

Kindley Field Road Boat Ramp Deliverables

Mobilization

Mobilize, including all preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site. The contractor should establish temporary facilities deemed necessary for the works but do not form part of the works, and maintain such site facilities for the duration of the works and site safety.

The contractor must pay all premiums necessary for the insurances required under the contract, and submit proof of coverage to MPW before the start of Works.

Material disclosure: No electricity, water etc. available. Contractor to supply own. Toilets too.

Clear and Grade Site

Contractor to clear site of all existing asphalt, concrete, rubble and loose material. Contractor to grade site to the lines and levels shown on the Drawings.

Site grading to be verified by Government surveyor.

Spoil materials to be disposed of off site in accordance with appropriate legislation.

Palms, buttonwoods, and other endemics to be protected.

Establish Dry Working Conditions

The toe of the ramp is below water. Contractor is to establish a dry working environment, by sheet pile, berm or other method, to allow for proper placement of concrete and surface finishing.

Alternative pre-cast solutions may be considered; details of precast solution must be included in the proponent's submission.

Construct lower boat ramp

Contractor to form and pour concrete as shown on the Drawings. Natural rock shall receive a nominal 2" blinding. Cover to steel to be minimum 3".

Trafficked surface shall receive deep square shouldered grooves 1" wide, 1" deep at 4" centres. Grooves shall be angles 45 degrees to the slope in either direction (chevron). Grooves shall drain through curbing.

Install rock protection

Install rock protection around perimeter of slab, as shown on the Drawings.

Contractor shall use appropriate containment to prevent cement particles from dispersing in the marine environment.

Finished armor to be uniform, clean, and free of excessive splatter.

Construct upper ramp and turnaround

Contractor to form and pour concrete as shown on the Drawings. Natural rock shall receive a nominal 2" blinding. Cover to steel to be minimum 3".

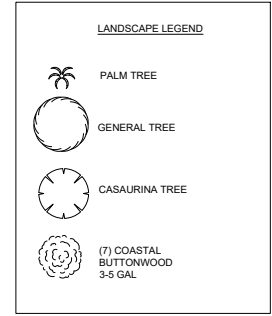
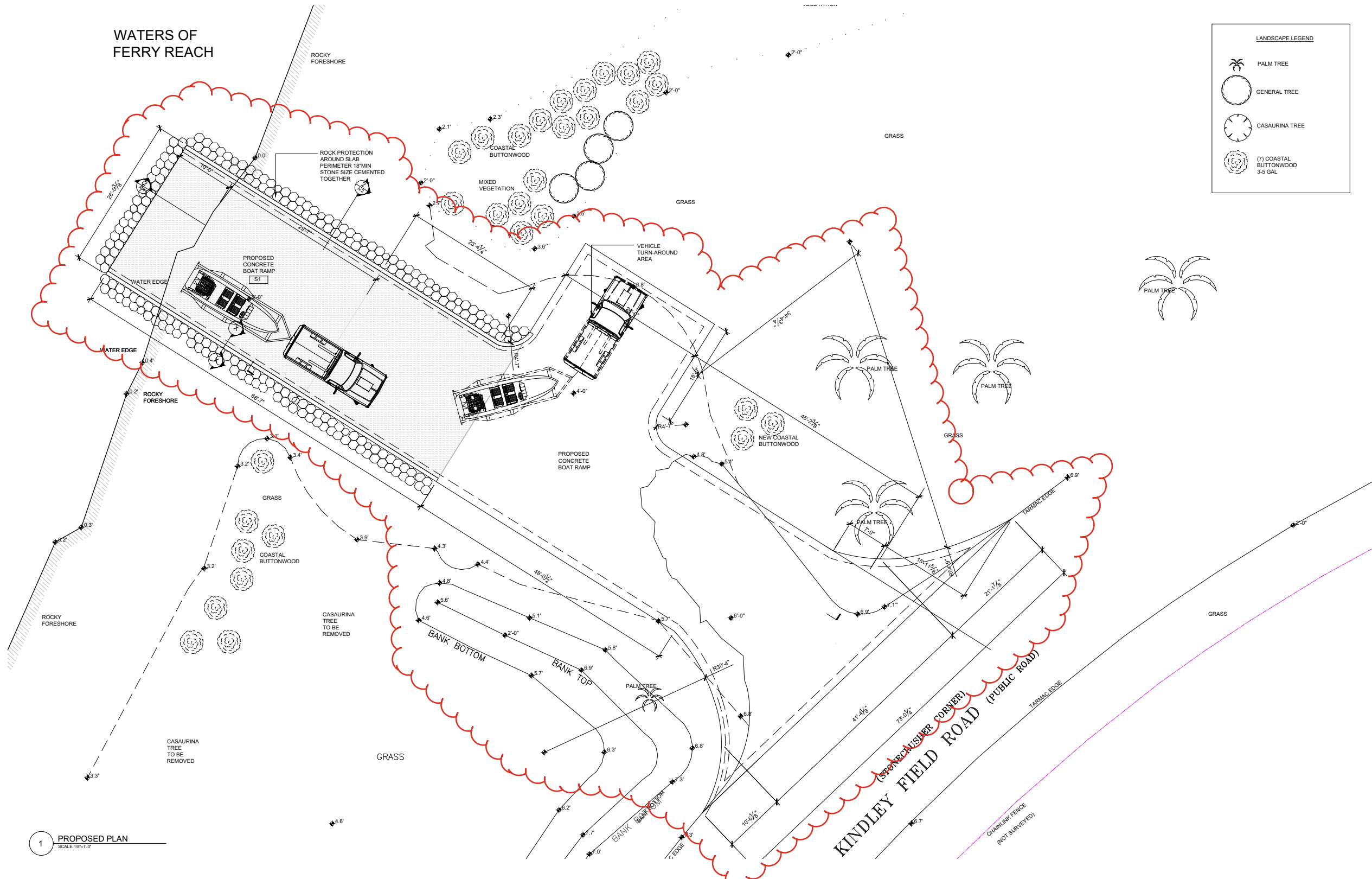
Trafficked surface to receive v-groove finish. Alternative asphalt options, with appropriate sub-base, will be considered.

