CITY OF MEXICO BEACH
BOAT RAMP REPAIRS & EXPANSION

ADDENDUM NO. 2
REQUESTS FOR INFORMATION

Issued May 07, 2026

The Bid Due Date and Time remain the same. Bids are due on Friday, May 15th, 2026 until 2:00 p.m. (Central).

The following questions were received from potential bidders and are addressed below:

1. No coating or corrosion protection requirements for the steel sheet piles were found in the plans. Please confirm if piles are to be bare or coated. If coated, provide the required system and extent.

   City's Response to Request for Information Question No. 1: Line items have been added to the bid form and notes added to the drawings for an inorganic zinc primer, full length, both sides + 16 mils coal tar epoxy on the exposed side from top of sheet piles to -5 ft below the mud line. See attached product info sheets for recommended products; this is only an example system and an equal product will also be considered as long as the specifications above are met. In addition, an alternate has been added to the bid form for a 24 mils poly-eurea (factory applied) top coat at 15' on both sides of the sheet piles, which matches the coating on the existing sheet piles in the City canal. The City will review products and pricing and select the coating system to be applied.

2. Regarding the ramp/sheet pile: What kind of coating and how much?

   City's Response to Request for Information Question No. 2: Refer to response for Question 1.

3. I also noticed on page S102 and S103 for the boat ramp cross section shows the placement of 6" of #57 stone compacted at 98% of a modified proctor. #57 stone can not be tested for compaction. This material type has only large size aggregate. There are no fines in this material, as a result it cannot be tested for compaction.

   City's Response to Request for Information Question No. 3: #57 stone is to be installed in 3" to 4" lifts over a stable subgrade and compacted using a plate compactor or similar equipment to ensure the material is properly set and no movement is occurring.

4. Did not see any reference to any type of coating requirement for the SKZ20 sheetpile. Are all the SKZ20 sheetpile bare?

City's Response to Request for Information Question No. 4: Refer to response for Question 1.

5. Sheet GS501 section G shows the ¾" x 18" "J" bolts and hardware to be stainless steel. Can a cheaper option of bare steel or galvanized be used as it is all encompassed into the concrete slab as well as the rebar and steel sheetpile next to it are bare steel?

City's Response to Request for Information Question No. 5: To maintain long term durability, the bolts and hardware are to be stainless steel as specified.

6. Sheet S502 states "PVC or timber edge guard by others." Is the edge guard excluded from the scope of this project?

City's Response to Request for Information Question No. 6: The edge guard is included as part of this project scope. For clarification, a separate line item has been added to the bid form for this.

In addition to the above-received questions, the City makes the following additional modifications to this project.

See APPENDIX A – COATING SPECIFICATIONS attached herein (***Attachment A of this Addendum***).

Please **REMOVE** the DRAWINGS and **REPLACE** with the revised APPENDIX B - DRAWINGS attached herein (***Attachment B of this Addendum***).

Please **REMOVE** the BID FORM and **REPLACE** with the revised BID FORM attached herein (***Attachment C of this Addendum***).

Please **REMOVE** SECTION 01150 MEASUREMENT & PAYMENT and **REPLACE** with the revised SECTION 01150 MEASUREMENT & PAYMENT attached herein (***Attachment D of this Addendum***).

CITY OF MEXICO BEACH
BOAT RAMP REPAIRS & EXPANSION

ATTACHMENT A

COATING SPECIFICATIONS

Protective & Marine Coatings

TARGUARD®
COAL TAR EPOXY

PART A	B69B60	BLACK
PART A	B69R60	RED
PART B	B69V60	HARDENER

Revised: June 15, 2020

PRODUCT INFORMATION

4.72

PRODUCT DESCRIPTION

TARGUARD COAL TAR EPOXY is a high build, polyamide epoxy coal tar coating.

Meets the following specifications:
- Corps of Engineers Formula C-200a
- SSPC Paint 16 Specification
- AWWA C-210, Non-Potable Water Applications

PRODUCT CHARACTERISTICS

Finish:	Semi-Gloss
Color:	Black, Red
Volume Solids:	74% ± 2%, mixed
Weight Solids:	82% ± 2%, mixed
VOC (calculated): mixed	Unreduced: <250 g/L; 2.08 lb/gal Reduced 10%: <300 g/L; 2.5 lb/gal
Mix Ratio:	2 component, premeasured 4:1 5 gallons mixed

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**11.0** (275)	**22.0** (550)
Dry mils (microns)	**8.0*** (200)	**16.0*** (400)
~Coverage sq ft/gal (m^2/L)	**74** (1.8)	**148** (3.6)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1184** (29)	

*See Performance Tips section

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 11.0 mils wet (275 microns):

	@ 50°F/10°C	@ 77°F/25°C *50% RH*	@ 100°F/38°C
To touch:	14 hours	8-10 hours	2 hours
To recoat:			
minimum:	48 hours	18 hours	5 hours
maximum:	72 hours	72 hours	12 hours
To cure:	7 days	3-4 days	2 days

If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.

Pot Life:	2.5 hours	2 hours	1 hour
Sweat-in-time:	15 minutes	10 minutes	none

Shelf Life:	Part A: 8 months, unopened Part B: 36 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
Flash Point:	82°F (28°C), PMCC, mixed
Reducer/Clean Up:	Xylene, R2K4
In California:	Reducer R7K111 or Oxsol 100

RECOMMENDED USES

For use over prepared substrates such as steel and concrete in industrial environments.
- Penstocks
- Dam gates
- Petroleum storage tanks
- Heavy duty structural coating
- Non-potable water tank and pipe coating
- Acceptable for use with cathodic protection systems
- Liner for clarifiers
- Marine applications
- Offshore drilling rigs

PERFORMANCE CHARACTERISTICS

Substrate*: Steel
Surface Preparation*: SSPC-SP6/NACE 3
System Tested*:
1 ct. TarGuard Coal Tar Epoxy @ 10.0 mils (250 microns) dft
*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	137 mg loss
Adhesion	ASTM D4541	1000 psi
Direct Impact Resistance	ASTM D2794	36 in. lb.
Dry Heat Resistance (quench test only)	ASTM D2485	350°F (177°C)
Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 3000 hours	Excellent
Pencil Hardness	ASTM D3363	F
Salt Fog Resistance	ASTM B117, 3000 hours	Excellent
Thermal Shock	ASTM D2246, 100 cycles	Excellent
Wet Heat Resistance	Non-immersion	120°F (49°C)

continued on back

Protective & Marine Coatings

TARGUARD®
COAL TAR EPOXY

PART A	B69B60	BLACK
PART A	B69R60	RED
PART B	B69V60	HARDENER

Revised: June 15, 2020

PRODUCT INFORMATION

4.72

RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	(Microns)
Concrete, atmospheric or immersion:			
2 cts.	TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Steel, atmospheric or immersion:			
2 cts.	TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Steel, atmospheric or immersion:			
1 ct.	Macropoxy 240	3.0-5.0	(75-125)
2 cts.	TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Steel, atmospheric or immersion:			
1 ct.	Zinc Clad 4100	3.0-5.0	(75-125)
1 ct.	TarGuard Coal Tar Epoxy	12.0-16.0	(300-400)
1 ct.	TarGuard Coal Tar Epoxy	12.0-16.0	(300-400)
Steel, zinc rich primer, atmospheric only:			
1 ct.	Zinc Clad II Plus	3.0	(75)
2 cts.	TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Aluminum, atmospheric only:			
2 cts.	TarGuard Coal Tar Epoxy	2.0-4.0	(50-100)
Galvanized Metal, atmospheric only:			
2 cts.	TarGuard Coal Tar Epoxy	2.0-4.0	(50-100)

The systems listed above are representative of the product's use, other systems may be appropriate.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Iron & Steel:
- Atmospheric: SSPC-SP6/NACE 3, 2 mil (50 micron) profile
  SSPC-WJ2/NACE WJ-2 (Type M Flash rust), 2.0-3.0 mils (50-75 microns) profile
- Immersion: SSPC-SP10/NACE 2, 2.5-4.0 mil (63-100 micron) profile
  SSPC-WJ2/NACE WJ-2 (Type M Flash rust), 2.0-3.0 mils (50-75 microns) profile

Aluminum: Brush Blast, 2 mil (50 micron) profile

Galvanizing: Brush Blast, 2 mil (50 micron) profile

Concrete & Masonry:
- Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3
- Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 1-3

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:	50°F (10°C) minimum, 120°F (49°C) maximum (air, surface, and material)
	At least 5°F (2.8°C) above dew point
Relative humidity:	90% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:	5 gallons (18.9L) mixed
Part A:	4 gallons (15.1L) in a 5 gallon (18.9L) container
Part B:	1 gallon (3.78L)
Weight:	10.7 ± 0.2 lb/gal ; 1.3 Kg/L, mixed

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Protective & Marine Coatings

TARGUARD®
COAL TAR EPOXY

PART A	B69B60	BLACK
PART A	B69R60	RED
PART B	B69V60	HARDENER

Revised: June 15, 2020

APPLICATION BULLETIN

4.72

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel, Immersion Service:
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2.5-4.0 mils / 63-100 microns). Ultra High Pressure Hydroblasting / Abrasive Wet Blasting may be applied to surfaces prepared to SSPC-WJ2/NACE WJ-2, allowable flash rusted to no worse than Type (M) Moderate. Pre-existing profile should be approximately 2.0-3.0 mils (50-75 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned.

Iron & Steel, Atmospheric Service:
Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. First remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Ultra High Pressure Hydroblasting / Abrasive Wet Blasting may be applied to surfaces prepared to SSPC-WJ2/NACE WJ-2, allowable flash rusted to no worse than Type (M) Moderate. Pre-existing profile should be approximately 2.0-3.0 mils (50 -75 microns). Prime any bare steel the same day as it is cleaned.

Galvanized Steel/Aluminum
Allow to weather a minimum of six months prior to coating. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1 (recommended solvent is VM&P Naphtha). Lightly brush blast per SSPC-SP 7 to provide a 2 mil (50 micron) profile.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

Follow the standard methods listed below when applicable:
ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Abrading Concrete.
ASTM D4260 Standard Practice for Etching Concrete.
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
ICRI No. 310.2R Concrete Surface Preparation.

Concrete, Immersion Service:
For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 1-3.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:	50°F (10°C) minimum, 120°F (49°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Relative humidity:	90% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up .....Xylene, R2K4
In California.....Reducer R7K111 or Oxsol 100

Airless Spray
Pressure.....3000 psi
Hose.....3/8" - 1/2" ID
Tip .....017" - .025"
Filter ..... None
Reduction.....As needed up to 10% by volume

Conventional Spray (bottom feed tank recommended)
Gun .....Binks 95
Fluid Nozzle 66
Air Nozzle.....63PB
Atomization Pressure.....60 psi
Fluid Pressure.....40 psi
Reduction.....As needed up to 10% by volume

Brush
Brush.....Small areas only; natural bristle
Reduction.....Not recommended

Roller
Cover .....Small areas only; 3/8" - 1/2" woven with solvent resistant core
Reduction.....Not recommended

If specific application equipment is not listed above, equivalent equipment may be substituted.

continued on back

Protective & Marine Coatings

TARGUARD®
COAL TAR EPOXY

PART A	B69B60	BLACK
PART A	B69R60	RED
PART B	B69V60	HARDENER

Revised: June 15, 2020

APPLICATION BULLETIN

4.72

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine four parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using.

If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**11.0** (275)	**22.0** (550)
Dry mils (microns)	**8.0*** (200)	**16.0*** (400)
~Coverage sq ft/gal (m^2/L)	**74** (1.8)	**148** (3.6)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1184** (29)	

*See Performance Tips section

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 11.0 mils wet (275 microns):

	@ 50°F/10°C	@ 77°F/25°C *50% RH*	@ 100°F/38°C
To touch:	14 hours	8-10 hours	2 hours
To recoat:			
minimum:	48 hours	18 hours	5 hours
maximum:	72 hours	72 hours	12 hours
To cure:	7 days	3-4 days	2 days
If maximum recoat time is exceeded, abrade surface before recoating.			
Drying time is temperature, humidity, and film thickness dependent.			
Pot Life:	2.5 hours	2 hours	1 hour
Sweat-in-time:	15 minutes	10 minutes	none

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. In California use Reducer R7K111 or Oxsol 100. Follow manufacturer's safety recommendations when using any solvent.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Xylene, R2K4. In California use Reducer R7K111 or Oxsol 100.

Coating must be fully cured before placing into immersion service.

For wet-on-wet application, apply first coat at 8-10 mils (200-250 microns) dft and let flash for 45 minutes. Then apply a second coat at 8-10 mils (200-250 microns) dft.

For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Quik-Kick Epoxy Accelerator is acceptable for use. See data page 4.99 for details.

When coating over aluminum and galvanizing, recommended dft is 2-4 mils (50-100 microns).

Refer to Product Information sheet for additional performance characteristics and properties.

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Protective & Marine Coatings

ZINC CLAD® II PLUS
INORGANIC ZINC-RICH COATING

PART A	B69VZ12	BASE
PART B	B69VZ15	ACCELERATOR
PART F	B69D11	ZINC DUST

Revised: September 25, 2020

PRODUCT INFORMATION

6.13

PRODUCT DESCRIPTION

ZINC CLAD II PLUS is a solvent-based, three component, inorganic ethyl silicate, zinc rich coating. This is fast drying, high solids, low VOC coating with 83%, by weight, of zinc dust in the dry film.

- Coating self-heals to resume protection if damaged
- Provides cathodic/sacrificial protection by the same mechanism as galvanizing
- Forms an inorganic barrier to moisture and solvents
- Meets Class B requirements for Slip Coefficient and Creep Resistance, 0.67
- Meets AASHTO M-300 specification

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	Gray-Green
Volume Solid:	76% ± 2%, mixed
Weight Solid:	90% ± 2%, mixed
VOC (EPA Method 24): (mixed)	Unreduced: <320 g/L; 2.67 lb/gal Reduced 4%: <340 g/L; 2.8 lb/gal
Zinc Content in Dry Film:	83% ± 2% by weight
Mix Ratio:	3 components, premeasured 3.66 gallons (13.8L) mixed

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**3.0** (75)	**6.0** (150)
Dry mils (microns)	**2.0** (50)	**4.0** (100)
~Coverage sq ft/gal (m^2/L)	**305** (7.5)	**610** (15.0)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1219** (28.2)	

Dry film thickness in excess of 6.0 mils (150 microns) per coat is not recommended.

Drying Schedule @ 4.0 mils wet (100 microns):

	@ 40°F/4.5°C	@ 77°F/25°C *50% RH*	@ 100°F/38°C
To touch:	25 minutes	20 minutes	5 minutes
To handle:	1 hour	20 minutes	15 minutes
To topcoat:	7 days	24 hours	8 hours
To cure:	7 days	36 hours	24 hours
To stack:	6 hours	2 hours	1 hour

Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 8 hours @ 77°F (25°C)

High humidity will shorten pot life.

Sweat-in-Time: None required, but material should be mixed for at least 5 minutes before use.

Shelf Life:	Part A: 12 months, unopened Part B: 24 months, unopened Part F: 24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	55°F (13°C)
Reducer/Clean Up: Above 70°F (21°C):	R7K111, R2K5, R2KT4, High Flash Naphtha 150, or R7K155
Below 70°F (21°C):	R2K4, R7K111, R6K9, R2K5, High Flash Naphtha 150, or R7K155

RECOMMENDED USES

For use over prepared blasted steel in areas such as:

- Bridges
- Shop or field application
- Nuclear Power Plants
- Nuclear fabrication shops
- Refineries
- Drilling rigs
- DOE Nuclear Fuel Facilities
- DOE Nuclear Weapons Facilities
- As a one-coat maintenance coating or as a permanent primer for severe corrosive environments (pH range 5-9)
- Ideal for application at low temperatures or service at high temperatures and/or humidity conditions
- Fresh and demineralized water immersion service (non-potable)
- Approved primer for NEPCOAT System D
- This product meets specific design requirements for non-safety related nuclear plant applications in Level II, III and Balance of Plant, and DOE nuclear facilities*.

* Nuclear qualifications are NRC license specific to the facility.

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP10

System Tested*:

1 ct. Zinc Clad II Plus @ 3.0 mils (75 microns) dft

*unless otherwise noted below

Test Name	Test Method	Results
Adhesion	ASTM D4541	12.1 MPa = 1754 lb psi
Direct Impact Resistance	ASTM D2794-92	60 in lbs.
Dry Heat Resistance	ASTM D2485	750°F (399°C)
Flexibility	ASTM D522, 180° bend, 1" mandrel	Passes
Pencil Hardness	ASTM D3363	3H
Radiation Tolerance	ASTM D4082 / ANSI 5.12	Pass at 3.1 mils (77.5 microns) & 6.8 mils (170 microns)
Salt Fog Resistance	ASTM B117, 7000 hours	Rating 9 per ASTM D714 for Blistering; Rating 9 per ASTM D610 for Rusting
Slip Coefficient*	AISC Specifications for Structural Joints using ASTM A325 or ASTM A490 Bolts	Class B, 0.67

Provides performance comparable to products formulated to specifications Mil-P-38336, Mil-P-46105, SSPC Paint 20, and SSPC Paint 29.

*Refer to Slip Certification document

continued on back

Protective & Marine Coatings

ZINC CLAD® II PLUS
INORGANIC ZINC-RICH COATING

PART A	B69VZ12	BASE
PART B	B69VZ15	ACCELERATOR
PART F	B69D11	ZINC DUST

PRODUCT INFORMATION

6.13

RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	(Microns)
Steel, High Performance Acrylic Topcoat, Atmospheric:			
1 ct.	Zinc Clad II Plus	2.0-4.0	(50-100)
1 ct.	Fast Clad HB Acrylic	5.0-8.0	(125-200)
Steel, Immersion:			
1 ct.	Zinc Clad II Plus	2.0-4.0	(50-100)
Steel, Epoxy Topcoat, Atmospheric:			
1 ct.	Zinc Clad II Plus	2.0-4.0	(50-100)
1 ct.	Macropoxy 646	5.0-10.0	(125-250)
Steel, Polyurethane Topcoat, Atmospheric:			
1 ct.	Zinc Clad II Plus	2.0-4.0	(50-100)
1 ct.	Macropoxy 646	5.0-10.0	(125-250)
1 ct.	Acrolon 218 HS	3.0-6.0	(75-150)
Steel, Polyurethane Topcoat, Atmospheric:			
1 ct.	Zinc Clad II Plus	2.0-4.0	(50-100)
1 ct.	Macropoxy 646	5.0-10.0	(125-250)
1 ct.	Hi-Solids Polyurethane	3.0-5.0	(75-125)
Steel, Epoxy Siloxane Topcoat, Atmospheric			
1 ct.	Zinc Clad II Plus	2.0-4.0	(50-100)
1-2 cts.	Polysiloxane XLE-80	3.0-7.0	(75-175)

NOTE: 1 ct. of DTM Wash Primer can be used as an intermediate coat under recommended topcoats to prevent pinholing.

The systems listed above are representative of the product's use, other systems may be appropriate.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Iron & Steel:

Atmospheric: SSPC-SP6/NACE 3, 2 mil (50 micron) profile

Immersion: SSPC-SP10/NACE 2, 2 mil (50 micron) profile

Surface Preparation Standards

Condition of Surface		ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:

Material: 20°F (-7°C) minimum, 95°F (35°C) maximum

Air: 20°F (-7°C) minimum, 115°F (46°C) maximum

Surface: 20°F (-7°C) minimum, 130°F (54°C) maximum

At least 5°F (2.8°C) above dew point

Relative humidity: 95% maximum
Water misting may be required at humidities below 50%

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging: 3.66 gallons (13.8L) total, mixed
Part A: 2.21 gallons (8.3L) kit
Part B: 0.20 gallons (0.75L)
Part F: 73 lbs (33.1 Kg) zinc dust

1.10 gallons (4.2L) mixed
Part A: .66 gallons (2.5L) kit
Part B:(Rex # B69VZ15B) 0.06 gallons (0.2L)
Part F: 22 lbs (10 Kg) zinc dust

Weight: 26.83 ± 0.2 lb/gal ; 3.2 Kg/L, mixed

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.
Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Protective & Marine Coatings

ZINC CLAD® II PLUS
INORGANIC ZINC-RICH COATING

PART A	B69VZ12	BASE
PART B	B69VZ15	ACCELERATOR
PART F	B69D11	ZINC DUST

Revised: September 25, 2020

APPLICATION BULLETIN

6.13

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Zinc rich coatings require direct contact between the zinc pigment in the coating and the metal substrate for optimum performance.

