THE CITY OF KEY WEST
Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3883

ADDENDUM NO. 1

Smathers Beach Restrooms – West ITB 19-018

This addendum is issued as supplemental information to the bid package for clarification of certain matters of both a general and a technical nature. The referenced Invitation to Bid (ITB) package is hereby amended in accordance with the following items:

Attachments:

1) ***Responses by the Architect for questions received during the bid period phase***
2) ***Construction Drawings (several bidders reported the drawings were not legible)***

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

_____ _____

Signature Name of Business

Smathers Beach Bathroom West

City of Key West
Purchase Order: 088493
(Dated 12-20-2018)
Artibus Design Task Order #1803

Response to RFI #1.

1. Sheet C-102 shows 52.2' from the Mean High Water Line to the Southwest Corner of the structure. The 11" thick 5'-0" wide Permanent Concrete Sidewalk is part of the Bathroom Foundation. Is the south sidewalk required to be outside of the Coastal Construction Line? If not, what about the 2'-0" Roof Overhang?

Response: According to our coordination with CCCL permitting office the building does not need a CCCL permit as designed. The installation of sidewalks and other minor structures with that line will require a field permit and is being coordinated by the design team.

2. Sheet C-102 Note #2 reads "Any New Sand used for Grading shall be Clean Sand Suitable for Turtle Nesting and Approved by FWC." Please specify the type of sand required.

Response: The City shall provide sand specifications from previous beach re-nourishment projects. Sand shall be mined beach sand (not manufactured).

3. Sheet A-101 includes "Add Alternate Bid Items" however the Proposal Form does NOT include any alternates. Please clarify.

Response: City to provide an updated form with Add Alternate Bid Items.

4. Sheet A-102 shows a reveal between the 2'-0" tall Textured Wall and Smooth Stuccoed Exterior Walls. Please indicate how much stucco reveal?

Response: 1/2" reveal.

5. Sheet S-100 Submittal Note #1 shows "5 Original Submittals..." Is this correct?

Response: Correct.

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(305) 304-3512
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WWW.ARTIBUSDESIGN.COM

6. Sheet S-101 reads "16" diameter Auger Piles..., 15' Embedment Below Grade of Adjacent Sidewalk (Location of the Bore)". Please clarify the exact location of this boring. Is this sidewalk location on the right of way or is this the sidewalk within the Beach Area?

Response: Please use grade of the sidewalk located in public right of way along S Roosevelt Blvd.

7. Sheet S-101 shows a 4'-0" wide Concrete Sidewalk along the East and South Sides. The 5'-0" wide Sidewalk along the West runs to the Northwest Corner. Sheet C-102 shows a 5'-0" wide Sidewalk along the South. Additionally, the West Sidewalk terminates at the Break-Away Sidewalk (not at the Northwest Corner). Please clarify.

Response: South and west sidewalks adjacent to the building shall be 5.0' and east sidewalk leading to maintenance access door shall be 4.0' wide. Site plan layout C-102 shall be used for site layout.

8. Sheet S-104 shows a "2x4 Key Way Under All Exterior Walls". Will an Embedded Water Stop be Required? If so, please specify.

Response: Water Stop is not required.

9. Sheet E-101 reads "All Electrcial Components Shall be Located 12" Above Base Flood Elevation" (EL + 12.0 NGVD). However, Sheet A-104 shows the maximum distance above Finished Floor is 46". Finished Floor is +7.08 + 46" = EL +10.91. Please clarify.

Response: Hand dryers shall be considered sacrificial equipment and located as indicated on the plans and per current ADA requirements. All other equipment shall be located 12" above base flood elevation.

10. How will we route the Supply Line to the Outdoor Showers? Can these copper lines be Surface Mounted on the Exterior of the Building?

Response: No lines shall be mounted on the outside of the building. OK to surface mount on the interior (drop from ceiling run).

11. Will the Outdoor Showers require a Drain? If so, please specify.

Response: No drains are required for outdoor showers.

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CONSTRUCTION PLANS
FOR
SMATHERS BEACH BATHROOM WEST

SITE LOCATION

LOCATION MAP:

CITY OF KEY WEST
PURCHASE ORDER: 088493
(DATED 12-20-2018)
ARTIBUS DESIGN TASK ORDER #1803

PROJECT LOCATION:
1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE:

DATE:

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

ARTIBUS DESIGN
ENGINEERING AND PLANNING

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CA # 30835

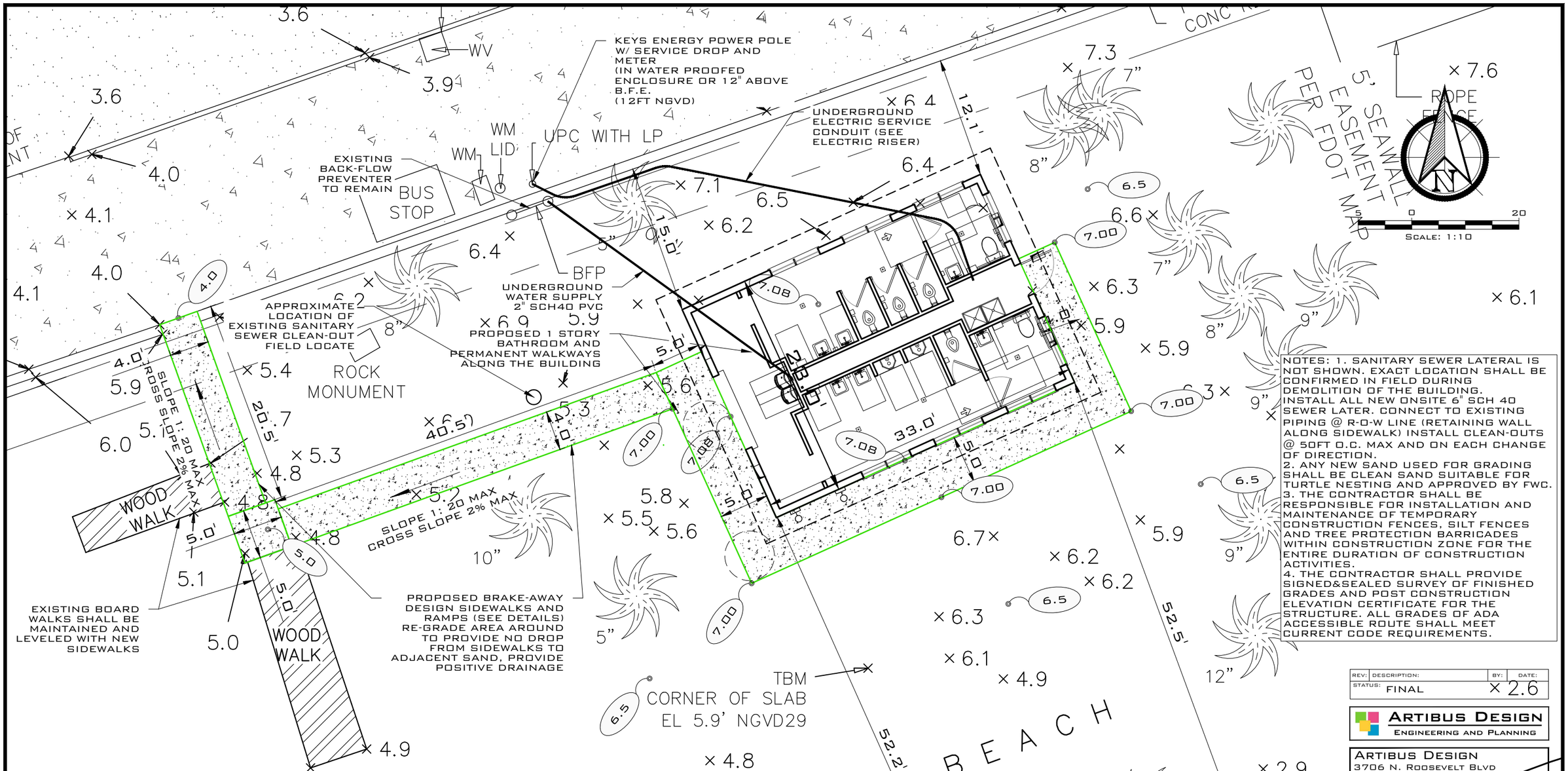
CLIENT: CITY OF KEY WEST
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
BATHROOM WEST

SITE: 1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: COVER

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1902-05	G-100		1



NOTES: 1. SANITARY SEWER LATERAL IS NOT SHOWN. EXACT LOCATION SHALL BE CONFIRMED IN FIELD DURING DEMOLITION OF THE BUILDING. INSTALL ALL NEW ONSITE 6" SCH 40 SEWER LATER. CONNECT TO EXISTING PIPING @ R-O-W LINE (RETAINING WALL ALONG SIDEWALK) INSTALL CLEAN-OUTS @ 50FT O.C. MAX AND ON EACH CHANGE OF DIRECTION.
2. ANY NEW SAND USED FOR GRADING SHALL BE CLEAN SAND SUITABLE FOR TURTLE NESTING AND APPROVED BY FWC.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF TEMPORARY CONSTRUCTION FENCES, SILT FENCES AND TREE PROTECTION BARRICADES WITHIN CONSTRUCTION ZONE FOR THE ENTIRE DURATION OF CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL PROVIDE SIGNED&SEALED SURVEY OF FINISHED GRADES AND POST CONSTRUCTION ELEVATION CERTIFICATE FOR THE STRUCTURE. ALL GRADES OF ADA ACCESSIBLE ROUTE SHALL MEET CURRENT CODE REQUIREMENTS.

LEGEND

Symbol	Description
× 5.5	EXISTING GRADE ELEVATIONS, NGVD
7.08	PROPOSED FINISHED GRADE ELEVATIONS, NGVD
→	PROPOSED SLOPE DIRECTION (MAXIMUM 2% CROSS SLOPE PER ADA REQUIREMENTS)
	PROPOSED CONCRETE PAVEMENT (SEE DETAILS)

PROPOSED SITE PLAN

SCALE: 1" = 10'-0"

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		× 2.6

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CA # 30035

CLIENT: CITY OF KEY WEST ENGINEERING DEPARTMENT 1300 WHITE ST. KEY WEST, FL 33040

PROJECT: SMATHERS BEACH BATHROOM WEST

SITE: 1910 S ROOSEVELT BLVD, KEY WEST, FL 33040

TITLE: SITE PLAN

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1801-06	C-102		1

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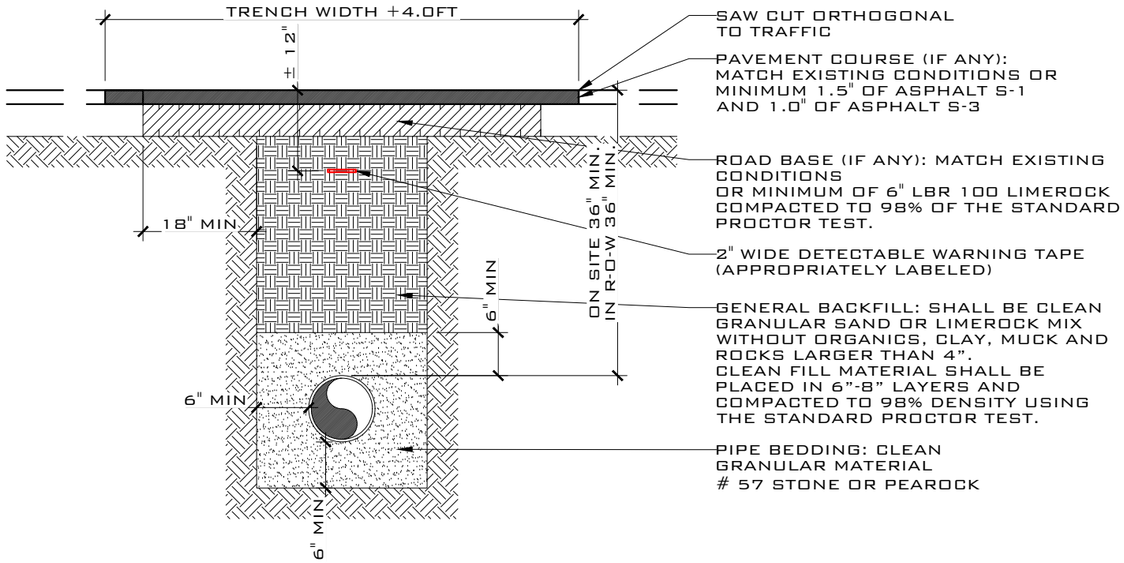
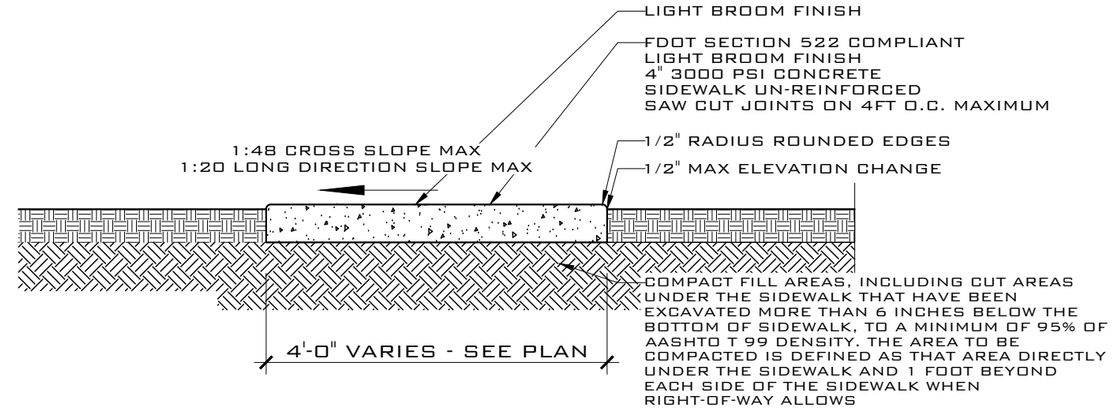
DATE:

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480



TYPICAL TRENCH RESTORATION DETAIL

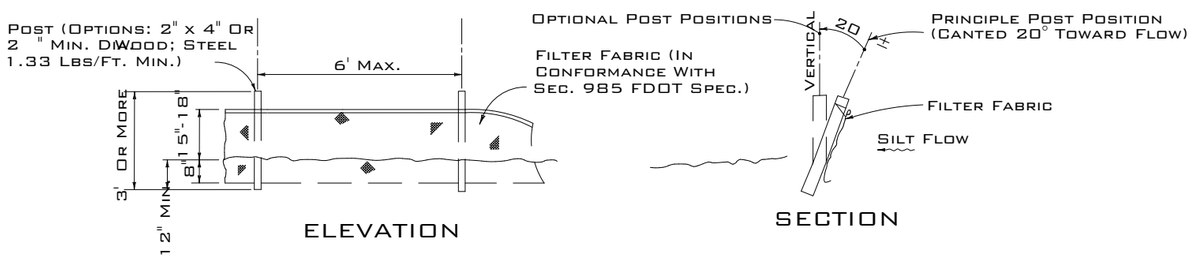
SCALE: NTS



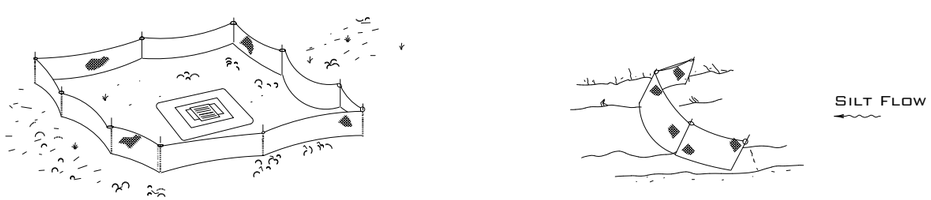
NOTES: 1. FOLLOW FDOT SPECIFICATIONS 522 FOR ALL DETAILS
2. SAWED JOINTS: IF ELECTING TO SAW THE CONTRACTION JOINTS, CUT A SLOT APPROXIMATELY 3/16 INCH WIDE AND NOT LESS THAN 1 1/2 INCHES DEEP WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET, AND WITHIN THE FOLLOWING PERIODS OF TIME: JOINTS AT NOT MORE THAN 30 FEET INTERVALS WITHIN 12 HOURS AFTER FINISHING. REMAINING JOINTS WITHIN 96 HOURS AFTER FINISHING.
3. PROVIDE ADA COMPLIANT 60"X60" LANDINGS ON ALL CHANGES OF DIRECTION AND TURNS 1:48 SLOPE MAX REGARDLESS IF THEY ARE SHOWN ON THE SITE PLAN OR NOT.

TYPICAL CONCRETE SIDEWALK WITHIN DEVELOPED PROPERTY LIMITS

SCALE: NTS



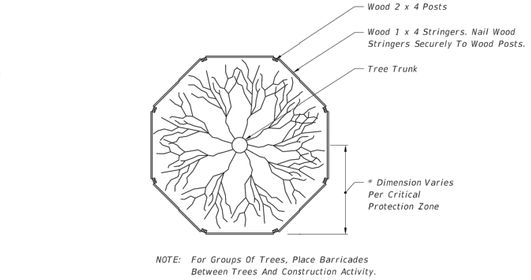
TYPE III SILT FENCE

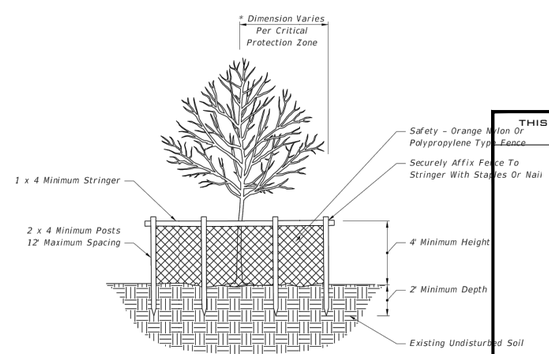


Type III Silt Fence Protection Around Ditch Bottom Inlets.

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS





NOTES: Critical Protection Zone: The Area Surrounding A Tree Within A Circle Described By A Radius Of One Foot For Each Inch Of The Tree Trunk Diameter At 54" Above Finished Grade. For Groups Of Trees, Place Barricades Between Trees And Construction Activity.

* Tree Protection Barricades Shall Be Located To Protect A Minimum Of 75% Of The Critical Protection Zone.

TREE PROTECTION BARRICADE

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

Signature:

Date:

Serge Mashtakov
Professional Engineer
State of Florida
License No 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

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CA # 30835

CLIENT: City of Key West
Engineering Department
1300 White St,
Key West, FL 33040

PROJECT: Smathers Beach Bathroom West

SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

TITLE: Details

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1801-06	C-103		1

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN

The following notes have been been developed for the Contractor's use in generating a Stormwater Pollution Prevention Plan in accordance with the Florida Department of Environmental Protection's (FDEP) Generic Permit For Stormwater Discharge from large and small Construction Activities. The aforementioned Construction General Permit (CGP) constitutes authorization to discharge stormwater associated with industrial activity to surface waters under the EPA's 'National Pollutant Discharge Elimination System' (NPDES).

The following entities are identified as team members of SWPPP: The Developer as identified on the cover sheet of these plans, and the site contractor and his subcontractors. Each team member has specific responsibilities and obligations. In general, all team members, with regard to their involvement and responsibilities on the project, are to implement all necessary stormwater management controls to assure compliance with the CGP, the Southwest Florida Water Management District Permit and the guidelines listed in the SWPPP. The duties and responsibilities of the team members as they pertain to the SWPPP are as follows:

Developer

A. Submit and obtain the necessary design-related stormwater permits from the Florida Department of Environmental Protection, the South Florida Water Management District and other applicable governmental bodies.

B. Submit to SFWMD and the operator of the municipal separate stormwater system, if applicable, a copy of the Notice of Intent.

Contractor

A. Upon notification by the developer of his intent to commence construction, submit a Notice of Intent to the Department of Environmental Protection on behalf of the developer, along with the Certification of the Stormwater Pollution Prevention Plan. Also, submit the SFWMD permit number or completeness letter if the permit number is not yet available. This submittal will be made no later than 48 hours prior to beginning of construction.

B. Develop Stormwater Pollution Prevention Plan (SWPPP including, but not limited to, retention/detention ponds, control structures, erosion control methods and locations and stabilization criteria). This design is depicted within these construction plans and the following notes and instructions.

C. During construction, assure compliance with the designed Stormwater Pollution Prevention Plans and the FDEP Generic Permit For Stormwater Discharge From Construction Activities That Disturb Five or More Acres of Land.

D. Maintain a copy of the construction plans, which include the Stormwater Pollution Prevention Plan, the NOI and all inspection reports and certifications on site.

E. Undertake all reasonable Best Management Practices (BMPs) to assure that silted or otherwise polluted stormwater is not allowed to discharge from the site during all phases of construction. Stabilization BMP's that may be used include: temporary or permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees and preservation of mature vegetation. Structural erosion and sediment control BMP's that may be used include: straw bale dikes, silt fences, earth dikes, brush barriers, drainage swales, check dams, subsurface drain, pipe slope drain, level spreaders, storm drain inlet protection, outlet protection, sediment traps, and temporary sediment basins. Detention ponds shall be used as temporary sediment basins. Additional BMP's that may need to be implemented include: Provide protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials; Providing waste receptacles at convenient locations and provide regular collection of wastes, including building material wastes; Minimizing off-site tracking of sediments; Making adequate preparations, including training and equipment to contain spills of oil and hazardous materials; Complying with applicable state or local waste disposal, sanitary sewer or septic system regulations and the use of appropriate pollution prevention measures for allowable non-storm water components of discharge.

F. Notify the developer in writing of any non-storm water pollution sources which are being stored, or otherwise used during the construction of the project, i.e., fertilizers, fuels, pesticides, other chemicals. This notification should be accompanied with the contractor's design and methods to prevent pollution run-off from these sources.

G. Develop a maintenance and inspection plan which includes, but is not limited to the following:

1. The specific areas to be inspected and maintained that includes all the disturbed areas and material storage areas of the site.
2. The erosion and sediment controls identified in the SWPPP to be maintained and inspected and those additional controls which the contractor deems necessary.
3. Maintenance procedures.
4. The procedure to follow if additional work is required or whom to call.
5. Inspections and maintenance forms.
6. The personnel assigned to each task.

H. Complete and submit a Notice of Termination. The NOT shall be submitted no more than 14 days after completion of the project and final stabilization of the site. Final stabilization as defined by FDEP is when all soil disturbing activities at the site have been completed and uniform (e.g. evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 % of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures. As an alternative, equivalent permanent stabilization measures (such as rip rap, gabions, or geotextiles) may be employed. The contractor shall notify the Engineer and developer when this criteria is met.

The following shall be inspected a minimum of once a week or within 24 hours after 0.25 inches of rainfall:

1. Stabilization measures (once a month if fully stabilized).
2. Structural controls.
3. Discharge points.
4. Construction entrances and exits.
5. Areas used for storage of exposed materials.

I. An inspection form shall be completed for each inspection. Any permit violations should be noted and corrective measures to be taken shall be noted. If revisions to the SWPPP are needed, a report form for changes in the SWPPP shall be completed and a copy sent to the developer. The original shall be kept on-site as documentation of the change. If the inspection passes, a certification that the facility is in compliance with the SWPPP and the Generic Permit must be signed by one of the following:

1. The principal executive officer or ranking elected official of the operator of the SWPPP.
2. A duly authorized representative of the principal executive official of the operator of the SWPPP.

J. Retain inspection reports and certifications for at least three years.

K. Initiate site stabilization measures no more than 14 days after construction activities have temporarily or permanently ceased on any major portion of the site except when construction will resume within 21 days.

L. Sign and submit to to the developer certification that construction and final stabilization as defined under Part E of the developer section of the SWPPP has been completed.

M. The contractor is responsible for implementation of each measure identified in the SWPPP and shall provide documentation certifying that before conducting any professional service identified in the SWPPP: That under penalty of law that I understand the terms and conditions of the generic stormwater permit issued pursuant to Section 403.0885, F.S., that authorizes the stormwater discharges associated with industrial activity from the construction site identified as part of this certification.

WATER & SEWER CROSSINGS & PARALLEL INSTALLATION NOTES:

New or relocated, underground water mains shall be laid to provide a horizontal distance of at least six feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed gravity- or pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer. New or relocated, underground water mains crossing any existing or proposed gravity- or vacuum-type sanitary sewer shall be laid so the outside of the water main is at least six inches, and preferably 12 inches, above or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.

At the utility crossings described above, one full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline. Alternatively, at such crossings, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., and at least six feet from all joints in gravity- or pressure-type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum Water Main
Gravity or Pressure, Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

(1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.
Disclaimer-This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

EARTHWORK NOTES:

1. The contractor shall install silt fence and tree barricades as shown on construction plans (refer to landscaping plans for specific requirements - by others). City of Key West should be contacted to inspect silt fence and tree barricades prior to commencement of earthwork operations.
2. Upon issuance of Clearing Permit, contractor shall remove and dispose of trees called for such on plans. All ground vegetation and topsoil within the limits of construction shall be removed. Any unsuitable material encountered shall be removed to the satisfaction of the geotechnical engineer. All topsoil removed from the building and pavement areas shall be stockpiled and used later in landscaped areas. All organic soils/debris should be removed, see organic soils removal notes.
3. After clearing operations, the exposed subgrade should be evaluated and proof rolled as directed by the geotechnical engineer. Proof rolling shall consist of compaction with a large-diameter, heavy vibratory drum roller. Observation should be made to identify any areas of yielding soils that may require over excavation and replacement, as determined by the geotechnical engineer.

GENERAL NOTES :

1. Boundary & Topographic survey used for design purposes was provided by Robert E. Reece PSM 5632 and Dated 01/29/2019
2. The location of existing utilities are approximate as shown and it is the contractor's responsibility to determine the exact location of the utilities prior to construction in their vicinity. The contractor shall notify all concerned public agencies and utility companies in the area before beginning construction, including "Sunshine" at 1-800-432-4770.
3. Prior to beginning work, the contractor shall expose all existing utilities to be extended or crossed. Any conflicts shall be brought to the engineer's attention for resolution.
4. The contractor is to exercise extreme caution in the vicinity of trees to remain and is responsible for any damage resulting from his work.
5. All roadway spot elevations refer to pavement or edge of pavement elevations, unless otherwise shown.
6. Prior to casting structures, the contractor shall submit five (5) sets of shop drawings to the Engineer for review. Shop drawings (as applicable) shall include:

a) Dip/pvc certificate of manufacture.
b) Manhole shop drawings and strength report.
c) Frame and cover shop drawings.
d) Flexible coupling shop drawings.
e) Crushed stone submittal.
f) Valve shop drawing.
g) Double detector check valve assembly details
h) Backflow preventor details
i) Manhole drop connection details.
j) Storm structures and piping
k) Paving data

8. All design and construction must conform to the minimum standards set forth in the City of Key West Land Development Code and the City of Key West Utility Standards and Latest FDOT Specifications and Design Standards.
9. The contractor shall keep record drawings of the work and shall submit one certified copy, prepared by a registered land surveyor to the engineer prior to final payment. As-builts for the stormwater management, water, fire, & sanitary systems shall be performed in accordance with City of Key West Standards.
10. Construction material testing will be provided by the contractor.
11. Contractor to notify the City of Key West Utility Department at least 48 hours in advance of utility installation.
12. Parking spaces shall be delineated with 6-inch white stripes. Handicap spaces per details, stop bars (24" wide). All pavement markings shall be in accordance with FDOT and City of Key West standards.
13. All right-of-way installations will be in accordance with practices referenced in the State of Florida Utilities Accommodations Manual.
14. Utility installations involving concrete and asphalt driveway, in good condition must be accomplished by open cut, jack and bore or pushing. No jetting will be allowed.
15. All existing traffic signs shall be maintained throughout construction.
16. Material quality and workmanship shall be in accordance with current FDOT specifications as modified by Section 7-3.1.
17. All improvements shall comply with the City of Key West Land Development regulations, such as Tree and Landscape Code, Stormwater Management Regulations and Fire Codes applicable to the project at time of permitting.
18. Water service provided by FKAA.
19. Sanitary Sewer service provided by the City of Key West Utility Department.
20. Prior to any construction/demolition, contractor shall schedule a pre construction meeting with utility providers and the City of Key West and shall coordinate meeting with owner.
21. T he contractor shall reconstruct the bench in the existing manholes to accommodate the new connections (if applicable).
22. The certificate of occupancy will not be issued until the following has been completed:

a) Final inspection in conjunction with County personnel completed.
b) Certified As-builts have been submitted and accepted.
c) All necessary testing completed and certified.
d) Payment of all capacity/impact fees.
e) Issuance of F.D.E.P. certification of completion approval (if applicable).