Demobilization

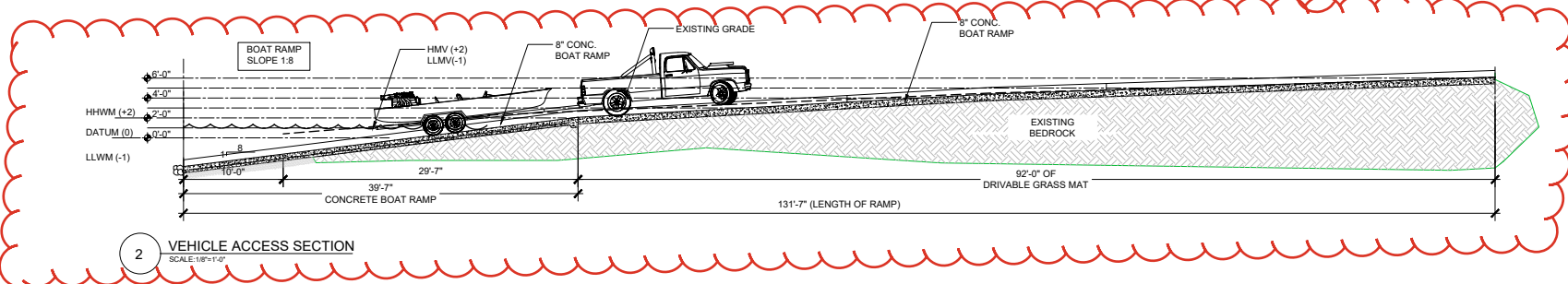
Prepare the site for Taking-Over, and notify MPW that the works are considered complete.

Demobilize including removal from the site of all equipment, waste and facilities brought to the site to facilitate the works, but which do not form part of the Works. This includes any laydown areas adjacent to the roadway. The contractor is required to ensure that the grass is remediated after their work has concluded and should any damage be made to the already existing plants on site, they should be replaced.