Iron & Steel (atmospheric service):
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Iron & Steel (immersion service):
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Note: If blast cleaning with steel media is used, an appropriate amount of steel grit blast media may be incorporated into the work mix to render a dense, angular 1.5-2.0 mil (38-50 micron) surface profile. This method may result in improved adhesion and performance.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:	
Material:	20°F (-7°C) minimum, 95°F (35°C) maximum
Air:	20°F (-7°C) minimum, 115°F (46°C) maximum
Surface:	20°F (-7°C) minimum, 130°F (54°C) maximum At least 5°F (2.8°C) above dew point
Relative humidity:	95% maximum Water misting may be required at humidities below 50%

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean up
Above 70°F (21°C).....R7K111, R2K5, R2KT4, High Flash Naphtha 150, or R7K155
Below 70°F (21°C).....R2K4, R7K111, R6K9, R2K5, High Flash Naphtha 150, or R7K155

Airless Spray
(use Teflon packings and continuous agitation)
Unit.....Graco 30:1
Pressure.....2700 psi
Hose.....3/8" ID
Tip.....019" - .021"
Filter.....30 mesh
Reduction.....As needed up to 4% by volume*
For continuous operation in larger areas, use Speeflo Airless Commander Zinc Pump. Set ball checks to maximum travel for viscous material.

Conventional Spray
(continuous agitation required)
Gun.....Binks 95
Fluid Nozzle.....66
Fluid Hose.....1/2" ID, 50 ft maximum
Air Nozzle.....63PB
Air Hose.....1/2" ID, 50 ft maximum
Atomization Pressure.....25 psi
Fluid Pressure.....10-20 psi
Reduction.....As needed up to 4% by volume*

*4% maximum for 340 g/L VOC compliance, but can be reduced up to 15%

Keep pressure pot at level of applicator to avoid blocking of fluid line due to weight of material. Blow back coating in fluid line at intermittent shutdowns, but continue agitation at pressure pot.

Brush .....For touch up in small areas only

If specific application equipment is not listed above, equivalent equipment may be substituted.

continued on back

Protective & Marine Coatings

ZINC CLAD® II PLUS
INORGANIC ZINC-RICH COATING

PART A	B69VZ12	BASE
PART B	B69VZ15	ACCELERATOR
PART F	B69D11	ZINC DUST

APPLICATION BULLETIN

6.13

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Zinc Clad II Plus comes in premeasured containers, which when mixed provides ready-to-apply material.

Mixing Instructions:
Thoroughly agitate Binder, Part A, using low speed continuous air driven agitation. Slowly mix all of Zinc Dust, Part F, into all of Binder Part A until mixture is completely uniform. Continue agitation and add Part B. After mixing, pour mixture through 30-mesh screen. Mixed material must be used within 8 hours. Do not mix previously mixed material with new. No "sweat-in" period is required.

If reducer solvent is used, add only after components have been thoroughly mixed.

Continuous agitation of mixture during application is required, otherwise zinc dust will quickly settle out.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**3.0** (75)	**6.0** (150)
Dry mils (microns)	**2.0** (50)	**4.0** (100)
~Coverage sq ft/gal (m^2/L)	**305** (7.5)	**610** (15.0)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1219** (28.2)	

Dry film thickness in excess of 6.0 mils (150 microns) per coat is not recommended.

Drying Schedule @ 4.0 mils wet (100 microns):

	@ 40°F/4.5°C	@ 77°F/25°C *50% RH*	@ 100°F/38°C
To touch:	25 minutes	20 minutes	5 minutes
To handle:	1 hour	20 minutes	15 minutes
To topcoat:	7 days	24 hours	8 hours
To cure:	7 days	36 hours	24 hours
To stack:	6 hours	2 hours	1 hour

Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 8 hours @ 77°F (25°C)

High humidity will shorten pot life.

Sweat-in-Time: None required, but material should be mixed for at least 5 minutes before use.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer R2KT4, 150 Flash Naphtha or R2K4, Xylene. Clean hands and tools immediately after use with Reducer R2KT4, 150 Flash Naphtha or R2K4, Xylene. Follow manufacturer's safety recommendations when using any solvent.

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

PERFORMANCE TIPS

Topcoating: Note minimum cure times at normal conditions before topcoating. Longer drying periods are required if primer cannot be water mist sprayed when humidity is low. Water misting may be required at humidities below 50% to enhance cure rate.

Occasionally topcoats will pinhole or delaminate from zinc-rich coatings. This is usually due to poor ambient conditions or faulty application of topcoats. This can be minimized by:

- Provide adequate ventilation and suitable application and substrate temperature.
- If pinholing develops during topcoating, apply a mist coat of the topcoat, reduced up to 50%. Allow 10 minutes flash off and follow with a full coat.

Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.

Any salting on the zinc surface due to weathering exposure must be removed prior to topcoating.

An intermediate coat is recommended to provide uniform appearance of the topcoat.

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and performance.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer R2KT4, 150 Flash Naphtha.

Keep pressure pot at level of applicator to avoid blocking of fluid line due to weight of material. Blow back coating in fluid line at intermittent shutdowns, but continue agitation at pressure pot.

Application above recommended film thickness may result in mud cracking and poor topcoat appearance.

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. If possible, plan painting schedules to avoid these influences during the first 16-24 hours of curing.

Topcoats may be applied once 50 MEK double rubs are achieved, per ASTM D4752, Rating 4. No zinc or only slight traces should be visible. Coin hardness test can also be used.

Cured films of inorganic zinc coatings contain no appreciable amounts of combustible materials. Both Fire and Smoke Indices would be expected to approach 0.

Zinc Clad III HS, Zinc Clad IV, and Zinc Clad 4100 may be used for repair of damage to fully cured Zinc Clad II Plus.

Refer to Product Information sheet for additional performance characteristics and properties.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CITY OF MEXICO BEACH
BOAT RAMP REPAIRS & EXPANSION

ATTACHMENT B

REVISED DRAWINGS

CONSTRUCTION PLANS FOR

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

PREPARED FOR:

CITY OF MEXICO BEACH, FLORIDA

CERTIFICATE OF AUTHORIZATION No.: 31422

ELIZABETH S. MOORE, P.E. No.: 57607

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS INDICATED BY (*) IN ACCORDANCE WITH RULE 61G15-23.005, F.A.C.

CITY COUNCIL

MAYOR RICHARD WOLFF, COUNCIL GROUP 1

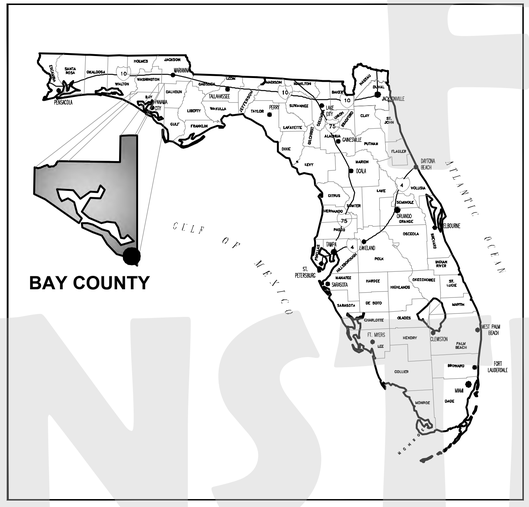
ERIK FOSSHAGE, COUNCIL GROUP 2

LINDA HAMILTON, COUNCIL GROUP 3

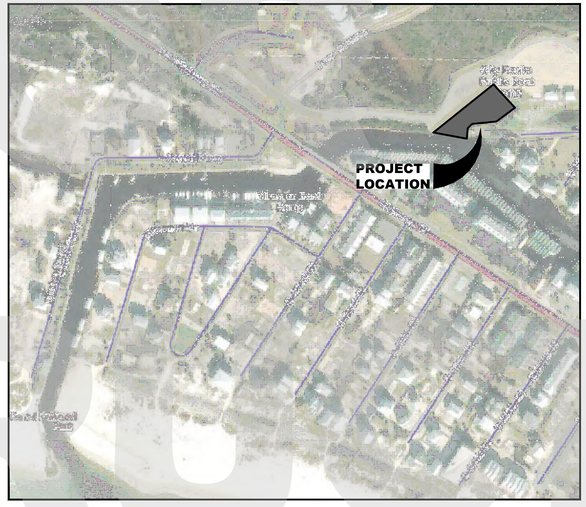
JASON ADAMS, COUNCIL GROUP 4

STEVE COX, COUNCIL GROUP 5

VICINITY MAP



LOCATION MAP



SHEET INDEX

FOR BIDDING PURPOSES ONLY

No.	DATE	DESCRIPTION
3		
2	05/05/26	ADDENDUM 2
1	04/15/26	ADDENDUM 1

DATE: May 5, 2026

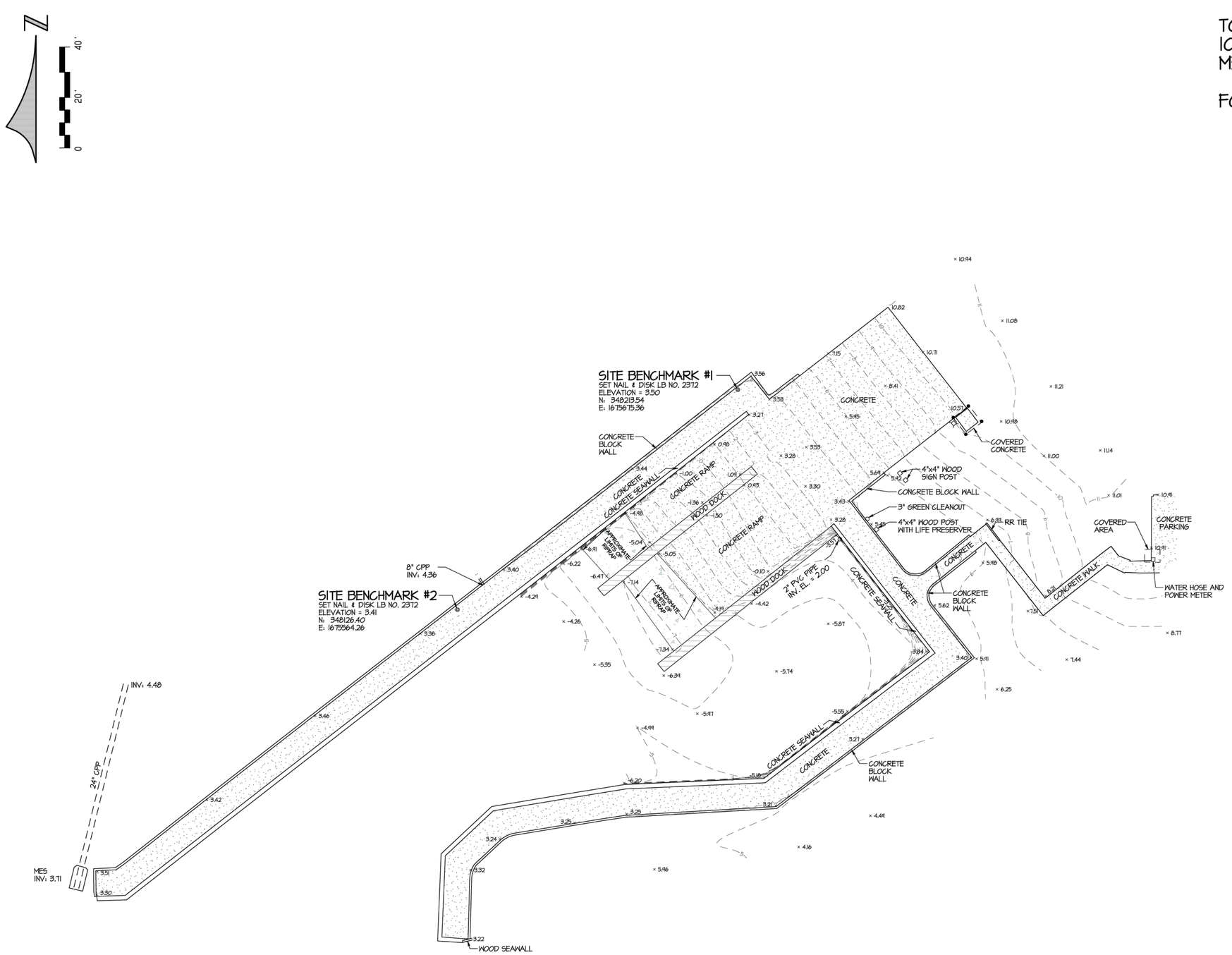
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ELIZABETH S. MOORE LICENSE No. 57607 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

TOPOGRAPHIC SURVEY OF MEXICO BEACH BOAT RAMP
109 44TH STREET
MEXICO BEACH, FLORIDA

FOR: ANCHOR CEI, INC.



SYMBOLS & ABBREVIATIONS

N	NORTH
S	SOUTH
E	EAST
W	WEST
°	DEGREES
'	MINUTES OR FEET
"	SECONDS OR INCHES
LB	LAND SURVEYOR BUSINESS
NO.	NUMBER
EL.	ELEVATION
PVC	POLYVINYL CHLORIDE
MES	MITERED END SECTION
INV	INVERT

THIS SURVEY IS BASED ON THE U.S. SURVEY FOOT UNIT OF MEASUREMENT.

COORDINATES SHOWN HEREON ARE BASED ON RTK GPS OBSERVATIONS UTILIZING L-NET GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) NETWORK REFERENCED TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH ZONE, NORTH AMERICAN DATUM 1983 (NAD 83), 2007 ADJUSTMENT.

ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE BASED ON THE NOTED ELEVATION REFERENCE. USE OF THE BENCHMARKS FOR VERTICAL CONTROL SHOULD BE PERFORMED IN ACCORDANCE WITH STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS OUTLINED IN RULE 5J-17, FLORIDA ADMINISTRATIVE CODE. PRIOR TO UTILIZING THE BENCHMARKS FOR VERTICAL CONTROL, USER SHALL CHECK PROVIDED BENCHMARKS TO ENSURE THAT THEY HAVE NOT BEEN DISTURBED AND THAT THEY ARE RELATIVE TO EACH OTHER.

BUCHANAN & HARPER, INC.
ENGINEERING ◦ PLANNING ◦ SURVEYING ◦ LANDSCAPE ARCHITECTURE
CERTIFICATE OF AUTHORIZATION NUMBER: 2372
735 WEST 11TH STREET — PANAMA CITY, FLORIDA 32401 — TELEPHONE (850) 763-7427

THE UNDERSIGNED, PL TODD TINDELL, FLORIDA LAND SURVEYOR NO. 4958, HEREBY CERTIFIES THAT THE SURVEY AND/OR INFORMATION SHOWN HEREON CONFORMS TO THE STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS OUTLINED IN RULE 5J-17, FLORIDA ADMINISTRATIVE CODE.

PLAT OF: TOPOGRAPHIC SURVEY — SCALE: 1" = 20'
SURVEYED: 7-14-24 — DRAWN: 7-11-24 — IMPROVEMENTS: VISIBLE AS SHOWN
REVISED: 3-7-25 ADDED SEAWALL AND SIDEWALK LOCATIONS
REVISED:
REVISED:
SOURCE OF INFORMATION: PUBLIC RECORDS OF BAY COUNTY, FLORIDA
BEARING REFERENCE:
ELEVATION REFERENCE: NGS BENCHMARK BT2 8895 C ~ ELEVATION = 21.06 NAVD 88
F.B. 1211 — P.A. 6 — JOB NO. 13602.01 — FILE NO. E 4251 — SHEET NO. 1 OF 1

W. TODD TINDELL CERTIFICATE No. 4958 — Digitally signed by William T. Tindell — Date: 2025.08.25 07:10:12 — STATE OF FLORIDA — REGISTERED LAND SURVEYOR

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY W. TODD TINDELL PSM NO. 4958 ON DATE OF DIGITAL SIGNATURE.

TERRAMODEL FILE 13602 / LAYER CODE: PSRO1

GENERAL PROVISIONS

1. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL AVAILABLE REGULATORY AGENCY PERMITS AND LOCAL AGENCY PERMITS.

2. CONTRACTOR, AS PART OF THE BASE BID, SHALL FIELD LOCATE ALL UNDERGROUND UTILITIES WITHIN THE PROJECT AREA WITHIN THE 30 DAYS OF PROJECT AWARD. CONTRACTOR SHALL REVIEW THE PLANS AND SHALL NOTE ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

3. CONTRACTORS, AS PART OF THE BASE BID, SHALL PROVIDE ALL COORDINATION WITH UTILITY PROVIDERS TO PROVIDE FOR THE MATERIALS AND WORK NEEDED TO PROVIDE SERVICES TO THE PROJECT.

4. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FOR ALL DEMOLITION OF ABOVE GROUND AND UNDERGROUND IMPROVEMENTS IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS NOTED ON THE PLANS. UNLESS APPROVED IN WRITING FROM THE OWNER, ALL MATERIALS SHALL BE REMOVED FROM THE SITE AS PART OF THE BASE BID.

5. ALL DETAILS AND REFERENCES TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SHALL REFER TO THE LATEST EDITION OF THE FDOT DESIGN STANDARDS.

6. CONTRACTOR AND HIS SURVEYOR SHALL NOTE THE PROJECT BENCHMARK INFORMATION PROVIDED IN THE PLANS AND VERIFY PRIOR TO CONSTRUCTION.

7. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM-WATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. IN ORDER TO MEET NPDES REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP, COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. FOR PROJECTS LESS THAN 1 ACRE IN SIZE THAT ARE NOT REQUIRED TO COMPLY WITH THE NPDES GENERAL PERMIT, THE CONTRACTOR IS STILL RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

8. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

9. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION HAS BEEN PREPARED BY OTHER PROFESSIONALS. ANCHOR CEI, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

10. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. ANCHOR CEI, INC. IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.

11. THE CONTRACTOR SHALL SUBMIT ONE ELECTRONIC COPY OF SHOP DRAWINGS TO THE ENGINEER TO KEEP FOR HIS RECORDS. THE ENGINEER WILL NOT PROVIDE FOR APPROVAL OF SHOP DRAWINGS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL MATERIALS FOR ACCURACY PRIOR TO ORDERING THE MATERIALS. ANY DISCREPANCIES IDENTIFIED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

12. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED, AS NECESSARY, BY SAME.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. AS A MINIMUM, TESTING SHALL INCLUDE A) PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS; B) DETERMINATION OF COMPACTING EFFORT NEEDED FOR COMPLIANCE WITH THE DENSITY REQUIREMENTS; C) PORTLAND CEMENT CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.

14. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS FOR ANY WORK (OR ANY PART THEREOF) IF LAWS OR REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION SPECIFICALLY REQUIRE TESTING, INSPECTIONS OR APPROVAL. THE CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION THEREWITH AND SHALL FURNISH THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES OF INSPECTION, TESTING OR APPROVAL.

15. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED IN WRITING, AND COMPLYING WITH THE LATEST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION", PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES.

16. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS.

17. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. CLEAN ALL INSTALLED PIPELINES, STRUCTURES, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, PLUS ALL ADJACENT AREAS AFFECTED BY CONSTRUCTION, AS DIRECTED BY THE OWNER OR JURISDICTIONAL AGENCY. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE OWNER.

18. ALL DISTURBED AREAS WITHIN LIMITS OF DISTURBANCE SHALL BE FINISHED WITH SOD.

19. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT BE LIMITED, FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.

20. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.

21. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING EXCAVATION.

AS-BUILT DRAWING REQUIREMENTS

1. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER AT LEAST THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY ALL AS-BUILT SURVEY REQUIREMENTS BY THE GOVERNING AGENCIES PRIOR TO START OF CONSTRUCTION TO ENSURE THAT AS-BUILT INFORMATION IS PROVIDED FOR.

2. ALL RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN AUTOCAD (ACAD) FORMAT USING CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER. AS-BUILT INFORMATION SHALL BE FIELD VERIFIED, MEASURED, ADDED TO THE ACAD FILES OF THE CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER, AND CERTIFIED, SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED SURVEYOR WHO WILL BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND ELEVATIONS.

3. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

   A. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.

   B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.

   C. STORM-WATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND, AT LOCATIONS DESIGNATED BY THE ENGINEER. TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.

   D. STORM-WATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.

   E. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.

   F. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS OF ALL UTILITY VALVES, FITTINGS, CONNECTION POINTS, ETC.

   G. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.

   H. UTILITY PIPELINE TIED HORIZONTALLY TO EDGE OF PAVEMENT AND RIGHT-OF-WAY LINES, LOCATED EVERY 200-FT PLUS ALL CHANGES IN HORIZONTAL OFFSET.

