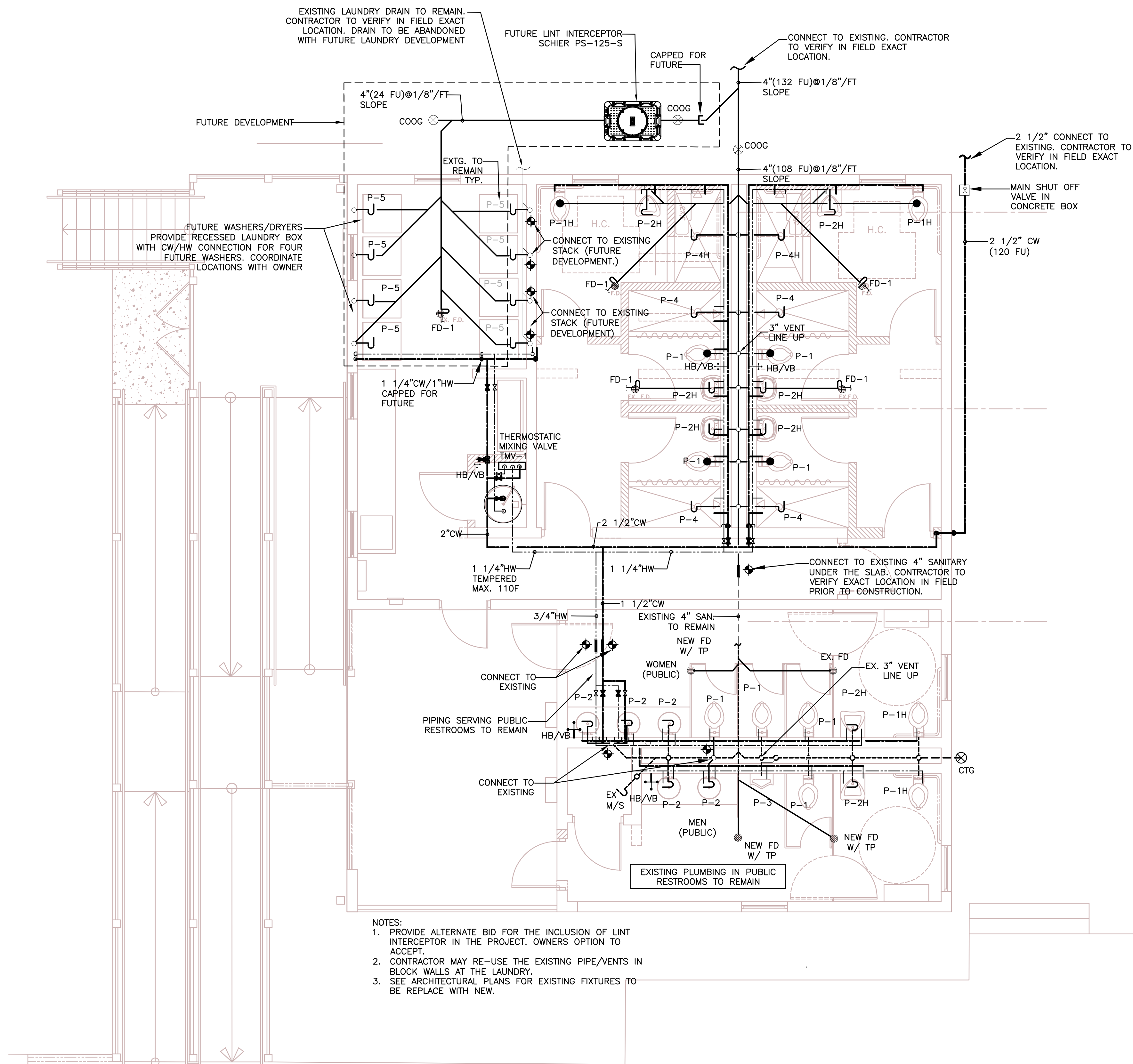
1. Remove and replace sheet P-2 with attached.
2. Remove and replace sheet P-4 with attached.

All other elements of the Contract and Bid documents, including the Bid Date shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 5** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signature

Name of Business



SEAL

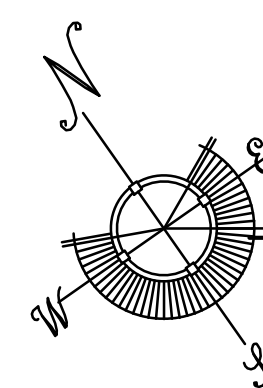
DATE
02-29-16 HARC
01-31-17 BID SET
03-10-17 REV. SHEET

REVISIONS

DRAWN BY
KMA EVK

PROJECT NUMBER
1408

Innovative Engineering
Group Inc. CA#6717
2500 NW 79th Ave., #240
Doral, FL 33122
305-468-1783
Sudhir K. Gupta, P.E.
Fla. Reg. No. 29189

