

CONSTRUCTION PLANS FOR SMATHERS BEACH PAVILIONS



LOCATION MAP:

SITE LOCATION

CITY OF KEY WEST
ARTIBUS DESIGN TASK ORDER #2212-01

PROJECT LOCATION:
SMATHERS BEACH,
2018 S ROOSEVELT BLVD,
KEY WEST, FL 33040

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SERGE MASHTAKOV
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STATE OF FLORIDA
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ARTIBUS DESIGN

3710 N. ROOSEVELT BLVD
KEY WEST, FL 33040
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WWW.ARTIBUSDESIGN.COM
CA # 30835

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

PROJECT: SMATHERS BEACH
PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: COVER

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
AS SHOWN	11/29/23	SAM	SAM
PROJECT NO:	DRAWING NO:	REVISION:	
1907-20	G-100	1	



PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF THE RENOVATIONS AND RE-ROOFING OF SEVEN (7) BEACH PAVILION STRUCTURES LOCATED ALONG SMATHERS BEACH. IMPROVEMENTS INCLUDE BUT ARE NOT LIMITED TO:

- REMOVAL AND DISPOSAL OF ALL ROOFING, FRAMING HARDWARE AS NEEDED FOR NEW INSTALLATION
- REMOVAL STORAGE AND REINSTALLATION OF ANY EXISTING FURNITURE LOCATED UNDER THE PAVILION ROOFS AS NEEDED FOR NEW INSTALLATION.
- MANUAL EXCAVATION OF ACCRETED SAND AROUND PAVILION SUPPORTS.
- NO VEHICLES SHALL DRIVE OR PARK OVER THE SAND.
- ALL STORAGE AND STAGING SHALL BE OFF-SITE.
- INSTALLATION OF ALL NEW FRAMING, HARDWARE AND ROOFING AS SHOWN ON THE PLANS.

SITE MAP
SCALE: NTS

NOTES:
 1. NO IMPACTS ARE TO OCCUR TO ANY VEGETATION SURROUNDING THE WORK AREAS, ESPECIALLY THE SEA OATS. TREE PROTECTION BARRIERS SHALL BE INSTALLED TO PROTECT THE VEGETATIVE AREAS FROM IMPACTS OF DEMOLITION, STAGING, AND RECONSTRUCTION.
 2. ANY WORK THAT OCCURS BETWEEN APRIL 15 AND OCTOBER 31 MUST INCORPORATE SEA TURTLES PROTECTION MEASURES.
 3. THE CONTRACTOR SHALL USE THE BRIDAL PATH AS A STAGING AREA FOR ALL CONSTRUCTION MATERIALS.
 4. THE CONTRACTOR SHALL MEET ALL CITY OF KEY WEST CODE OF ORDINANCES INCLUDING BUT NOT LIMITED TO ARTICLE IV. - COASTAL RESOURCES, SECTIONS 110-181 - COASTAL IMPACTS; 110-182 - SHORELINE VEGETATION AND STABILITY; AND 110-189 - SHORELINE ACCESS AND PROTECTION OF NATURAL SHORELINE AND LIMITED BEACH/DUNE SYSTEM.

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PROJECT: SMATHERS BEACH PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
 KEY WEST, FL 33040

TITLE: SITE MAP

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1907-20	G-101	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.
5. THE ENGINEER AND THE CITY SHALL REVIEW ALL SUBMITTALS AND PROVIDE TIMELY TURNAROUND OF REVIEWS.
6. THE CONTRACTOR SHALL FURNISH PROJECT SCHEDULE PRIOR TO BEGINNING WORK.

DESIGN DATA:

1. APPLICABLE BUILDING CODE: FBC 7TH EDITION (2020)
2. APPLICABLE DESIGN LOADS: PER ASCE/SEI 7-16
 ROOF LIVE LOAD: 20 PSF (300 LB CONC.)
 BASIC WIND SPEED: 180 MPH
 EXPOSURE: D
 STRUCTURAL CATEGORY: II
 FLOOD ZONE: VE11/VE13
 FLOOD RESISTANT DESIGN AND CONSTRUCTION PER ASCE 24-14
 FLOOD DESIGN CLASS 2, WET FLOOD PROOFING

ALL PRESSURES SHOWN ARE BASED ON ASD DESIGN WITH A LOAD FACTOR OF 0.6.