   I. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.

   J. ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.

   K. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.

   L. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.

   M. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

   N. ANY ADDITIONAL INFORMATION REQUIRED BY GOVERNING AGENCIES.

4. IN CASES WHERE THE OWNER DETERMINES PARTIAL CLEARANCES FROM PERMITTING AGENCIES ARE BENEFICIAL TO THE OWNER FOR COMPLETED PORTIONS OF THE PROJECT, PROVIDE PRELIMINARY AS-BUILT DRAWINGS (ACAD FORMAT) TO THE ENGINEER FOR ITS USE IN PREPARING THE PARTIAL CLEARANCE APPLICATIONS FOR THE OWNER.

5. COMPLETE AS-BUILT DRAWINGS THAT ARE FOUND TO BE SATISFACTORY AS A RESULT OF THE ENGINEER'S REVIEW WILL BE USED AS THE BASIS FOR THE FINAL PROJECT RECORD DRAWINGS PREPARED BY THE ENGINEER USING THE CONTRACTOR PROVIDED AS-BUILT DRAWINGS PLUS ENGINEER ADDED INFORMATION.

SITE PREPARATION

1. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.

2. STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING FEATURES. REPORT ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE COMMENCING WORK.

3. PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.

4. WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW TREES AND SHRUBS TO REMAIN IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: NEW ROADWAY CONSTRUCTION - TREES AND SHRUBS TO REMAIN WHERE LOCATED MORE THAN 15 FEET FROM THE BACK OF CURB, OR OUTSIDE THE LIMITS OF EXCAVATION OR FILL AREAS, WHICHEVER IS FURTHER. UTILITY PIPELINE CONSTRUCTION - TREES AND SHRUBS TO REMAIN OUTSIDE A 15 FOOT WIDE PATH, CENTERED ON THE PIPELINE.

5. TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN BRANCH SPREAD

6. AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES. REMOVE TREES OUTSIDE OF THESE AREAS ONLY AS INDICATED ON THE DRAWINGS OR AS APPROVED IN WRITING BY THE ENGINEER.

7. CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCROACH UPON OR OTHERWISE OBSTRUCT THE WORK.

8. EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.

9. GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2" IN DIAMETER, AND MATTED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND.

10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.

DE-WATERING

1. DESIGN AND PROVIDE A DE-WATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE A DE-WATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. WHERE NECESSARY TO THESE PURPOSES, LOWER WATER LEVEL IN ADVANCE OF EXCAVATION, UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE METHODS. MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF DIRECTED BY THE ENGINEER TO DOCUMENT THE GROUNDWATER LEVEL IS BEING MAINTAINED.

2. CONTROL, BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.

3. DE-WATERING DISCHARGE FROM THE SITE SHALL COMPLY WITH ALL NPDES GENERAL PERMIT REQUIREMENTS AND STATE WATER QUALITY STANDARDS. PROVIDE ALL TESTING AND PERMITTING REQUIRED AND COMPLY WITH ALL TREATMENT OR DISPOSAL METHODS REQUIRED TO MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

4. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED, PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS. DURING NORMAL PUMPING, AND UPON DEVELOPMENT OF WELL(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED 5 PPM.

5. IF DE-WATERING EQUIPMENT NEEDED EXCEEDS ANY OF THE FOLLOWING: 1) 6" PUMP VOLUTE; 2) 100,000 GPD TOTAL 24 HOUR (1 DAY) DE-WATERING, AND; 3) 1,000,000 GPD PUMP CAPACITY, THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DE-WATERING SYSTEM WITH THE WATER MANAGEMENT DISTRICT.

6. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DE-WATERING METHODS DURING PREPARATION OF SUB-GRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUB-GRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.

7. WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DE-WATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.

RIP-RAP

1. ALL RIP-RAP CONSTRUCTION SHALL MEET THE REQUIREMENTS OF SECTION 530 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

PAVING, SIDEWALKS, AND CURBING

1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

2. ROADWAY PAVING, BASE, AND SUB-GRADE THICKNESS SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS.

3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.

4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

Anchor CEI Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
email: emoore@anchorcei.com
Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Date	Revision

Designed: B. Silcox
Drawn: B. Silcox
Checked: E. Moore, P.E.
Job No.: 1328-007
Date: 5/5/2026

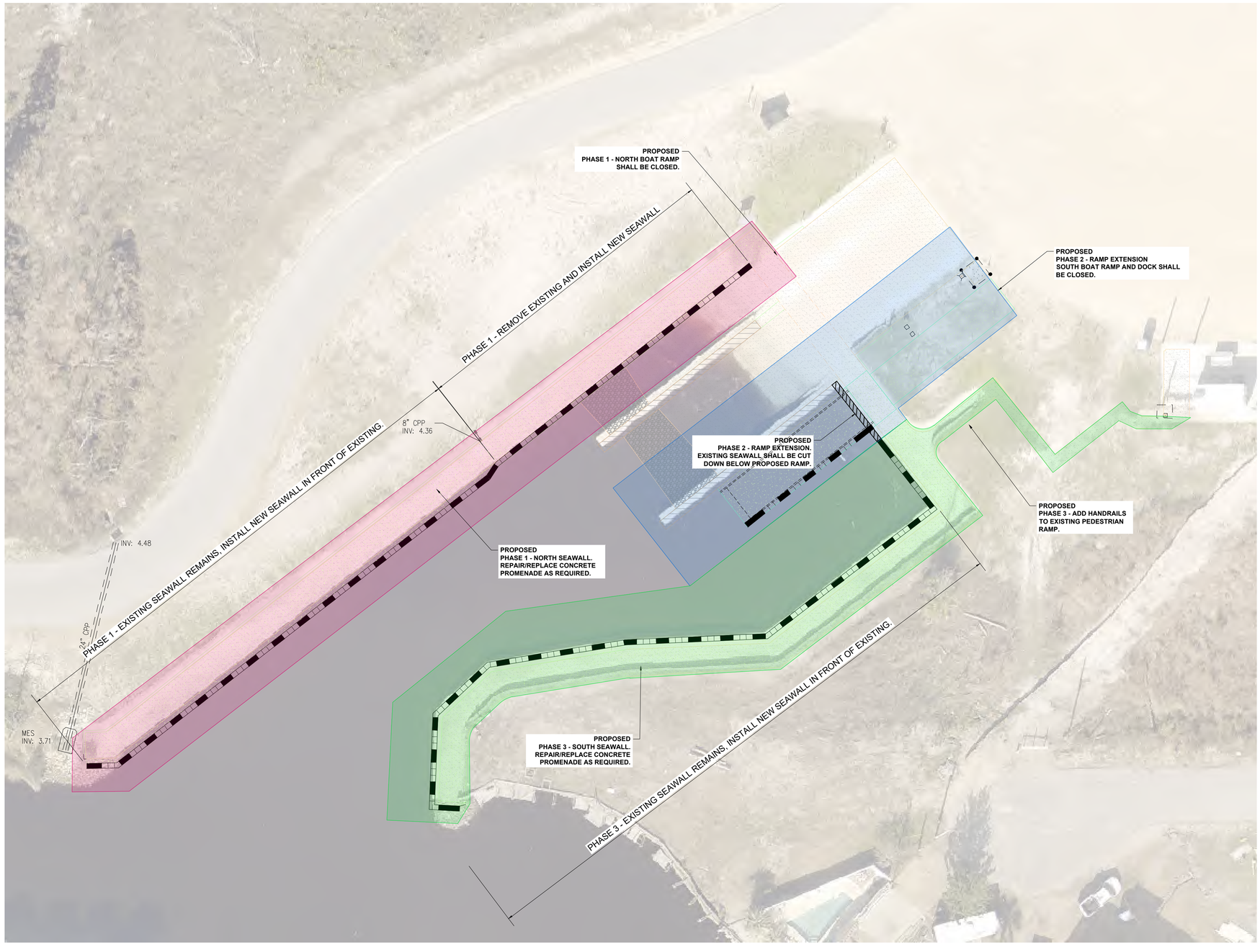
GENERAL NOTES

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
C0.1



N

20 0 20 40

Graphic Scale in Feet

LEGEND:

- PHASE 1
- PHASE 2
- PHASE 3

Anchor CEI Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
email: emoore@anchorcei.com

Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Date	Revision

Designed:	B. Silcox
Drawn:	B. Silcox
Checked:	E. Moore, P.E.
Job No.:	1328-007
Date:	5/5/2026

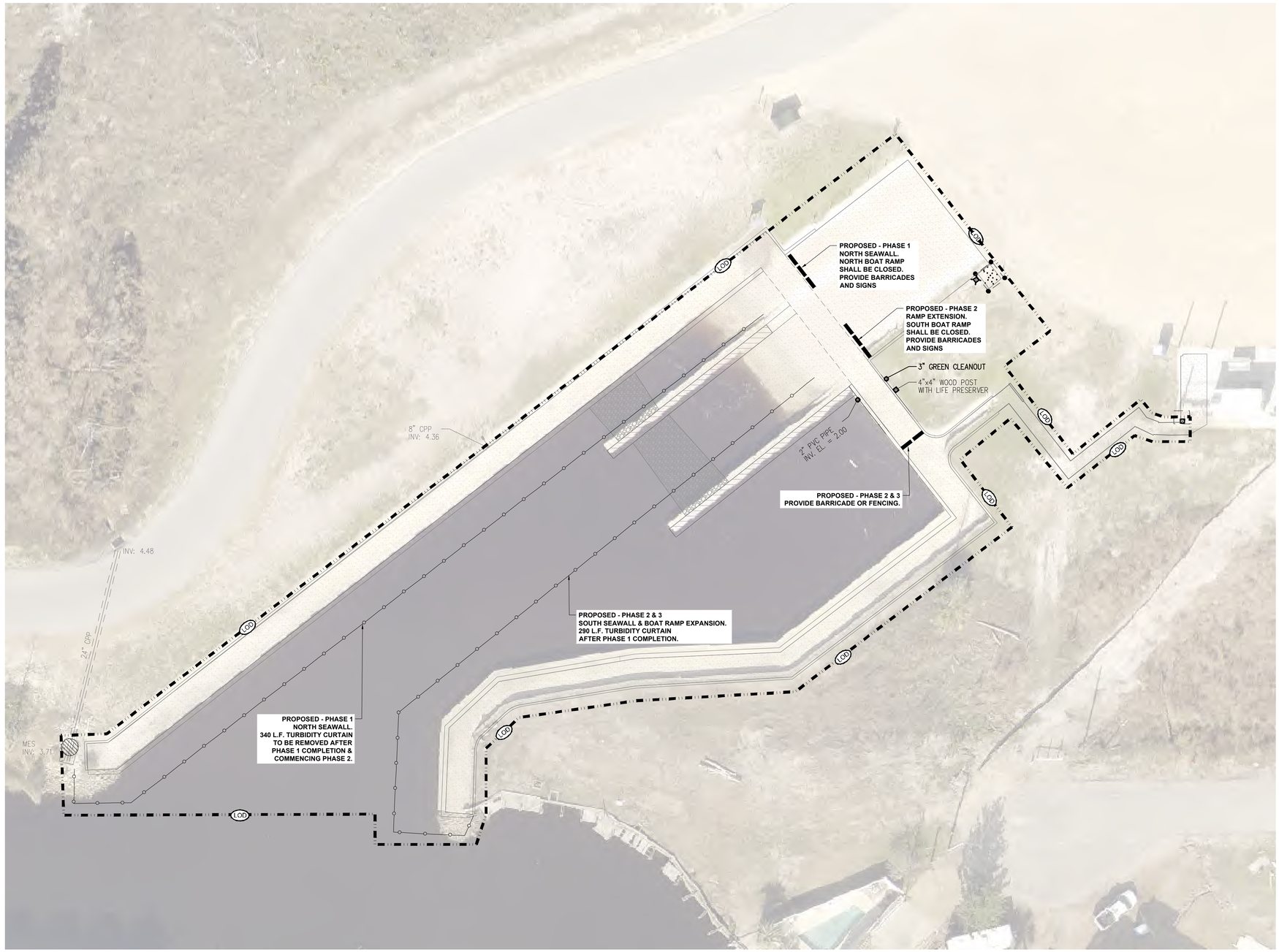
PHASING SITE PLAN

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
C0.2



N

20 0 20 40

Graphic Scale in Feet

LEGEND:

- LOD — LIMITS OF DISTURBANCE
- BARRICADE (AT ALL ENTRANCE LOCATIONS W/O TEMPORARY CONSTRUCTION ACCESS)
- INLET PROTECTION

ACREAGE SUMMARY	
TOTAL SITE AREA	6.24 A.C.
TOTAL DISTURBED AREA	1.0 A.C.

Anchor CEI Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
email: emoore@anchorcei.com
Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Date	Revision

Designed:	B. Silcox
Drawn:	B. Silcox
Checked:	E. Moore, P.E.
Job No.:	1328-007
Date:	5/5/2026

STORMWATER POLLUTION PREVENTION PLAN

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

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

Name (Operator and/or Responsible Authority

Date

Project Name and location information:

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
C0.3

STORMWATER POLLUTION PREVENTION NOTES

THESE PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN OBTAINING COVERAGE UNDER THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PERMIT REQUIREMENTS AND MODIFY THESE PLANS AS NEEDED TO BE IN COMPLIANCE WITH THE PERMIT REQUIREMENTS.

SITE DESCRIPTION

A. SITE LOCATION

THE SITE IS LOCATED AT 111 N 44TH ST IN MEXICO BEACH, FL 32456, BAY COUNTY, FLORIDA
SECTION 15, TOWNSHIP 6 SOUTH, RANGE 12 WEST
LATITUDE: 29°57'14.6"N LONGITUDE: 85°25'28.2"W

B. SITE CONDITIONS & ACTIVITIES NARRATIVE:
THE EXISTING CONDITION OF THE SITE IS "DEVELOPED". THIS PROJECT WILL HAVE NO MAJOR EFFECT ON ANY THE ABUTTING PROPERTIES.

WETLANDS/BUFFERS

NO WETLANDS OR BUFFERS ARE ASSOCIATED WITH THIS PROJECT.

SWPPP INTENT

THE INTENT OF THIS SWPPP IS TO COMPLY WITH THE INTENT OF THE GENERIC PERMIT AND TO PREVENT THE RELEASE OF SOILS, TRASH, CHEMICALS, TOXINS AND OTHER POLLUTANTS, BY WATER , AIR, VEHICLE TRANSPORT OR OTHER MEANS THAT CAN IMPACT STORM WATER QUALITY. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GENERIC PERMIT AND RETAIN ON-SITE FOR FUTURE REFERENCE. THE CONTRACTOR SHALL READ AND UNDERSTAND THE PERMIT, AND ENSURE THAT THE BMP'S ARE INSTALLED AND THE EXECUTION OF THE WORK IS PERFORMED TO MEET THE INTENT OF THE GENERIC PERMIT AND THE SWPPP.

POTENTIAL SOURCES OF POLLUTION

THE POTENTIAL SOURCES OF POLLUTION THAT MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY INCLUDE: SEDIMENT, PESTICIDES, FERTILIZER, PLASTER, CLEANING SOLVENTS, ASPHALT, CONCRETE, GLUE, ADHESIVES, PAINTS, CURING COMPOUNDS, WOOD PRESERVATIVES, HYDRAULIC OIL FLUIDS, GASOLINE, DIESEL FUEL AND KEROSENE.

SEQUENCE OF CONSTRUCTION

THE SEQUENCE OF CONSTRUCTION HAS BEEN DEVELOPED AS A GUIDE FOR THE CONTRACTOR. THE CONTRACTOR SHALL SEQUENCE THE CONSTRUCTION AS NEEDED BASED ON BEST MEANS AND METHODS IN ORDER TO BE IN COMPLIANCE WITH STATE AND LOCAL REQUIREMENTS. THE INSTALLATION OR REMOVAL OF BMPS, EARTH DISTURBANCE, GRADING, TEMPORARY STABILIZATION AND PERMANENT STABILIZATION SHALL BE IMMEDIATELY NOTED IN THE SWPPP IMPLEMENTATION LOG. ALL TEMPORARY BMPS SHALL BE REPAIRED AND MAINTAINED UNTIL STABILIZATION HAS OCCURRED AND THERE IS NO RISK OF DISCHARGE. TEMPORARILY SEED, IMMEDIATELY AND THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.

1. POST A COPY OF THE NOI OR LETTER FROM FDEP CONFIRMING COVERAGE UNDER THE GENERIC PERMIT, AND THE NAME AND PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.
2. INSTALL PERIMETER CONTROLS IMMEDIATELY DOWNSTREAM OF THE PLANNED LOCATION OF THE CONSTRUCTION EXIT.
3. INSTALL STABILIZED CONSTRUCTION EXIT.
4. INSTALL PERMITER CONTROLS. THE CONTRACTOR SHALL INSTALL THE REMAINING BMPS AS SHOWN AND AS REQUIRED TO MEET PERMIT REQUIREMENTS. SOME BMP INSTALLATIONS MAY NOT BE POSSIBLE AT THE BEGINNING OF THE PROJECT BUT MUST BE INSTALLED AS SOON AS POSSIBLE TO ENSURE COMPLIANCE.
5. INSTALL TEMPORARY STAGING AND STORAGE AREAS.
6. CONSTRUCT AND STABILIZE THE SEDIMENT BASINS AND SEDIMENT TRAPS WITH APPROPRIATE OUTFALL STRUCTURES, IF REQUIRED.
7. CONSTRUCT AND STABILIZE HYDRAULIC CONTROLS (DITCHES, SWALES, DIKES, CHECK DAMS, ETC.), IF REQUIRED.
8. BEGIN DEMOLITION, CLEARING AND GRUBBING OPERATIONS AS APPLICABLE.
9. BEGIN CONSTRUCTION OF SITE IMPROVEMENTS.
10. PAVE SITE AND STABILIZE PER PLAN.
11. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER SITE HAS ACHIEVED FINAL STABILIZATION.
12. SUBMIT NOTICE OF TERMINATION (NOT) ONCE ALL CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED PER PLAN.

GENERAL NOTES

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (DEP FORM 62-621.300(4)(B) OR LATEST VERSION) TO FDEP TO THE FOLLOWING ADDRESS OR THROUGH THE FDEP ON-LINE SYSTEM AT LEAST TWO (2) DAYS BEFORE COMMENCEMENT OF CONSTRUCTION:

NPDES STORMWATER NOTICES CENTER, MS #2510 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2600 BLAIR STONE ROAD, TALLAHASSEE, FLORIDA 32399-2400

THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) WITHIN 14 CALENDAR DAYS AFTER THE SITE HAS ACHIEVED FINAL STABILIZATION (I.E. ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINAL STABILIZED), TEMPORARY BMPS HAVE BEEN REMOVED, AND STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE AUTHORIZED BY THE PERMIT HAVE BEEN ELIMINATED.

AN ENVIRONMENTAL RESOURCE PERMIT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL PROVIDE THE PERMIT INFORMATION ON THE NOI APPLICATION.

MS4 OPERATOR NAME (IF ANY): XXXXX

THE CONTRACTOR SHALL PROVIDE A COPY OF THE NOI AND SUBSEQUENT NOT OR THE ACKNOWLEDGEMENT LETTERS FOR THE NOI OR NOT TO THE MS4 WITHIN 7 DAYS OF RECEIPT. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE MS4 TO ENSURE THAT ALL SPECIFIC REQUIREMENTS ARE MET.

B. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES. SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

C. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:

I. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
II. NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
III. PERIMETER EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED

D. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMP'S SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.

E. THE CONTRACTOR SHALL FURNISH, INSTALL PER THE SEQUENCE OF CONSTRUCTION, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY TEMPORARY BMPS. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT BMPS.

F. THE CONTRACTOR SHALL ADJUST, ADD OR MODIFY BMPS AS NECESSARY TO COMPLY WITH THE INTENT OF THE GENERIC NPDES PERMIT AND THE SWPPP FOR NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO ADJUSTING, ADDING OR MODIFYING BMPS THAT AFFECT THE HYDRAULICS OF THE SITE OR BEFORE ADDING BMPS NOT DETAILED IN THE SWPPP.

G. THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER.

H. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPS). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.