WATERS OF FERRY REACH



1 PROPOSED PLAN
SCALE: 1/8"=1'-0"



2 VEHICLE ACCESS SECTION
SCALE: 1/8"=1'-0"

NOTE:
CONTRACTOR TO REVIEW SEABED CONDITIONS PRIOR TO COMMENCING CONSTRUCTION, AND ADVISE WHERE CONDITIONS VARY.

NOTE:
TRY SETTING TOE OF BOAT RAMP 2FT BELOW LLWM (I.E. -3.0)

GENERAL NOTES

All dimensions are in imperial unless otherwise stated

All dimensions shall be checked on site prior to commencing the works and errors and omission to be reports to the architects.

All materials and workmanship shall conform with the relevant specification and codes of practice.

All drawing, specification and related documents are copyright of the architect and must not be copied. Reproduction of Drawings is forbidden without the architects written permission.

This drawing may incorporate information from other professionals. The architect cannot accept responsibility for the integrity and accuracy of such information. Any clarification and/or additions that are required appertaining to such information should be sought from the relevant profession or their appointment representative as listed below.

LIST OF INFORMANTS/CONSULTANTS



Issue	Date	Description
D	24.06.09	GRASSCRETE REPLACED WITH CONCRETE
C	24.05.10	STRUCTURAL INFORMATION
B	24.03.04	STRUCTURAL INFORMATION & DIMENSIONS

Issue Status
BUILDING CONTROL SUBMISSION

Client
DEPARTMENT OF PARKS

Project
REINSTATE BOAT RAMP & VEHICLE ACCESS

Project Address
"STONECRUSHER CORNER" KINDLEY FIELD PARK, ST. GEORGE'S

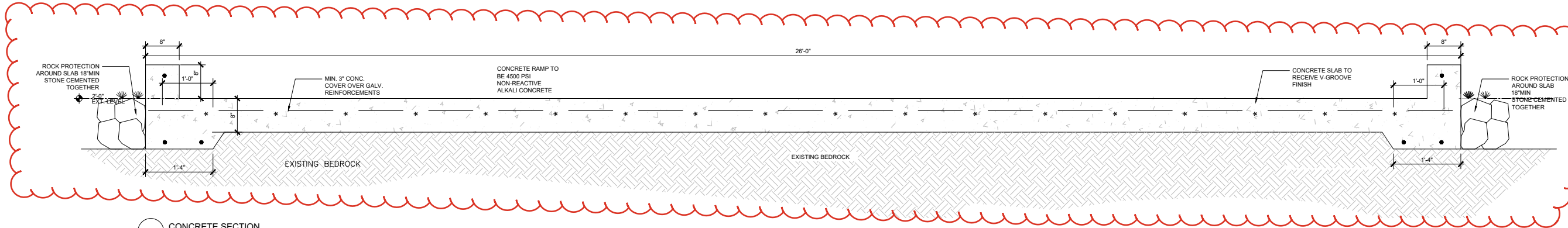
Title Sheet
PROPOSED PLAN & SECTION

Project No. 2023 09
Date: 07.08.2023 Scale: AS NOTED
Drawn: TG Chk'd: TG

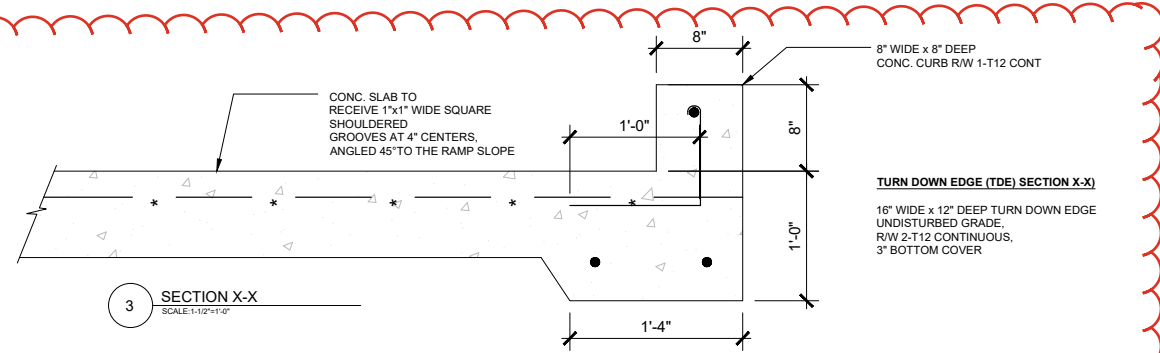
Sheet No.:

A-1

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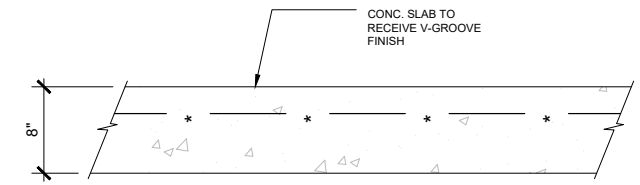


2 CONCRETE SECTION
 SCALE: 1/4"



TURN DOWN EDGE (TDE) SECTION X-X
 16" WIDE x 12" DEEP TURN DOWN EDGE UNDISTURBED GRADE, R/W 2-T12 CONTINUOUS, 3" BOTTOM COVER

3 SECTION X-X
 SCALE: 1/2"



SLAB ON GRADE (S1)
 8" DEEP CONC. SLAB ON GRADE 4500 R/W A252 MESH 3" TOP COVER) SLAB TO BE CONSTRUCTED ON WELL COMPACTED HARD CORE/BEDROCK
 NOTE: CONTROL JOINTS TO BE SPACED @ 10 FT

4 SLAB ON GRADE
 SCALE: 1/2"

***NOTE:
 REGISTERED STRUCTURAL ENGINEER TO BE CONTACTED FOR ALTERNATIVE SLAB DETAIL WHERE DEPTH TO BEDROCK EXCEEDS 18"

1. GENERAL

- 1.1. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS.
- 1.2. CHECK ALL DIMENSIONS ON STRUCTURAL DETAILS WITH THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- 1.3. UNLESS NOTED OTHERWISE (UNO) THE CONTRACTOR SHALL SUPPLY ALL OF THE NECESSARY MATERIALS TO COMPLETE THE WORK.
- 1.4. DO NOT SCALE THE DRAWINGS. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO COMMENCING WORK.
- 1.5. WHERE SITE CONDITIONS VARY FROM THE RECORD DRAWINGS, THE CONTRACTOR SHALL CONTACT A REGISTERED STRUCTURAL ENGINEER TO OBTAIN ALTERNATIVE DETAILS.
- 1.6. CONTRACTOR TO ENSURE THAT THE CONSTRUCTION LOADS DO NOT EXCEED DESIGN LOADS.

2. DEMOLITION, EXCAVATION AND EARTHWORK

- 2.1. ALL EXCAVATIONS SHALL BE ADEQUATELY DEWATERED BEFORE CONCRETE IS PLACED.
- 2.2. WHERE SPECIFIED, ENGINEERED FILL SHALL BE GRADED LOCAL AGGREGATE (NOT GREATER THAN ONE INCH) 'SCREENINGS' FREE FROM ORGANICS AND DELETERIOUS MATERIAL AND APPROVED BY THE REGISTERED ENGINEER. THE FILL SHALL BE PLACED IN LIFTS OF NO GREATER THAN SIX INCHES. EACH LIFT SHALL BE WETTED AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

3. FOUNDATIONS

- 3.1. ALL FOUNDATIONS SHALL BE FOUNDED ON BEDROCK. WHERE THE PRESENCE OF ROCK IS EXPECTED BUT NOT DETECTED, A REGISTERED STRUCTURAL ENGINEER SHALL BE RETAINED TO PROVIDE ALTERNATIVE DETAILS.
- 3.2. ANY SOFT AREAS IN ROCK ARE TO BE REMOVED AND FILLED WITH 1500 PSI LEAN CONCRETE