REINFORCEMENT (GFRP, ONLY WHERE SPECIFIED):

1. WHERE SPECIFIED, REINFORCING SHALL BE GLASS FIBER REINFORCED POLYMER REBAR MANUFACTURED BY MST-BAR AND CONFORM TO ASTM DESIGNATION D7957. REINFORCEMENT SHALL USE VINYL ESTER RESIN AND BORON FREE ECR GLASS FIBERS WITH 145 KSI MIN TENSILE STRENGTH (FU) AND 8700 KSI MIN (6600 KSI ALLOWED FOR #3 BAR ONLY) MODULUS OF ELASTICITY (E).
2. ALL REINFORCEMENT SHALL BE CONTINUOUS. STAGGER SPLICES IN ADJACENT LAP SPLICES SHALL BE PER CURRENT ACI 440 MINIMUM LAP LENGTH REQUIREMENTS AND MANUFACTURER'S REQUIREMENTS.
3. HOLD REINFORCEMENT IN ITS INTENDED POSITION WITH DEVICES SUFFICIENTLY NUMEROUS TO PREVENT DISPLACEMENT.
4. GFRP REINFORCEMENT SHALL BE PROTECTED FROM SUNLIGHT.
5. MINIMUM BAR COVERAGE SHALL BE AS FOLLOWS:
 3" FOR CONCRETE CAST AGAINST EARTH.
 2" FOR ALL OTHER REBAR.
6. MINIMUM CLEARANCE BETWEEN BARS SHALL BE 2".
7. MINIMUM REINFORCING LAP SPLICES/DEVELOPMENT LENGTHS (MIN. F'C=3 KSI):
 BAR SIZE HOOK LENGTH (IN) SPLICE LENGTH (IN)
 #3 (3MAX) 4.5 13
 #4 (4EQ) 5.5 18
 #5 (#5 MST) 7.5 35
 #6 (#6 MST) 9.0 50
8. STAGGER NON-CONTACT SPLICES IN WALLS SO THAT NO TWO ADJACENT BARS ARE SPLICED IN THE SAME LOCATION.
9. REINFORCING SHALL BE CONTINUOUS THROUGH ALL COLD JOINTS WITH FULL LAP LENGTHS ON EACH SIDE, MINIMUM .
10. PROVIDE CORNER BARS PER DETAILX/SXX AT CORNERS AND INTERSECTING WALLS AND FOOTINGS, SIZE AND PLACEMENT TO MATCH HORIZONTAL REINFORCEMENT, U.N.O.
11. ALL REINFORCEMENT SHALL BE BENT BY MANUFACTURER. NO FIELD BENDING OF MST-BAR.
12. WET SETTING OF REINFORCING BARS IN FOOTINGS AND WALLS IS NOT ALLOWED

AUGER PILES:

1. AUGER PILES SHALL BE 16" DIAMETER WITH MINIMUM EMBEDMENT OF 4FT MIN. BELOW EXISTING (PRE-CONSTRUCTION) GRADE, 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) #5 GFRP REBAR VERTICAL WITH #3 GFRP HOOPS AT 10" O.C. CONTRACTOR SHALL USE PLASTIC CHARS OR CENTRALIZERS TO PROVIDE A 3" COVER ON ALL SIDES OF THE REINFORCEMENT.

CONCRETE:

4. APPLICABLE CODE ACI 318 LATEST EDITION AND ACI 301.
5. ALL CONCRETE ELEMENTS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 5000 PSI UNLESS OTHERWISE NOTED ON THE PLANS. WATER/CEMENT RATIO SHALL NOT EXCEED W/C=0.40.
6. ALL CAST-IN-PLACE CONCRETE SHALL BE CURED AND PROTECTED FROM OVERDRYING PER ACI 305R-10 "HOT WEATHER CONCRETING".
7. ALL EXPOSED EDGES SHALL HAVE 1/2" CHAMFERS.
8. NO COLD JOINTS ARE ALLOWED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
9. TESTING: NOT REQUIRED

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 NO1 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 2020. NAILS AND OTHER FASTENERS FOR PT WOOD SHALL BE STAINLESS STEEL.
6. SHEATHING SHALL BE 3/4" 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

