ADDENDUM NO. TWO
TO THE
CONSTRUCTION DOCUMENTS
February 14, 2014

GENERAL
The following changes, additions or deletions shall be made to the following documents; all other conditions shall remain the same.

I. SPECIFICATIONS

A. BID FORM
Delete the Bid Form in its entirety; and Substitute with the revised attached Bid Form dated February 14, 2014.

B. PROJECT DIRECTORY
Delete the Project Directory in its entirety; and Substitute with the revised attached Project Directory dated February 14, 2014.

C. SUPPLEMENTARY INSTRUCTIONS TO BIDDERS
Delete the Supplementary Instructions to Bidders in its entirety; and Substitute with the revised attached Supplementary Instructions to Bidders dated February 14, 2014.

D. SUPPLEMENTARY CONDITIONS
Delete the Supplementary Conditions in its entirety; and Substitute with revised attached Supplementary Conditions dated February 14, 2014.

Note: General Condition Article 11 paragraph 11.1.2.3, the prime contractor and all subcontractors are required to have statutory workers’ compensation coverage to include US Longshoreman & Harbor worker (USL&H) statutory coverage and benefits. Certificates of insurance evidencing such coverage must be submitted to the University’s Representative within 10 days of award of the prime contract, and before any workers are allowed on site.

E. INFORMATION AVAILABLE TO BIDDERS
Delete the Information Available to Bidders in its entirety; and Substitute with revised attached Information Available to Bidders dated February 14, 2014.

1. Section 01360, page 7
Sub article 1.4.F.1 DELETE the following text: “of any existing improvements not removed in their entirety as described in Paragraph 9 of Section 2 herein;”

2. Section 01520, page 4
DELETE sub article 2.3.D.2.d Inspector’s Office.

3. 5 pages between Section 01570-01575
DELETE the 5 pages titled “UC San Diego Facilities Design and Construction Revelle Plaza Café Renovation Bid Summary Sheets” beginning at the end of Section 01570 Temporary Controls and ending at the beginning of Section 01575 Storm Water Pollution Prevention

4. Section 01578
Add new Specification Section 01578 Environment Mitigation Requirements

5. Section 02325, page 6
Sub article 1.13.1 CHANGE "disposal sites" to "construction site"
6. **Section 02325, page 7**
   Article 3.7, DELETE ("both upland and ocean disposal sites"), INSERT "upland"

7. **Section 02394, page 6**
   REPLACE sub article 2.5 CHAINS with the following:
   
   "2.4 CHAINS
   Chains shall be comprised of 1 inch diameter stud-link and ¾ inch diameter open-link hot-dipped galvanized chain sections as indicated on the Contract drawings. Hot-dipped galvanized safety bolt pin shackles shall be used to secure the chain."

8. **Section 02396, page 6**
   REPLACE sub article 2.3.A.2 and 2.3.A.3 with the following:
   
   "2. Safety bolt pin shackles shall be galvanized conforming to FS RR-C 2716 and sized as shown on drawings with the ability to connect all items.
   3. The lateral restraining chains shall be open-link, studless chain sized as shown on drawings, manufactured in accordance with U.S. Coast Guard Specification Mil-C-22521C to a minimum quality of Grade 1."

9. **Section 02398, page 2**
   REPLACE sub article 2.1.A.2 with the following:
   
   "2. Preservative Treatment: Fabricate lumber and timbers before treatment with water-borne preservative. Treat wood in accordance with AWPA UC4B Ground Contact (Heavy Duty) using ACQ or ACZA preservative at level of 0.6 pounds active ingredient per cubic foot of wood. The Contractor shall be responsible for the quality of treated wood products. The producer shall comply with practices of AWPA M3. Each piece of treated lumber or timber shall be branded, by the producer, in accordance with AWPA M6."

10. **Section 02460, page 2**
    ADD to sub article 1.3 B
    
    "Pile Driving Equipment
    Submit descriptions of pile driving equipment, including hammers, power packs, driving helmets, cap blocks, pile cushions, leads, extractors, and jetting equipment at least 30 days prior to commencement of work."

11. **Section 02460, page 5**
    ADD new sub article 1.5 B 2, RENUMBER remaining sub articles
    
    "2. Submit information on the type of equipment proposed to be used, proposed methods of operation, pile driving plan including proposed sequence of driving, and details of all pile driving equipment and accessories."

12. **Section 02460, page 5**
    ADD to end of sub article 1.5 B
    
    "Provide detailed procedures for conducting the dynamic pile load test and equipment to be used for conducting the load test. The detailed description shall explain how specific information of pile performance will be evaluated."

13. **Section 02460, page 5**
    ADD new article 1.6, RENUMBER 1.6 to 1.7
    
    "1.6 INDEPENDENT INSPECTION FIRM DOCUMENTATION"
The services of an independent inspection firm, who employs a Registered Professional Engineer, experienced in soil mechanics and Pile Dynamic Analysis, shall be hired by the Contractor to observe test pile installation as specified herein. The inspection firm shall be independent of the Contractor and shall have no employee or employer relationship which could constitute a conflict of interest.

14. **Section 02460, page 11**
CHANGE "Engineer" to "Contractor's independent testing firm" and "Engineer's" to "firm's" in sub section A of Section 2.4

15. **Section 02460, page 15**
CHANGE "Government" to "University" in sub section A of Section 3.2

16. **Section 02460, page 15**
CHANGE second paragraph in sub section B of Section 3.2 to read:

"Indicator pile driving shall be monitored by Pile Driving Analyzer (PDA). The PDA will be furnished and operated by the contractor who shall employ an independent inspection firm experienced in the pile driving process, monitoring of test pile installation, and in the use of the Pile Driving Analyzer and its related equipment. All services of the Contractor's independent inspection firm shall be paid for by the Contractor. The cost of changes in the Contractor's procedure, as required by evaluation of the results of the Pile Driving Analysis, shall be at the Contractor's expense."

17. **Section 02460, page 16**
ADD to end of sub section A of Section 3.2

"PDA testing program will be reviewed and approved by the University's Representative. In addition, the PDA testing will include the assessment of pile capacity during driving by use of the CASE Method. In addition a minimum of two CAPWAP analyses will be performed on each indicator pile. The records used for CAPWAP analyses will be determined by the University's Representative."

18. **Section 03300, page 12**
REVISE sub-articles 3.7A and B, as follows

"A. Testing and Inspecting: University will engage a special inspector to perform field tests and inspections and prepare test reports as required for special inspections. Refer to plans for information on items that require special inspection.

B. Testing and Inspecting: Contractor to engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports for all tests unless stated otherwise."

19. **Section 03311, page 26**
ADD follow to section 3.7, RENUMBER remaining sub-articles

"A. Testing and Inspecting: University will engage a special inspector to perform field tests and inspections and prepare test reports as required for special inspections. Refer to plans for information on items that require special inspection.

B. Testing and Inspecting: Contractor to engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports for all tests unless stated otherwise."

20. **Section 03311, page 26**
Sub-article 3.7 B 4 d CHANGE "90" to "56"

21. **Section 05501, page 5**
DELETE sub article 3.3.
22. Section 05501, page 5
REPLACE sub article 3.4 with the following:

"3.3 DOUBLE BITTS

A. Double Bitt Installation

Double bitts are steel castings which can vary slightly. Provide a template for each double bitt. Set anchors by using the respective template.