I. THE CONTRACTOR SHALL KEEP THE SWPPP CURRENT AT ALL TIMES. THE CONTRACTOR SHALL SIGN AND DATE ANY CHANGES TO THE SWPPP AND KEEP THEM AS ATTACHMENTS TO THE ORIGINAL PLAN. WHENEVER ANY OF THE FOLLOWING EVENTS OCCUR, THE CONTRACTOR SHALL UPDATE THE SWPPP WITHIN 7 DAYS:

I. THERE IS A CHANGE IN DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE FROM THE PROJECT
II. THERE IS A NEW DISCHARGE POINT OUR OUTFALL
III. THERE IS A CHANGE IN THE LOCATION OF A DISCHARGE POINT OF OUTFALL
IV. AN INSPECTION REVEALS THAT BMPS ARE INEFFECTIVE AT ELIMINATING OR MINIMIZING POLLUTANTS IN THE STORMWATER DISCHARGED FROM THE SITE.
V. THERE IS A NEW SUBCONTRACTOR IMPLEMENTING ANY PORTION OF THE SWPPP
VI. A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR GREATER THAN A REPORTABLE QUANTITY OCCURS DURING A 24-HOUR PERIOD

J. THE CONTRACTOR SHALL ENSURE THAT THE CONTRACTOR AND ALL SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING SWPPP CONTROL MEASURES FILL OUT THE CONTRACTOR / SUBCONTRACTOR CERTIFICATION TABLE INCLUDED IN THIS SWPPP.

K. THE CONTRACTOR SHALL COMPLETE THE CONSTRUCTION SEQUENCE TABLE INCLUDING IN THIS SWPPP PRIOR TO PROCEEDING WITH THE INSTALLATION OF BMPS AND PRIOR TO GROUND DISTURBING ACTIVITIES. THE CONTRACTOR SHALL COMPLETE THE TABLE WITH ANTICIPATED DATES IN WHICH THE BMP WILL BE UTILIZED OR THE ACTIVITY WILL OCCUR.

TURBIDITY

A. TURBIDITY REDUCTION TO NO MORE THAN 29 NTUs ABOVE BACKGROUND LEVEL PRIOR TO DISCHARGE OFF SITE.

B. CONTRACTOR TO FILE FOR A FDEP NOTICE OF INTENT (NOI) WITHIN 14 DAYS OF CONSTRUCTION COMPLETION.

STABILIZATION

A. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED AND WILL REMAIN UNDISTURBED FOR 7 DAYS OR MORE. STABILIZE BY COVERING WITH ADEQUATE AMOUNTS OF MULCH OVER SEED AND PERIODICALLY WATER TO PROMOTE AND MAINTAIN GROWTH OF THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.

B. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

C. ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.

DUST CONTROL

A. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

B. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.

AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES.

WASTE MANAGEMENT

A. THE CONTRACTOR SHALL ENSURE THAT ALL WASTE AND DEBRIS ARE MANAGED DAILY SUCH THAT THEY WILL NOT IMPACT STORMWATER OR LEAVE THE PERMITTED AREA, AND DISPOSED OF PROPERLY IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS.

B. THE CONTRACTOR SHALL ENSURE THAT ALL CHEMICALS, OILS, FUELS, HAZARDOUS WASTE, UNIVERSAL WASTE AND TOXIC SUBSTANCES ARE PROPERLY MANAGED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT WASTE IS NOT DISCHARGED FROM THE SITE, AND DOES NOT IMPACT STORMWATER OR GROUNDWATER.

C. THE CONTRACTOR SHALL PROVIDE APPROPRIATE AND ADEQUATE WASHOUT FACILITIES TO ENSURE THAT CHEMICALS AND WASTE IS NOT DISCHARGED FROM THE SITE, AND DO NOT IMPACT STORMWATER OR GROUNDWATER. (E.G. CONCRETE/MASONRY WASHOUT, PAINT WASHOUT, EIFS, ETC.) THE CONTRACTOR SHALL CLEAN UP SPILLS PROMPTLY AND ENSURE THAT WASHOUT AREAS ARE PROPERLY MAINTAINED TO PROVIDE ADEQUATE VOLUME TO PREVENT OVERFLOW.

D. THE CONTRACTOR SHALL PROVIDE ADEQUATE SANITARY FACILITIES FOR SITE PERSONNEL, MAINTAIN THROUGHOUT CONSTRUCTION, AND PROVIDE FOR PROPER DISPOSAL IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. SANITARY FACILITIES SHALL BE PROPERLY SECURED TO PREVENT TIPPING.

E. A SPILL CONTROL AND CONTAINMENT KIT (CONTAINING FOR EXAMPLE, ABSORBENT MATERIAL SUCH AS KITTY LITTER OR SAWDUST, ACID, BASE, NEUTRALIZING AGENT, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PLASTIC AND METAL TRASH CONTAINERS, ETC.) SHALL BE PROVIDED AT THE CONSTRUCTION SITE AND IT'S LOCATION(S) SHALL BE IDENTIFIED WITH LEGIBLE SIGNAGEAND SHOWN ON THE SITE MAPS.

A. THE SPILL CONTROL AND CONTAINMENT KIT SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.

F. WHEN A SPILL OF REPORTABLE QUANTITIES IS DISCOVERED ON THE SITE, THE CONTRACTOR SHALL CLEAN UP ALL SPILLED MATERIALS AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITIES IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS, THE OWNER AND PROJECT ENGINEER. THE CONTRACTOR SHALL RETAIN CLEANUP INFORMATION AS WELL AS DISPOSAL MANIFESTS WITH THEIR SWPPP.

MATERIALS MANAGEMENT, AND EQUIPMENT STAGING AND MAINTENANCE

A. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF. STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

B. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OR OIL, GREASE, LUBRICANTS, OR OTHER CONTAMINANTS. CONTRACTOR SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.

C. THE CONTRACTOR SHALL ENSURE THAT ALL TOXIC / HAZARDOUS SUBSTANCES AND CHEMICALS ARE PROPERLY STORED, OUT OF THE WEATHER, AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE STORED AND USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.

D. THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS, EQUIPMENT, DEBRIS, WASTE, TRAILERS, AND OTHER SUPPORT RELATED ITEMS ARE CONTAINED WITHIN THE PERMITTED LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL ENSURE THAT THE STORAGE AND USE OF SUCH ITEMS DOES NOT NEGATIVELY IMPACT STORMWATER OR GROUNDWATER.

OFFSITE VEHICLE TRACKING

A. THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION EXIT IS USED BY ALL VEHICLES AND EQUIPMENT ENTERING OR LEAVING THE JOBSITE. THE CONTRACTOR SHALL MONITOR AND MAINTAIN THE CONSTRUCTION EXIT TO ENSURE THAT NO SOILS ARE TRACKED OFFSITE BY TIRES OR TRACKS, AND THAT NO SOILS ARE SPILLED BY TRUCKS OR EQUIPMENT LEAVING THE SITE. ALL TRACKED OR SPILLED SOILS SHALL BE SHOVELED OR SWEPT FROM THE ROADWAY AND RETURNED TO THE SITE. WATER SHALL NOT BE USED TO CLEAN THE SOILS FROM THE ROADWAY UNLESS THE WATER AND SOILS ARE RECOVERED BY THE USE OF A VACUUM TRUCK OR SIMILAR DEVICE.

FERTILIZERS, HERBICIDES AND PESTICIDES

A. THE CONTRACTOR SHALL ENSURE THAT ALL FERTILIZERS, HERBICIDES, PESTICIDES AND SIMILAR PRODUCTS ARE PROPERLY STORED, OUT OF THE WEATHER, AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.

B. NUTRIENTS SHALL BE APPLIED ONLY AT RATES NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION.

INSPECTIONS AND MAINTENANCE

A. THE CONTRACTOR SHALL INSPECT BMPS (I.E. DISCHARGE LOCATIONS, CONSTRUCTION EXIT, PERIMETER CONTROLS, INLET PROTECTION, STABILIZATION, EROSION CONTROL, DOCUMENTATION, WASTE DISPOSAL AREAS, MATERIAL STORAGE AREAS, ETC.) TO ENSURE THAT BMPS ARE NOT CAUSING OR CONTRIBUTION TO VIOLATIONS OF WATER QUALITY STANDARDS OR RESULTING IN OFFSITE SEDIMENTATION; ENSURE THAT BMPS ARE INSTALLED, MAINTAINED AND OPERATING CORRECTLY AND EFFECTIVELY; ENSURE THAT BMPS ASSOCIATED WITH STORAGE AND WASTE DISPOSAL AREAS ARE BEING USED AND MAINTAINED PROPERLY; ENSURE THAT THE CONSTRUCTION EXIT IS FUNCTION PROPERLY TO PREVENT OFFSITE TRACKING OF SEDIMENT; ENSURE THAT EROSION PREVENTION MEASURES ARE MAINTAINED TO PREVENT VISIBLE EROSION OF DISTURBED AREAS AND SEDIMENTATION AT THE DISCHARGE POINTS; AND DETERMINE IF CONSTRUCTION ACTIVITIES HAVE ALTERED THE EFFECTIVENESS OF BMPS. INSPECTIONS MUST BE COMPLETED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, AND WITHIN 24 HOURS AFTER A RAINSTORM OF 0.50 INCHES OR GREATER EVEN IF IT RAINS ON THE WEEKEND OR A HOLIDAY.

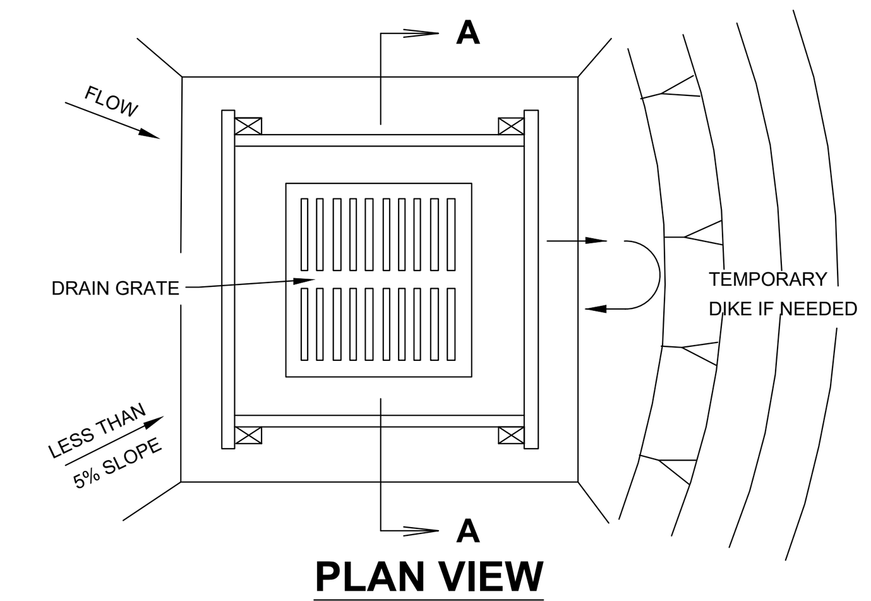
B. THE CONTRACTOR SHALL REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION USING THE STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM PROVIDED BY FDEP OR AN EQUIVALENT FORM. INSPECTION REPORTS SHALL BE SIGNED BY THE INSPECTOR AND A RESPONSIBLE AUTHORITY AS DEFINED BY THE PERMIT. INSPECTION REPORTS SHALL BE MAINTAINED WITH THE SWPPP. THE INSPECTOR MUST BE A QUALIFIED EROSION AND SEDIMENT CONTROL INSPECTOR AS DEFINED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

C. ANY MAINTENANCE, REPAIR AND NECESSARY REVISIONS TO BMP ITEMS SHALL BE ADDRESSED IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION OR IDENTIFICATION OF THE ISSUE. UNLESS OTHERWISE SPECIFIED, ACCUMULATED SEDIMENTS SHOULD BE REMOVED BEFORE THEY REACH ONE-HALF OF THE CAPACITY OF THE CONTROL DEVICE.

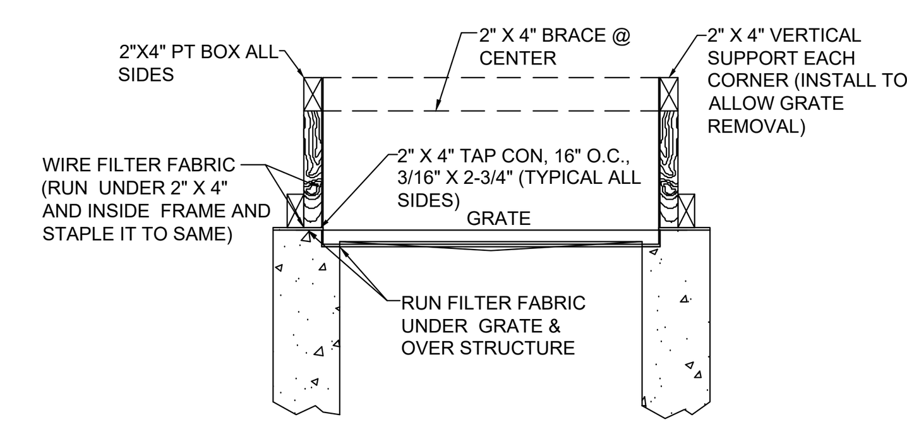
ALLOWABLE NON-STORMWATER DISCHARGES

THE GENERIC PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES PROHIBIT MOST NON-STORMWATER DISCHARGES DURING THE CONSTRUCTION PHASE. CERTAIN DISCHARGES ARE ALLOWED BY THE PERMIT, PROVIDED APPROPRIATE BMP'S ARE UTILIZED AND THE DISCHARGE DOES NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS. ALLOWABLE NON-STORMWATER DISCHARGES THAT OCCUR DURING CONSTRUCTION ON THIS PROJECT PER PART 3.2 OF THE GENERIC PERMIT ARE:

DISCHARGES FROM FIRE FIGHTING ACTIVITIES.
FIRE HYDRANT FLUSHINGS.
WATERS WITHOUT DETERGENTS USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES.
WATERS USED TO CONTROL DUST.
POTABLE WATER SOURCES SUCH AS WATERLINE FLUSHINGS.
LANDSCAPE IRRIGATION AND DRAINAGE.
ROUTINE EXTERNAL BUILDING WASHDOWN PROVIDED NO DETERGENTS ARE USED.
PAVEMENT WASHWATERS THAT DO NOT CONTAIN DETERGENTS, LEAKS, SPILLS OF TOXIC OR HAZARDOUS MATERIALS.
AIR CONDITIONING CONDENSATE.
SPRING WATER.
FOUNDATION OR FOOTING DRAIN FLOWS THAT ARE NOT CONTAMINATED WITH PROCESS MATERIAL SUCH AS SOLVENTS.
NONCONTAMINATED GROUND WATER ASSOCIATED WITH DEWATERING ACTIVITIES AS DESCRIBED IN PART 3.4 OF THE GENERIC PERMIT.



PLAN VIEW



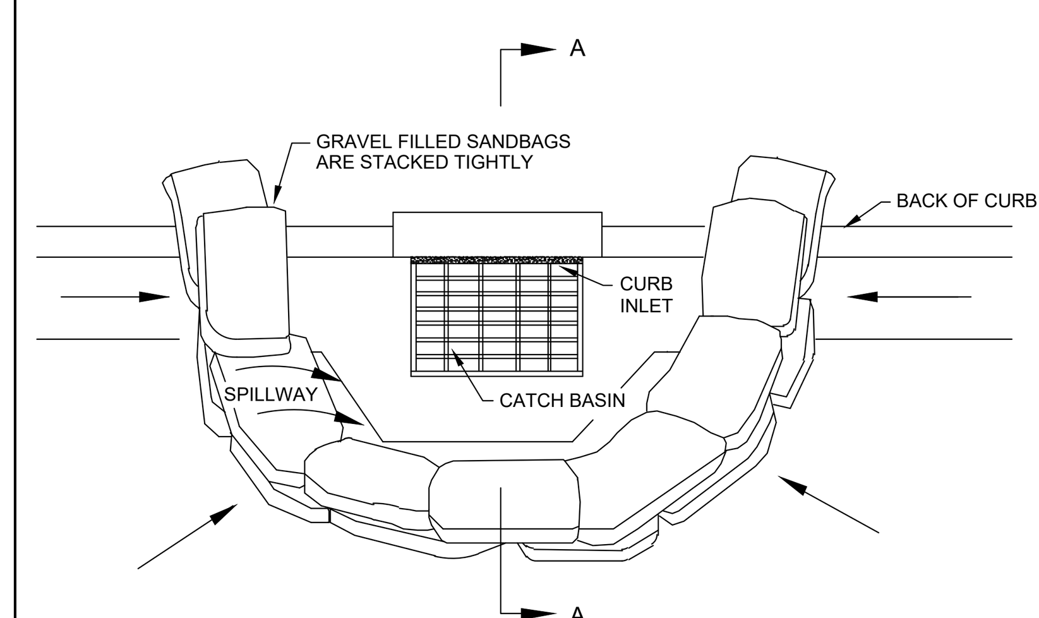
SECTION A - A

NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
2. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
3. FASTEN FRAMING TO STRUCTURE TO ALLOW GRATE REMOVAL.
4. LEAVE EXPOSED EDGE TO ALLOW FOR PAVING TO GRADE

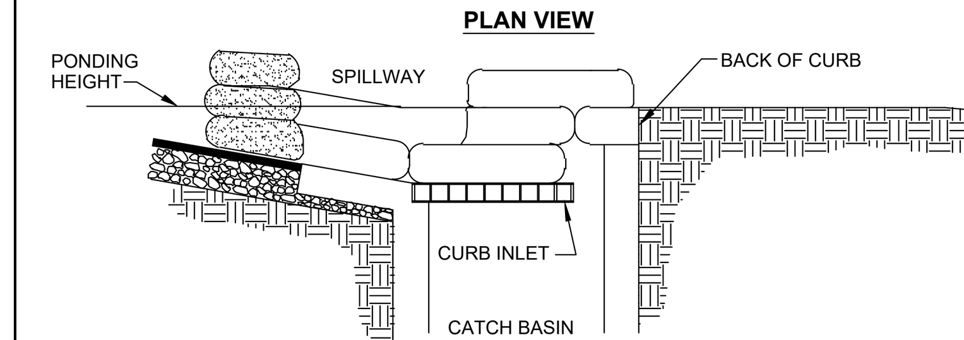
FILTER FABRIC INLET PROTECTION DETAIL

N.T.S.

**NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.**



PLAN VIEW



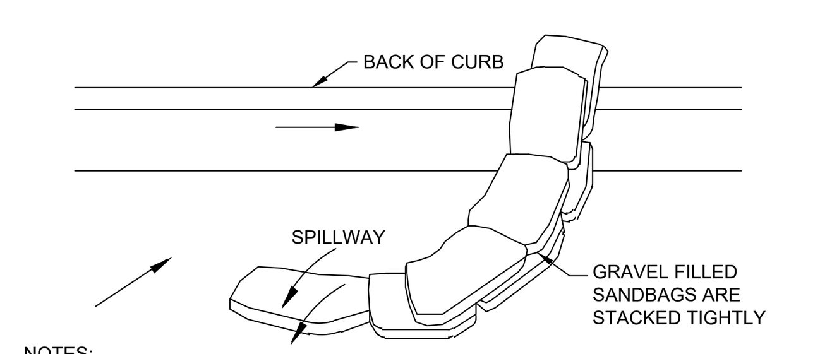
SECTION A-A

NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AS NECESSARY. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET PROTECTION DETAIL

N.T.S.

**NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.**



NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. TAPER TO ONE SANDBAG TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AS NECESSARY. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB LINE PROTECTION DETAIL

N.T.S.

CONTRACTOR / SUBCONTRACTOR CERTIFICATION TABLE

THIS SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) WHO WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN."

Name / Signature	Title	Company Name, Address and Phone Number	Date

NOTE: CONTRACTOR TO ADD SHEETS TO CERTIFICATION TABLE AS NECESSARY.

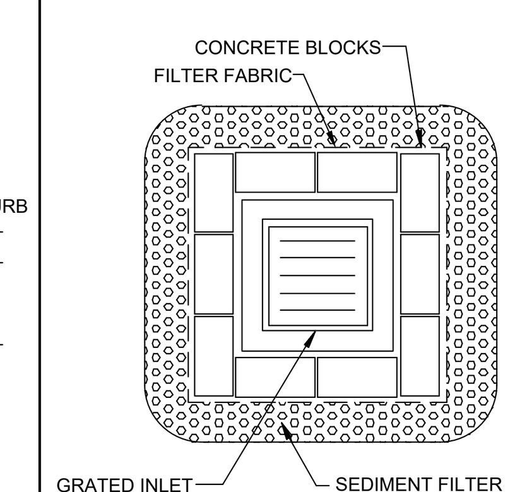
SWPPP IMPLEMENTATION LOG

A RECORD OF DATES WHEN BMPs ARE INSTALLED OR REMOVED, STABILIZATION MEASURES ARE INITIATED, MAJOR GRADING ACTIVITIES OCCUR, AND CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON PORTIONS OF THE SITE. THIS FORM MUST BE UPDATED CONTINUOUSLY THROUGHOUT THE PROJECT UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED.