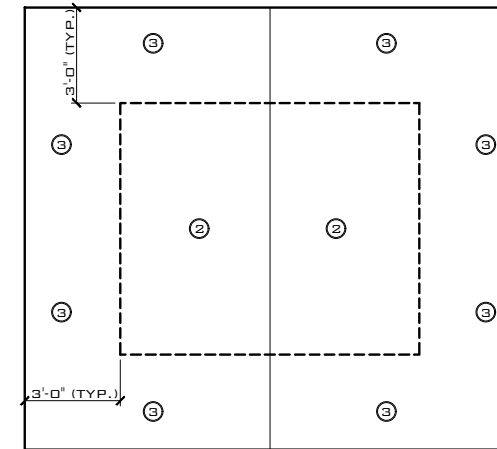
1. HARDWARE SHALL BE 316 STAINLESS STEEL OR BETTER UNLESS OTHERWISE SPECIFIED.
2. ALL CONNECTORS SHALL HAVE STAINLESS STEEL SCREWS AND FASTENERS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL COMPONENTS SHALL BE AS DESCRIBED IN "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AISC 360 OR LATER EDITION.
2. HSS SHAPES (STRUCTURAL TUBING) SHALL BE ASTM A240 316/316L. (FY=30 KSI)
3. STEEL PLATES, FLANGES AND MISCELLANEOUS ELEMENTS SHALL BE ASTM A240 316/316L (FY=30 KSI) UNLESS NOTED OTHERWISE ON THE PLANS.
4. W-SHAPES, C-SHAPES AND OTHER FORMED STEEL SHALL BE ASTM A240 316/316L (FY=30 KSI).
5. ALL WELDING SHALL BE IN CONFORMANCE WITH THE LATEST SPECIFICATIONS AWS D1.6/D1.6M:2017, STRUCTURAL WELDING CODE - STEEL.
6. BOLTS: 316 STAINLESS STEEL. ASTM F593, ASTM F594-09(2020) HEX NUTS, ASTM A240 WASHERS.
 ANCHOR BOLTS: 316 STAINLESS STEEL. ASTM A240 316/316L (FY=30 KSI).

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.



ROOF WIND PRESSURES DIAGRAM
SCALE: NTS

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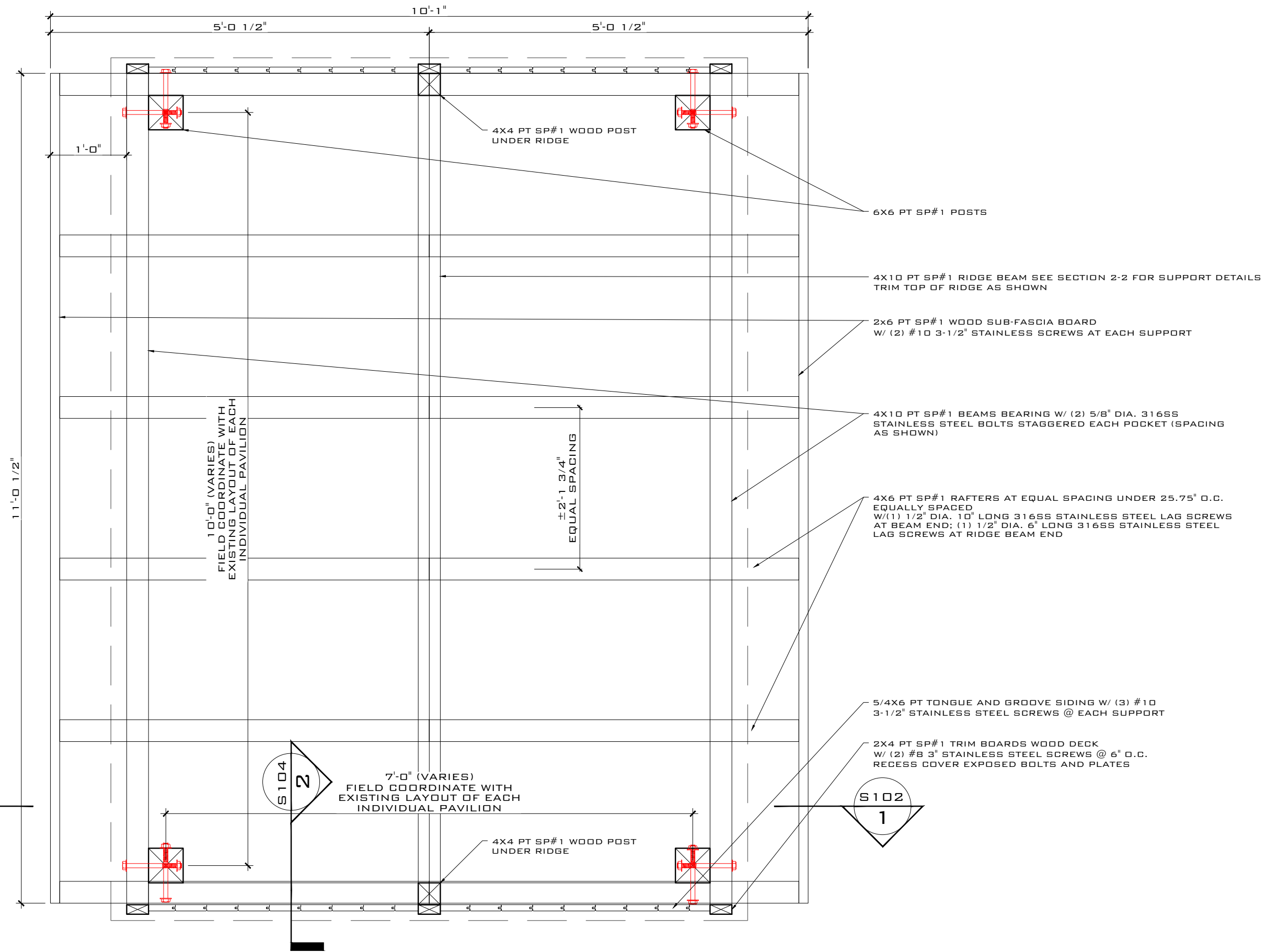
PROJECT: SMATHERS BEACH
PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: NOTES