Following casting of pier deck and concrete pedestal, level the double bitts using metal nuts or steel shims which will be entirely covered by a maximum 1.5-inches of base plate grout. Grout between the double bitt and the concrete foundation. Check and tighten all nuts. Fill recesses around the nuts in the double bitt with epoxy grout, or molten zinc, flush with the double bitt surface."

23. Section 05501, page 6 – 7
RENUMBER sub article 3.4 through 3.7.

24. Section 16341, Page 6
Sub article 2.4(A,) replace "Stainless Steel" with "NEMA 3R 316l Stainless Steel"

25. Section 16441, Page 6,
Sub article (H),1,replace “4X (Stainless Steel)”, with “3R 316L Stainless Steel”

II. DRAWINGS
The following revised Contract Drawings, copies attached to Addendum 02 dated February 14, 2014, are hereby made part of these Contract Documents:

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Comments</th>
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<tr>
<td>DR02</td>
<td>Revised Section 1 dated February 14, 2014</td>
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<td>DR03</td>
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<tr>
<td>C200</td>
<td>Revised Grading Plan dated February 14, 2014</td>
</tr>
<tr>
<td>C201</td>
<td>Various Drawing Clarifications dated February 14, 2014</td>
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<tr>
<td>S521</td>
<td>Revised Detail 1 dated February 14, 2014</td>
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<tr>
<td>S603</td>
<td>Various Drawing Clarifications dated February 14, 2014</td>
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<td>S801</td>
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<tr>
<td>E001</td>
<td>Revised Notes dated February 14, 2014</td>
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<tr>
<td>E100</td>
<td>Revised Notes and Information for SDG&amp;E Terminal Cabinet dated February 14, 2014</td>
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<tr>
<td>E102</td>
<td>Revised Notes dated February 14, 2014</td>
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<tr>
<td>E201</td>
<td>Revised Diagram dated February 14, 2014</td>
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<tr>
<td>E202</td>
<td>Revised Diagram dated February 14, 2014</td>
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III. QUESTIONS FROM BIDDERS

01. **RFI**: Reference is made to Contract Drawing Sheet DR01 - SHORELINE EXCAVATION SECTION 1 of 5 for the UCSD Project No. 4425 - Scripps Institute of Oceanography Marine Facility Berthing Wharf and Pier Replacement and to NOTES: 2. Hydrographic Survey Dated Taken From "Hydrographic Survey-Naval Base Point Loma": prepared by MNB and Fugro Pelagos, Dated March 28, 2011.

   It is requested that we be provided with the data from this Hydrographic Survey-Naval Base Point Loma in an electronic format (xyz files).

   **RESPONSE**: A pdf copy of the "Hydrographic Survey-Naval Base Point Loma": prepared by MNB and Fugro Pelagos, Dated March 28, 2011 is provided as a reference drawing (see last sheet in the Bid Drawings set). Data is not available for the Hydrographic Survey-Naval Base Point Loma in an electronic format (xyz files).

02. **RFI**: Project documents and plans state for us to include temporary generators for buildings #2 and #4. Do these buildings require power 24 hours around the clock? We need to calculate the fuel cost and consumption usage. Please advise as soon as possible.

   **RESPONSE**: Generator runtime will be determined by how long power outages are. Buildings contain ships' communications equipment, therefore must be powered 24/7.

03. **RFI**: Please clarify the materials for light poles, scheduled to be fiberglass, or as called out on E-100, Note 14 as concrete pole, and the pole base elevation Above Finished Grade (AFG). Pole base elevation is scheduled to be +6” AFG unless in parking lot, but plans do not specify any parking areas.

   Please clarify pole materials and pole base height requirements.

   **RESPONSE**: Provide 36” AFG pole base and fiberglass pole for all new pole locations. See revised E100.

04. **RFI**: The temporary transformer and switchboard are alternately called out to be 500 KVA with a 600 Amp switchboard and 1000 KVA with a 1600 Amp switchboard. Please clarify which is correct.

   **RESPONSE**: Provide 500kva transformer, 600A board as per single line diagram sheet E-202 Addendum sheet. See revised E102.

05. **RFI**: The referenced notes each refer to relocating a gas line, building concrete pads, constructing fences & bollards, providing curbs and sumps, all work not typically done by electrical contractors.

   Please confirm this work will all be provided by others, or clarify which we are to include.

   **RESPONSE**: Coordinate with prime contractor or provide. Work must be included in overall contract.
06. RFI: Specifications section 01341-page 3 para. 1.6 of Special project procedures states Disposal of PCB’S. Do any of the existing substation transformers and oil filled transformers have PCB’s in them? If PCB’s are in these units does the owner know the parts per mil of PCB’s and the weight of the transformers? At the job walk we could not locate or see the name plates for size and weight of units. Does the owner have a company to contact to remove the PCB products if they exist?

RESPONSE: No PCB in existing transformers.

07. RFI: Specifications require the new electrical switch gear to be Sq-D or Cutler-Hammer. We are having trouble getting pricing from Sq-D and Cutler-Hammer to bid this equipment in stainless steel enclosures. 
#1 Will UCSD accept NEMA 3R with two coats of epoxy coated paint? 
#2 Will UCSD accept a Private Tin Bender company using all SQ-D components and meters in it?

RESPONSE: UCSD will accept NEMA 3R stainless steel. See updated Section 16341. Private Tin Bender Company is not acceptable. Square D may be able provide NEMA 3R stainless steel enclosure. Please contact Square D.

08. RFI: I note that there is no equipment grounding conductor included in the feeders from two pad-mount transformers to their respective switchboards. UCSD Inspectors typically require such a conductor. Please clarify if we are to provide an equipment grounding conductor, and, if so what size we are to provide.

RESPONSE: See addendum sheet E201 for #4/0 ground conductor between the neutral ground bond of the transformer and the switchboard. Provide as indicated.

09. RFI: During the pre-bid meeting, it was stated that all buildings were to remain in use for the duration of the project, and to refer to Div 1 of the project manual for specifics of the temporary power requirements. I have reviewed Div 1 and found no specific direction. Please confirm that the temporary generators shown on the two referenced plan sheets are all that will be required during main service outages that occur after hours as described in Div. 1.

RESPONSE: Power outages must be kept to a minimum. Temporary power equipment is indicated. Generators indicated are for change overs when power is not available. Building’s communications system is for the fleet and must remain up at all times during power outages.

10. NOT USED

11. RFI: The two referenced plans (C001, E100) differ in the requirements for primary electric service. The Electric plan shows installation of a new vault at the existing incoming primary conduit, while the civil plan shows a new terminal cabinet in a planter. Please clarify which is correct. Please provide plans for the utility connection, if they are available.

RESPONSE: SDG&E Terminal Cabinet is to be provided and has been indicated on the updated electrical plans E100, E201, E202 provided as part of Addendum 02.