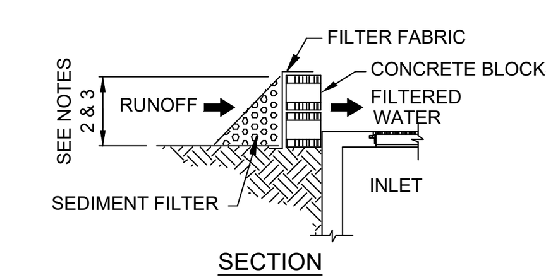
DESCRIPTION OF ACTIVITY	LOCATION	CONTRACTOR	BEGIN DATE	END DATE

NOTE: CONTRACTOR TO ADD SHEETS TO THE SWPPP IMPLEMENTATION LOG AS NECESSARY.

**NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.**



PLAN

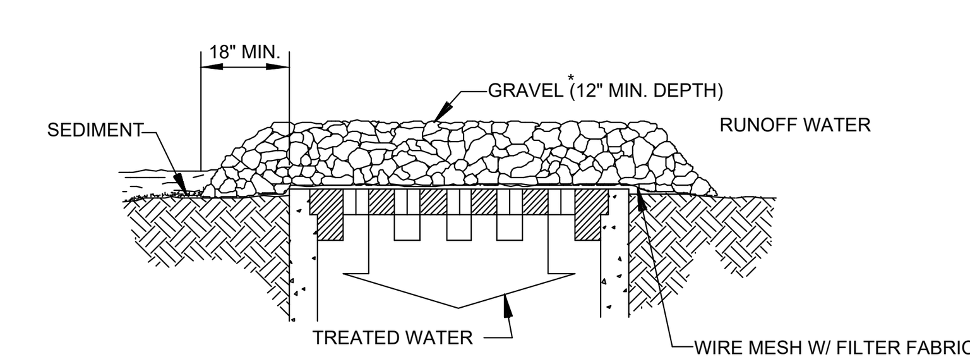


SECTION

1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4-INCH, 8-INCH, OR 12" BLOCKS. MIN.
3. HEIGHT OF BARRIER 12" AND MAX. HEIGHT OF 24" PLACE FILTER FABRIC OVER VERTICAL FACE OF CONCRETE BLOCKS.
4. THE SEDIMENT FILTER SHALL BE ANY NON-ERODIBLE MATERIAL SUCH AS LOOSE ROCK, BROKEN CONCRETE THAT WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

BLOCK AND AGGREGATE INLET SEDIMENT FILTER

N.T.S.



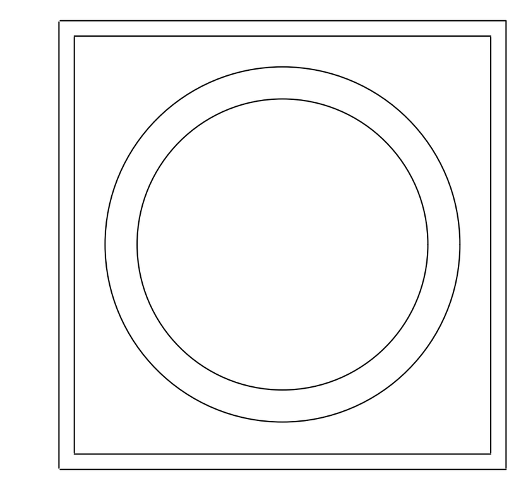
SPECIFIC APPLICATION

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

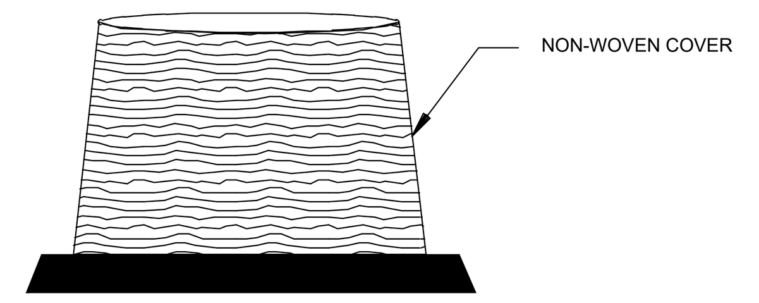
* GRAVEL SHALL BE 2"-3" CLEAN STONE

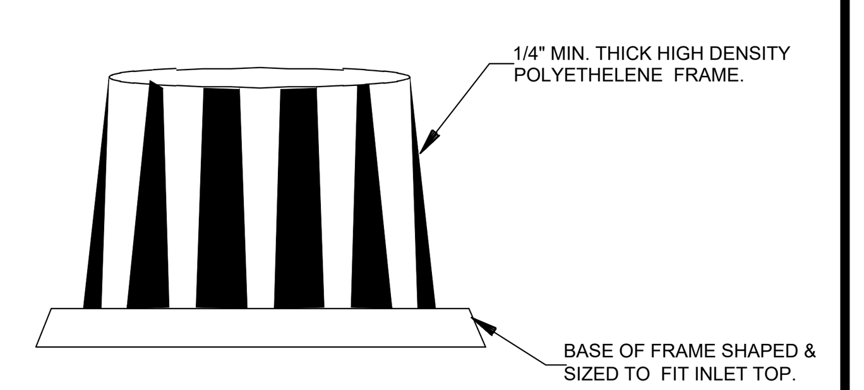
GRAVEL & WIRE MESH INLET SEDIMENT FILTER

N.T.S.



TOP VIEW





SIDE VIEW

**TYPICAL CONSTRUCTION SEQUENCE
FOR DOME FRAME & COVER**

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE COVER OVER THE FRAME.
4. FILL THE COVER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE COVER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND COVER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACKFILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

DOMED INLET PROTECTION (PREFABRICATED)

N.T.S.

CONSTRUCTION SEQUENCING TABLE

ANTICIPATED CONSTRUCTION SEQUENCE*	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
CONSTRUCTION ENTRANCE												
TEMPORARY CONTROL MEASURES												
STORM FACILITIES												
ROUGH GRADE / SEDIMENT CONTROL												
FOUNDATION / BUILDING CONSTRUCTION												
SITE CONSTRUCTION												
FINISH GRADING												
PERMANENT CONTROL MEASURES												

* THIS IS ONLY A GUIDE, CONTRACTOR IS TO USE HIS JUDGMENT TO MODIFY AS NEEDED.

Stormwater Team

Description	Name	Company
Contractor:		
Contractor's Responsible Authority:		
Qualified Inspector(s):		
Maintenance Personnel:		

The contractor shall complete this table identifying the individuals of the stormwater team and their responsibilities.

Anchor CEI
Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. email: emoore@anchorcei.com

Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Date	Revision
1		
2		
3		
4		
5		
6		
7		

Designed:	B. Silcox
Drawn:	B. Silcox
Checked:	E. Moore, P.E.
Job No.:	1328-007
Date:	5/5/2026

STORMWATER POLLUTION PREVENTION PLAN

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
C0.4

G:\.shortcut-targets-by-id\1olskGE4ZdjHy87n50Py1ZC_IM2vOjWED\Projects\1328 - MEXICO BEACH\007 - BOATRAMP REPAIRS AND EXPANSION\9.0 - CAD WORK\DWG FILES\PLANS\1328-007_MB_Boat Ramp.dwg, 5/5/2026 10:50:18 AM, Bill Silcox

Anchor CEI Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
email: emoore@anchorcei.com

Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Revision	Date

Designed:	B. Silcox
Drawn:	B. Silcox
Checked:	E. Moore, P.E.
Job No.:	1328-007
Date:	5/5/2026

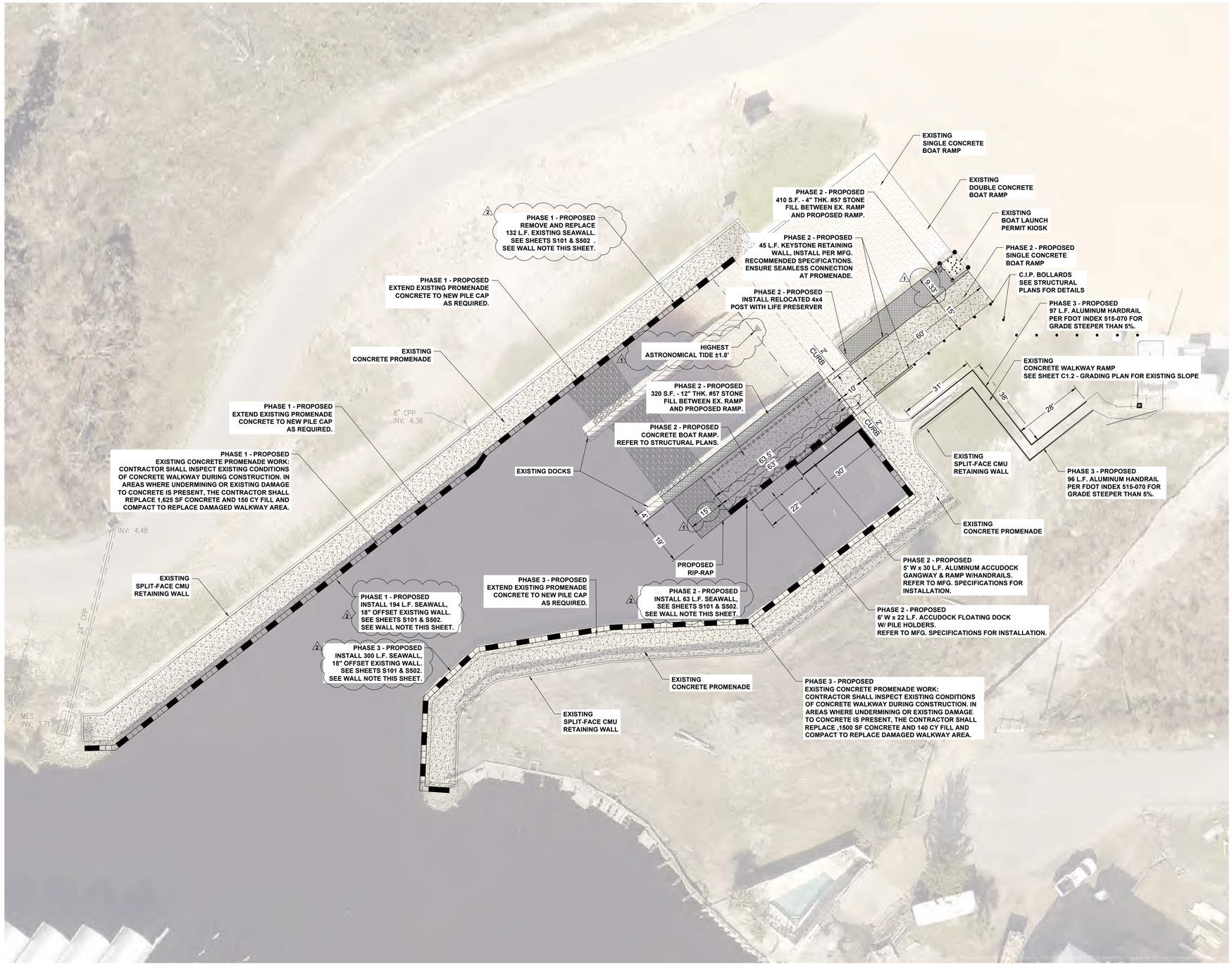
DEMOLITION SITE PLAN

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
C1.0



N

20 0 20 40

Graphic Scale in Feet

LEGEND:

- CONCRETE
- RIP-RAP
- PROPOSED SEAWALL

NOTE:

MEAN HIGH WATER (MHW) ELEV. = 0.74'
MEAN LOW WATER (MLW) ELEV. = (-0.45')
HIGHEST ASTRONOMICAL TIDE (HAT) ELEV. = ±1.80'

THE DEPTH AT MLW IS 4.35' AND MAX. DRAFT OF BOATS UTILIZING THE RAMP WILL BE 40", PROVIDING A MINIMUM 12.2" CLEARANCE AT MLW.

WALL NOTE:

2. 1. INORGANIC ZINC PRIMER, FULL LENGTH, BOTH SIDES OF SHEET PILE WALL.
   2. 16 MILS COAL TAR EPOXY ON THE EXPOSED SIDE OF THE SHEET PILE WALL FROM TOP OF SHEET PILES TO -5 FT BELOW THE MUD LINE.

Anchor CEI Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. email: emoore@anchorcei.com

Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Date	Revision
1	04/15/26	ADDENDUM 1
2	05/05/26	ADDENDUM 2

Designed: B. Silcox
Drawn: B. Silcox
Checked: E. Moore, P.E.
Job No.: 1328-007
Date: 5/5/2026

SITE IMPROVEMENTS PLAN

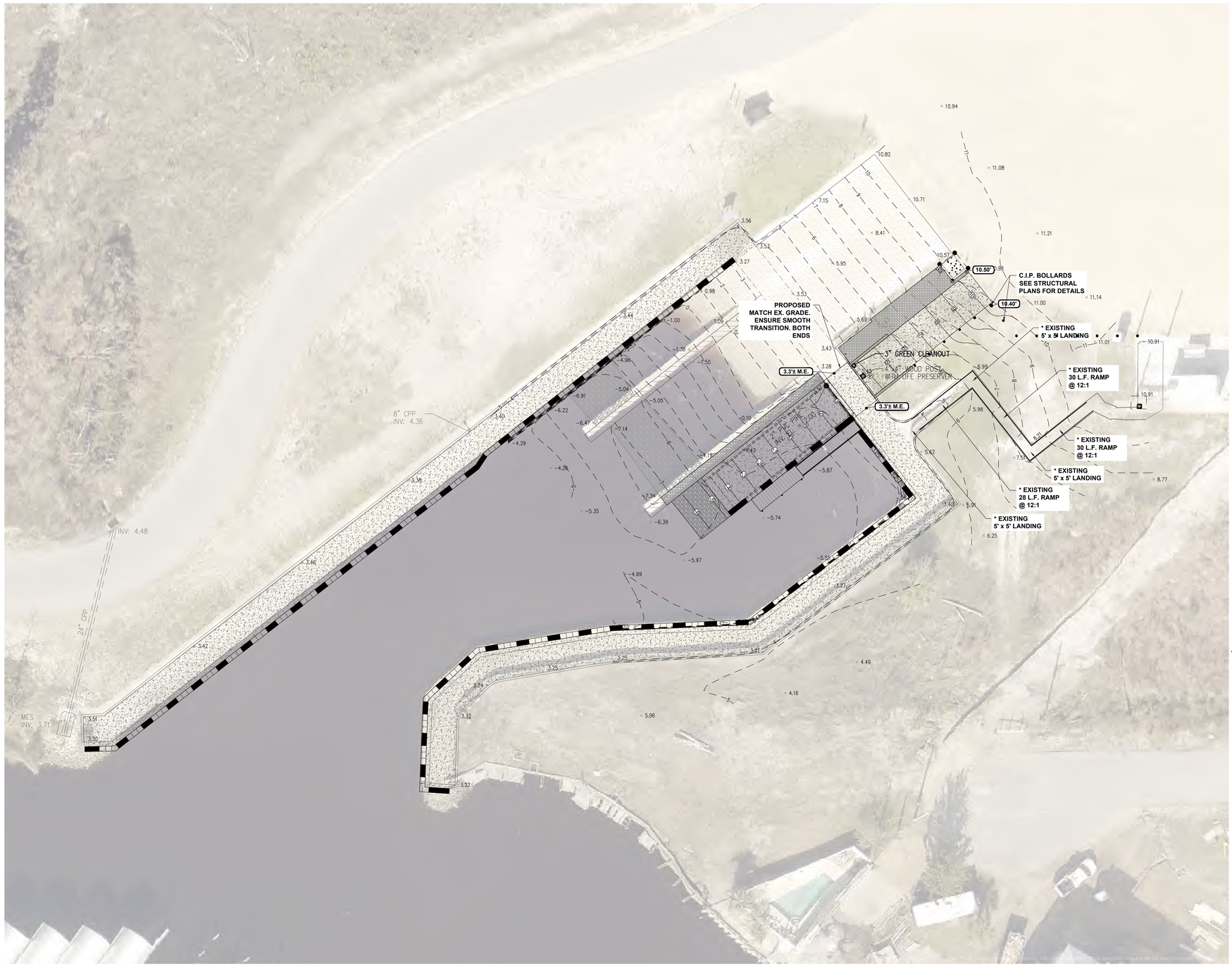
MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
C1.1

G:\.shortcut-targets-by-id\1olskGE4ZdjHy87n50Py1ZC_IM2vOjWED\Projects\1328 - MEXICO BEACH\007 - BOATRAMP REPAIRS AND EXPANSION\9.0 - CAD WORK\DWG FILES\PLANS\1328-007_MB_Boat Ramp.dwg, 5/5/2026 10:51:18 AM, Bill Silcox



N

20 0 20 40

Graphic Scale in Feet

LEGEND:

IMPROVEMENTS:

CONCRETE

RIP-RAP

PROPOSED GRADING:

XX.XX PAVEMENT ELEV.

XX.XX± M.E. ELEV. MATCH EXISTING

EXISTING GRADING:

× 10.91 EXISTING SPOT ELEVATION

GRADING NOTE:

1. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.

2. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE-GRADER OPERATIONS.

3. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER.

* EXISTING SLOPES ARE BASED ON ORIGINAL DESIGN BY OTHERS. EXISTING GROUND SHOTS AND TOPOGRAPHIC CONTOURS SHOW THAT EXISTING RAMPS ARE WITHIN ADA COMPLIANCE.

WATER LEVEL NOTE:

MEAN HIGH WATER (MHW) ELEV. = 0.74'
MEAN LOW WATER (MLW) ELEV. = (-0.45')
HIGHEST ASTRONOMICAL TIDE (HAT) ELEV. = ±1.80'

THE DEPTH AT MLW IS 4.35' AND MAX. DRAFT OF BOATS UTILIZING THE RAMP WILL BE 40", PROVIDING A MINIMUM 12.2" CLEARANCE AT MLW.