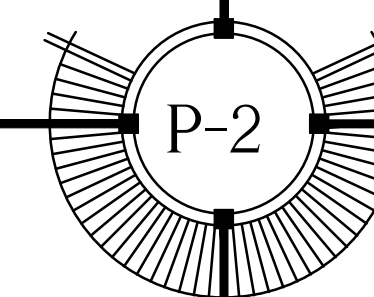


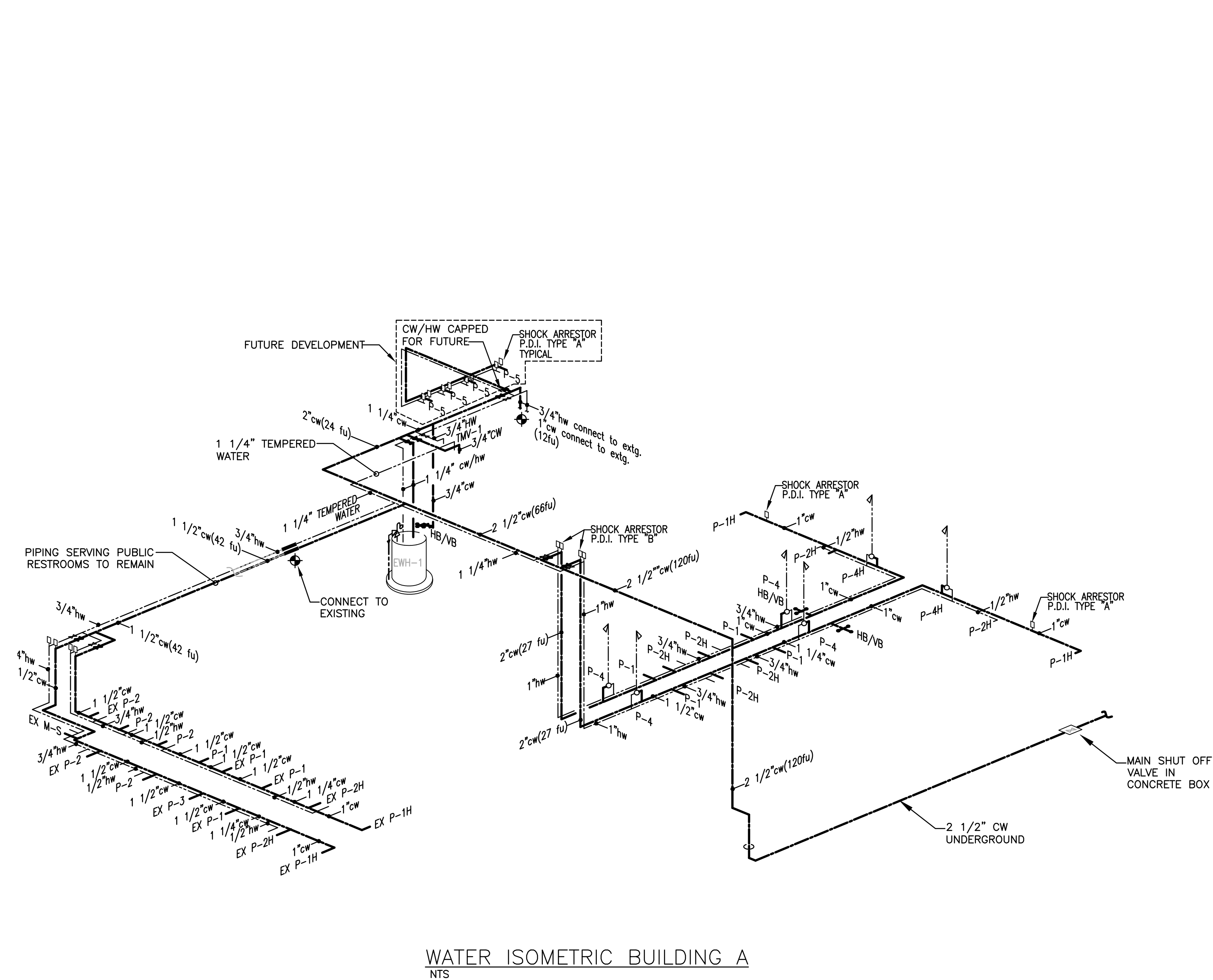
PLUMBING FLOOR PLAN - BUILDING 'A'