SCALE AT 11x17: DATE: DRAWN: CHECKED:
AS SHOWN 05/31/24 SAM SAM
PROJECT NO: DRAWING NO: REVISION:
1907-20 S-100 1

OPEN STRUCTURE - 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	+48.03	-33.28
ZONE 2	1	1	1	+73.90	-51.73
ZONE 3	1	1	1	+96.06	-66.55



FRAMING PLAN

SCALE: 3/4" = 1'-0"

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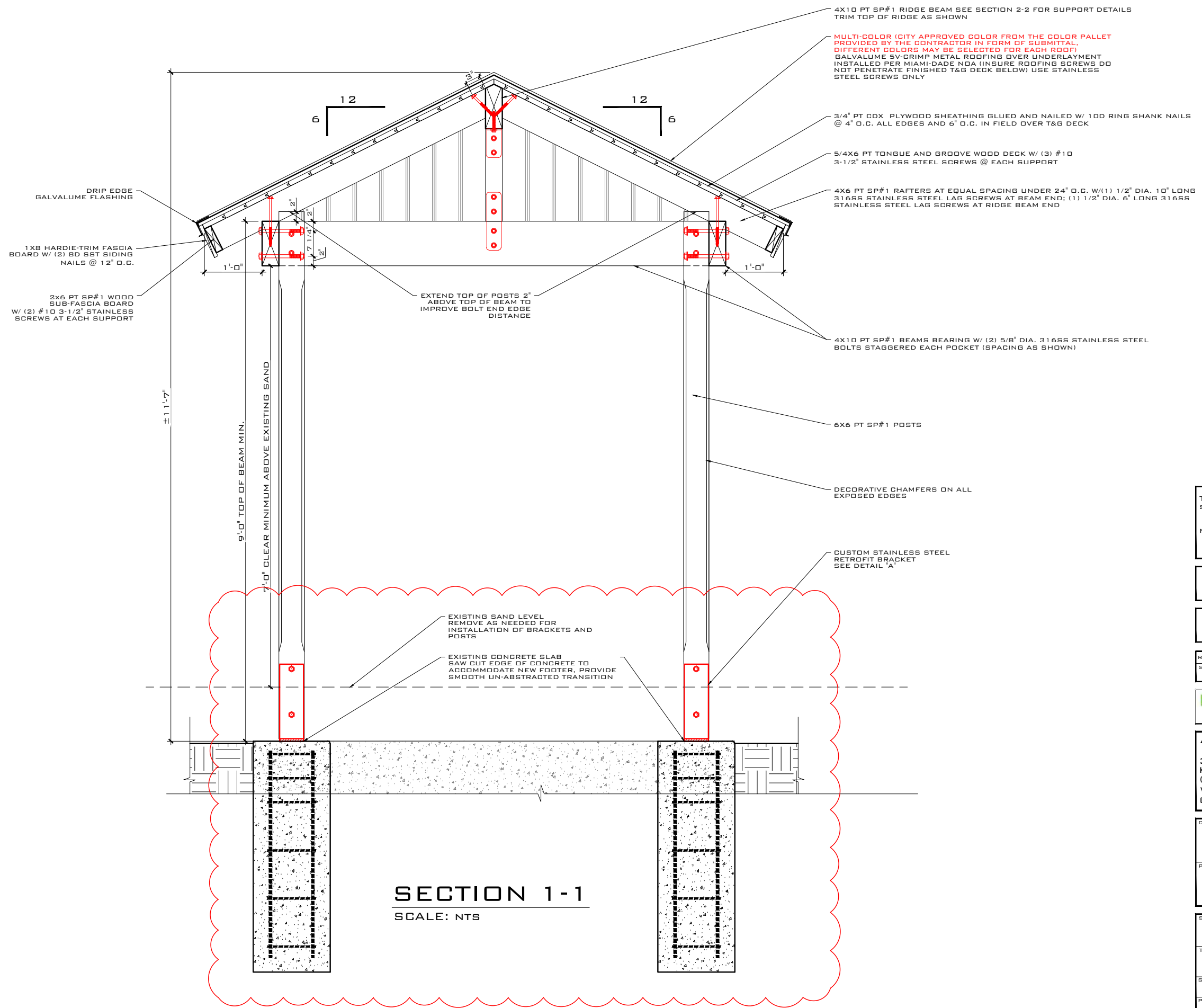
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KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: FRAMING PLAN