Anchor CEI Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. email: emoore@anchorcei.com

Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Date	Revision
1	04/15/26	ADDENDUM 1

Designed:	B. Silcox
Drawn:	B. Silcox
Checked:	E. Moore, P.E.
Job No.:	1328-007
Date:	5/5/2026

GRADING SITE PLAN

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

Sheet No.
C1.2

G:\:shortcut-targets-by-id\1olskGE4ZdjHy87n50Py1ZC_IM2vOjWED\Projects\1328 - MEXICO BEACH\007 - BOATRAMP REPAIRS AND EXPANSION\9.0 - CAD WORK\DWG FILES\PLANS\1328-007_MB_Boat Ramp.dwg, 5/5/2026 10:49:48 AM, Bill Silcox

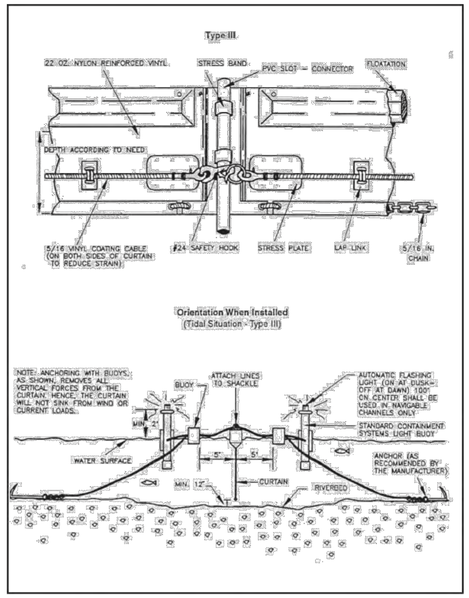
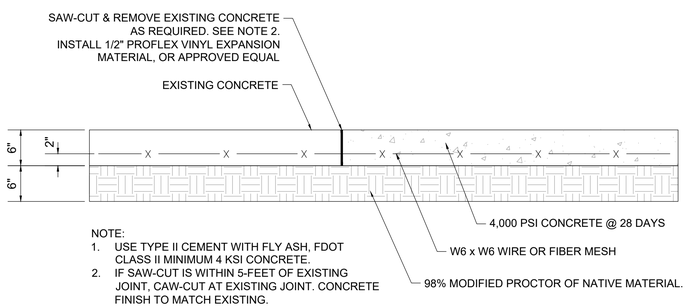


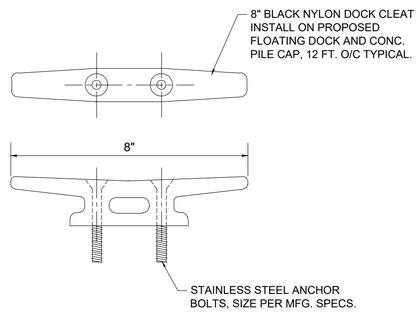
Figure 3.4m. Type III floating turbidity barrier

Source: American Boom and Barrier Corporation and Virginia Department of Transportation (DOT) Standard Sheets

1 TYPE III TURBIDITY CURTAIN DETAIL
Scale: NOT TO SCALE



2 PROMENADE CONCRETE WALKWAY DETAIL
Scale: NOT TO SCALE



3 DOCK CLEAT DETAIL
Scale: NOT TO SCALE

Anchor CEI Engineering that works.
P. 850.215.1285 • F. 850.215.1286
450 Magnolia Avenue, Panama City, FL 32401
CA Number: 31422

This item has been electronically signed and sealed by Elizabeth S. Moore, PE using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. email: emoore@anchorcei.com

Elizabeth S. Moore, PE
FL License No.: 57607

BID SET

NOT RELEASED FOR BID OR CONSTRUCTION

No.	Date	Revision
1		
2		
3		
4		
5		
6		
7		

Designed:	B. Silcox
Drawn:	B. Silcox
Checked:	E. Moore, P.E.
Job No.:	1328-007
Date:	5/5/2026

CIVIL CONSTRUCTION DETAILS

MEXICO BEACH BOAT RAMP REPAIRS & EXPANSION

MEXICO BEACH • BAY COUNTY • FLORIDA

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND

Sheet No.
C2.0

G:\.shortcut-targets-by-id\1olskGE4ZdjHy87n50Py1ZC_IM2vOjWED\Projects\1328 - MEXICO BEACH\007 - BOATRAMP REPAIRS AND EXPANSION\9.0 - CAD WORK\DWG FILES\PLANS\1328-007_MB_Boat Ramp.dwg, 5/5/2026 10:51:08 AM, Bill Silcox

STRUCTURAL GENERAL NOTES

ABBREVIATIONS

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECTURAL or ARCHITECT
B/	BOTTOM OF
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOS	BOTTOM OF STEEL
BRG	BEARING
B/S	BOTTOM SIDE
BTM or (B)	BOTTOM, "BOT" SIM
BTW	BETWEEN
CB	CARRIAGE BOLT
CFS	COLD FORMED STEEL
CIP	CAST IN PLACE
C.J.	CONTROL JOINT
CL or (℄)	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE or CONTINUOUS
CSJ	CONSTRUCTION JOINT
CTR	CENTERED, "CNTR'd" SIM
DET	DETAIL
DBL	DOUBLE
DIA or (Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
D.L.	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.E.	EACH END
E.F.	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EMBED	EMBEDDED or EMBEDMENT
EOS	EDGE OF SLAB
E.G.	EXISTING GRADE
E.S.	EACH SIDE
EQ	EQUAL
E.W.	EACH WAY
EX	EXISTING
EXPB	EXPANSION BOLT
EXT	EXTERIOR
F.F.	FAR FACE
FFE	FINISHED FLOOR ELEVATION
F.G.	FINISHED GRADE
FIN	FINISH
FL	FLOOR
FLG	FLANGE
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FULL PENETRATION
F/S	FAR SIDE
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GDR	GIRDER
GP	GUSSET PLATE
HAS	HEADED ANCHOR STUD
HD	HOLDOWN
HDG	HOT DIP GALVANIZED
HDR	HEADER
HK	HOOK
HORZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
H.S.S.	HEADED SHEAR or "NELSON" STUD
HSS	HOLLOW STL SECTION or TUBE
I.F.	INSIDE FACE
IN	INCH OR INCHES
INT.	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
K	KIP (1,000 POUNDS)
LB	POUNDS
L.E.	LEFT END
L.L.	LIVE LOAD
LLD	LONG LEG DOWN
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER
LWC	LIGHT WEIGHT CONCRETE
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MFGR	MANUFACTURER
MID or (M)	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
M.R.D.	METAL ROOF DECK
MTL	METAL
MTRL	MATERIAL
N.F.	NEAR FACE
NOM	NOMINAL
NO.	NUMBER OR #
N/S	NEAR SIDE
NS	NON-SHRINK
N.T.S.	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
O.C.	ON CENTER, "C.C." SIM
O.D.	OVERALL DIM. "O/O" SIM
O.F.	OUTSIDE FACE
OPP	OPPOSITE
OVS	OVERSIZED
PCC	PRECAST CONCRETE
PEN	PENETRATION
PERP	PERPENDICULAR
P.L.	POINT LOAD
PL	PLATE
PSL	PARALLEL STRAND LUMBER
PT	POINT
P.T.	PRESSURE TREATED or POST-TENSION
P.U.	RIGHT END
REINF	REINFORCING
REF	REFERENCE
RET	RETURN
REQ	REQUIRED
R.L.L.	ROOF LIVE LOAD
R.O.	ROUGH OPENING
SC	SLIP CRITICAL
SCHED	SCHEDULE
S.D.N.	STRUCTURAL DESIGN NOTES
SIM	SIMILAR
SOG	SLAB ON GRADE
S.E.	STUD PACK
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL, "S.S." SIM
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURAL, "STRUCT" SIMILAR
S.W.	SHEAR WALL
SYM	SYMMETRICAL
T or (T)	TOP
T&B	TOP AND BOTTOM
T&S	TEMPERATURE & SHRINKAGE REINF.
T/	TOP OF
T/S	TOP SIDE
TDR	THREADED ROD
TEMP.	"T&S" FOR REINF, ELSE TEMPORARY
THK	THICK OR THICKNESS
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE, "U.N.O." SIM
UWA	UNDER WALL ABOVE, "U.W.A." SIM
VERT	VERTICAL
W/	WITH
WF	WIDE FLANGE
WP	WORKING POINT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

1. **GENERAL NOTES:**

1.1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

1.2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

1.3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.

1.4. DO NOT SCALE DRAWINGS.

1.5. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.

1.6. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

1.7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

1.8. THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

1.9. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF ATLAS ENGINEERING AND CONSULTING, LLC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.

1.10. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

1.11. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

1.12. ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE 8TH EDITION (2023). REFERENCE TO OTHER CODES OR STANDARD SPECIFICATIONS REFER TO THE LATEST EDITION OF SUCH CODES OR SPECIFICATIONS, UNLESS STATED OTHERWISE.

1.13. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS SHOWN ON CONTRACT DOCUMENTS.

1.14. FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0"-0" IS USED AS A REFERENCE ELEVATION. SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION.

1.15. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS IS PROHIBITED UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM ENGINEER OF RECORD.

1.16. IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE THE SPECIFICATIONS.

2. **CODE DESIGN:**

2.1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE.

2.2. GRAVITY LOADS

2.2.1. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

DOCKS 60 PSF

2.3. WIND LOADS (ASCE 7-22):

BASIC WIND SPEED = 140 MPH (INTERPOLATED VALUE)
STRUCTURAL RISK CATEGORY = II
WIND EXPOSURE CATEGORY = C
ENCLOSURE CLASSIFICATION = ENCLOSED
INTERNAL PRESSURE COEFFICIENT = 0.18 +/-

2.4. FLOOD DESIGN DATA:

FLOOD ZONE = AE
BFE = 9
PANEL NO = 12005C0508J

3. **FOUNDATIONS:**

3.1. THE FOUNDATIONS ARE DESIGNED FOR AN ANTICIPATED ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL IF GEOTECHNICAL INVESTIGATION HAS NOT BEEN CONDUCTED.

3.2. REGARDLESS OF WHETHER OR NOT A GEOTECHNICAL INVESTIGATION IS PERFORMED, NO WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY ATLAS ENGINEERING AND CONSULTING, LLC FOR THE PERFORMANCE OF THE FOUNDATION.

3.3. AT A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE:

3.3.1. STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5 FEET AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS.

3.3.2. PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY SOFT AREAS SHALL BE\ EXCAVATED AND REPLACED WITH CLEAN FILL. A DENSITY OF AT LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE BUILDING FOOTPRINT.

3.3.3. ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12 INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE.

3.3.4. EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH OF AT LEAST 2 FEET BELOW THE BOTTOM OF THE FOUNDATION.

3.3.5. DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION VALUES, AND IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2 FEET BELOW THE BOTTOM OF THE EXCAVATION.

3.4. SLABS ON GRADE SHALL BE PLACED OVER A 15 MIL, CLASS "B" VAPOR RETARDER. VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6", OR AS RECOMMENDED BY THE MANUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL PENETRATIONS THROUGH THE VAPOR RETARDER (COLUMNS, PLUMBING, CONDUITS, ETC) SHALL BE SEALED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. VAPOR RETARDER SHALL BE CONTINUOUS UNDER WALL FOUNDATIONS OR SEALED TO EXTERIOR WALLS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

4. **CONCRETE:**

4.1. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

4.2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS:

4.2.1. FOUNDATIONS & SLAB-ON-GRADE 3,000 PSI
4.2.2. STRUCTURAL SLABS 4,000 PSI
4.2.3. CIP BEAMS, COLUMNS & WALLS 4,000 PSI
4.2.4. EXTERIOR RETAINING WALLS 4,000 PSI

4.3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.

4.4. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.

4.5. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

4.6. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

4.7. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

4.8. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 20.6.

4.9. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER 26.4.4 OF ACI 318.

4.10. CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 STEEL MESH OR SYNTHETIC FIBERS AT A MINIMUM RATE OF 3.0 LBS/CY, OR AS RECOMMENDED BY THE FIBER MANUFACTURER FOR CONTROL OF TEMPERATURE AND SHRINKAGE/CRACKING, WHICHEVER IS GREATER. UNLESS NOTED OTHERWISE.

4.11. WHEN WATER-BASED ADHESIVE ARE BEING USED ON CONCRETE SURFACES, THE CONTRACTOR SHALL VERIFY THAT THE WATER CONTENT OF THE CONCRETE IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION.

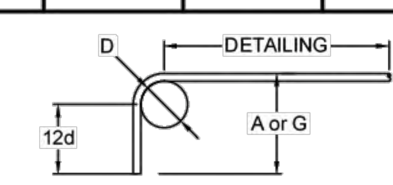
4.12. CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4".

5. **REINFORCING STEEL**

5.1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.

MINIMUM LAP SPLICE LENGTH (IN.) - 3000 PSI CONCRETE						
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
FOOTINGS (HORIZ.)	21	23	29	37	50	-
VERT. DOWELS	22	29	36	43	63	72
MINIMUM LAP SPLICE LENGTH (IN.) - 4000 PSI CONCRETE						
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
BEAMS/SLABS	-	-	-	-	-	-
- TOP BARS	22	29	36	43	63	72
- OTHER	21	21	26	31	39	51
COLUMNS	16	18	19	22	37	45
C.I.P. WALLS	-	-	-	-	-	-
- VERT. (1 MAT)	21	21	22	25	39	51
- VERT. (2 MATS)	16	18	19	22	34	43
- HORIZONTAL	16	19	27	37	60	74
MINIMUM LAP SPLICE LENGTH (IN.) - 1500 PSI NORMAL WEIGHT CMU						
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
6-in CMU WALL	19	25	39	81	-	-
8-in CMU WALL	19	25	31	57	79	113
12-in CMU WALL	19	25	31	53	61	75

RECOMMENED END HOOKS ANCHORAGE LENGTH (IN.) - 3000 PSI CONCRETE						
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
D	2.25	3.00	3.75	4.50	5.25	6.00
A or G	6	8	10	12	14	16
RECOMMENED END HOOKS ANCHORAGE LENGTH (IN.) - 4000 PSI CONCRETE						
	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
D	2.25	3.00	3.75	4.50	5.25	6.00
A or G	7	10	12	15	17	19



5.2. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE CLEAR COVER UNO (PER ACI 318-05 PAR.7.7.1)

5.2.1. CONCRETE CAST AGAINST EARTH: 3"

5.2.2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: 2" (#6 BARS & LARGER); 1-1/2" (#5 BARS & SMALLER)

5.2.3. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 3/4" (SLABS); 1" (WALLS); 1-1/2" (STIRRUPS & TIES)

5.3. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

5.4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS.

5.5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS.

5.6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.

5.7. WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO EXTEND DEEP ENOUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF THE HOOKED BAR. PROVIDE ADDITIONAL TIES OR STIRRUPS IN SUPPORTING STRUCTURE AS REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE CRITERIA.

5.8. ALL REINFORCEMENT SHALL BE BENT COLD, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL EOR.

5.9. SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL IN MAT SLABS, CAST-IN-PLACE WALLS, AND STRUCTURAL SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

5.10. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS FOR REINFORCED CONCRETE, "ACI 318" AND THE "MANUALS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 (LATEST EDITION).

5.11. ALL REINFORCING STEEL AND EMBEDMENTS SHALL BE SECURELY TIED AND SUFFICIENTLY SUPPORTED TO MAINTAIN THE POSITION WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "WET STICKING" DOWELS INTO CONCRETE IS NOT PERMITTED.

5.12. CONTINUOUS REINFORCEMENT SHALL BE PROVIDED WHEREVER POSSIBLE. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. STAGGER SPLICES WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.

5.13. REINFORCING STEEL SHALL NOT BE WELDED OR TACK WELDED UNLESS APPROVED BY THE STRUCTURAL EOR.

5.14. ALL STEEL REINFORCING USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

6. **WELDED WIRE FABRIC:**

6.1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.

6.2. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.

6.3. ALL WELD WIRE MESH USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

7. **WOOD:**

7.1. STRUCTURAL GLUED LAMINATED TIMBER SHALL BE PRODUCED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC). MINIMUM ALLOWABLE BENDING STRESS SHALL BE 2,400 PSI (DRY CONDITIONS).

7.2. PROVIDE DRESSED SEASONED LUMBER, S4S, WITH A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF DRESSING AS LISTED BELOW.

7.2.1. INTERIOR AND EXTERIOR LOAD-BEARING WALLS: SOUTHERN PINE, NO. 2 GRADE.

7.2.2. LINTELS, FLOOR JOISTS AND BEAMS: SOUTHERN PINE, NO. 2 GRADE.

7.2.3. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE-TREATED. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD. THE PROTECTIVE COATING ON LIGHT GAUGE STEEL CONNECTIONS IN CONTACT W/ PRESSURE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURERS RECOMMENDATIONS.

7.3. ENGINEERED LUMBER PRODUCTS

7.3.1. PARALLEL STRAND LUMBER (PSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 2900 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C⊥ = 750 PSI
COMPRESSION PARALLEL TO GRAIN	F/C|| = 2900 PSI
HORIZONTAL SHEAR	F/V = 290 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI

7.3.2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 2600 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C⊥ = 750 PSI
COMPRESSION PARALLEL TO GRAIN	F/C|| = 2510 PSI
HORIZONTAL SHEAR	F/V = 285 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI

7.3.3. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 1700 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C⊥ = 710 PSI
COMPRESSION PARALLEL TO GRAIN	F/C|| = 1835 PSI
HORIZONTAL SHEAR	F/V = 425 PSI
MODULUS OF ELASTICITY	E = 1,300,000 PSI

7.3.4. GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 3000 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C⊥ = 805 PSI
TENSION PARALLEL TO GRAIN	F/T|| = 1350 PSI
HORIZONTAL SHEAR	F/V = 300 PSI
MODULUS OF ELASTICITY	E = 2,100,000 PSI

7.3.5. PRESERVED GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

ALLOWABLE BENDING STRESS	F/B = 2400 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C⊥ = 740 PSI
HORIZONTAL SHEAR	F/V = 300 PSI
MODULUS OF ELASTICITY	E = 1,800,000 PS

7.4. CONNECTIONS

7.4.1. CONNECTIONS FOR STRUCTURAL TIMBER SHALL BE GALVANIZED STRONG TIE CONNECTORS BY THE SIMPSON COMPANY OR APPROVED EQUAL. CONNECTORS SHALL FOLLOW MANUF. CORROSION PROTECTION RECOMMENDATIONS. U.N.O.

7.4.2. THE NUMBER OF FASTENERS PER CONNECTION SHALL BE THE MAX. ALLOWED FOR THAT PARTICULAR FASTENER.

8. **MECHANICAL ANCHORS:**

8.1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS POWERS WEDGE-BOLT, SIMPSON TITEN HD, OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS POWERS POWER-STUD, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT 3).

8.2. TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE.

8.3. IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED.

8.4. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

8.5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.

8.6. MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS INSTALLED IN CONCRETE SHALL BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH.

8.7. TAPCON SCREWS MAY BE REPLACED W/ 0.157" SHANK DIAMETER PAF ANCHORS (HILTI X-U OR EQUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED INTO CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY).

9. **STRUCTURAL STEEL:**

9.1. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

9.2. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:

WIDE FLANGE SHAPES	ASTM A992 (Fy=50 KSI)
ANGLES, CHANNELS AND PLATES	ASTM A36 (Fy=36 KSI)
RECTANGULAR HSS ASTM	A500, GRADE B (Fy=46 KSI)
HIGH STRENGTH BOLTS	ASTM A325 OR A490
THREADED RODS	ASTM A36 (Fy=36 KSI)
HEAVY HEX NUTS	ASTM A563
HARDENED STEEL WASHERS	ASTM F436
ANCHOR RODS	ASTM F1554 GR. 36 (Fy=36 KSI)

9.3. CONNECTIONS:

9.3.1. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O. TIGHTEN BY AN AISC APPROVED METHOD.

9.3.2. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.

9.3.3. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE.

9.3.4. DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED ON THE BEAM OR GIRDER SIZE.

9.3.5. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES, GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES OTHER FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL COLUMNS.

9.3.6. DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS PROVIDED, DETAIL CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.

9.4. HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.

9.5. BOLTS SHARING LOAD WITH WELDS IN A CONNECTION SHALL BE FULLY PRETENSIONED AND SLIP CRITICAL.

9.6. WHERE FULLY PRETENSIONED OR SLIP CRITICAL BOLTS ARE REQUIRED, TIGHTENING SHALL BE ACHIEVED USING EITHER TWIST-OFF TENSION CONTROL BOLTS OR DIRECT TENSION INDICATING WASHERS.

9.7. ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.

9.8. GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.

9.9. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP.

9.10. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY.

10. **RAILINGS AND HANDRAILS:**

10.1. ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

10.2. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

10.3. RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE.

10.4. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL COMPLY WITH ALL APPLICABLE CODES.

10.5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS.

10.6. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

11. **STRUCTURAL SUBMITTALS**

11.1. SHOP DRAWINGS OR REPORTS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION (AS APPLICABLE) U.N.O.

11.1.1. PILE INSTALLATION QUALITY CONTROL
11.1.2. PILE INSTALLTION MONITORING LOG
11.1.3. CONCRETE ADMIXTURES
11.1.4. CONCRETE STRENGTH TESTS
11.1.5. CONCRETE DETAILING
11.1.6. ENGINEERED FILL COMPACTION TESTING
11.1.7. ENGINEERED ROOF AND FLOOR TRUSSES
11.1.8. STEEL JOISTS
11.1.9. STRUCTURAL STEEL
11.1.10. HANDRAILS AND STAIRS

NOT FOR CONSTRUCTION

RELEASE RECORD	
REVIEW ONLY / N.F.C.	02/10/2026
ADDENDUM 1	04/15/2026

DESIGNER:	RSL
REVIEWED BY:	CLH
PROJECT NO:	25-000-010
SHEET SCALE:	N.T.S.