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

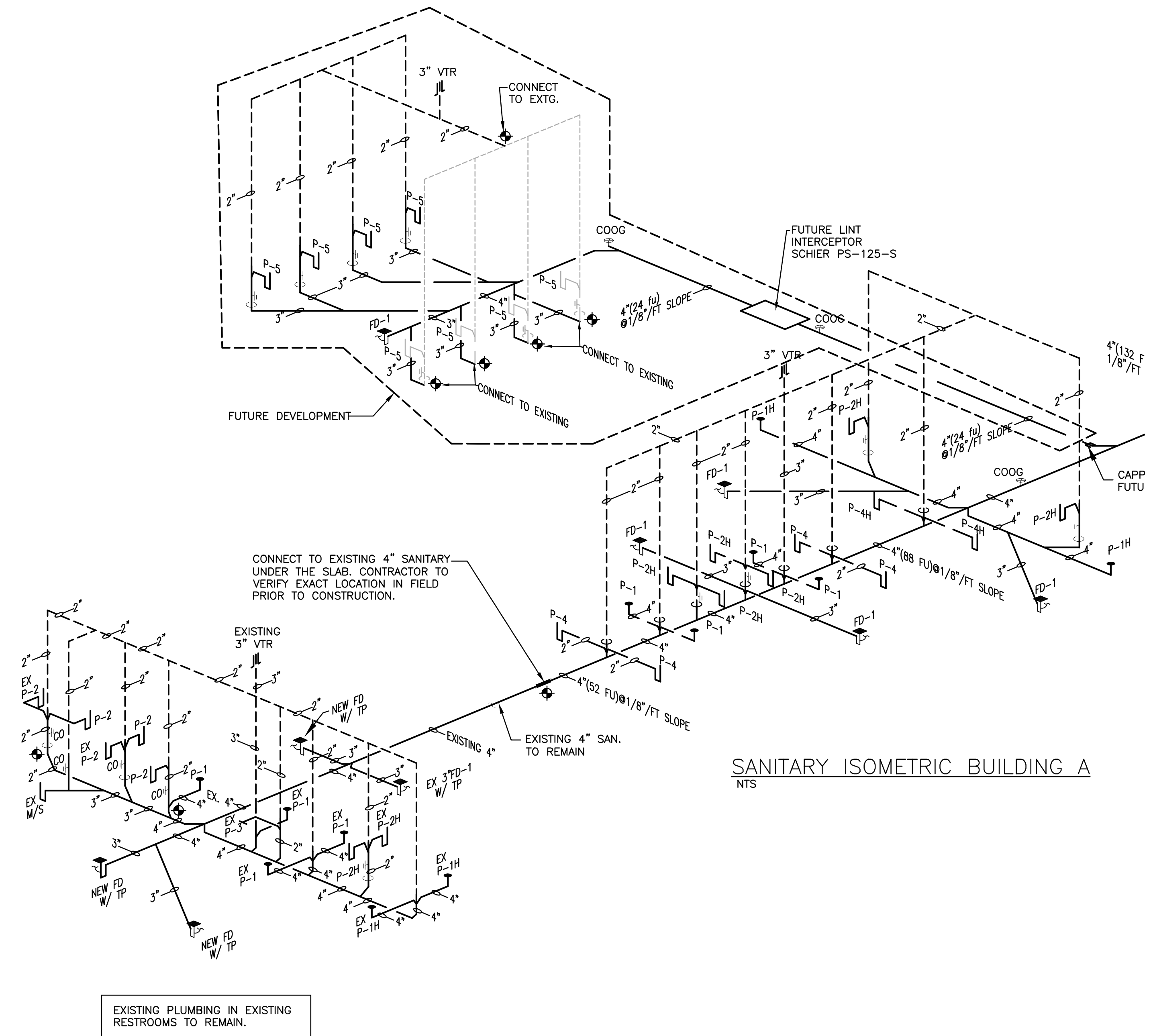
KEY WEST HISTORIC SEAPORT PUBLIC TOILET FACILITY

KEY WEST, FLORIDA





WATER ISOMETRIC BUILDING A
NTS

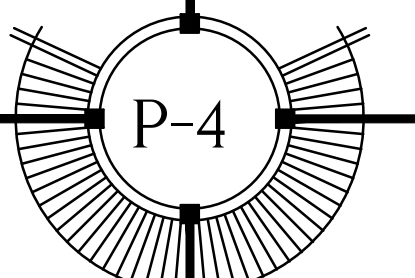


SANITARY ISOMETRIC BUILDING A
NTS

PLUMBING RISERS DIAGRAM – BUILDING 'A'

SCALE: NTS

Innovative Engineering
Group Inc. CA#6717
2500 NW 79th Ave., #240
Doral, FL 33122
305-468-1783
Sudhir K. Gupta, P.E.
Fla. Reg. No. 29189





PORT & MARINE SERVICES

201 William Street
Key West, FL 33040

ADDENDUM NO. 6

**DOCKMASTER / TRANSIENT RESTROOM BUILDING
CITY MARINA at GARRISON BIGHT
ITB #17-004**

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

CLARIFICATION

1. Delete Addendum #5 in its entirety.

All other elements of the Contract and Bid documents, including the Bid Date shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 6** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signature

Name of Business