12. RFI: The referenced plan detail instructs us to wire the curb light fixtures (Type B, and possibly Type C) using ½” conduit with #10 conductors. We note that the specified fixture comes with ½” NPT pipe connections in a cast box. However, the specifications state that we are to use 1”
min conduit for non-metallic conduit. Please clarify if we are to install \( \frac{3}{4}'' \) conduit to the curb and mound lighting as shown and per MFGR., or if we are to have the fixtures modified to accept 1'' conduit.

**RESPONSE:** Exception is made for curb lights in this location and conduits imbedded in mound for mound lighting on pier and wharf, \( \frac{3}{4}'' \) pvc is permitted as indicated for these locations.

13. **RFI:** During the pre-bid meeting, we were instructed to refer to the specifications for information about the existing fire alarm system to be modified. While I found no information as to what system exists, the specs seem to call out an entirely new fire alarm system. However, the plans appear to require only a new pedestal and some signs adjacent to the HAZMAT storage area and a pull station out on the new pier at one of the service mounds. Please clarify the required scope of fire alarm work, and identify the existing manufacturer.

**RESPONSE:** The scope of the fire alarm work is as indicated on the plans. Only components of the specification that relates to the items called for on the plans is applicable.

14. **RFI:** Plan Sheet E102 show installing a temporary 500 KVA transformers and a 600amp temporary switch board for temporary site power.

Plans sheet E202 show temporary 1-line drawing with a 1000 KVA temporary transformer and a 1600 Amp temporary switch board with branch breakers being metered.

Question. Which drawing is correct and are temporary circuit meters required for this temporary switch board. This adds a lot of extra cost.

**RESPONSE:** 500KVA transformer and 600 A board is correct and have been noted as such on addendum sheets E102, E202.

Temporary board circuit metering is indicated and shall be provided.

15. **RFI:** The plans in various locations tell us to provide concrete encasement of all underground conduits, complete with rebar cast in it, and in some places indicates red dye (1.5 pounds per sack of cement), but it also tells us to install "slurry encased ducts per SDG&E standards for primary utility conduits. Utilities do not require 3000 LB concrete or red dye. Please clarify your requirements regarding concrete encasement of PVC ducts underground.

**RESPONSE:** Red dye shall be provided at all UCSD medium voltage ductbanks. UCSD low voltage ductbank will be encased in plain concrete. SDG&E requirements shall be met for SDG&E conduits. University requirements shall be met for UCSD ductbanks. See specifications section 16130.

16. **RFI:** When looking at the existing SDG&E service enclosure, I notice three (3) utility meters in surface mounted cabinets mounted on the old distribution switchboard and on the block wall behind it. These meters may or may not be the ones shown on the demolition 1-line diagram.

Please clarify if these are the meters shown to be removed, or, if not, what we are to do about them and the loads they serve.

**RESPONSE:** SDG&E meter shall be removed by SDG&E, coordinate with SDG&E. Remaining meters shall be removed and turned over to UCSD. New metering is to be provided as indicated.
17. **RFI**: Is it the contractor's responsibility to perform the pre/post eel grass and caulerpa taxifolia survey?

**RESPONSE**: The University will perform the pre/post eelgrass and caulerpa taxifolia surveys.

18. **RFI**: Is it the contractor's responsibility to provide the biological monitor during pile driving?

**RESPONSE**: The University will provide the biological monitor during construction.

19. **RFI**: Is the contractor to provide any temporary facilities for the owner?

**RESPONSE**: The University does not require a trailer during construction.

20. **RFI**: Are old wharf and pier driving records available?

**RESPONSE**: The pile driving records for the existing wharf and pier are not available.

21. **RFI**: What are, or are there noise thresholds below which the daily cumulative blow count limitation does not apply?

**RESPONSE**: The 3,500 blow limit is imposed if the USN P-151 project (and relocation of the USN's marine mammals) has not occurred. Regardless, the contractor is responsible for limiting the noise level to the 12-hour Leq of 75 dBA. In coordination with the USN, the marine mammals are currently scheduled to be moved in early March 2014.

22. **RFI**: Water Window:
   a. The specifications alternately preclude work in the water during all of the Least Tern breeding window (April 1 to September 15) 1360.1.2.D vs. Exhibit C Mitigation and program & design features (TABLE): Biological Resources, which states: Pile Driving (Least Terns) "Pile driving and other in-water demolition or construction that creates excessive underwater acoustics and turbidity (emphasis added) shall avoid the endangered California least tern breeding season..."  
   Q: CAN in water work occur during this period with appropriate controls or is it entirely precluded?

   **RESPONSE**: Demolition of the pier and wharf decking, and other "above water activities" are permitted during the lease tern season (April 1 to September 15) as long as there is no turbidity generated during demolition and debris does not enter the water. Construction BMPs outlined in the project specifications need to be implemented during demolition, including use of floating rafts placed under the wharf and pier to catch demolition debris. If you propose to conduct work during the nesting season, you are responsible for ensuring complete adherence to the conditions regarding debris and turbidity, and need to provide any and all means to ensure this condition is met. No in-water demolition or construction can occur during this period, including but not limited to fender or structural pile installation/removal or jetting activities, or excavation or placement of the new slope.

b. Can fender piles be extracted during the "no water window period"?

   **RESPONSE**: Demolition of the pier and wharf decking, and other "above water activities" are permitted during the lease tern season (April 1 to September 15) as long as there is no turbidity generated during demolition and debris does not enter the water. Construction BMPs outlined in the project specifications need to be implemented during demolition, including use of floating rafts placed under the wharf and pier to catch demolition debris. If you propose to conduct work during the nesting season, you are responsible for ensuring complete adherence to the conditions regarding debris and turbidity, and need to provide any and all means to ensure this condition is met. No in-water demolition or construction can occur during this period, including but not limited to fender or structural pile installation/removal or jetting activities, or excavation or placement of the new slope.

23. **RFI**: What is the design bearing strength of the wharf and pier (new)?
RESPONSE: See drawing S001 for the (new) wharf and pier design loads.

24. RFI: Plan Sheet E100 shows the installing of new S.D.G. & E hand holes to feed the new electrical service.
   
   Question: Has S.D.G. & E been contacted and are they aware of this project? Also has the construction work order been completed by S.D.G. & E? If the utility company has not been working on the design this could delay utility work order for construction up to 12-14 weeks.
   
   RESPONSE: SDG&E has been contacted, their engineering has been completed, fees have been paid. UCSD is in possession of the Job Package.

25. RFI: Drawing E-202 temporary power electrical switch gear, show switch gear and load meters.
   
   Question: Does this switch gear need to be new, with S.S. Steel enclosure?
   
   Can we use a Nema-3R and for temporary power can we use reconditioned switch gear, being it is temporary?
   
   RESPONSE: Temporary equipment need not be new or stainless steel.

26. RFI: Drawing E-400 shows the concrete casting for the mounds with light fixtures cast in the mounds. What fixture type are these fixtures, the Type B curb lights?
   
   RESPONSE: Fixture schedule is on sheet E300.

27. RFI: The specifications and drawings appear to me to be a little un-clear.
   
   Is the entire trench body required to be full stainless steel if so what grate 304? 316?
   
   Is the heavy duty load rail required to be part of a single construction of the trench body?
   
   What material is the grate to be made of? Stainless Steel? Ductile Iron?
   