ATLAS
ENGINEERING AND CONSULTING
455 HARRISON AVE, SUITE B
PANAMA CITY, FLORIDA 32401
PHONE: (850) 257-5316
EMAIL: INFO@ATLASENG.US
REGISTRY NO. 34399

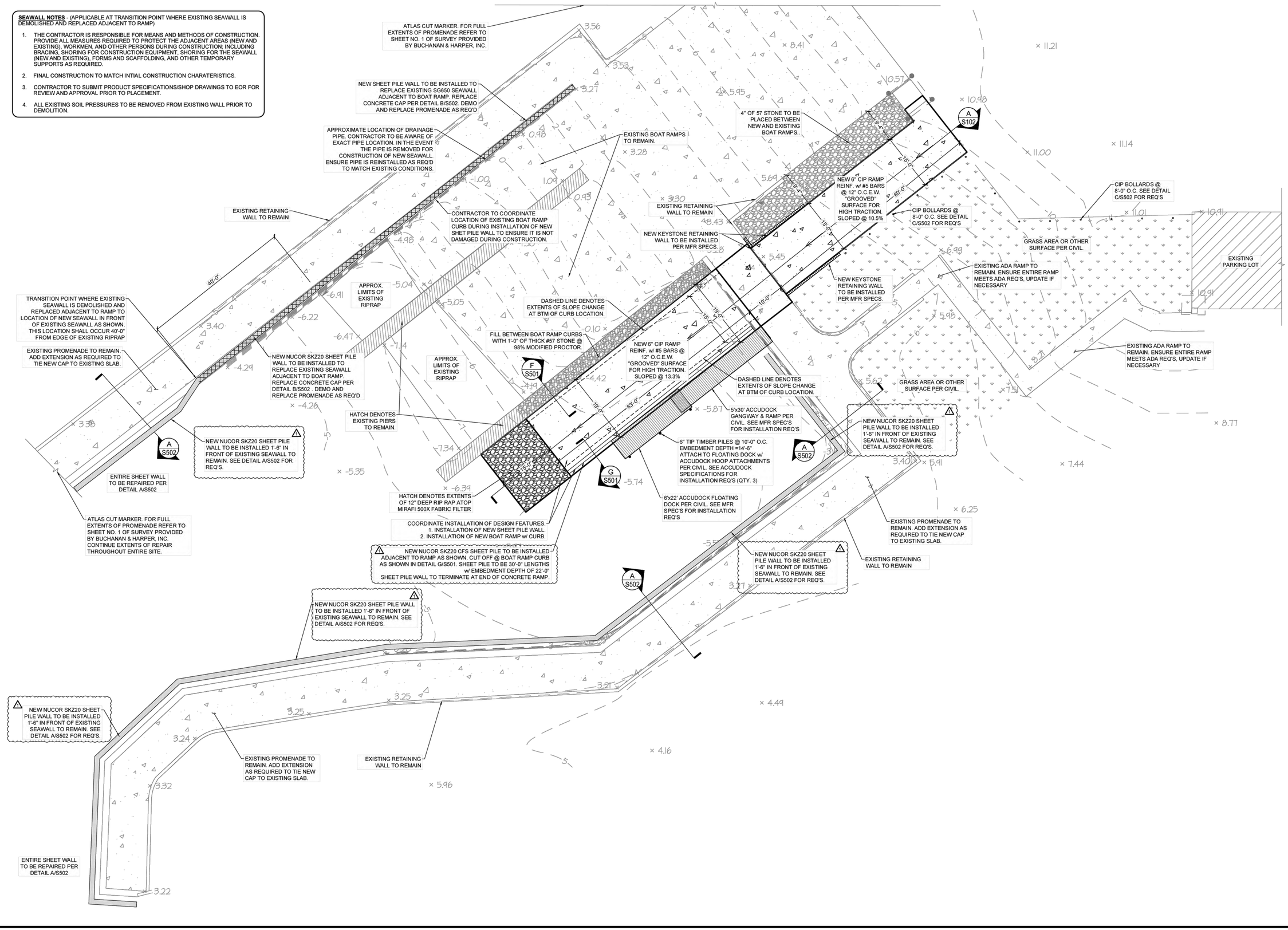
NEW BOAT RAMP DESIGN
MEXICO BEACH BOAT RAMP
BAY COUNTY, FLORIDA

SHEET TITLE
STRUCTURAL GENERAL NOTES

SHEET NO.
S001

SEAWALL NOTES - (APPLICABLE AT TRANSITION POINT WHERE EXISTING SEAWALL IS DEMOLISHED AND REPLACED ADJACENT TO RAMP)

1. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE ADJACENT AREAS (NEW AND EXISTING), WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION; INCLUDING BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE SEAWALL (NEW AND EXISTING), FORMS AND SCAFFOLDING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED.
2. FINAL CONSTRUCTION TO MATCH INTIAL CONSTRUCTION CHARATERISTICS.
3. CONTRACTOR TO SUBMIT PRODUCT SPECIFICATIONS/SHOP DRAWINGS TO EOR FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT.
4. ALL EXISTING SOIL PRESSURES TO BE REMOVED FROM EXISTING WALL PRIOR TO DEMOLITION.



NOT FOR CONSTRUCTION

RELEASE RECORD	
REVIEW ONLY / N.F.C.	02/10/2026
ADDENDUM 1	04/15/2026

DESIGNER:	RSL
REVIEWED BY:	CLH
PROJECT NO:	25-000-010
SHEET SCALE:	3/32"=1'-0" U.N.O.

ATLAS
ENGINEERING AND CONSULTING
REGISTRY NO. 34399
455 HARRISON AVE, SUITE B
PANAMA CITY, FLORIDA 32401
EMAIL: INFO@ATLASENG.US
PHONE: (850) 257-5316

NEW BOAT RAMP DESIGN

MEXICO BEACH BOAT RAMP

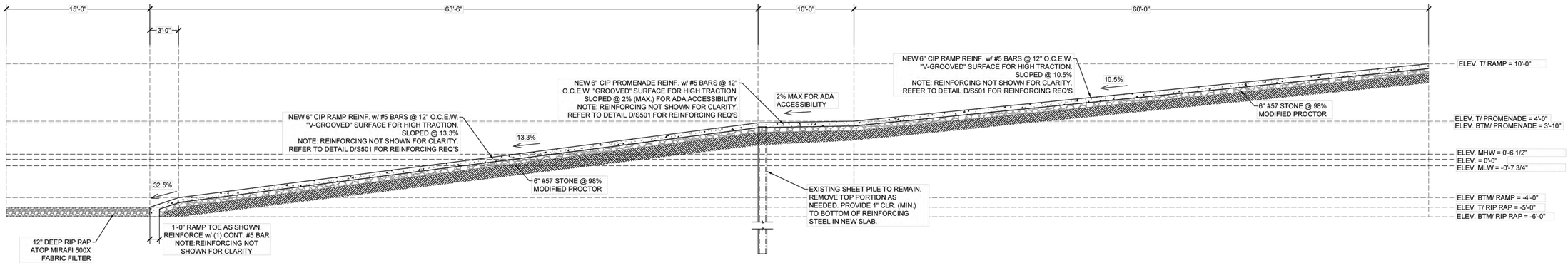
BAY COUNTY, FLORIDA

SHEET TITLE

STRUCTURAL
NEW DESIGN
PLAN

SHEET NO.

S101



GENERAL NOTE:

THE DEPTH AT MLW IS 4.35' AND MAX DRAFT OF BOATS UTILIZING THE RAMP WILL BE 40", PROVIDING A MINIMUM OF 12.2" CLEARANCE AT MLW.

A BOAT RAMP CROSS SECTION

SCALE: 3/16"=1'-0"

GENERAL NOTE:

THE DEPTH AT MLW IS 4.35' AND MAX DRAFT OF BOATS UTILIZING THE RAMP WILL BE 40", PROVIDING A MINIMUM OF 12.2" CLEARANCE AT MLW.

NOT FOR CONSTRUCTION

RELEASE RECORD	
REVIEW ONLY / N.F.C.	02/10/2026
ADDENDUM 1	04/15/2026

DESIGNER:	RSL
REVIEWED BY:	CLH
PROJECT NO:	25-000-010
SHEET SCALE:	3/16"=1'-0" U.N.O.

ATLAS
ENGINEERING AND CONSULTING
455 HARRISON AVE, SUITE B
PANAMA CITY, FLORIDA 32401
EMAIL: INFO@ATLASENG.US
PHONE: (850) 257-5316
REGISTRY NO. 34399

NEW BOAT RAMP DESIGN

MEXICO BEACH BOAT RAMP

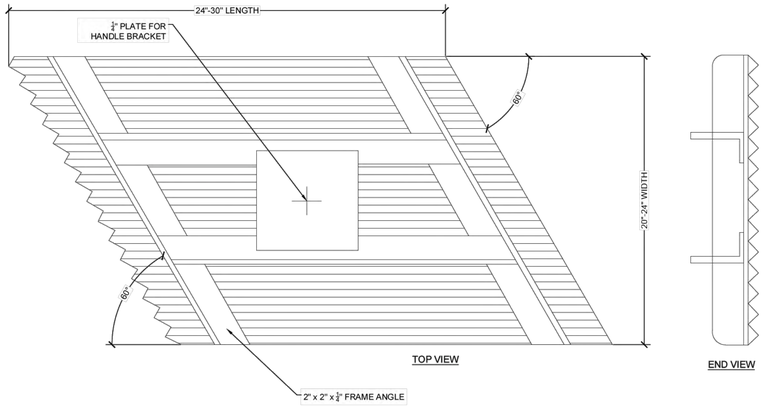
BAY COUNTY, FLORIDA

SHEET TITLE

STRUCTURAL
BOAT RAMP
CROSS SECTION

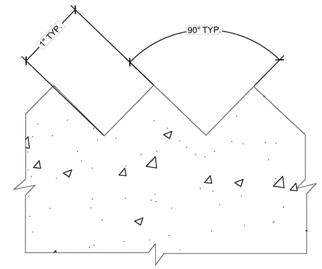
SHEET NO.

S102

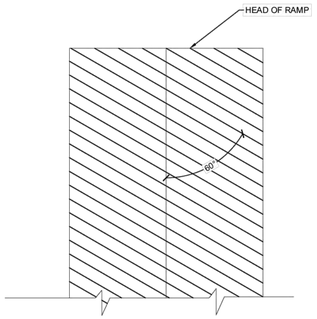


SIDE VIEW

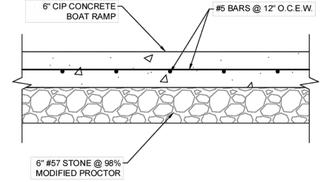
A TYP. V-GROOVE FINISH TOOL DETAIL
SCALE : 1" = 1'-0"



B TYP. V-GROOVE DETAIL
SCALE : 1" = 1'-0"



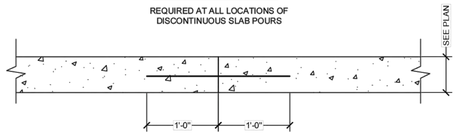
C TYP. V-GROOVE ALIGNMENT DETAIL
SCALE : 1" = 1'-0"



D TYP. BOAT RAMP DETAIL
SCALE : 1" = 1'-0"

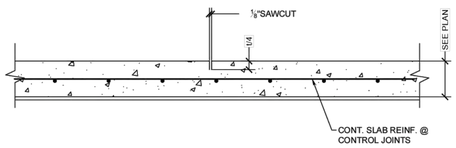
CONSTRUCTION JOINT

REQUIRED AT ALL LOCATIONS OF DISCONTINUOUS SLAB POURS

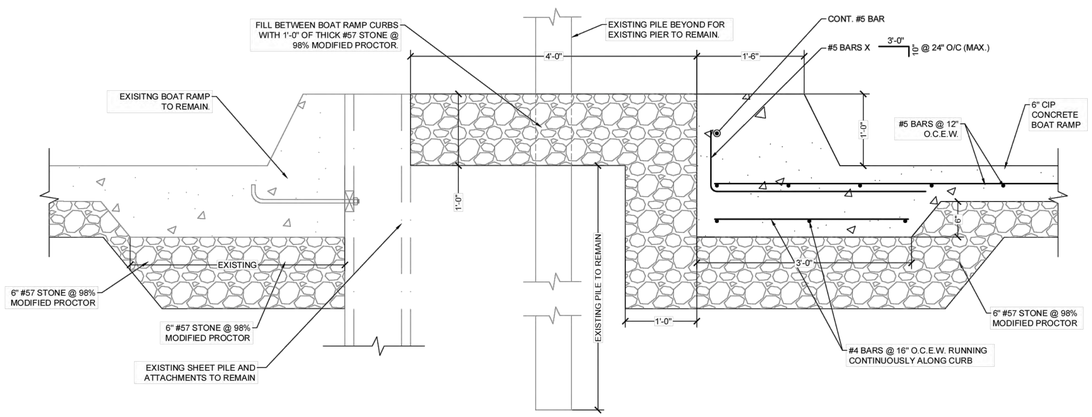


CONTROL JOINT

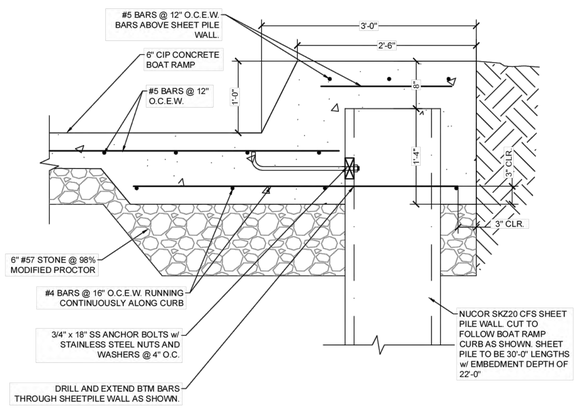
SPACE @ 10' O.C.E.W. MAX.



E TYP. SLAB FINISHING DETAIL
SCALE : 1" = 1'-0"



F TYP. BOAT RAMP CURB DETAIL @ EXISTING BOAT RAMP LOCATION
SCALE : 1" = 1'-0"



G TYP. BOAT RAMP CURB DETAIL @SHEET PILE
SCALE : 1" = 1'-0"

NEW BOAT RAMP DESIGN

MEXICO BEACH BOAT RAMP

BAY COUNTY, FLORIDA

NOT FOR CONSTRUCTION

ATLAS
ENGINEERING AND CONSULTING

455 HARRISON AVE. SUITE B
PANAMA CITY, FLORIDA 32401

PHONE: (850) 257-5316 EMAIL: INFO@ATLASENG.US REGISTRY NO. 34399

PROJECT INFORMATION	
DESIGNER:	RSL
REVIEWED BY:	CLH
PROJECT NO:	25-000-010
SHEET SCALE:	SEE DETAIL

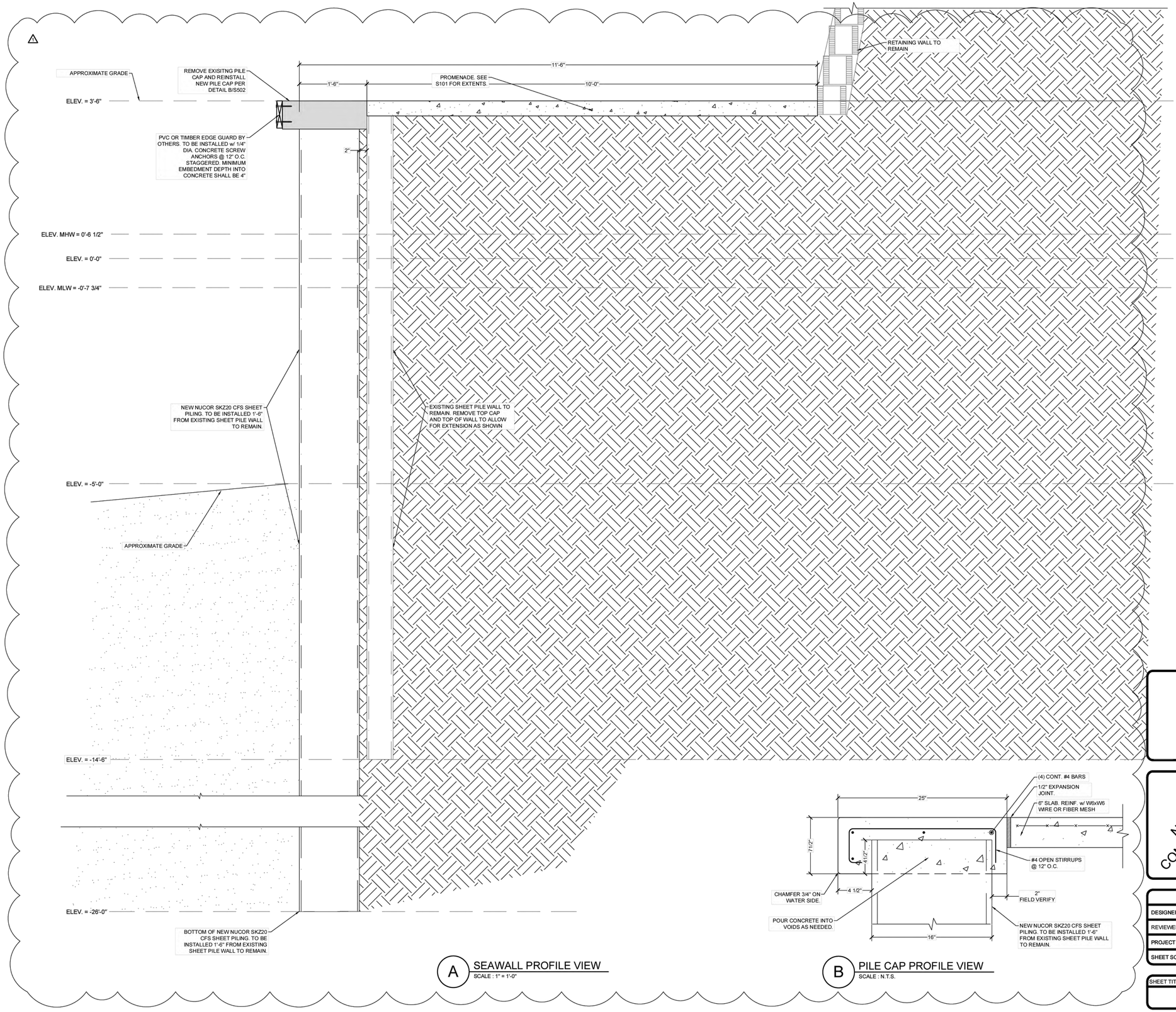
RELEASE RECORD	
REVIEW ONLY / N.F.C.	02/10/2026
ADDENDUM 1	04/15/2026

SHEET TITLE

STRUCTURAL CONSTRUCTION DETAILS

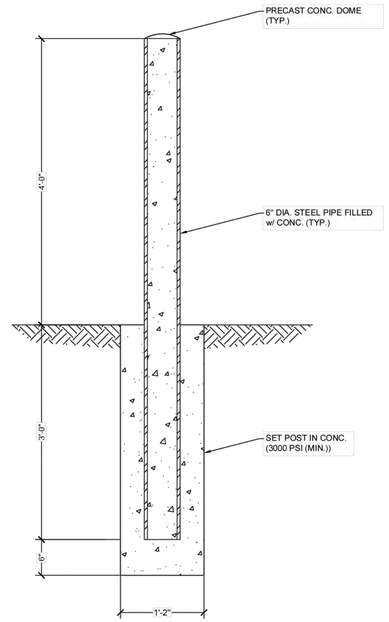
SHEET NO.

S501



A SEAWALL PROFILE VIEW
SCALE : 1" = 1'-0"

B PILE CAP PROFILE VIEW
SCALE : N.T.S.