REFERENCED SPECIFICATIONS (LATEST EDITIONS):

1. Florida Department of Transportation Standard Specification and Index.
2. City of Key West Land Development Regulations.
3. F.D.E.P. requirements and standards for water and wastewater construction and testing.
4. FBC 6TH EDITION (2017)

REV:	DESCRIPTION:	BY:	DATE:
STATUS: FINAL			

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www.ArtibusDesign.com
CA # 30835

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

Signature:

Date:

Serge Mashtakov
Professional Engineer
State of Florida
License No 71480

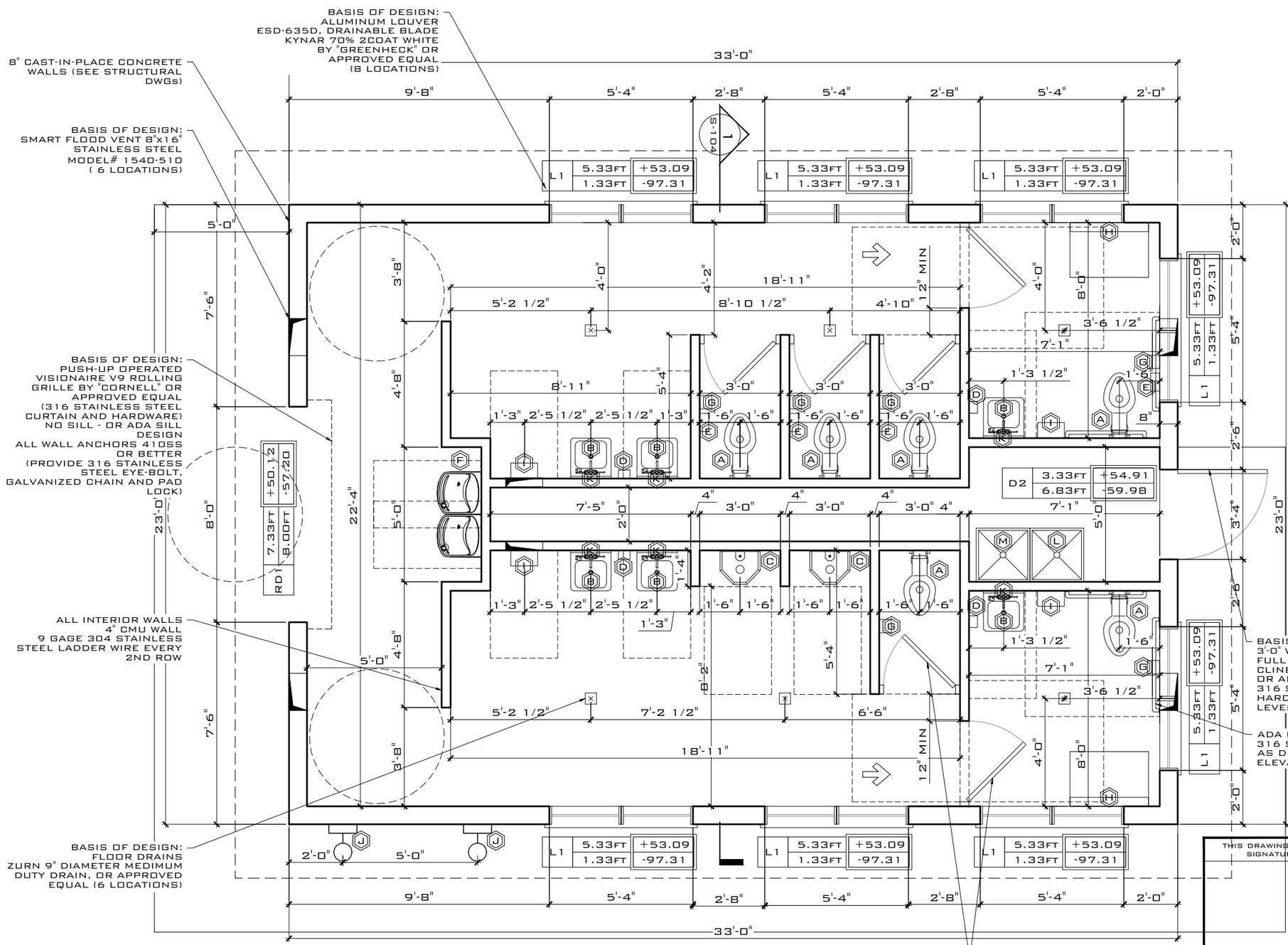
CLIENT: City of Key West
Engineering Department
1300 White St,
Key West, FL 33040

PROJECT: Smathers Beach
Bathroom West

SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

TITLE: Site Notes

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1801-06	C-104		1



Symbol	Description	Qty
A	ADA WATER CLOSET OFF-FLOOR, WALL WASTE,SIPHON JET STAINLESS STEEL TOILET FOR FRONT MOUNT BRAND: DURA-WARE MODEL: 2105 SUPPLY: WALL (-W) MOUNTING: WALL (-1) FLUSH VALVE: -1.28 GPF FLUSH VALVE OPTION: FVL, ADA LEVER HANDLE TOILET SEAT: -HS-OFLC - HINGED SEAT, OPEN FRONT LESS COVER OPTIONS: -ADA SEAT HEIGHT	6
B	ADA LAVATORY,18" FRONT ACCESS ADA SECURITY STAINLESS STEEL LAVATORY WITH RECTANGULAR BOWL BRAND: PENAL-WARE MODEL: 1652FALRB - -1-DMS-04-M SPOUT: DECK MOUNTED VALVE: SINGLE TEMP (-03-M)	6
C	STALL TYPE - WASHOUT URINAL - ADA COMPLIANT BRAND: PENAL-WARE MODEL: 1720 SUPPLY: WALL (CONCEALED) FIXTURE FOUNTING AND WASTE: ON-FLOOR, FLOOR OUTLET FLUSH VALVE: 1.0 GPF FLUSH VALVE OPTIONS: LEVER HANDLE (WALL SUPPLY) METAL TEMPLATE (ONE PER PROJECT)	2
D	ADA LIQUID SOAP DISPENSER BOBRICK CLASSICSERIES SURFACE MOUNTED VERTICAL SOAP DISPENSER - B-2111	4
E	ADA SANITARY NAPKIN DISPOSAL STAINLESS STEEL HOUSING BOBRICK SURFACE MOUNTED B-270	4
F	VERSATILE WALL MOUNT BI-LEVEL ADA COOLER, FILTERED 8 GPH PLATINUM VINYL (SHALL HAVE NO ELECTRICAL COOLING PARTS) BRAND: HALSEY TAYLOR MODEL # HTVZ8BLSS-WF	1
G	ADA TOILET PAPER DISPENSER STAINLESS STEEL HOUSING BOBRICK B-2890 JUMBO TOILET TISSUE DISPENSER	6
H	ADA BABY CHANGING STATION KOALA KARE PRODUCTS KB110-SSWM	2
I	XLERATOR HAND DRYER MODEL: XL-SB ACCESSORY: ANTI-MICROBIAL WALL GUARD PART #89W - MICROBAN PLASTIC,WHITE	4
J	WALL MOUNTED OUTDOOR SHOWERS, ACCESSIBLE DESIGN WITH FOOT SPRAY, STAINLESS STEEL WM-442-ADA-FS BY "OUTDOOR SHOWER COMPANY"	2
K	ADA MIRROR, STAINLESS STEEL FRAME HARNEY HARDWARE PRODUCT # 19074	6
L	ADVANCE TABCO 9-OP-20 16" x 20" x 6" FLOOR MOUNTED MOP SINK W/ WALL MOUNTED FAUCET	1
M	REGENCY 28" 16-GAUGE STAINLESS STEEL ONE COMPARTMENT COMMERCIAL SINK WITHOUT DRAINBOARD - 23" X 23" X 12" BOWL W/ WALL MOUNTED FAUCET	1

NOTES: THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL EQUIPMENT AS SHOWN OR ENGINEER APPROVED EQUAL. ALL EQUIPMENT SHALL BE SUPPLIED AND INSTALLED WITH ALL ORIGINAL HARDWARE ALL BOLTS, NUTS AND CAPS FOR COMPLETE AESTHETIC AND OPERATIONAL INSTALLATION

Symbol	Description (Only Add-Alternate Bid Items)	Qty
A	ADA WATER CLOSET OFF-FLOOR, WALL WASTE BRAND: KOHLER MODEL: KINGSTON BOWL K-4323 SUPPLY: WALL MOUNTING: WALL FLUSH VALVE OPTION: ROYAL 100 ROYAL® EXPOSED MANUAL FLUSHOMETER, ADA LEVER HANDLE TOILET SEAT: - HINGED SEAT, OPEN FRONT LESS COVER OPTIONS: -ADA SEAT HEIGHT	6
B	PROPOSED ADA SINK, BRAND: AMERICAN STANDARD MODEL # 0356.041.020 MONTEREY 4 INCH CENTERSET GOOSENECK FAUCET, 1.5 GPM LAMINAR FLOW IN SPOUT BASE, 8 INCH SPOUT REACH, MODEL # 7500.188.002	6
C	STALL TYPE - WASHOUT URINAL - ADA COMPLIANT BRAND: KOHLER MODEL # K-4920-T-0 SUPPLY: WALL (CONCEALED) FIXTURE FOUNTING AND WASTE: ON-FLOOR, FLOOR OUTLET FLUSH VALVE: 1.0 GPF FLUSH VALVE OPTIONS: LEVER HANDLE (WALL SUPPLY) TEMPLATE (ONE PER PROJECT)	2

FINISHES:
1. ALL INTERIOR FLOORS - 2 COMPONENT CATALYZED WATER BORNE POLYAMIDE EPOXY WITH A MICRONIZED POLYMER ADDITIVE TO PROVIDE UNIFORM SLIP RESISTANCE, COLOR GRAY (OWNER APPROVED)
2. ALL INTERIOR WALLS AND CEILINGS - PRIMED AND PAINTED W/ 2 COATS MODIFIED ACRYLIC, WATER REPELLENT PENETRATING STAIN WITH ONE COAT OF CLEAR ACRYLIC ANTI-GRAFFITI SEALER, COLOR WHITE.
3. ALL EXTERIOR WALLS AND CEILINGS - PRIMED AND PAINTED W/ 2 COATS MODIFIED ACRYLIC, WATER REPELLENT PENETRATING STAIN WITH ONE COAT OF CLEAR ACRYLIC ANTI-GRAFFITI SEALER, COLOR MATCH EXISTING (OWNER APPROVED SHADES).