   If the body is not stainless steel, is the trench concrete with steel frame?
   
   RESPONSE: Provide heavy duty load rail. Grate shall be ductile iron. Trench shall be concrete.

28. NOT USED

29. RFI: Sections 1 through 4 on Drawings DR02 through DR05 and Section 1 on SP02 show the length of slope as 38'-3". Top of the slope is at elevation +0.5 (considering 4.5' cut below +5.0') and bottom of the slope is at -24.5' (4.5' below -20.0'). Considering slope of 1.5:1 this length should be 37'-6". Please clarify.
   
   RESPONSE: The slope should be 37'-6". See Addendum 02, for modifications to sheet DR02-DR05 and SP02.

RESPONSE: The Terra Costa's Geotechnical Report, “Geotechnical Investigation SI0 Research Vessel Berthing Pier Replacement NIMITZ Marine Facility San Diego, CA” dated April 12, 2012, has been included as part of Addendum 02.

31. **RFI**: Detail B on Drawing C201 is referred to but not shown on Drawing C200. Please specify where this Detail belongs to.

**RESPONSE**: Section B is a typical detail of the concrete curb/asphalt pavement interface. Reference is added to C200.

32. **RFI**: Drawings G200 & G300 show existing containers within the Bone Yard area. Will these containers be removed by others prior to start of this project?

**RESPONSE**: Some of the containers will be removed prior to contractor mobilization. 50% of the bone yard area can be used for staging.

33. **RFI**: Is it allowed to use the Bone Yard area for stockpiling and/or dewatering the excavated material?

**RESPONSE**: The Bone Yard area can be used for stockpiling and/or dewatering the excavated material. Construction BMPs outlined in the project specifications need to be implemented during any dewatering or staging activities, including BMPs proposed in the contractor-developed project SWPPP, SPCC, and implementation of TESC measures.

34. **RFI**: Article 1.5, part 2, on page 02325-4 of the Specifications reads; “… pile stubs and broken piles are known to exist in significant quantities around the existing pier, and must be removed as well…” Please specify whether these pile stubs are timber or concrete. Please confirm that the removal of pile stubs is limited to the Shoreline Excavation Area and the pile stubs can be cut at the grade line.

**RESPONSE**: Timber pile stubs from old fender piles may be present along the perimeter of the pier and wharf near existing fender system. The piles stubs are to be removed as necessary for construction. At a minimum the timber pile stubs should be cut at the grade line.

35. **RFI**: During the Job Walk it was mentioned that there are transite pipes within the construction area. Should the Bidders consider removal and disposal of any hazardous material in their bid? If so, please specify the scope of this work.

**RESPONSE**: Transite pipes to remain. Contractor to include any necessary requirements to remove the existing cables out of transite pipes.

36. **RFI**: Specification Section 02325-3.3 references Engineer’s Manual EM 1110-2-1003 Table 35-1 for applicable survey standards used in measuring shoreline excavation quantities for the above referenced project. To avoid confusion, could the Engineer please specify the survey standards required for measuring shoreline excavation quantities?

**RESPONSE**: Table 35-1 is provided in Section 02325 page 3. It was reproduced from original material available in "Table 1 Summary of Minimum Standards for Hydrographic Surveys," published in Appendix B, page B-8 of EM 1110-2-1003.
37. **RFI:** Specification 01315 Phases Section 1.4 A states that “Phase #3 consists of all necessary in-water work (excluding fender pile installation) needed for construction of the wharf and pier. In-water work includes wharf and pier demolition, pile installation, etc.” Please confirm that Phase #3 in-water work consists of only existing wharf and pier pile extraction, wharf and pier bearing pile installation, shoreline excavation/reconstruction, and fender pile installation. If not, please define all construction activities that must be completed during the Phase #3 in-water work period.

**RESPONSE:** In-water work includes, but is not limited to, in-water demolition or construction, fender or structural pile installation/removal or jetting activities, or excavation or placement of the new slope. Demolition of the pier and wharf decking, and other “above water activities” are permitted during the lease term season (April 1 to September 15) as long as there is no turbidity generated during demolition and debris does not enter the water. Construction BMPs outlined in the project specifications need to be implemented during demolition, including use of floating rafts placed under the wharf and pier to catch demolition debris. If you propose to conduct work during the nesting season, you are responsible for ensuring complete adherence to the conditions regarding debris and turbidity, and need to provide any and all means to ensure this condition is met.

38. **RFI:** The area of the “Bone Yard” is defined as +/- 163 feet by +/-155 feet, however note 5 states that the exact limits of the “Bone Yard” will be determined by the MARFAC staff. During the Pre Bid site visit, it appeared that the “Bone Yard” was filled to capacity. The Contractor requests that the limits of the “Bone Yard” provided to the Contractor be clearly defined prior to the bid opening so any necessary off-site storage and laydown can be included in the Contractor’s proposal.

**RESPONSE:** See response to RFI 32.

39. **RFI:** The permissible loading of the existing pier and wharf concrete structures is provided to the Contractor. Please provide the permissible loading (Pounds per Square Foot) of the area on existing ground behind or to the West of the existing wharf?

**RESPONSE:** For a foundation having a minimum embedment of 18 inches and a minimum width of 12 inches, we recommend an allowable bearing capacity of 1500 psf for foundations founded on the existing ground to the west of the existing wharf. This corresponds to an ultimate bearing capacity of 3000 psf. Note that it is the contractor's responsibility to review construction loads against the available geotechnical information and field conditions.

40. **RFI:** I have had difficulty locating a flexible conduit that meets the criteria noted in the detail for conduits crossing the pier seismic joint. Please clarify who makes the conduit system you designed around in this detail.

**RESPONSE:** CARLON # 11815-250

41. **RFI:** Drawing E-102 Note 29 says to provide a NEMA 4X stainless steel box and drawing E-001 Electrical Phasing Plan, Phase 1: Site Preparation, Step 1, Note C says to provide a NEMA 3R box, please clarify. If NEMA 4X is required, should it be 304 or 316 stainless steel?

**RESPONSE:** For this box provide Stainless steel type 316L. See updated drawings E001 and E102.
42. **RFI:** Are there as-built floor plan drawings available for the existing buildings on site? Additional information is needed to estimate the cabling needs to provide temporary service within the buildings (i.e. panel locations and cable routing from generators).

**RESPONSE:** Available floor plan drawings have been included as part of Addendum 02.

43. **RFI:** On drawing E-306 detail 2 shows six (6) conduits running from the Service Mound Distribution Switchboard “MP” and EMH-1, four (4) of the conduits are shown with feeders to each of the electrical mounds on the wharf, and the other two (2) are shown as spares. Please clarify if the intent is to have 2 feeder conduits and 1 spare per electrical mound.

**RESPONSE:** No. The two spares mentioned only run between MP, EMH-1 and EHH-2. Not to mounds.

44. **RFI:** Please clarify that the University will be considered the generator of any hazardous waste that may be encountered (either shown or not shown on the contract documents) and will make personnel available to sign the shipping manifest as the generator of such materials.