4. CONCRETE

- 4.1. ALL STRUCTURAL CONCRETE SHALL ACHIEVE A MINIMUM CYLINDER COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, (UNO).
- 4.2. ALL RUBBLE CONCRETE SHALL ACHIEVE A MINIMUM CYLINDER COMPRESSIVE STRENGTH OF 1500 PSI AT 28 DAYS, (UNO).
- 4.3. CONCRETE SHALL BE MECHANICALLY COMPACTED IN THE APPROVED MANNER.
- 4.4. CONCRETE COVER TO REBARS SHALL BE 3" (UNO);
- 4.5. CONCRETE MIX DESIGN TO BE SUBMITTED TO A REGISTERED STRUCTURAL ENGINEER FOR APPROVAL.
- 4.6. NO ADDITIVES TO BE USED WITHOUT THE PRIOR APPROVAL FROM A REGISTERED STRUCTURAL ENGINEER.
- 4.7. ONLY PERSONNEL WITH EXPERIENCE IN STRUCTURAL CONCRETE SHALL BE RESPONSIBLE FOR THE PLACEMENT OF CONCRETE IN ACCORDANCE WITH SECTION 12 BRRC 2014.
- 4.8. DO NOT CUT OR CORE ANY OPENINGS OR THEIR LIKE IN ANY STRUCTURAL CONCRETE MEMBERS WITHOUT PRIOR WRITTEN APPROVAL FROM A REGISTERED STRUCTURAL ENGINEER.

5. REINFORCING STEEL

- 5.1. ALL STEEL REBARS SHALL BE GALVANIZED WITH A MINIMUM YIELD STRESS OF 60,000 PSI (UNO).
- 5.2. (UNO), MINIMUM ALLOWABLE LAP LENGTHS TO REBARS SHALL BE:

T6	12" (TWELVE INCHES)
T8	15" (FIFTEEN INCHES)
T10	18" (EIGHTEEN INCHES)
T12	24" (TWENTY-FOUR INCHES)
T16	32" (THIRTY-TWO INCHES)

- 5.3. CHAIRS FOR REINFORCEMENT SHALL BE PLASTIC OR CONCRETE (OR APPROVED EQUIVALENT).
- 5.4. ANY REBAR, WHICH IS CUT, AND BENT ON SITE SHALL HAVE TWO APPLICATIONS OF "ZINC" RICH PAINT APPLIED TO THE ENDS AND DAMAGED AREAS TO THE APPROVAL OF THE ENGINEER.

6. INSPECTION AND TESTING

- 6.1. CONTRACTOR TO PROVIDE 24 HOURS NOTICE FOR THE INSPECTION OF ALL REINFORCING, INCLUDING MASONRY REINFORCING PRIOR TO PLACING CONCRETE.
- 6.2. CONCRETE TO BE TESTED BASED ON SPECIFICATION REQUIREMENTS. TESTING TO BE DONE BY THE SUPPLIER.

7. DESIGN CRITERIA

- 7.1. THE STRUCTURAL DESIGN HAS BEEN COMPLETED IN ACCORDANCE WITH THE BRRC 2014 WHICH REFERENCES, THE LATEST EDITION OF, THE IBC.
- 7.2. THE FOOTING DESIGN BEARING PRESSURE IS 6000PSF UNO.
- 7.3. THE SPECIFIED CONCRETE STRENGTH IS 4500PSI UNO.
- 7.4. THE DESIGN WIND PRESSURE IS 110MPH BASIC WIND SPEED, EXPOSURE C, SUSTAINED WIND SPEED.

NOTE

1. Survey Data: The existing survey does not appear to identify the datum. In addition it does not identify the LLWM (Low low water mark) nor the HHWM (High high water mark). As such it is assumed that the Ordnance Datum represents elevation 0, LLWM shall be taken as -1.0 and HHWM shall be taken as HHWM. Should more definitive elevations be required, we recommend that the datum be identified by the surveyor.

2. Bathymetric Analysis: No bathymetric surveys have been provided which would provide sufficient information on seabed profile. As a result, the design presented is provided based upon the client supplied information to date. Should greater information be required, pre-construction, on the submerged elevations and profile, we recommend a bathymetric survey be provided.

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Title Sheet
 DETAIL SECTIONS

Project No. 2023 09
 Date: 07.08.2023 Scale: AS NOTED
 Drawn: TG Chk'd: TG

Sheet No.:
A-2