PROPOSED FLOOR PLAN

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

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE:

DATE:

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

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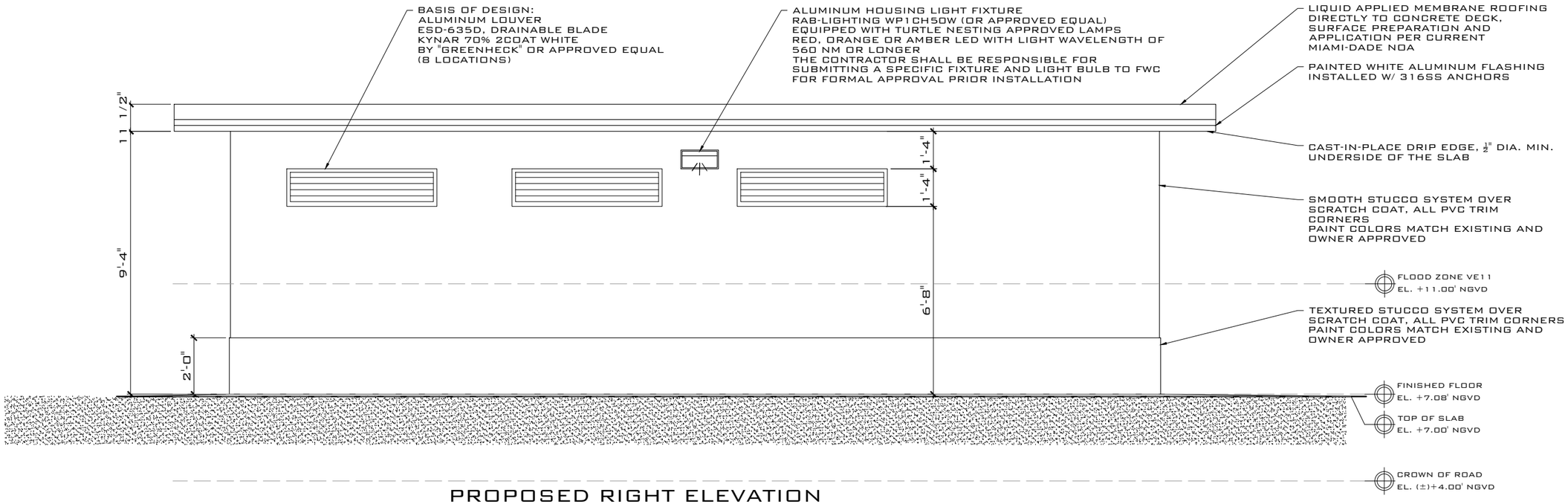
CLIENT: CITY OF KEY WEST
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
BATHROOM WEST

SITE: 1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

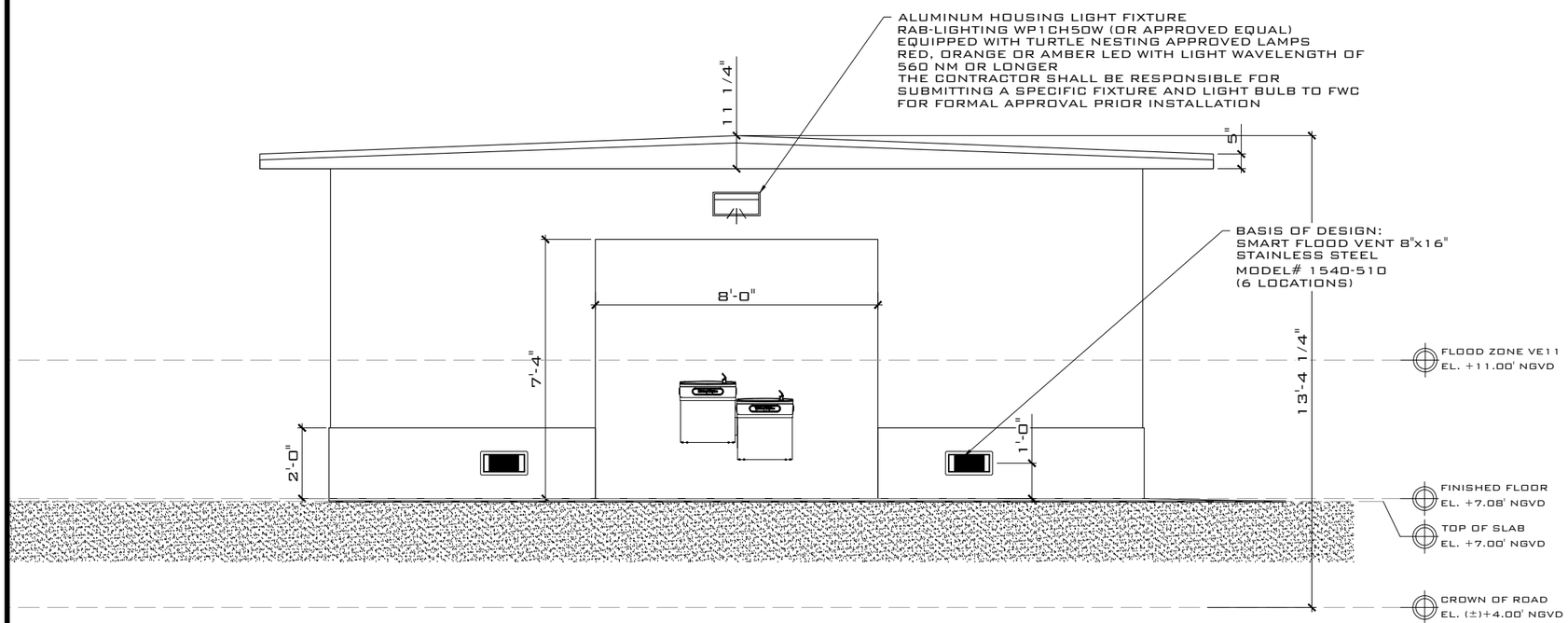
TITLE: PROPOSED FLOOR PLAN

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1902-05	A-101		1



PROPOSED RIGHT ELEVATION

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



PROPOSED FRONT ELEVATION

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

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STATE OF FLORIDA
LICENSE NO 71480

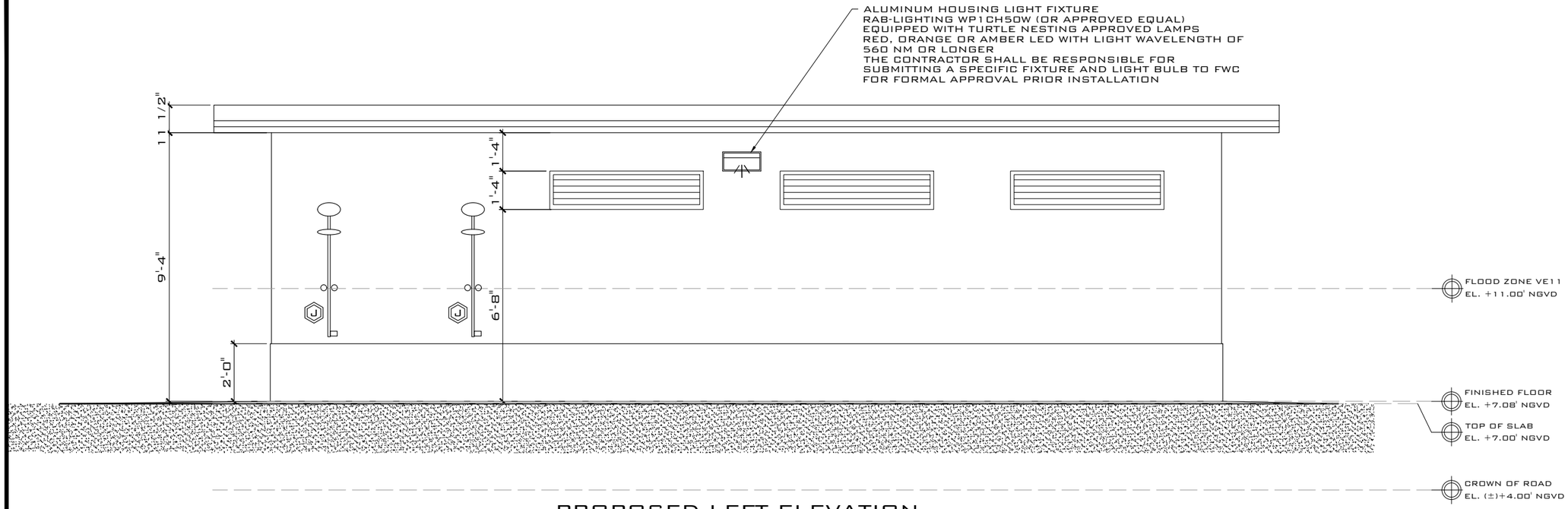
CLIENT: CITY OF KEY WEST
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
BATHROOM WEST

SITE: 1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

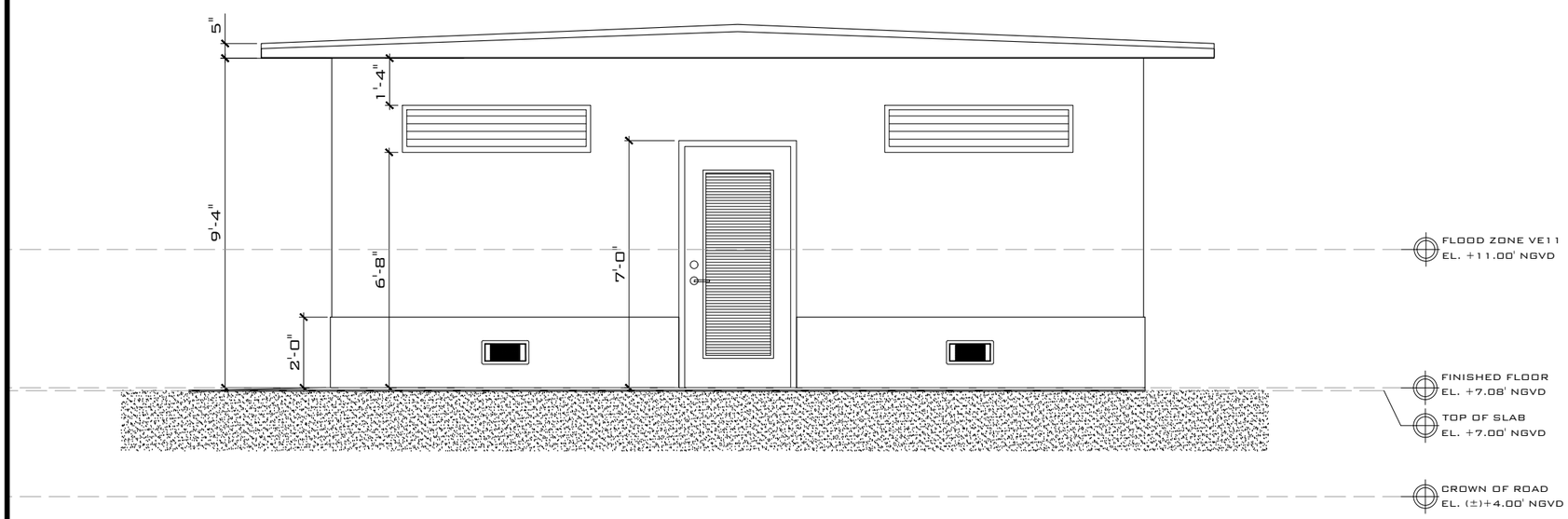
TITLE: PROPOSED RIGHT/FRONT
ELEVATIONS

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1902-05	A-102		1



PROPOSED LEFT ELEVATION

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



PROPOSED REAR ELEVATION

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

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Signature:

Date:

Serge Mashtakov
Professional Engineer
State of Florida
License No 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS: FINAL			

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1300 White St,
Key West, FL 33040

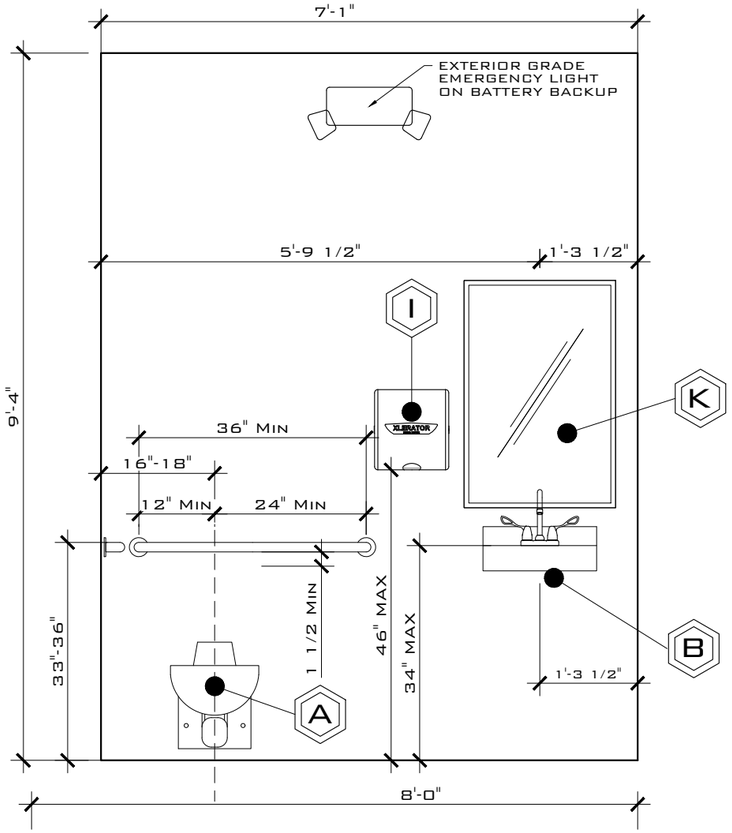
PROJECT: Smathers Beach
Bathroom West

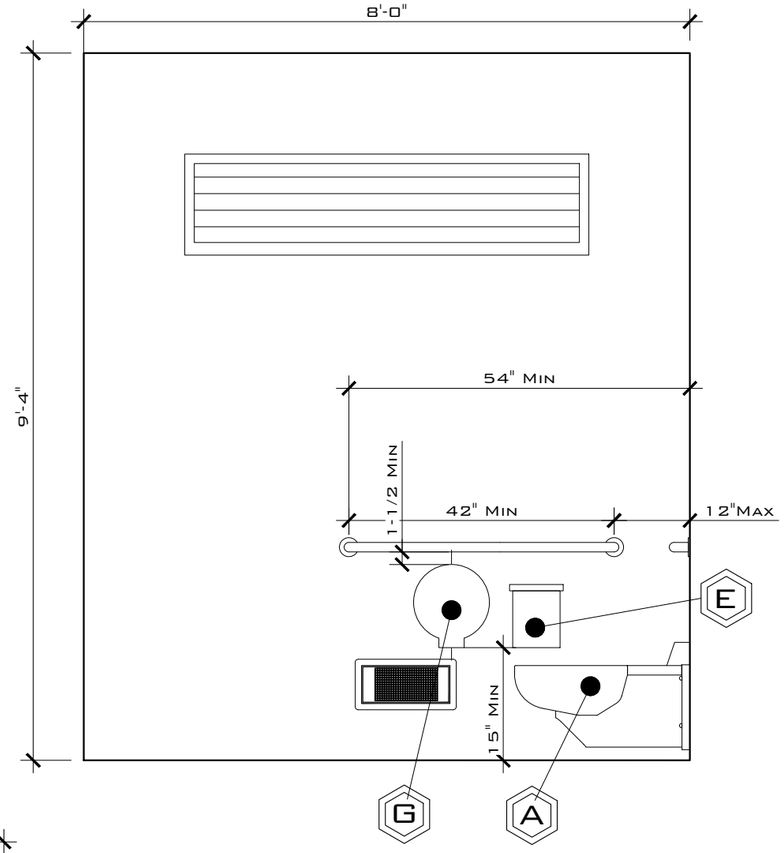
SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