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SECTION 1-1
SCALE: NTS

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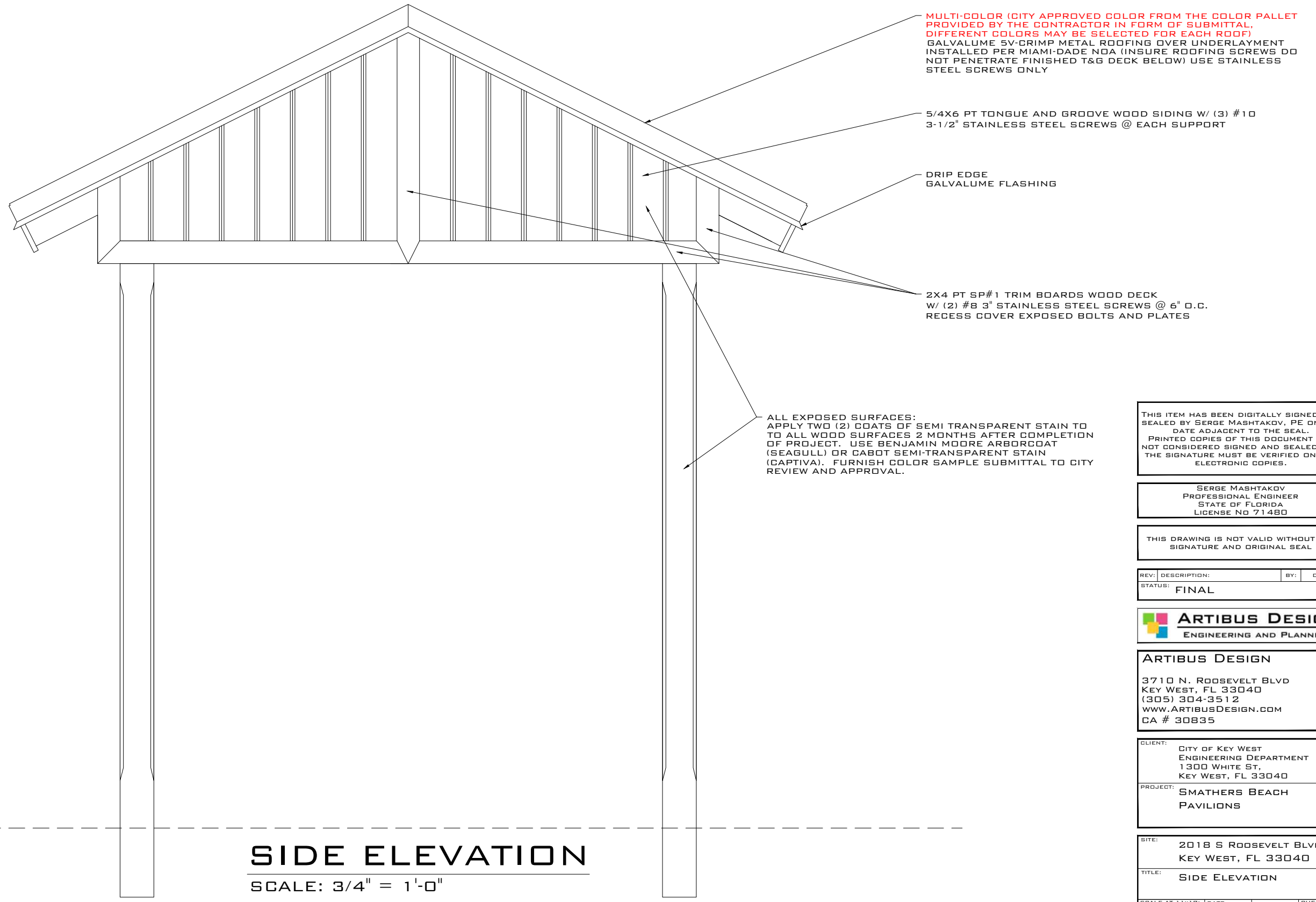
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PAVILIONS