C TYP. STEEL PIPE BOLLARD DETAIL
SCALE : 1" = 1'-0"

NEW BOAT RAMP DESIGN

MEXICO BEACH BOAT RAMP

BAY COUNTY, FLORIDA

NOT FOR CONSTRUCTION

ATLAS
ENGINEERING AND CONSULTING
455 HARRISON AVE, SUITE B
PANAMA CITY, FLORIDA 32401
PHONE: (850) 257-5316 EMAIL: INFO@ATLASENG.US REGISTRY NO. 34399

PROJECT INFORMATION	
DESIGNER:	RSL
REVIEWED BY:	CLH
PROJECT NO:	25-000-010
SHEET SCALE:	SEE DETAIL

RELEASE RECORD	
REVIEW ONLY / N.F.C.	02/10/2026
ADDENDUM 1	04/15/2026

SHEET TITLE
STRUCTURAL CONSTRUCTION DETAILS

SHEET NO.
S502

CITY OF MEXICO BEACH
BOAT RAMP REPAIRS & EXPANSION

ATTACHMENT C

BID FORM

BASE BID FORM (PLEASE COMPLETE)					
Bid Item #	**Description**	**Qty**	**Unit**	**Cost**	**Total**
GENERAL					
G1	MOBILIZATION/DEMOBILIZATION (10% of the total contract base bid amount)	1	LS	$	$
G2	BONDS AND INSURANCE (5% of the total contract base bid amount)	1	LS	$	$
G3	CONSTRUCTION TESTING	1	LS	$	$
G4	STAKEOUT & AS-BUILTS BY PROFESSIONAL SURVEYOR	1	LS	$	$
G5	EROSION CONTROL & TURBIDITY CONTROL	1	LS	$	$
PHASE I					
1.1	DEMOLISH EXISTING VINYL SHEET PILE SEWALL	132	LF	$	$
1.2	DEMOLISH EXISTING CONCRETE CAP	326	LF	$	$
1.3	DEMOLISH EXISTING DAMAGED CONCRETE PROMENADE	1,625	SF	$	$
1.4	FILL DIRT	150	CY	$	$
1.5	NEW CONCRETE PROMENADE	1,625	LF	$	$
1.6	INSTALL NEW STEEL SEAWALL AT LOCATION OF DEMOLISHED VINYL WALL	132	LF	$	$
1.7	INSTALL NEW STEEL SEAWALL IN FRONT OF EXISTING SEAWALL	194	LF	$	$
1.8	CONCRETE CAP	326	LF	$	$
1.9	ZINC PRIMER ON NEW SEAWALL (BOTH SIDES)	652	LF	$	$
1.10	COAL TAR EPOXY ON NEW SEAWALL (EXPOSED SIDE)	326	LF	$	$
1.11	EDGE GUARD	326	LF	$	$
PHASE II					
2.1	DEMOLITION OF UPLANDS AREA AT NEW BOAT RAMP LOCATION	1	LS	$	$
2.2	REMOVE EXISTING SEWER PVC STUB OUT	1	LS	$	$
2.3	NEW 19’ WIDE GROOVED CONCRETE BOAT RAMP	133.5	LF	$	$
2.4	NEW STEEL SHEET PILE WALL ADJACENT TO NEW BOAT RAMP	63	LF	$	$
2.5	C.I.P. BOLLARDS	14	EA	$	$
2.6	KEYSTONE RETAINING WALL	45	LF	$	$
2.7	12” THICK #57 STONE	320	SF	$	$
2.8	4” THICK #57 STONE	410	SF	$	$

BASE BID FORM (PLEASE COMPLETE)					
Bid Item #	**Description**	**Qty**	**Unit**	**Cost**	**Total**
2.9	RIP RAP	285	SF	$	$
2.10	6" TIMBER PILES	3	EA	$	$
2.11	5' WIDE X 30 LF ADA COMPLIANT ALUMINUM GANGWAY	1	EA	$	$
2.12	6' WIDE X 22 LF FLOATING DOCK (INCLUDING PILE HOLDERS, ROLLER ASSEMBLY, DOCK BUMPER, & CLEATS)	1	EA	$	$
2.13	PROTECTION OF EXISTING SITE ELEMENTS (POST & LIFE PRESERVER, TICKET KIOSK, BOLLARDS, ETC.)	1	LS	$	$
2.14	FILL DIRT FOR CAVITIES FOUND IN UPLANDS	1	LS	$	$
2.15	ZINC PRIMER ON NEW SEAWALL (BOTH SIDES)	126	LF	$	$
2.16	COAL TAR EPOXY ON NEW SEAWALL (EXPOSED SIDE)	63	LF	$	$
PHASE III					
3.1	DEMOLISH EXISTING CONCRETE CAP	300	LF	$	$
3.2	DEMOLISH EXISTING DAMAGED CONCRETE PROMENADE	1,500	SF	$	$
3.3	FILL AT CONCRETE PROMENADE	140	CY	$	$
3.4	NEW CONCRETE PROMANADE	1,500	SF	$	$
3.5	CONCRETE SEAWALL CAP	300	LF	$	$
3.6	INSTALL NEW STEEL SEAWALL IN FRONT OF EXISTING SEAWALL	300	LF	$	$
3.7	CLEATS SPACED 12' O.C.	30	EA	$	$
3.8	ALUMINUM HANDRAIL	193	LF	$	$
3.9	ZINC PRIMER ON NEW SEAWALL (BOTH SIDES)	600	LF	$	$
3.10	COAL TAR EPOXY ON NEW SEAWALL (EXPOSED SIDE)	300	LF	$	$
3.11	EDGE GUARD	300	LF	$	$
				BASE BID TOTAL	$
ALTERNATE					
A.1	24 MILS POLY-EUREA (FACTORY APPLIED) TOPCOAT AT 15' ON BOTH SIDES OF THE SHEET PILES IN LIEU OF COAL TAR EPOXY COATING	1,378	LF	$	$
				ALTERNATE TOTAL	$

Note: Please refer to the Measurement and Payment section for a list of items to be included in the Lump Sum price for each location.

END OF BID FORM

PER ADDENDUM 2

CITY OF MEXICO BEACH
BOAT RAMP REPAIRS & EXPANSION

ATTACHMENT D

SECTION 01150
MEASUREMENT & PAYMENT

SECTION 01150
MEASUREMENT AND PAYMENT

PART 1 - SCOPE OF WORK

A. The scope of this section of the Contract Documents is to further define the items included in each Bid Item in the Bid Proposal section of these Specifications.

B. Payment will be made based on the specified items included in the description in this section for each bid item.

1.02 GENERAL

A. All Contract Prices included in the Bid Proposal section will be full compensation for all labor, materials, tools, equipment and incidentals necessary to complete the construction as shown on the drawings and/or as specified in the Contract Documents to be performed under this contract.

B. Actual quantities of each item bid on a unit price basis will be determined upon completion of the construction in the manner set up for each item in this section of the specifications.

C. Payment for all items listed in the Bid Form will constitute full compensation for all work shown and/or specified to be performed under this project.

1.03 ESTIMATED QUANTITIES

A. The quantities shown are approximate and are given only as a basis of calculation upon which the award of the Contract is to be made.

B. The OWNER/ENGINEER does not assume any responsibility for the final quantities, nor shall the CONTRACTOR claim misunderstanding because of such estimate of quantities.

C. Final payment will be made only for satisfactorily completed quantity of each item.

1.04 WORK OUTSIDE AUTHORIZED LIMITS

A. No payment will be made for work constructed outside the authorized limits of work.

1.05 MEASUREMENT STANDARDS

A. Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.

1.06 AREA MEASUREMENTS

A. In the measurement of items to be paid for based on area of finished work, the lengths and/or widths to be used in the calculations shall be the final dimensions measured along the surface of the completed work within the neat lines shown or designated.

1.07 LUMP SUM ITEMS

A. Where payment for items is shown to be paid on a lump sum basis, no separate payment will be made for any item of work required to complete the lump sum item.

B. Lump sum bid items shall be complete, tested and fully operable prior to request for final payment.

C. Measurement shall be based upon the ENGINEER's estimate of percent complete per partial payment period.

1.08 UNIT PRICE ITEM

A. Separate payment will be made for the items of work described herein and listed on the Bid Form.

B. Any related work not specifically listed but required for satisfactory completion of the work shall be included in the scope of the appropriate listed work items.

1.09 OTHER PROVISIONS

A. No separate payment will be made for the following items, and the cost of such work shall be included in the applicable pay items of work unless indicated otherwise in the individual bid item.

1. Clearing, grubbing, and grading.

2. Replacement and/or repair of existing utilities damaged during construction.

3. Trench excavation, including necessary pavement removal, rock removal, muck removal and restoration unless a separate bid item is listed in the Bid Form.

4. Ditch and swale restoration.

5. Structural fill, backfill and grading.

6. Foundation and borrow materials.

7. Maintaining the existing quality of service during construction.

8. Appurtenant work as required for a complete and operable system.

B. Final payment shall not be requested by the CONTRACTOR or made by the OWNER until record drawings have been submitted to the ENGINEER.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION

3.01 BASE BID

A. **BID ITEM G1 - MOBILIZATION/DEMOBILIZATION**

1. Payment for all work included under this bid item will be made at the lump sum price bid for mobilization and demobilization of all labor, equipment, materials, and appurtenances necessary for construction of the project.

2. Mobilization shall include all those operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, and sanitary and other facilities.

3. Also included as part of this bid item is the cost for project indemnifications, video and photographs, shop drawings, working drawings, schedules, record drawings and documents, coordination, and phasing and other miscellaneous items associated with the work.

4. Measurement for this bid item will be lump sum. The lump sum price for mobilization/demobilization will be limited to 10% of the total contract base bid amount.

5. The initial 70% of the Mobilization/Demobilization lump sum price will be payable with the first month’s partial payment.

6. The remaining 30% of the Mobilization/Demobilization lump sum price will be payable with the final partial payment.

B. **BID ITEM G2 – BONDS & INSURANCE**

1. Payment for this bid item shall be made at the lump sum price bid for all bonds and insurance policies as required by the Contract Documents.

2. Payment will be made only after proper documentation is provided to the ENGINEER. Measurement of this bid item shall be lump sum.

3. This bid item shall not exceed 5.0% of the entire contract bid amount.

C. **BID ITEM G3 – CONSTRUCTION TESTING**

1. Payment for all work included under this bid item will be made at the lump sum price bid for testing to be performed in accordance with the state standards.

2. Payment shall include all testing necessary for construction of the improvements indicated in plans.

3. Payment shall constitute complete compensation for all labor, materials, equipment, testing laboratory fees, and any other necessary work needed to complete this work item.

4. Measurement for the work included under this bid item shall be lump sum.

D. **BID ITEM G4 – STAKEOUT & AS-BUILTS BY PROFESSIONAL SURVEYOR**

1. Payment for the work included under this bid item shall be made at the lump sum price bid for all work associated with furnishing all stakeout/layouts of the improvements as well as surveys and preparation of record drawings as required under the contract documents. As-Builts shall be of sufficient detail to confirm quantities, above and below ground, elevations, materials, and locations of all improvements associated. As-Builts shall be signed and sealed by a Florida Registered Professional Land Surveyor.

2. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

3. Measurement for the work included under this bid item shall be lump sum.

E. **BID ITEM G5 – EROSION CONTROL & TURBIDITY CONTROL**

1. Payment for all work included under this bid item will be made at the lump sum price bid for all work associated with the prevention, control and abatement of erosion and water pollution, as well as NPDES Permit application and administration (if applicable), in accordance with the contract documents.

2. Payment shall include all items and incidentals necessary to

complete the work in conformance with NPDES and other permit requirements.

3. Payment for the work included under this bid item shall be made at unit bid price for installing silt fencing and inlet protection systems and any other erosion or turbidity control as required under the contract documents.

4. Payment shall include all material, labor, equipment, and incidentals necessary to provide and install silt fencing and inlet protection systems and any other erosion or turbidity control as noted on the Construction Drawings.

5. Measurement for work included under this bid item will be lump sum.

F. **BID ITEM 1.1 – DEMOLITION OF EXISTING VINYL SEAWALL**

1. Payment for the work included under this bid item shall be made at unit price bid for all work associated with providing demolition and removal of existing vinyl seawall as required under the contract documents.

2. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item including the removal and disposal of vinyl seawall as well as hauling and tipping fees as necessary.

3. Measurement for the work included under this bid item shall be unit price.

G. **BID ITEM 1.2 – DEMOLITION OF EXISTING CONCRETE CAP**

1. Payment for the work included under this bid item shall be made at unit price bid for all work associated with providing demolition and removal of existing concrete cap as required under the contract documents.

2. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item to including the removal of concrete cap as well as hauling and tipping fees as necessary.

3. Measurement for the work included under this bid item shall be unit price.

H. **BID ITEM 1.3 – DEMOLITION OF EXISTING DAMAGED CONCRETE PROMENADE**

1. Payment for the work included under this bid item shall be made at unit price bid for all work associated with providing demolition and removal of existing damaged concrete promenade as required under the contract documents.

2. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item to include the removal of existing damaged concrete promenade as well as hauling and tipping fees as necessary.

3. Measurement for the work included under this bid item shall be unit price.

I. BID ITEM 1.4 – FILL AT CONCRETE PROMENADE

1. Payment for the work included under this bid item shall be made at unit bid price for adding new fill at the hollow locations and elsewhere as needed along the promenade as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to add additional fill at the promenade as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

J. BID ITEM 1.5 – CONCRETE PROMENADE

1. Payment for the work included under this bid item shall be made at unit bid price for installing new concrete promenade as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install new concrete promenade as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

K. BID ITEM 1.6 – INSTALLATION OF NEW STEEL SEAWALL

1. Payment for the work included under this bid item shall be made at unit bid price for the installation of new steel seawall at the north portion of the boat ramp where the existing vinyl seawall is being removed completely as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals

necessary to install a new steel seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

L. **BID ITEM 1.7 – INSTALLATION OF NEW STEEL SEAWALL IN FRONT OF EXISTING SEAWALL**

1. Payment for the work included under this bid item shall be made at unit bid price for the installation of new steel seawall in front of existing seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install a new steel seawall in front of the existing vinyl seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

M. **BID ITEM 1.8 – CONCRETE SEAWALL CAP**

1. Payment for the work included under this bid item shall be made at unit bid price for installing a new concrete seawall cap as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install a new concrete seawall cap as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

N. **BID ITEM 1.9 – ZINC PRIMER ON NEW SEAWALL (BOTH SIDES)**

1. Payment for the work included under this bid item shall be made at unit bid price for a zinc primer on both sides of the new seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to apply a zinc primer on both sides of the new seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

O. **BID ITEM 1.10 – COAL TAR EPOXY ON NEW SEAWALL (EXPOSED SIDE)**

1. Payment for the work included under this bid item shall be made at unit bid price for coal tar epoxy on the exposed side of the new seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to apply a coal tar epoxy on the exposed side of the new seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

P. **BID ITEM 1.11 – EDGE GUARD**

1. Payment for the work included under this bid item shall be made at unit bid price for edge guard as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install an edge guard along the concrete cap as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

Q. **BID ITEM 2.1 – DEMOLITION OF EXISTING UPLAND AREA FOR NEW BOAT RAMP**

1. Payment for the work included under this bid item shall be made at unit price bid for all work associated with providing demolition and removal of existing upland area to accommodate the new concrete boat ramp as required under the contract documents.

2. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item to including the removal of all existing upland improvements such as concrete, earthwork, existing utilities, and any other existing components, as well as hauling and tipping fees as necessary.

3. Measurement for the work included under this bid item shall be unit price.

R. **BID ITEM 2.2 – REMOVE EXISTING SEWER PVC STUBOUT**

1. Payment for the work included under this bid item shall be made at unit price bid for all work associated with removing the existing PVC sewer stub out as required under the contract documents.

2. Payment shall constitute complete compensation for all labor,

materials, and equipment necessary to complete this work item to include the removal of the existing PVC sewer stubout as shown in the Construction Drawings.

3. Measurement for the work included under this bid item shall be unit price.

S. **BID ITEM 2.3 – 19’ WIDE GROOVED CONCRETE BOAT RAMP**

1. Payment for the work included under this bid item shall be made at lump sum price for constructing a new concrete boat ramp as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to construct a new concrete boat ramp as detailed in the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

T. **BID ITEM 2.4 – NEW SHEET PILE WALL ADJACENT TO BOAT RAMP**

1. Payment for the work included under this bid item shall be made at lump sum price for constructing a new sheet pile wall adjacent to the new boat ramp as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to construct a new sheet pile wall adjacent to the new concrete boat ramp as detailed in the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

U. **BID ITEM 2.5 – CIP BOLLARDS**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of CIP Bollards as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to installation of CIP Bollard as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

V. **BID ITEM 2.6 – KEYSTONE RETAINING WALL**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of a Keystone Retaining Wall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to installation of a Keystone Retaining Wall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

W. **BID ITEM 2.7 – 12” THICK #57 STONE**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of 12” thick #57 Stone as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to installation of 12” thick #57 Stone as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

X. **BID ITEM 2.8 – 4” THICK #57 STONE**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of 4” thick #57 Stone as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to installation of 4” thick #57 Stone as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

Y. **BID ITEM 2.9 – RIP RAP**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of rip rap as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install rip rap as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

Z. **BID ITEM 2.10 – 6” TIMBER PILES**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of 6” timber piles as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install 6” timber piles as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

AA. **BID ITEM 2.11 – 5’ WIDE ADA COMPLIANT ALUMINUM GANGWAY**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of a 5’ wide ADA compliant aluminum gangway as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install an ADA compliant aluminum gangway as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

BB. **BID ITEM 2.12 – 6’ WIDE FLOATING DOCK**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of a floating dock as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install a floating dock as detailed on the Construction Drawings, including pile holders, roller assembly, dock bumpers, and cleats.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

CC. **BID ITEM 2.13 – PROTECTION OF EXISTING SITE ELEMENTS**

1. Payment for the work included under this bid item shall be made at unit price bid for protection of existing site elements as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to protect existing site elements as detailed in the

Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

DD. **BID ITEM 2.14 – FILL DIRT FOR CAVITIES FOUND IN UPLANDS**

1. Payment for the work included under this bid item shall be made at lump sum price for fill dirt for cavities found in upland areas as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary for fill dirt for cavities found in upland areas as detailed in the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

EE. **BID ITEM 2.15 – ZINC PRIMER ON NEW SEAWALL (BOTH SIDES)**

1. Payment for the work included under this bid item shall be made at unit bid price for a zinc primer on both sides of the new seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to apply a zinc primer on both sides of the new seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

FF. **BID ITEM 2.16 – COAL TAR EPOXY ON NEW SEAWALL (EXPOSED SIDE)**

1. Payment for the work included under this bid item shall be made at unit bid price for coal tar epoxy on the exposed side of the new seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to apply a coal tar epoxy on the exposed side of the new seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

GG. **BID ITEM 3.1 – DEMOLITION OF EXISTING CONCRETE CAP**

1. Payment for the work included under this bid item shall be made at

unit price bid for all work associated with providing demolition and removal of existing concrete cap as required under the contract documents.

2. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item including the removal of concrete cap as well as hauling and tipping fees as necessary.

3. Measurement for the work included under this bid item shall be unit price.

HH. **BID ITEM 3.2 – DEMOLITION OF EXISTING DAMAGED CONCRETE PROMENADE**

1. Payment for the work included under this bid item shall be made at unit price bid for all work associated with providing demolition and removal of existing damaged concrete promenade as required under the contract documents.

2. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item to include the removal of existing damaged concrete promenade as well as hauling and tipping fees as necessary.

3. Measurement for the work included under this bid item shall be unit price.

II. **BID ITEM 3.3 – FILL AT CONCRETE PROMENADE**

1. Payment for the work included under this bid item shall be made at unit bid price for adding new fill at the hollow locations along the promenade as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to add additional fill at the promenade as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

JJ. **BID ITEM 3.4 – CONCRETE PROMENADE**

1. Payment for the work included under this bid item shall be made at unit bid price for installing new concrete promenade as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals

necessary to install new concrete promenade as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

KK. **BID ITEM 3.5 – CONCRETE SEAWALL CAP**

1. Payment for the work included under this bid item shall be made at unit bid price for installing a new concrete seawall cap as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install a new concrete seawall cap as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

LL. **BID ITEM 3.6 – INSTALLATION OF NEW STEEL SEAWALL OVER EXISTING SEAWALL**

1. Payment for the work included under this bid item shall be made at unit bid price for the installation of new steel seawall over existing seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install a new steel seawall over the existing vinyl seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

MM. **BID ITEM 3.7 – CLEATS**

1. Payment for the work included under this bid item shall be made at unit bid price for the installation of new cleats as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install new cleats as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

NN. **BID ITEM 3.8 – ALUMINUM HANDRAIL**

1. Payment for the work included under this bid item shall be made at unit price bid for installation of an aluminum handrail as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to installation of an aluminum handrail as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

OO. **BID ITEM 3.9 – ZINC PRIMER ON NEW SEAWALL (BOTH SIDES)**

1. Payment for the work included under this bid item shall be made at unit bid price for a zinc primer on both sides of the new seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to apply a zinc primer on both sides of the new seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

PP. **BID ITEM 3.10 – COAL TAR EPOXY ON NEW SEAWALL (EXPOSED SIDE)**

1. Payment for the work included under this bid item shall be made at unit bid price for coal tar epoxy on the exposed side of the new seawall as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to apply a coal tar epoxy on the exposed side of the new seawall as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

QQ. **BID ITEM 3.11 – EDGE GUARD**

1. Payment for the work included under this bid item shall be made at unit bid price for edge guard as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install an edge guard along the concrete cap as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

RR. **BID ITEM A.1 – 24 MILS POLY-EUREA (FACTORY APPLIED) TOPCOAT**

1. Payment for the work included under this bid item shall be made at unit bid price for a 24 mils poly-eurea (factory applied) topcoat at 15’ on both sides of the sheet piles (in lieu of coal tar epoxy coating) as required under the contract documents.

2. Payment shall include all material, labor, equipment, and incidentals necessary to install a 24 mils poly-eurea (factory applied) topcoat at 15’ on both sides of the sheet piles (in lieu of coal tar epoxy coating) as detailed on the Construction Drawings.

3. Payment shall constitute complete compensation for all labor, materials, and equipment necessary to complete this work item.

END OF SECTION 01150