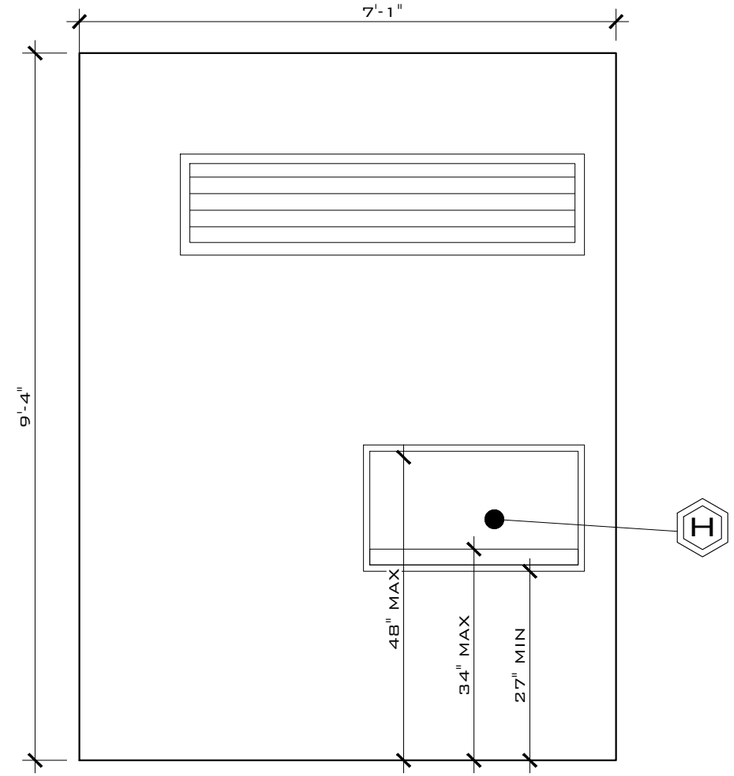
TITLE: Proposed Left/Rear
Elevations

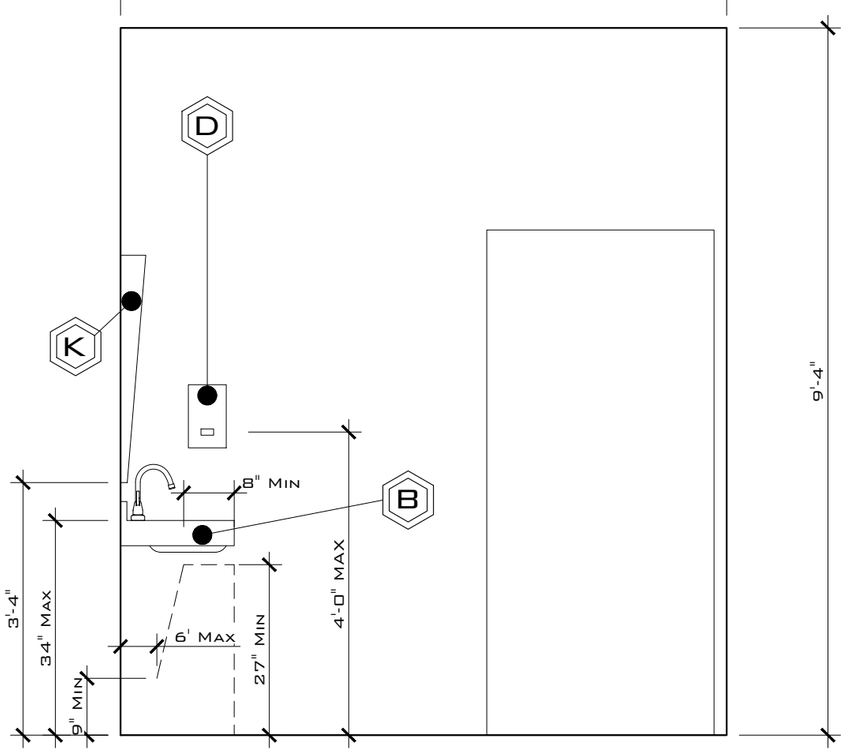
SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM

PROJECT NO:	DRAWING NO:	REVISION:
1902-05	A-103	1









PROPOSED BATHROOM ELEVATIONS

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

REV:	DESCRIPTION:	BY:	DATE:
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SIGNATURE:

DATE:

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

CLIENT: CITY OF KEY WEST
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
BATHROOM WEST

SITE: 1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: PROPOSED BATHROOM
ELEVATIONS

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM

PROJECT NO:	DRAWING NO:	REVISION:
1902-05	A-104	1

General Requirements:
1. Prior to starting any work the Contractor shall review these plans and site conditions and notify the Engineer if any discrepancies are discovered.
2. The Engineer is not responsible for the supervision of the Contractor nor his employees during the construction. It is the Contractor's responsibility to provide means and establish methods of the construction to meet requirements of all applicable codes, industry standards and requirements of these plans.
3. Quality of the work shall meet or exceed industry standard practices.
4. Any deviations from these plans shall be reviewed and approved by the Engineer.

Submittals:
1. The Contractor shall provide 5 original submittals for All materials, products, and accessories used for this project (no exceptions).
2. All submittals shall be reviewed, approved, dated and signed by the General Contractor representative prior submitting for Engineers review.
3. The Contractor shall prepare and maintain submittal log for all product with list of all submittals, their status and dates of submittal and approval.
4. The Contractor shall plan in advance for timely preparation of all submittals and allow 2-3 weeks for review and correction process.

Design Data:
1. Applicable Building Code: FBC 6th Edition (2017)
2. Applicable Design Loads: per ASCI/SEI 7-10
   Floor Live Load 100 psf
   Roof Live Load: 20 psf (300 lb conc.)
   Basic Wind Speed: 180 MPH
   Exposure: D
   Structural Category: II
Flood Zone: VE11
Flood Resistant Design and Construction per ASCI 24-14
Flood Design Class 2, Wet Flood Proofing

All pressures shown are based on ASD Design with a Load Factor of 0.6

Soils and Foundations:

Foundations shall be placed on a "Sedimentary and foliated rock" with a allowable load bearing pressure of 3,000 psf. Notify the Engineer of soil conditions are different.

1. All foundations, slabs and footers shall be placed on stabilized undisturbed subgrade soil.
2. Minimum foundation depth shall be 24" unless otherwise is specified on the plans. If over-excavated - fill shall not be placed back into the trench unless approved by the Engineer.
3. Fill under the foundations shall be used only if approved by the Engineer. Clean fill material shall be placed in 6"-8" layers and compacted to 98% density using the Modified Proctor Test.
4. Fill material shall be clean granular sand or limerock mix without any organic materials, clay, muck and rocks larger than 4". Backfill shall not contain any wood or cellulose debris.

Augercast Piles
1. Augercast piles shall be 16" diameter with minimum embedment of 3ft into the cap rock unless otherwise shown on the plans.
2. Concrete for piles shall have a min. compressive strength of 5000 psi. Water Cement ratio shall not exceed W/C=0.40.
3. Reinforcement shall be four (4) #6 REBAR vertically with #3 hoops at 10" o.c. Contractor shall use plastic chars or centralizers to provide a 3" cover on all sides of the reinforcement.

Concrete
1. Applicable Code ACI 318 latest edition and ACI 301.
2. All concrete elements shall have a min. compressive strength of 4000 psi unless otherwise is shown on the plans. Water Cement ratio shall not exceed W/C=0.40.
3. All cast-in-place concrete shall be cured and protected from overdrying per ACI 305R-10 "Hot Weather Concreting".
4. All exposed edges shall have 1/2" chamfers.
5. No cold joints are allowed unless otherwise approved by the Engineer.
6. TESTING: All Field and Laboratory Testing shall be performed by the independent specialized company.
The contractor is responsible for all scheduling, coordination and cost of testing company.
Three (3) samples shall be taken and tested each time.
Minimum Sampling Frequency:
a) Each day of concreting for every concrete mix;
b) Every 50 cubic yards;
c) Every 2000 sq.ft. of slab area.

All testing shall be per latest ACI and ASTM requirements.
Laboratory shall supply three (3) original signed&sealed report results to the Engineer.

7. Cast-in-place and precast members erection tolerances shall be as specified in table 8.2.2 or in section 8.3 of "PCI design handbook/sixth edition".

Reinforcement
1. All REBAR SHALL BE ASTM A1035 Grade 100 (ChromX 9100) as corrosion resistant reinforcement.
2. All requirements for placement, cover, tolerances, etc. Shall be per ACI 318-11.
3. All hooks and bends shall be factory made unless field bends are approved by the Engineer.
4. Only PLASTIC CHAIRS and CENTRALIZERS shall be used for rebar support.

Structural Lumber
1. All wood members shall meet or exceed requirements specified in "ANSI/AF&PA National Design Specification (NDS) for Wood Construction" and all referenced standards.
2. All wood members shall be Souther Pine No2 or Greater kiln dried as specified in the Standards, unless otherwise specified.
3. All wood members exposed to exterior, in direct contact with concrete or steel shall be Pressure-Treated (PT) UC4B grade per AWPA Standards.
4. All field cuts in pt lumber shall treated on site.
5. Nailing shall be in accordance with FBC 2017. Nails and other fasteners for PT wood shall be Stainless Steel or ACQ Approved treated.
6. Sheathing shall be 5/8" CDX Plywood Sheathing Grade, unless otherwise is specified on the plans. Use 10d ring-shank nails with spacing of 4" o.c. on all edges and 6" o.c. in the field.

Hardware
1. Hardware shall be 316 Stainless Steel or better or Zmax galvanized for non exposed Simpson products, unless otherwise specified.
2. All connectors shall have stainless steel screws and fasteners or ACQ Approved treated (for non exposed locations).

Reinforced Masonry (CMU)

1. All Masonry shall be reinforced concrete masonry unit in accordance with the latest edition of ACI 530/ASCE 5/TMS 402.
2. Install all blocks in running bond.
3. Minimum masonry block (ASTM C90) strength shall (F'm) be 1500 psi.
4. Type "S" mortar (ASTM C270) shall be used using 3/8" full bedding reinforced w/ 9 gage 304 stainless steel ladder wire every 2nd row.
5. Filled cells shall be reinforced with #5 REBAR @ 24" o.c. (unless otherwise is specified on the plans).
6. Grout shall be pea rock pump mix (ASTM C476) with a minimum compressive strength of 4000 psi (28 day) (ASTM C1019). Targeted slump shall be 8"-11".
6. Each grouted cell shall have cleanout openings at the bottom. There shall be no loose mortar or other debris in the bottom of the cell. Use blast pressure washing for surface preparation.

Structural Steel

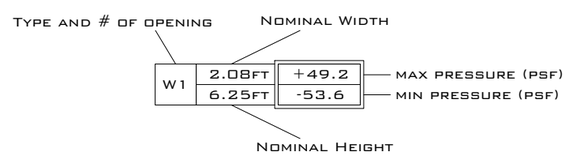
1. Structural steel components shall be as described in "Specifications for Structural Steel Buildings" AISC 2005 or later eddition.
2. HSS shapes (structural tubing) shall be ASTM A500 (Fy=46 ksi).
3. Steel plates, flanges and miscelenious elements shall be ASTM A36 (Fy=36 ksi) unless noted otherwise on the plans.
4. W-shapes, C-shapes and other formed steel shall be ASTM A36 (Fy=36 ksi).
5. All welding shall be in conformance with the latest specifications AWS D1.1/D1.1M:2017, Structural Welding Code - Steel.
6. Bolts: Hot Dip Galvanized. A325N, A563DH hex nuts, F436 washers.
7. Anchor bolts: Hot Dip Galvanized. A307 grade A, A563DH hex nuts, F844 washers.

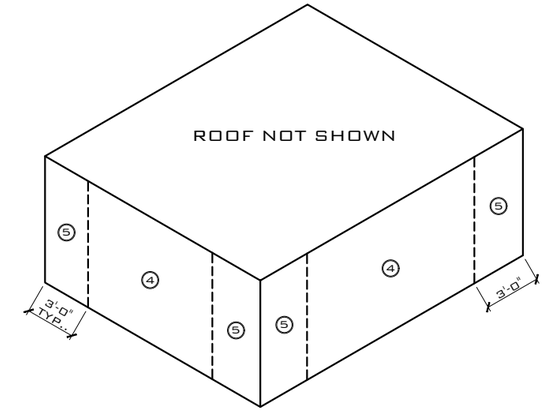
Structural Steel Coating

1. All surfaces shall be abrasive blast cleaned to near-white metal (per SSPC-SP10)
Exposed Steel:
2. All surfaces shall be primed with Polyamide Epoxy - one coat (8.0 mils DFT).
3. Apply Sealant at all locations where steel is welded, lapped etc. Sealant material shall be compatible with the painting system.
4. Top layer shall be two (2) coat Polyurethane (3.0 mils DFT each).
5. Top paint shall be UV resistant or have a UV resistant coating.
6. Colors shall match existing or to be selected by the owner.
Non-Exposed Steel (Interior):
7. 2 coats of "Sumter Coatings" Universal Primer (6.0 mils DFT) or Approved Equal.