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KEY WEST, FL 33040

TITLE: SECTION 1-1

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SIDE ELEVATION
 SCALE: 3/4" = 1'-0"

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PROJECT: SMATHERS BEACH
 PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
 KEY WEST, FL 33040

TITLE: SIDE ELEVATION

SCALE AT 11x17:	DATE:	DRAWN:	CHECKED:
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1907-20	S-103	1	

(2) 1/2" DIA. 4" 316SS LAG SCREWS AS SHOWN, PRE-DRILL 3/8" DIA. GUIDE-HOLES TO AVOID SPLITTING

DRIP EDGE GALVALUME FLASHING

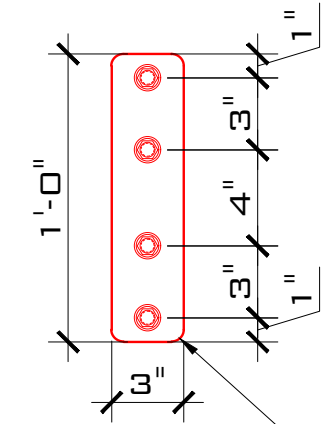
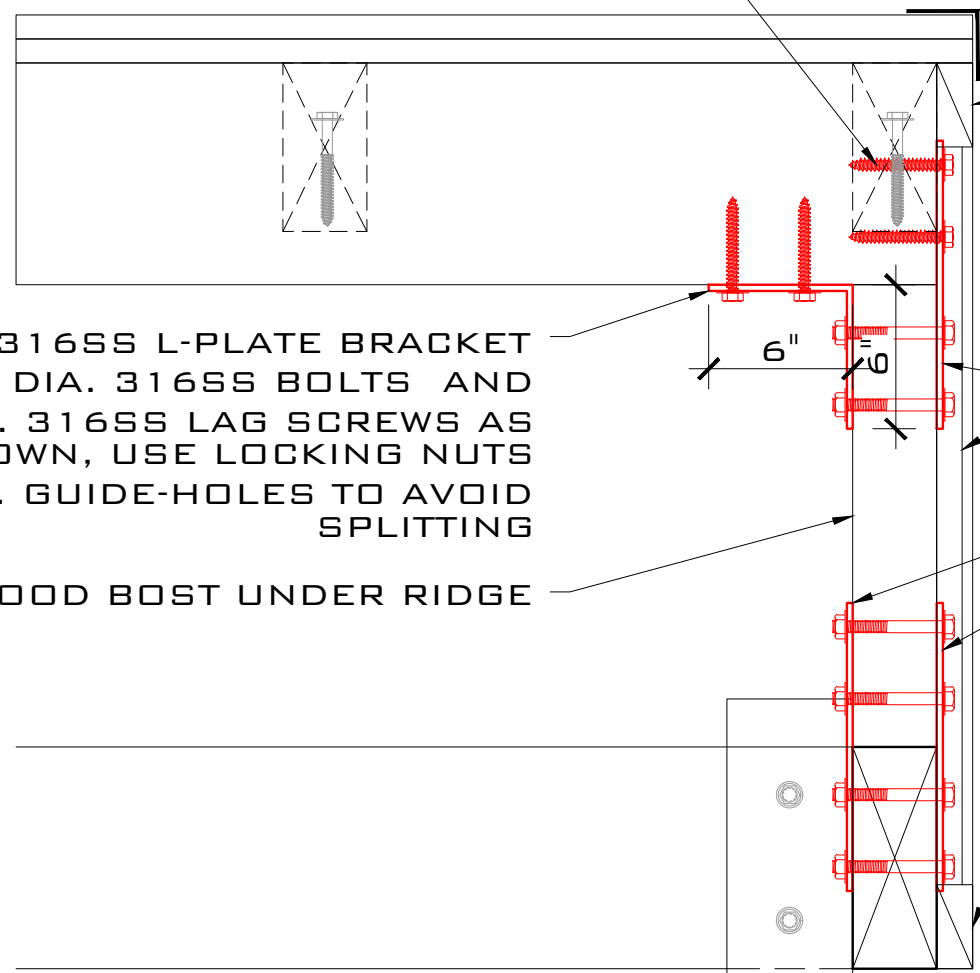
2X4 PT SP#1 TRIM BOARDS WOOD DECK W/ (2) #8 3" STAINLESS STEEL SCREWS @ 6" O.C. RECESS COVER EXPOSED BOLTS AND PLATES