**RESPONSE:** No, this will be the contractor's responsibility for providing temporary generators.

45. **RFI:** Drawing E-201, note 12 states to splice new feeders onto existing feeders. Is information on the age and type of existing feeders available? Will the contractor be responsible to perform testing on existing feeders prior to installation of new splices to ensure insulation of existing feeders is reliable?

**RESPONSE:** No existing feeder data available and yes testing will be required.

46. **RFI:** Drawings E-102 Note 5 says to provide a 500KVA, 12KV to 480/277 Volt temporary transformer and a 600 Amp switchboard, but drawing E-202 calls for a 1000KVA temporary transformer and a 1600A temporary switchboard. Please clarify the correct size of the referenced equipment.

**RESPONSE:** 500kVA and 600A swbd is correct and has been indicated on updated sheet E202.

47. **NOT USED**

48. **RFI:** Within GENERAL CONDITIONS – ARTICLE 9 – PAYMENTS AND COMPLETION – 9.3.5 the statement is made: “At the sole discretion of University, University's Representative may approve for inclusion in the Application For Payment the cost of materials not yet incorporated in the Work but already delivered and suitably stored either at the Project site or at some other appropriate location acceptable to University's Representative.”

Please confirm that the University's Representative WILL approve for inclusion in the Application For Payment the cost of materials not yet incorporated in the Work but already delivered….

**RESPONSE:** Yes, if materials can be verified and stored properly.

49. **RFI:** Reference is made to Contract Specification SECTION 1140 – WORK RESTRICTIONS – 1.2 – WORK HOURS and to the limitation therein to working only from 7:00 AM to 3:30 PM Monday through Friday.
It is requested that we be allowed to work up to 12 hours per day (7:00 AM to 7:00 PM) Monday through Saturday.

**RESPONSE:** Work hours are generally 8 hours per day. 12 hours or more per day and weekend work will be permitted when deemed necessary such as utilities outages or shoreline excavation. Refer to plans and individual specifications sections for special requirements.

50. **RFI:** Further reference is made to Contract Specification SECTION 02325 – SHORELINE EXCAVATION – PART 3 – EXECUTION – 3.2 CONDUCT OF SHORELINE EXCAVATION WORK – 3 Lights and to the reference therein to: “When night work is in progress….”

Within Contract Specification SECTION 01140 - WORK RESTRICTIONS – Part 1 - 1.2 WORK HOURS – “A. Construction activities are normally permitted from 7:00 AM to 3:30 PM Monday through Friday only unless otherwise noted. Do not perform construction activities on weekends or during other hours, without advance written authorization from the University’s Representative.”

Additional reference is made to Contract Drawing G501 – GENERAL NOTES 2 of 2 – H – NOISE MITIGATION NOTES – which allows: “The Contractor Shall Not Exceed a 12-Hour Average Sound Level of a 75 A-Weighted Decibel (DBA) LEQ at any Noise-Sensitive Lane Use Between 7 AM and 7 PM Monday through Saturday.”

Please confirm that these statements within SECTION 02325 – SHORELINE EXCAVATION and within Contract Drawing G501 constitutes the authorization from the University’s Representative that working from 7 AM to 7 PM and night work are allowed, six days per week.

**RESPONSE:** See Response to RFI 49.

51. **RFI:** Reference is made to Contract Specification SECTION 01341 – SPECIAL PROJECT PROCEDURES - 1.3 HAZARDOUS MATERIALS PROCEDURES – B the statement is made: “The University will contract with a certified asbestos removal contractor and monitoring agency for all removal of asbestos.”

Please confirm that the University will handle all other hazardous materials in the same manner, i.e. lead based paint, PCB’s, etc.

**RESPONSE:** Yes. Contractor to notify the University immediately when hazardous materials are encountered.

52. **RFI:** Within Contract Specification SECTION 01360 – RELATIONS WITH U.S. ARMY CORPS OF ENGINEERS, U.S. NAVY, AND STATE LANDS COMMISSION – 1.4 RELATIONS WITH STATE LANDS COMMISSION (SLC) – E.1 there is a requirement to: “Remove all portions of the remaining existing improvements to a minimum depth of five (5) feet below the existing mud line;”

Further reference is made to Contract Drawing D012 – WHARF REFLECTIVE PLAN EXISTING CONDITIONS AND DEMOLITION and to the PIER PILE DEMOLITION SCHEDULE contained therein. This table includes a listing of the piles that are to be removed OR “Cut at Min. El. +5.0.”

Please clarify this discrepancy between SECTION 01360 and Drawing D012 with regard to the elevation at which pile must be cut off, is it elevation +5.0 or five feet (5’) below the mudline?
RESPONSE: The wharf piles along Grid Line B are to be cut at Min El. +5.0. Complete removal is required along Wharf Grid Line A and at all pier piling. If the Wharf Grid Line A and pier piling cannot be completely removed, the piles are to be cut off a minimum 5' below the mudline.

53. **RFI:**
Also Within Contract Specification SECTION 01360 – RELATIONS WITH U.S. ARMY CORPS OF ENGINEERS, U.S. NAVY, AND STATE LANDS COMMISSION – 1.4 RELATIONS WITH STATE LANDS COMMISSION (SLC) – F.1 there is a requirement to provide: “A set of "as built" construction plans, certified by a California registered Civil/Structural engineer, showing all design changes or other amendments to the construction as originally approved, and the locations, with dimensions referenced to newly constructed improvements, of any existing improvements not removed in their entirety as described in Paragraph 9 of Section 2 herein; We have been unable to identify the location of Paragraph 9 of Section 2 herein. Please advise as to where within Section 01360 this requirement is spelled out.

RESPONSE: The reference to Paragraph 9 of Section 2 has been removed. See revised Section 01360.

54. **RFI:** Within Specification SECTION 01360 – RELATIONS WITH U.S. ARMY CORPS OF ENGINEERS, U.S. NAVY, AND STATE LANDS COMMISSION – 1.4 RELATIONS WITH STATE LANDS COMMISSION (SLC) – EXHIBIT C there is a requirement to for a Pre- and Post-Construction eelgrass surveys. It is requested that we be provided with any eelgrass surveys that have been performed in the project area.

RESPONSE: Will be provided to successful bidder.

55. **RFI:** Reference is made to Contract Specification SECTION 01440 – QUALITY CONTROL – 1.3.C.1 CONTRACTOR’S RESPONSIBILITIES, TESTING AND INSPECTION and to the requirement therein: “Contractor shall perform testing and inspections on all the Work.” Further reference is made to Contract Specification SECTIONS 02300 – EARTHWORK; 02741 - HOT-MIX ASPHALT PAVING; 03300 – 3.7 - CAST-IN-PLACE CONCRETE; and 04810 - UNIT MASONRY all include the statement: “University will engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.” In addition – within Contract Drawing Sheet G500 – GENERAL NOTES 1 of 2 – GENERAL NOTES – E – SPECIAL INSPECTION NOTES 2 states: “Special Inspection Shall be Performed by a Qualified Person Employed by the University or Staff of an Accredited Inspection Agency Employed by the University.” Please clarify which tests / inspections are being performed by the University and which tests / inspections are to be performed by the Contractor’s testing and inspecting agency, if any.