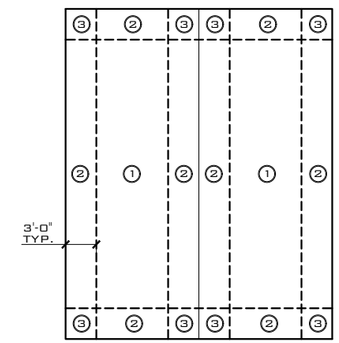
Aluminum Components
1. Type 6061-T6 aluminum.
2. MIG welded all joints w/ continuous 1/8" weld. Use 5356 filler wire alloy.
3. All aluminum in contact with concrete, pt wood, dissimilar metals and other corrosive materials shall coated with coal-tar epoxy or protected by other Engineer approved method.

Openings:
1. All exterior windows & doors shall be large and small missile impact rated or have code compliant shutters.
2. All exterior windows and doors shall have Florida product approval and NOA. Product approval labels shall be permanently attached to the frame.
3. Wind Pressure on Components and Cladding (Ch 30 Part 1)





WALLS WIND PRESSURES DIAGRAM
SCALE: NTS



ROOF WIND PRESSURES DIAGRAM
SCALE: NTS

Partially Enclosed - Building					
Wind Pressure on Components and Cladding (Ch 30 Part 1)					
Description	Width, ft	Span, ft	Area, ft2	Max P, psf	Min P, psf
Zone 1	1	1	1	+33.43	-57.99
Zone 2	1	1	1	+33.43	-97.31
Zone 3	1	1	1	+33.43	-146.50
Zone 4	1	1	1	+57.99	-62.89
Zone 5	1	1	1	+53.09	-97.31

Rev:	Description:	By:	Date:
Status:	Final		

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Signature:

Date:

Serge Mashtakov
Professional Engineer
State of Florida
License No 71480

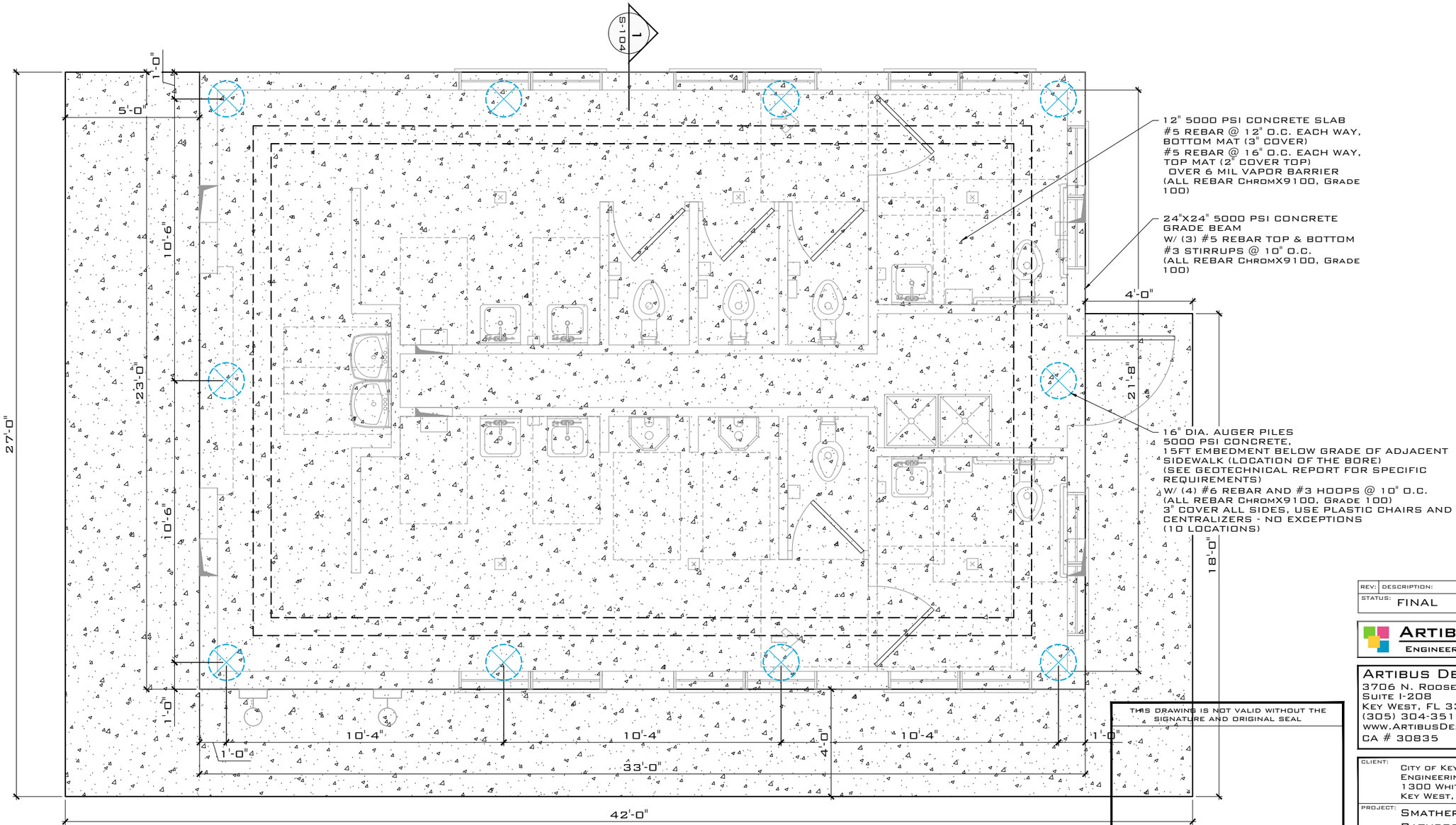
Client: City of Key West
Engineering Department
1300 White St,
Key West, FL 33040

Project: Smathers Beach
Bathroom West

Site: 1910 S Roosevelt Blvd,
Key West, FL 33040

Title: Notes

Scale at 11x17:	Date:	Drawn:	Checked:
As shown	04/08/19	MNS	SAM
Project no:	Drawing no:		Revision:
1902-05	S-100		1



NOTE: ALL METAL OBJECTS IN AND AROUND BUILDING AND DECK AREA SHALL BE BONDED WITH MINIMUM #8 SOLID COOPER CONDUCTOR USING BRASS OR COPPER BONDING CLAMPS AND COMPLY WITH ARTICLE 680 OF N.E.C.

FOUNDATION PLAN

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

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Date:

Serge Mashtakov
Professional Engineer
State of Florida
License No 71480

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Engineering Department
1300 White St.
Key West, FL 33040

PROJECT: Smathers Beach
Bathroom West

SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

TITLE: Foundation Plan

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
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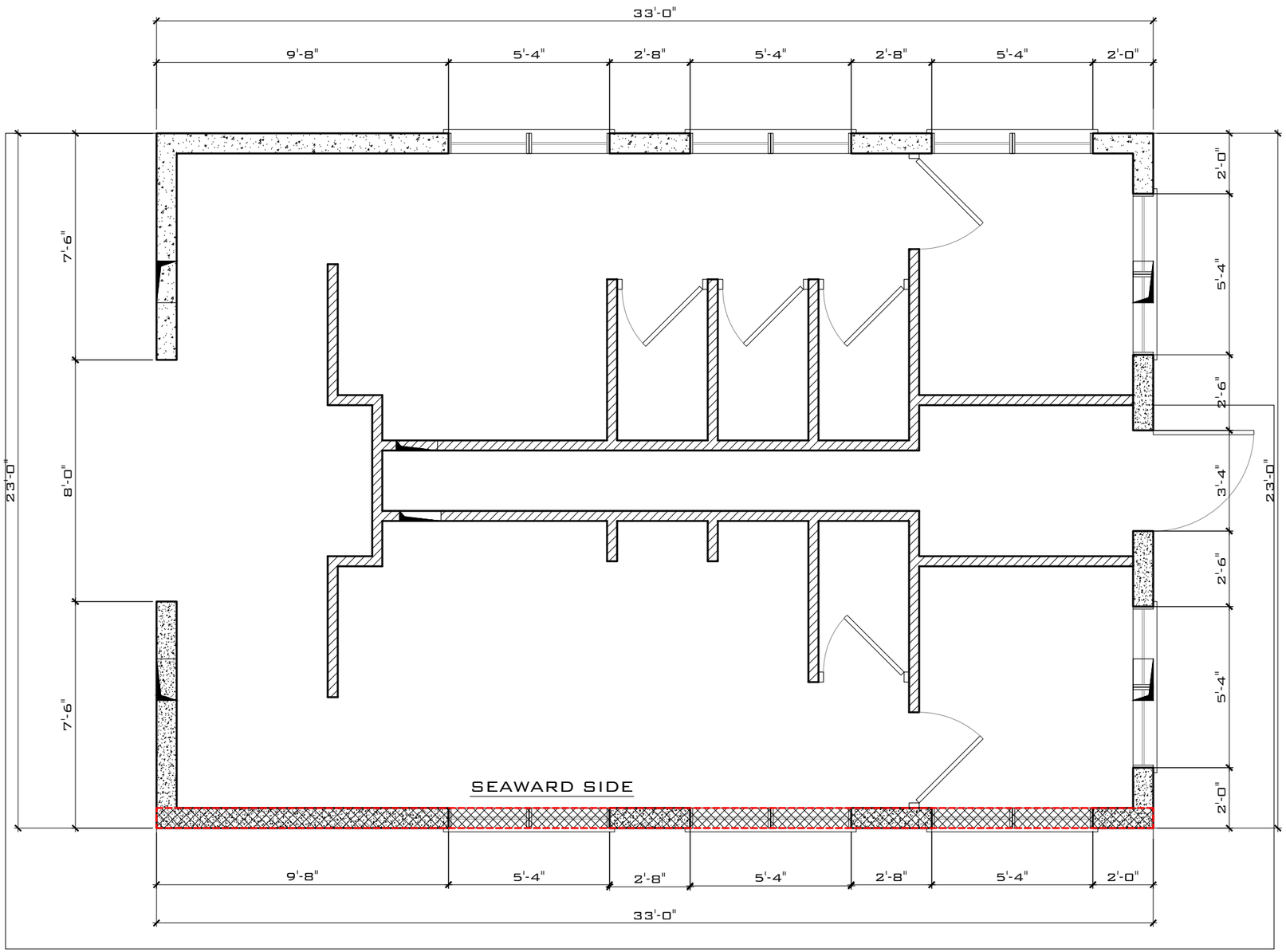
PROJECT NO:	DRAWING NO:		REVISION:
1902-05	S-101		1



WALLS LEGEND	
SYMBOL	DESCRIPTION
	SEAWARD WALL ONLY 8" 4000 PSI CONCRETE WALL VERTICAL REINFORCEMENT #6 REBAR @ 8" O.C. POSITIONED WITH 1" COVER FROM INTERIOR ON ALL SIDES HORIZONTAL REINFORCEMENT #4 REBAR @ 16" O.C.
	ALL OTHER EXTERIOR WALLS 8" 4000 PSI CONCRETE WALL VERTICAL REINFORCEMENT #4 REBAR @ 16" O.C. POSITIONED MIDWALL HORIZONTAL REINFORCEMENT #4 REBAR @ 16" O.C.
	ALL INTERIOR WALLS: 4" CMU WALL 9 GAGE 304 STAINLESS STEEL LADDER WIRE EVERY 2ND ROW

NOTE: ALL METAL OBJECTS IN AND AROUND BUILDING AND DECK AREA SHALL BE BONDED WITH MINIMUM #8 SOLID COOPER CONDUCTOR USING BRASS OR COPPER BONDING CLAMPS AND COMPLY WITH ARTICLE 680 OF N.E.C.

STRUCTURAL PLAN

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

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Date:

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1300 White St,
Key West, FL 33040