5/4X6 PT TONGUE AND GROOVE WOOD SIDING W/ (3) #10 3-1/2" STAINLESS STEEL SCREWS @ EACH SUPPORT

CUSTOM 1/4" 316SS PLATE BRACKET 3"x12" W/ (4) 1/2" DIA. 316SS BOLTS AS SHOWN, USE LOCKING NUTS

CUSTOM 1/4" 316SS L-PLATE BRACKET 3"x12" W/ (2) 1/2" DIA. 316SS BOLTS AND (2) 1/2" DIA. 316SS LAG SCREWS AS SHOWN, USE LOCKING NUTS PRE-DRILL 3/8" DIA. GUIDE-HOLES TO AVOID SPLITTING

4X4 PT SP#1 WOOD BOST UNDER RIDGE



ROUNDED CORNERS AND EASED EDGES FOR ALL CUSTOM BRACKETS

SECTION 2-2

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

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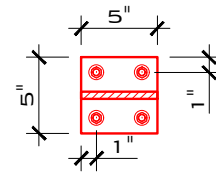
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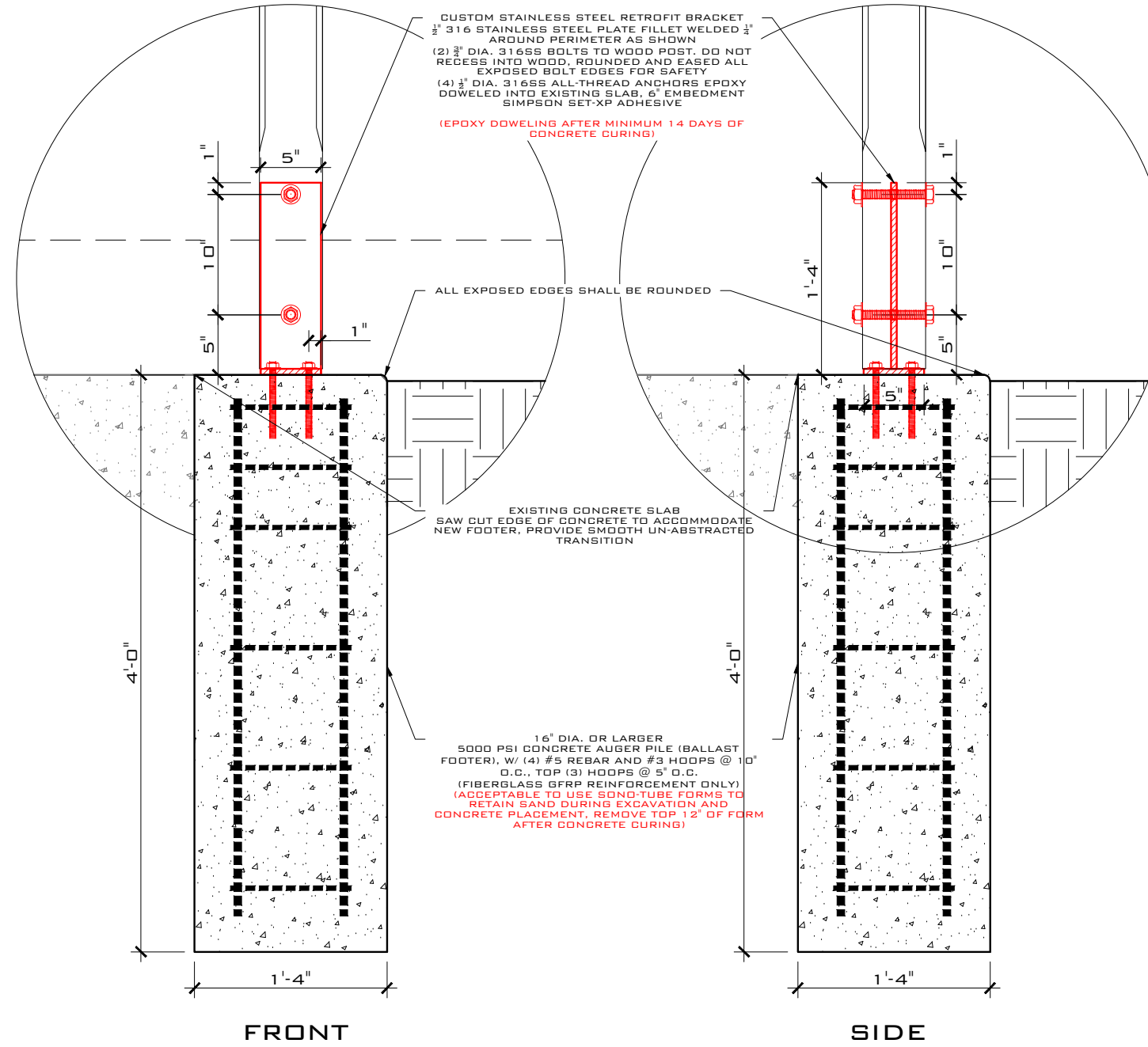
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TITLE: SECTION 2-2

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TOP



CUSTOM STAINLESS STEEL RETROFIT BRACKET
 1/2" 316 STAINLESS STEEL PLATE FILLET WELDED 1/4"
 AROUND PERIMETER AS SHOWN
 (2) 3/8" DIA. 316SS BOLTS TO WOOD POST. DO NOT