RESPONSE: All tests and inspections shall be done by the contractors unless specifically called out in the specs and plans to be inspected and tested by the University.

56. **RFI:** As indicated above, Contract Specification SECTION 03300 – 3.7 – CAST-IN-PLACE CONCRETE indicates that the “University will engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.”

Contract Specification SECTION 03311 – MARINE CONCRETE does NOT include a similar
statement regarding the University engaging the testing and inspection agency even though these are very similar Specifications Sections.

Please confirm that the University is engaging the testing and inspection agency for the Marine Concrete as well as the Cast-In-Place Concrete.

RESPONSE: The University will engage a special inspector for the Marine Concrete and Cast-In-Place Concrete Special Inspections. See G500 for information on special inspections. See updated Section 03300 and Section 03311.

All tests and inspections shall be done by the contractors unless specifically called out in the specs and plans to be inspected and tested by the University. Please note the duration of the various tests that must be performed in advance to the approval of the concrete mix designs.

57. RFI: Within Contract Specification SECTION 02325 – SHORELINE EXCAVATION – PART 1 – GENERAL – 1.9.1A Dewatering there is a specific requirement: “Dewatering must occur landside.”

Please clarify if dewatering is not required or if dewatering may be accomplished through the use of scows or barges, may the dewatering occur other than on land?

RESPONSE: Any dewatering that is required needs to be completed from the landside per the specifications, including BMPs stipulated in the contractor-developed project SWPPP, SPCC, and implementation of TESC measures.

58. RFI: Also within Contract Specification SECTION 02325 – SHORELINE EXCAVATION – PART 1 – GENERAL – 1.13.1 Navigation and Operation as well as within PART 3 – EXECUTION – 3.1 INSPECTION there are references to “…moving to and from disposal sites…” and “…to and from the disposal areas (both upland and ocean disposal sites…”

Please identify the ocean disposal sites to be utilized for sediment disposal for this project.

RESPONSE: Open-ocean disposal is not being provided as an option to dispose the excavated sediment. See Revised Section 02325.

59. RFI: Reference is made to Contract Specification SECTION 02325 – SHORELINE EXCAVATION - PART 3 – EXECUTION – 3.2 CONDUCT OF SHORELINE EXCAVATION WORK - 6. Disposal of Excavated Material and to the statement therein: “The results of this screening evaluation are available upon request.”

It is requested that we be provided with the results of this screening evaluation.

RESPONSE: The results of this screening evaluation are provided in Specification Section 02325 page 12 Appendix A.

60. RFI: Reference is made to Contract Specification SECTION 02394 - PLASTIC MARINE CAMELS – PART 2 – PRODUCT - 2.1 CAMELS - D. Camel Components and to the requirement that: “Wall thickness: 1” minimum.”

30” HDPE Pipe has standard minimum wall thicknesses of 0.923” and 1.125” for the smallest two sizes.

Please clarify if the 0.923” minimum industry standard wall thickness for the HDPE shell would be acceptable.
RESPONSE: The 0.923 inch wall thickness for the 30 inch diameter camels is acceptable.

61. RFI: Within Contract Specification SECTION 02371 – ROCK SLOPE PROTECTION – PART 2 – PRODUCTS – 2.1.E – Rock Slope Protection (RSP) Fabric there is a requirement: “Any seams shall be stitched in accordance with the manufacturer's recommendations. No unstitched laps will be allowed.”

The requirement to stitch all laps seems to require a single piece of stitched RSP fabric of several thousand square feet in size. This will be unwieldy for the contractor and several obstacles to achieving stitched laps will make fulfilling this specification impossible or extremely expensive, particularly where the piles have to pass through the RSP.

Accordingly, it is requested that the requirement that the seams of the RSP fabric be stitched be modified to allow for “anchoring” of the fabric in accordance with the manufacturers recommendations.

RESPONSE: Strips of fabric need to be continuous from the top of the slope to the bottom. The stitching requirement applies to the longitudinal seams within each strip (i.e. stitch any seam between the top and bottom of the slope per manufacturer's recommendations).

Transverse seams between strips of fabric may be lapped as indicated in Part 3 - Execution, 3.1 RSP Fabric Installation, "overlap sheets a minimum of 3 feet".

Ballasting should follow immediately after placement of a layer of fabric with sublayer material. Anchoring ends of sheets in accordance with the project drawing is permitted.

62. RFI: Reference is made to Contract Specification SECTION 02640 – GATE VALVES - and SECTION 02660 – PART 1 – GENERAL – 1.2 DEFINITIONS and to the statements included therein: “Domestic water mains and their appurtenances at the University of California, San Diego, main (La Jolla) campus are components of a private service fire main system, and must therefore comply with National Fire Protection Association (NFPA) 24, "Installation of Private Service Fire Mains and Their Appurtenances" (1995 Edition).”

Since the SIO Nimitz Marine Facility is located in Point Loma, do these same requirements still apply in Point Loma that also apply to La Jolla?

RESPONSE: UCSD requirements apply.

63. RFI: Within Specification SECTION 05501 - METAL: MISCELLANEOUS AND FABRICATIONS – 3.7 TESTING – B. Marine Fender Threaded Rod Pull Tests there is a requirement: “If the selected rod fails (cannot support the indicated load), test all four threaded rods at the utility boom.”

Please clarify this reference to “utility boom,” where within the project is a utility boom to be installed – where is this utility boom identified within the Contract Drawings and Contract Specifications?

RESPONSE: Delete Section 3.7B of Specification 05501. See updated specification.

64. RFI: Reference is made to Contract Drawing Sheet B001 BORING LOCATION MAP – NOTES 5 – which states: “The Subsurface Investigation Report is available upon request.”

It is requested that we be provided with the Subsurface Investigation Report.

It is requested that we also be provided with Terra Costas’s Geotechnical Report.

RESPONSE: The Terra Costa’s Geotechnical Report, “Geotechnical Investigation SIO Research Vessel Berthing Pier Replacement NIMITZ Marine Facility San Diego, CA” dated April 12, 2012, has been included as part of Addendum 02.

65. RFI: Reference is made to Contract Drawing Sheet S520 Detail 1 and to Sheet S521 Detail 1. The referenced detail on S520 depicts a washer at the bottom of the anchor bolt shown as 1-1/2” x 6” Ø. Sheet S521 also depicts a similar washer for the 40-ton cleats but does not call out dimensions.

Please provide dimensions of these washers shown within Detail 1 – Sheet S521.

In addition, in lieu of round washers at these installations, it is suggested that square washers be allowed, providing not only a greater anchoring surface, but at a reduced cost to the round washers.

RESPONSE: See Addendum 02, for modifications to sheet S521.

Square washers are acceptable in lieu of round washers provided they have the same thickness and the sides of the square washer are equal to the diameter of the round washer.

66. RFI: Reference is made to Contract Drawing Sheet S605 Detail 2 that depicts a hole in the fender pile providing access to the jet tube coupling. This hole is shown inside the footprint of the UHMW rub strip. It is preferable to install UHMW rub strips at the pile fabrication plant, in which case there will be a conflict with gaining access to the jet tube for jetting of pile.

Will it be acceptable to bore a 2+" hole in the UHMW to allow access to the jet tube with the UHMW installed?