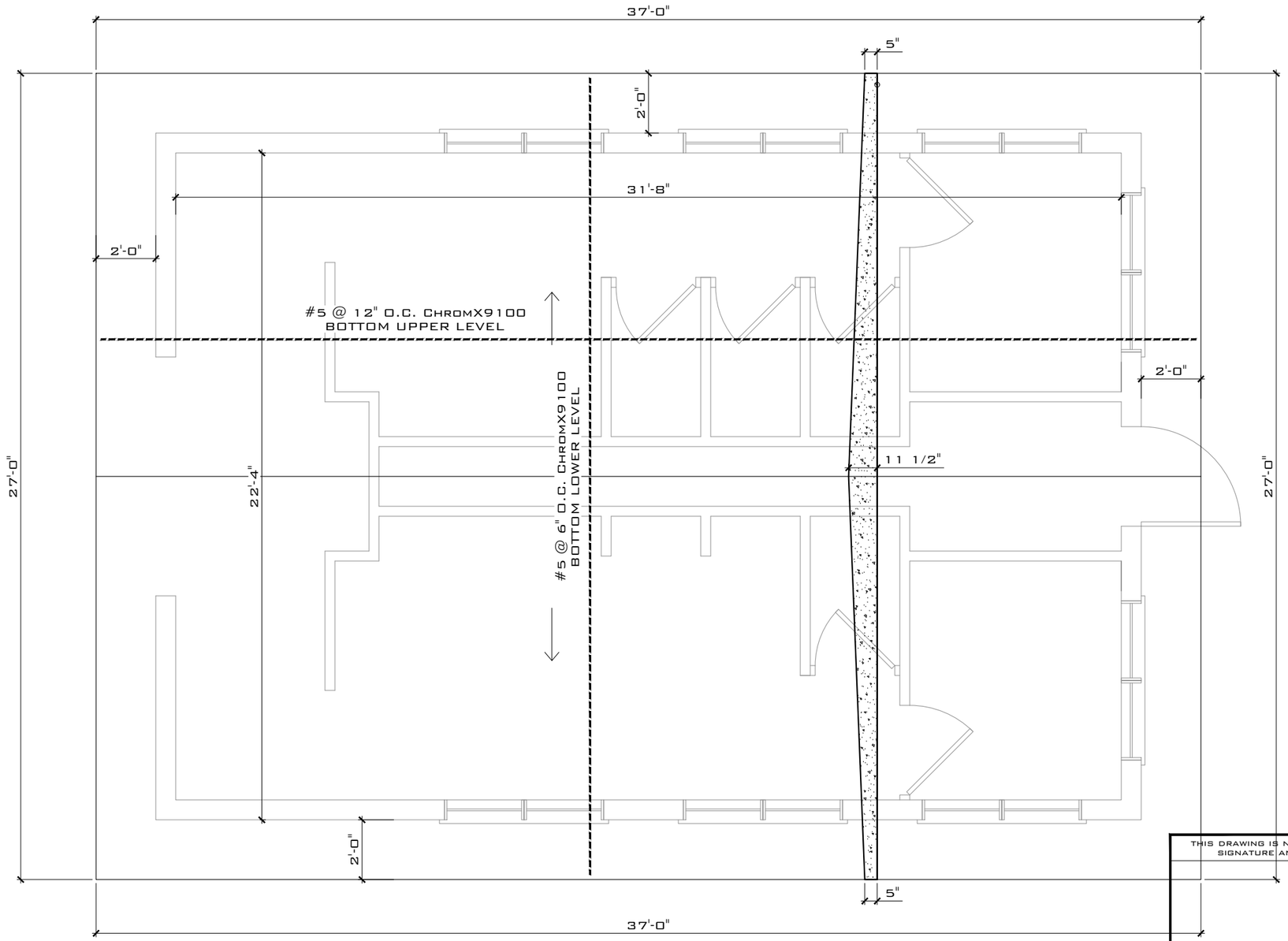
PROJECT: Smathers Beach
Bathroom West

SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

TITLE: Structural Plan

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM

PROJECT NO:	DRAWING NO:	REVISION:
1902-05	S-102	1



NOTE: ALL METAL OBJECTS IN AND AROUND BUILDING AND DECK AREA SHALL BE BONDED WITH MINIMUM #8 AWG COOPER CONDUCTOR AND COMPLY WITH ARTICLE 680 OF N.E.C.

ROOF SLAB PLAN

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

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Signature:

Date:

Serge Mashtakov
Professional Engineer
State of Florida
License No 71480

REV:	DESCRIPTION:	BY:	DATE:

STATUS: FINAL

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(305) 304-3512
www.ArtibusDesign.com
CA # 30835

CLIENT: City of Key West
Engineering Department
1300 White St,
Key West, FL 33040

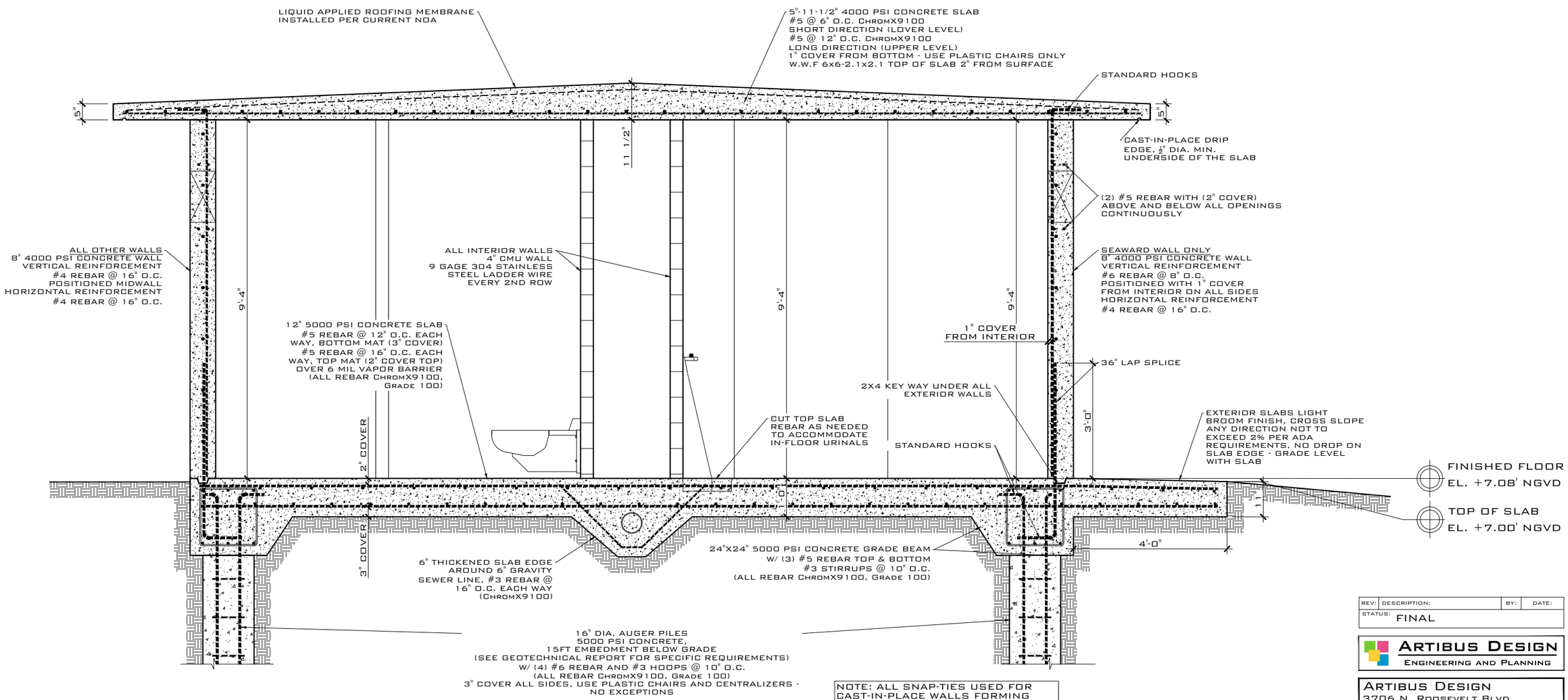
PROJECT: Smathers Beach
Bathroom West

SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

TITLE: Roof Plan

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM

PROJECT NO:	DRAWING NO:	REVISION:
1902-05	S-103	1



NOTE: ALL SNAP-TIES USED FOR CAST-IN-PLACE WALLS FORMING SHALL BE 304 STAINLESS STEEL OR COMPOSITE NON-CORROSIVE MATERIAL (SUBMIT SHOP DRAWINGS FOR ENGINEER'S APPROVAL)

SECTION 1-1

SCALE: 3/8" = 1'-0"

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STATUS:	FINAL		

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Serge Mashtakov
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State of Florida
License No 71480

CLIENT: City of Key West
Engineering Department
1300 White St,
Key West, FL 33040

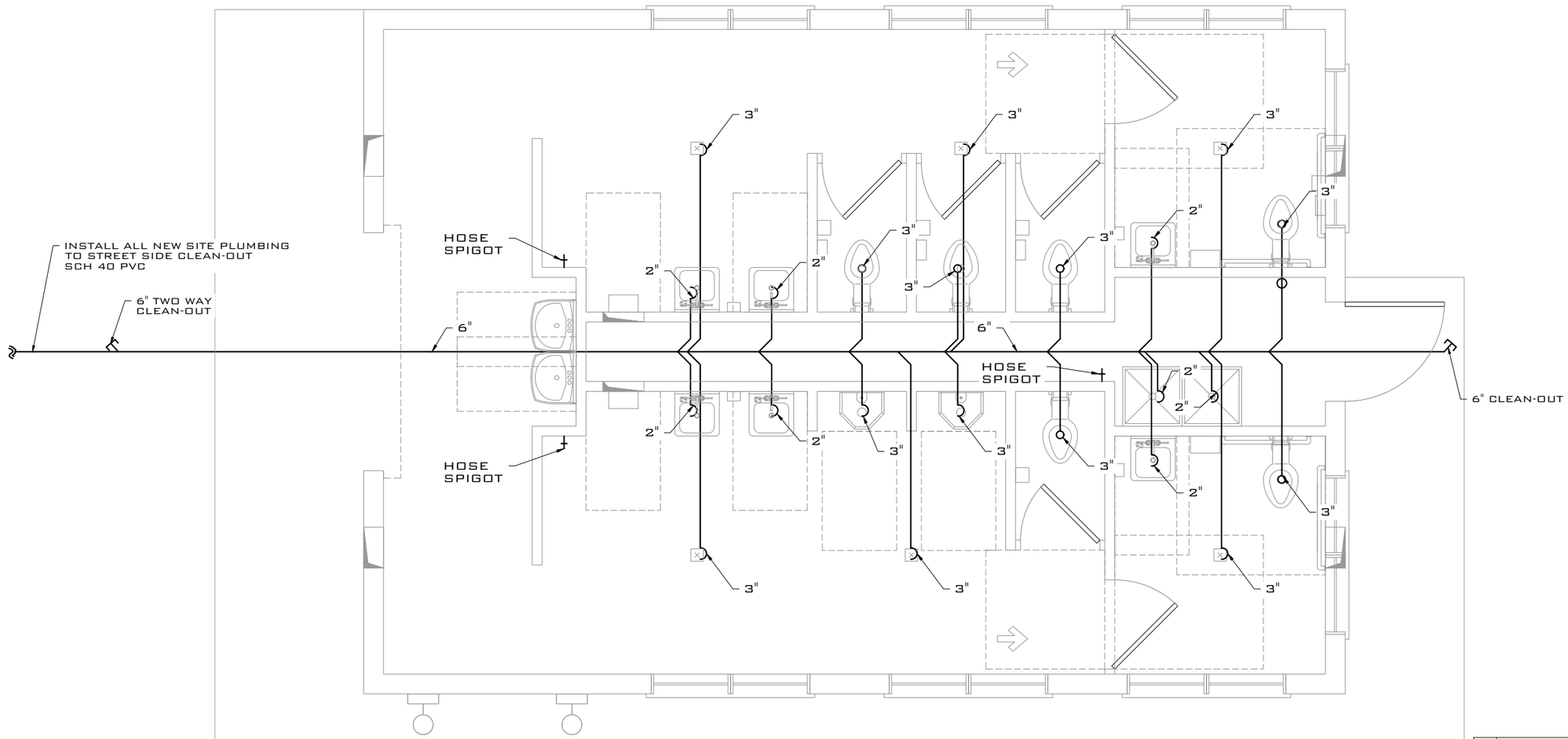
PROJECT: Smathers Beach
Bathroom West

SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

TITLE: Section 1-1

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM

PROJECT NO:	DRAWING NO:	REVISION:
1902-05	S-104	1



NOTE: ALL METAL OBJECTS IN AND AROUND BUILDING AND DECK AREA SHALL BE BONDED WITH MINIMUM #8 SOLID COOPER CONDUCTOR USING BRASS OR COPPER BONDING CLAMPS AND COMPLY WITH ARTICLE 680 OF N.E.C.

PROPOSED PLUMBING PLAN

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

PLUMBING NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH FBC 2017 PLUMBING AND LOCAL STANDARDS.
2. ALL SANITARY SEWER PIPING SHALL BE SCH 40 PVC.
3. ALL INTERIOR WATER SUPPLY PIPING SHALL BE $\frac{3}{4}$" DIA. COPPER.
4. PLUMBING CONTRACTORS SCOPE OF WORK INCLUDES ALL MATERIALS, VALVES, FITTINGS, VENTS ETC. REQUIRED FOR A COMPLETE AND OPERATIONS SYSTEM.
5. ALL PLUMBING FIXTURES SHALL BE APPROVED BY OWNER PRIOR PURCHASING AND INSTALLATION.
6. THE SYSTEM SHALL BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH FBC PLUMBING 2017 SECTION 312. ALL TESTS SHALL BE WITNESSED BY THE ENGINEER, UTILITY REPRESENTATIVE AND BUILDING INSPECTOR (UNLESS APPROVED OTHERWISE).