 RECESS INTO WOOD, ROUNDED AND EASED ALL
 EXPOSED BOLT EDGES FOR SAFETY
 (4) 3/8" DIA. 316SS ALL-THREAD ANCHORS EPOXY
 DOWELED INTO EXISTING SLAB, 6" EMBEDMENT
 SIMPSON SET-XP ADHESIVE

(EPOXY DOWELING AFTER MINIMUM 14 DAYS OF
 CONCRETE CURING)

ALL EXPOSED EDGES SHALL BE ROUNDED

EXISTING CONCRETE SLAB
 SAW CUT EDGE OF CONCRETE TO ACCOMMODATE
 NEW FOOTER, PROVIDE SMOOTH UN-ABSTRACTED
 TRANSITION

16" DIA. OR LARGER
 5000 PSI CONCRETE AUGER PILE (BALLAST
 FOOTER), W/ (4) #5 REBAR AND #3 HOOPS @ 10"
 O.C., TOP (3) HOOPS @ 5" O.C.
 (FIBERGLASS GFRP REINFORCEMENT ONLY)
 (ACCEPTABLE TO USE SOND-TUBE FORMS TO
 RETAIN SAND DURING EXCAVATION AND
 CONCRETE PLACEMENT, REMOVE TOP 12" OF FORM
 AFTER CONCRETE CURING)

FRONT

SIDE

DETAIL "A"
 REVISED

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

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 PAVILIONS

SITE:
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TITLE:
 DETAIL "A" - REVISED

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