Is it acceptable for the 16’ length of UHMW to be fabricated and attached in two 8’ pieces?

RESPONSE: A hole in the rubbing strip to provide access to the rubbing strip is acceptable. A detail has been added to drawing S605. 2 - 8 ft long pieces of UHMW-PE in lieu of the single 16 ft long piece is acceptable.

67. RFI: Reference is made to Contract Drawing Sheet S801 Detail 1. This detail depicts anchor bolts for the onshore Double Bitt but does not provide dimensions or length for those bolts or sizing for the washers.

Please provide the required sizing for these items.

RESPONSE: See modifications to sheet S801 for required sizing.

68. RFI: Within Contract Drawing Sheet M202 Detail 3, there is a reference to the catch basins on the pier. The filter medium and catch basin/filter body appear to be a specific manufactured part. No manufacturer or product number is called out.
Please provide the name, contact information for the specific manufacturer of these catch basins, and filter systems that the design engineer had in mind?

RESPONSE: KriStar Enterprises, Inc. Hal Schillinger 951.970.0728

69. RFI: Reference is made to Contract Drawing Sheet M204 and to the trench drain shown thereon. This sheet depicts a trench drain with a grate system specifically called out. The part number given in the drawings is no longer used by the manufacturer. ABT has given information on their "XHD 8/12/18" grating system as the correct product reference. Please confirm that this revised product information is acceptable to the University.

RESPONSE: Confirmed, product number has been updated.

70. RFI: Within Contract Drawing S902 – Section C and Detail F depict precast walls/vault with rebar doweled into the vault from the overlying slab.

How is the precast vault lid to be incorporated into the vault and slab? Is it to be set on the slab? Is it tied into the slab as well?

RESPONSE: The top of the precast vault is to be part of the cast-in-place slab. The contractor may propose to utilize a precast vault lid that will be tied into the slab. The modification is dependent on engineering approval.

71. RFI: This question relates to the Mitigation Monitoring Program Exhibit C MM Air-1 2 & 3(page 197) in the specifications and from drawing sheet G500.B.4.(iii) & (iv). The air quality standards listed for 50 horsepower or greater engines do not accurately summarize the current California air quality regulations. If the contractor’s equipment is permitted to operate in the state of California at the time of use, is this sufficient to meet the requirements of this section?

RESPONSE: If the contractor can show the engine has the same emission standards (or better) than the MM, that would be acceptable, but the engine must at least meet Tier 2 standards and reduce Nox emissions 15% from 2007 offroad emission factors.

72. RFI: This question relates to the Mitigation Monitoring Program Exhibit C Noise (page 200) in the specifications and from drawing sheet G501.H.3. This pile driving noise limiting requirement calls for a shroud to “completely enclose on all sides” the pile and pile hammer from 5’ above the top of the pile down to the water surface. This environmental requirement fails to adequately consider the equipment involved and the safety of the workers. The pile driving hammer will have a ram weight near 20,000 pound. This 20,000 pound hammer will repeatedly strike the top of a long slender concrete pile. Many things could potentially go wrong during pile driving. That is why it is critical that skilled and experienced crew men can see both the pile and the hammer at all times during the pile driving. Installing a shroud completely around the hammer will blind both the operator and the crew and prevent them from ensuring the pile driving is progressing safely. At a minimum both the operator of the crane and the pile driving foreman need to be able to see both the hammer and the pile during the pile driving. The foreman needs to stand to the side of the pile so that he looks at the pile from a direction perpendicular to the operator to help the operator adjust the crane boom as may be needed during the pile driving. It is critical to the safe completion of the pile driving task that both the pile and the pile driving hammer be visible from 2 side at all times. Can the pile driving noise limiting requirement for a full shroud that completely encloses the pile and hammer be reduced to a noise limiting shroud on only 2 sides so that the work can be performed safely?
RESPONSE: The acoustical noise shroud specification is based on the noise modeling results. We anticipate that some form of a noise shroud will be required, but there may some flexibility if the contractor can demonstrate that a modified version of a shroud design can still keep noise levels to the 12-hour Leq of 75 dBA.

73. RFI: Who is responsible for performing the pre- and post-construction eelgrass and Caulerpa Taxifolia surveys required in the Mitigation Monitoring Program (page 198)?

RESPONSE: The University will perform the pre/post eelgrass and caulerpa taxifolia survey.

74. RFI: Who is responsible for any mitigation that may be required resulting from eelgrass or Caulerpa Taxifolia that is disturbed during the construction process?

RESPONSE: The University will perform the pre/post eelgrass and caulerpa taxifolia survey, including any mitigation required from impacts.

75. RFI: Who is responsible for providing the biological monitor who watches for the turtles and marine mammals as required in the Mitigation Monitoring Program (page 198)?

RESPONSE: The University will provide the biological monitor during pile driving.

76. RFI: Drawing sheet C200 provides the new deck elevations for the pier. However it only provides some of the elevations needed. The 2 pier catch basins are not dimensionally located. The deck elevation of the centerline ridge is not provided at the expansion joint, between the catch basins, or at the end of the pier. The deck elevations in the 2 valleys are not provided at the end of the pier. Without this information we cannot accurately determine how much concrete is needed to construct the pier. Can a revised drawing C200 be provided that provides all of this deck elevation information?

RESPONSE: C200 has been revised to show additional elevations and dimensions to locate the catch basins.

77. RFI: Specification Section 02460 paragraph 2.4.A calls for a pile hammer with a minimum energy rating of 200 kip-feet. A Delmag D80 pile hammer is rated at 198 kip-feet. The next sized larger Delmag hammer is a D100 which is significantly larger. Can a Delmag D80 pile hammer be used to drive the pier and wharf piles on this project?

RESPONSE: A Delmag D80 pile hammer would be acceptable provided that it is demonstrated during the pile indicator program that this pile hammer can successfully install the piles.

78. RFI: The pier fender system plans and details are shown on drawings sheets S600 to S607. Detail 7/S604 provides the detail for a fender splice plate. However we cannot find where the detail is referenced. We also cannot find a fender splice detail showing how 2 pieces of wale are to be joined. Can you please provide a fender splice detail?

RESPONSE: A detail has been added to drawing S604 to show how the splice plate is used to create a joint between 2 sections of timber waler.

79. RFI: Specification Section 02398 Pier Timberwork paragraph 2.1.A.2 calls for the timber fenders to be treated with water-borne preservative in accordance with AWPA UC5B. The
2013 AWPA U1-13 Service Conditions For Use Category Designations document recommends a treatment level of UC4B for "wood used in salt water splash zones" and UC5B for wood "that is actually exposed at some time during the year" to salt water. The UC4B treatment level has historically been used throughout San Diego Bay. The difference between these 2 standards is the amount of treatment retained within the wood. The UC4B and UC5B standards retain 0.60 and 2.0 pounds per cubic foot, respectively. Would it be more appropriate to use the UC4B standard on this project since the timber wales and chocks at elevation 10.0 m.l.l.w and above are never submerged in the salt water?

RESPONSE: Timber wales and chocks should be treated to AWPA UC4B and therefore have retention values of 0.60 pounds per cubic foot.