THIS DRAWING IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL

SIGNATURE:

DATE:

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

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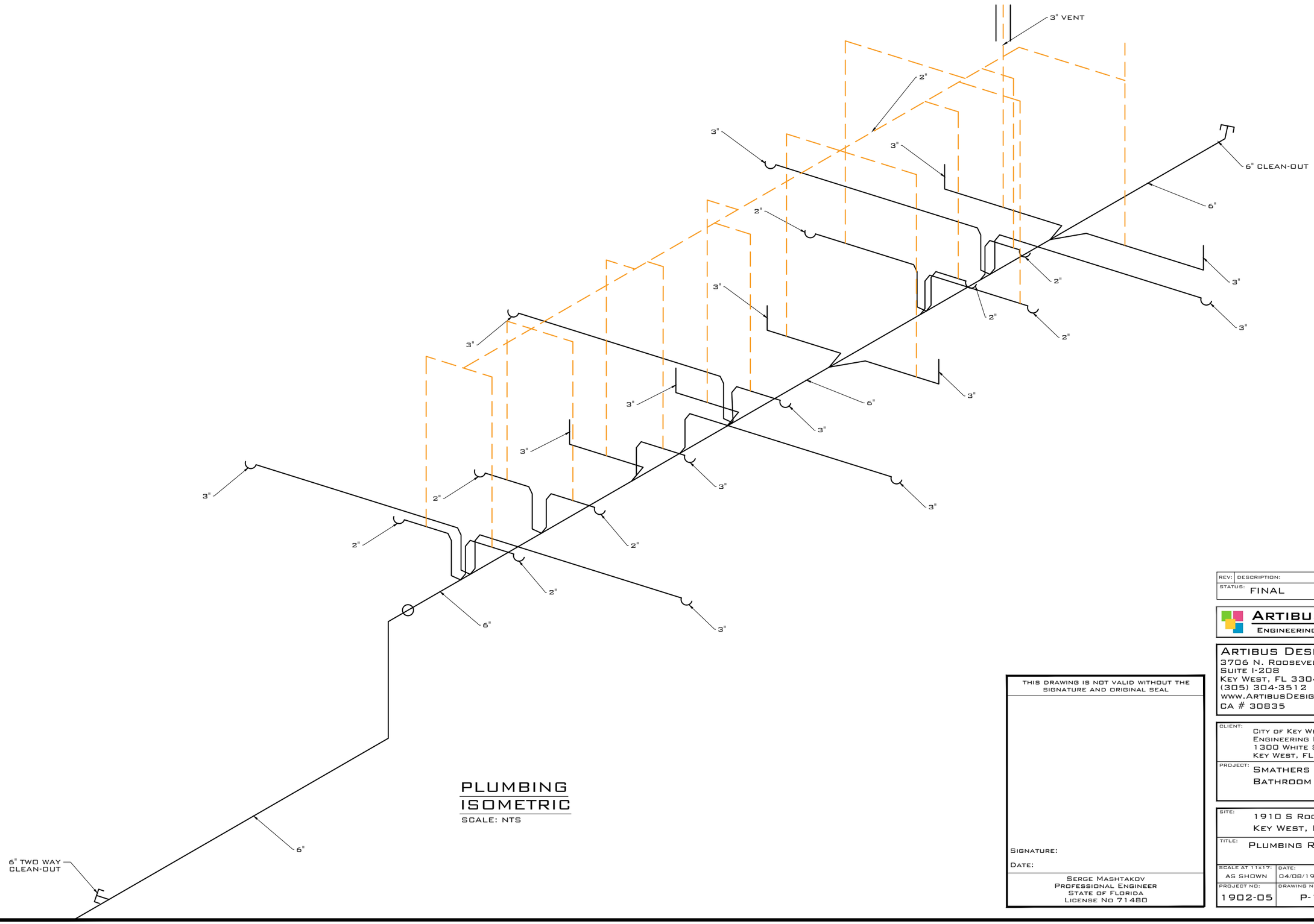
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
BATHROOM WEST

SITE: 1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: PROPOSED PLUMBING PLAN

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM
PROJECT NO:	DRAWING NO:		REVISION:
1902-05	P-101		1



PLUMBING ISOMETRIC

SCALE: NTS

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Signature:

Date:

Serge Mashtakov
Professional Engineer
State of Florida
License No 71480

REV:	DESCRIPTION:	BY:	DATE:
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CLIENT: CITY OF KEY WEST
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
BATHROOM WEST

SITE: 1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: PLUMBING RISER

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
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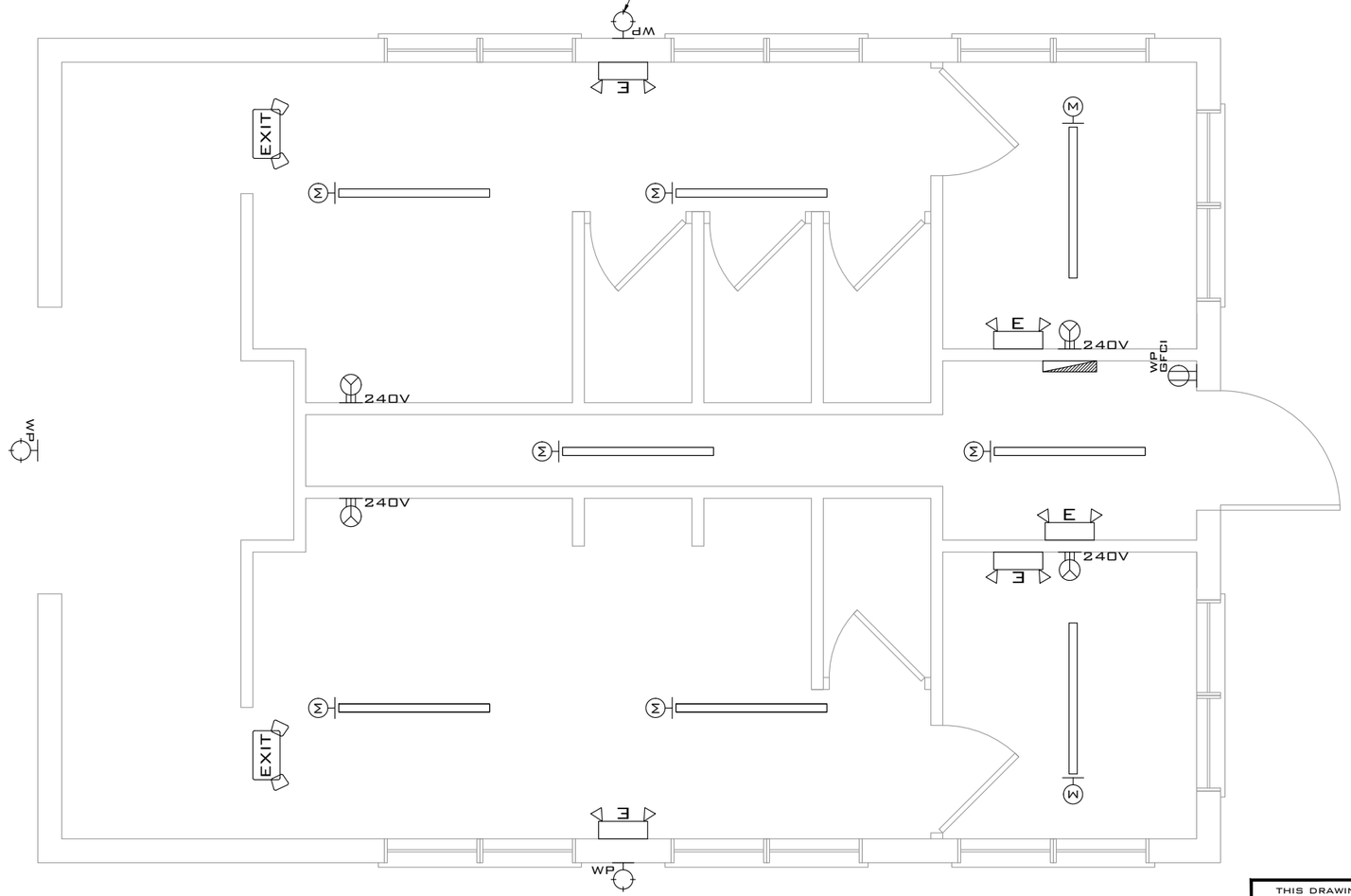
PROJECT NO:	DRAWING NO:	REVISION:
1902-05	P-102	1

ALL EXTERIOR LIGHTS
ALUMINUM HOUSING LIGHT FIXTURE
RAB-LIGHTING WP1CH50W (OR APPROVED EQUAL)
EQUIPPED WITH TURTLE NESTING APPROVED LAMPS
RED, ORANGE OR AMBER LED WITH LIGHT WAVELENGTH OF 560 NM OR LONGER
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A SPECIFIC FIXTURE
AND LIGHT BULB TO FWC FOR FORMAL APPROVAL PRIOR INSTALLATION



NOTE: ALL ELECTRICAL COMPONENTS SHALL BE
LOCATED 12" ABOVE BASE FLOOD ELEVATION
UNLESS APPROVED OTHERWISE

PROPOSED ELECTRICAL PLAN

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

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SIGNATURE:

DATE:

SERGE MASHTAKOV
PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO 71480

REV:	DESCRIPTION:	BY:	DATE:
STATUS:	FINAL		

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CLIENT:
CITY OF KEY WEST
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT:
SMATHERS BEACH
BATHROOM WEST

SITE:
1910 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE:
PROPOSED ELRCTRICALPLAN

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	04/08/19	MNS	SAM

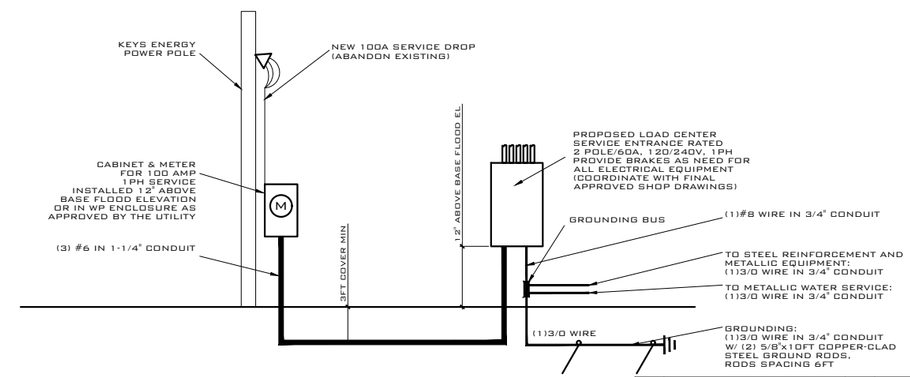
PROJECT NO:	DRAWING NO:	REVISION:
1902-05	E-101	1

ELECTRICAL SYMBOL LEGEND

	20A/120V DUPLEX RECEPTACLE W/ GROUNDING	P	PHOTOCELL		CEILING FAN
	20A/120V SINGLE RECEPTACLE W/ GROUNDING	A	RECESSED LIGHT FIXTURE, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		
	20A/120V SPLIT WIRED DUPLEX RECEPTACLE W/ GROUNDING	A	CEILING MOUNT LIGHT FIXTURE, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		CEILING FAN W/LIGHT
GFCI	20A/120V GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET	A	WALL MOUNT LIGHT FIXTURE, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		
WP GFCI	20A/120V GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET W/ WATERPROOF COVER	A WP	WALL MOUNT LIGHT FIXTURE WATERPROOFED, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		POWER PANEL, SWITCHBOARD
	20A/120V FLOOR DUPLEX RECEPTACLE W/ GROUNDING	E	EMERGENCY LIGHT FIXTURE, RECHARMNSBLE BATTERY TYPE		
240V	SPECIAL PURPOSE OUTLET, SUBSCRIPT FOR IDENTIFICATION		CEILING MOUNT EXIT SIGN	A	CEILING MOUNT FLUORESCENT LIGHT FIXTURE, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION
A	SINGLE POLE SWITCH, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		WALL MOUNT EXIT SIGN		
2 A	2-WAY SWITCH, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		TWO SIDE EXIT SIGN	A	WALL MOUNT FLUORESCENT LIGHT FIXTURE, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION
3 A	3-WAY SWITCH, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		EXHAUST FAN		
4 A	4-WAY SWITCH, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		EXHAUST FAN W/ LIGHT	E	PULL BOX
D A	DIMMER SWITCH, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION		SERVICE RATED NON-FUSABLE DISCONNECT SWITCH		GROUND
T A	TIMER SWITCH, SUBSCRIPT FOR FIXTURE GROUP DESIGNATION	G	GENERATOR	I	IONIZATION SMOKE DETECTOR
M	JUNCTION BOX, WALL MOUNT		TV CABLE OUTLET	CO	CARBON MONOXIDE DETECTOR
J	JUNCTION BOX, CEILING MOUNT		TELEPHONE OUTLET		POWER COMPANY METER
DB	DOOR BELL		TELEPHONE/DATA OUTLET		UTILITY POLE
240V WH	TANKLESS WATER HEATER	WH	WATER HEATER		STAIR LIGHT W/ DUSK TO DAWN SENSOR

NOTES:

1. All work shall be per National Electric Code, FBC 6th edition (2017), local Power Company rules and any other applicable standards.
2. Drawings shown are diagrammatic in nature and will not show all fittings, bends and accessories required for the construction. Contractor shall be responsible for evaluating field conditions prior commencing the work.
3. Contractor shall verify and test grounding and insure it complies with latest NEC.
4. Electrical conduit shall be bedded in compacted clean pea-rock 6" all sides minimum.
5. All backfill material shall be compacted to 95% of standard Proctor test.
6. All electrical equipment shall be grounded per NEC.
7. All hardware and equipment shall be UL labeled and UV rated for exterior use.
8. Contractor shall not cut any structural members without prior approval by the Engineer.
9. Minimum wire sizes shall be #12 thhn/thwn unless otherwise is specified.
10. All conductors shall be copper run in galvanized metallic conduits unless otherwise is specified.
11. All pull and junction boxes shall be accessible at all times.
12. All conductors shall be ran without splices.
13. All fixtures shall be supported in accordance with manufacturer specifications and per NEC.
14. Smoke detectors shall be hardwired and have battery back-up. Interconnection of the detectors shall allow all to sound at once.
15. All Breakers shall be GFCI unless otherwise is permitted by the latest NEC.
16. All receptacles shall be Ground Fault Circuit Interrupted type (GFCI).
17. All outdoor receptacles shall be water and tamperproof GFCI type.
18. Branch circuits shall be properly balanced.
19. Electrical Contractor shall coordinate his work with other trades to eliminate conflicts and provide functional system.
20. Foundation reinforcement shall be bonded with grounding per NEC.
21. All electrical equipment shall be located above Base Flood Elevation.
22. Styles of all electrical fixtures, outlets, switches shall be reviewed and approved by the Owner prior any purchasing or installation.



ELECTRICAL RISER DIAGRAM
NTS

NOTE: ALL METAL OBJECTS IN AND AROUND BUILDING AND DECK AREA SHALL BE BONDED WITH MINIMUM #8 SOLID COOPER CONDUCTOR USING BRASS OR COPPER BONDING CLAMPS AND COMPLY WITH ARTICLE 680 OF N.E.C.

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1300 White St,
Key West, FL 33040

PROJECT: Smathers Beach Bathroom West

SITE: 1910 S Roosevelt Blvd,
Key West, FL 33040

TITLE: Electrical Symbol Legend

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
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1902-05	E-102		1