80. RFI: Can the wharf demo debris fall into the water and be subsequently removed when the existing rock slope is removed?

RESPONSE: Construction BMPs outlined in the project specifications need to be implemented during demolition, including use of floating rafts placed under the wharf and pier to catch demolition debris. If you propose to conduct work during the nesting season, you are responsible for ensuring complete adherence to the conditions regarding debris and turbidity, and need to provide any and all means to ensure this condition is met.

81. RFI: The schedule on this project is tight and all work needs to be accomplished without delay. However the in-water work on this project is limited by the California Least Tern nesting season from April 1st to September 15th. Can the pier and wharf deck and pile caps be removed prior to September 15th while leaving all of the piling in place until after September 15th?

RESPONSE: Demolition of the pier and wharf decking, and other “above water activities” are permitted during the lease tern season (April 1 to September 15) as long as there is no turbidity generated during demolition and debris does not enter the water. Construction BMPs outlined in the project specifications need to be implemented during demolition, including use of floating rafts placed under the wharf and pier to catch demolition debris. If you propose to conduct work during the nesting season, you are responsible for ensuring complete adherence to the conditions regarding debris and turbidity, and need to provide any and all means to ensure this condition is met. No in-water demolition or construction can occur during this period, including but not limited to fender or structural pile installation/removal or jetting activities, or excavation or placement of the new slope.

82. RFI: It is our understanding that the purpose of the indicator pile program is for the engineers to obtain reliable and accurate pile capacity and pile driving information relative to the subsurface soil characteristics at the project site. Can the contractor propose alternate locations for the indicator pile?

RESPONSE: Yes, however the alternative locations are dependent on approval by project's geotechnical engineer (Terra Costa). In addition, it is important to note that the locations and depths of driving were selected to confirm and assess a variety of information including but not limited to compressive capacity of piles, tension capacity of piles, and drivability. It would be helpful to the project geotechnical engineer when he is reviewing the contractor’s alternative location that he understands the reason for the relocation. As such, the contractor should submit with his alternative locations a brief explanation and reason for the relocation of the pile.

83. RFI: Drawing sheet C001 includes a note identifying a concrete slab and underground storm water basin to be constructed under separate contract. The location of this structure is
adjacent to the onshore double bitt and the new retaining wall. The construction of the double bitt and retaining wall will need to occur before the storm water basin is constructed. What is the expected schedule for when the storm water basin will be constructed?

**RESPONSE:** Assuming that the construction can start in June. Coordination will need to be done between the 2 contractors.

84. **RFI:** Drawing sheet C001 includes a note identifying a concrete slab and underground storm water basin to be constructed under separate contract. The location of this structure is where we are to install a sound barrier wall off the corner of building 01. Will the other contractor be responsible for relocating and maintaining the sound barrier wall once they begin work?

**RESPONSE:** The other contractor will be responsible for relocating and maintaining the sound barrier wall if it is impacted by their work. However, the work must be coordinated between the 2 contractors.

85. **RFI:** This other storm water basin prime contractor who will be contracted under a separate contract will be working within our project site. How will the other contractor be held responsible for compliance with the project SWPPP requirements in place as part of the pier and wharf contract?

**RESPONSE:** They will have to comply with the SWPPP within their project site.

86. **RFI:** Drawing sheet G500 Note B 3. Is this note limited to only UCSD property?

**RESPONSE:** The specific requirements listed on sheet G500 Note B 3 are limited to UCSD property, however the contractor will be responsible for any damage caused by the construction activates to roads outside the property limits.

87. **RFI:** Specification Section 02460 paragraph 3.2.A, second paragraph, clearly notes the PDA will be furnished and operated by the engineer. Specification Section 02460 paragraph 1.3.C, last paragraph, notes the contractor is to submit information on the PDA system to be employed. If the owner is providing the PDA why would the contractor need to submit data about it? Is there also a requirement for the contractor to provide PDA monitoring?

**RESPONSE:** The contractor is responsible for providing the PDA monitoring. See revised Specification Section 02360.

88. **RFI:** Please provide specification for sewer pipe, double wall waste piping, storm drain piping, gas piping or trench drain.

**RESPONSE:** See project specifications.

89. **RFI:** Plan sheet C001 shows 4” sewer pipe below ground, as PVC pressure class sewer pipe. Is this a DWV piping system, or pressure piping such as C900 or equal?

**RESPONSE:** Pressure Piping.

90. **RFI:** Does double wall waste piping under the pier need a leak detector system? Is this piping from a pumped system?
RESPONSE: No leak detection system. Provide inspection ports.

91. **RFI**: Plan sheet D018 calls for existing 4” cast iron sewer to be abandon in place, existing manhole (protect in place). If the existing 4” sewer pipe will be disconnected what is the intent of protecting in place the existing manhole?

RESPONSE: It is not certain that the 4 inch pumped line is connected to the manhole. This is being investigated. Assume that the manhole is to remain as shown on the drawing.

92. **RFI**: EBAA IRON expansion joints, does not allow five sleeves as shown on plan sheet M203.

RESPONSE: System shall be capable of 13” of movement in any direction.

93. **RFI**: Sheet E202 shows 8 meters on the temporary panel board (1 main & 7 branch). What are the specifications for these (non construction power) temporary meters, and are there any external connections required?

RESPONSE: Meters are only for temporary power systems and are standard utility grade meters. No external connections required.

94. **RFI**: Within BID FORM – ARTICLE 7.0 - DAILY RATE OF COMPENSATION FOR COMPENSABLE DELAYS WITH TWO OPTIONS the statement is made: “Bidder shall determine and provide below the daily rate of compensation for any Compensable Delay caused by University at any time during the performance of the Work. A Facility may choose a minimum compensable delay in the best interests of the Project. If so, use the language in parentheticals { } and in grey highlight.”

Please clarify the reference to "WITH TWO OPTIONS." What are the two Options? - Only one option seems to be identified within the Bid Form or Bid Documents.

Also, please explain the reference to: If so, use the language in parenthetical { } and in grey highlight. We cannot identify any language in parentheticals { } or any language in grey highlight

RESPONSE: Please see revised bid form dated February 14, 2014, attached.

95. **RFI**: Reference is made to Contract Drawing Sheet E300 and to Detail 4 thereon which includes two references to the size of the Steel Pipe Bollards. At the top of this Detail the note reads: "4" STEEL PIPE 0.188’ THK WALL" while NOTE 1 requires: "PROVIDE MINIMUM 6" DIA BOLLARDS."

Please clarify the size of these steel pipe bollards.

RESPONSE: Bollards shall be 6” dia. unless otherwise called for in areas subject to SDG&E approval or per SDG&E required construction standards.

96. **RFI**: Within Detail 3 - FIRE ALARM PEDESTAL on Contract Drawing Sheet E303 the concrete pedestal is shown as being 36" deep.

Please provide a detail for the reinforcing steel (if any) that is to be included within this concrete pedestal. It is also requested that we be provided with information on the anchor bolts that are to be set into this concrete pedestal.
RESPONSE: The anchor bolts need to extend a minimum of 30” into the concrete footing. The diameter and pattern of the anchor bolts shall be per the fire alarm pedestal manufacturer's recommendation. Anchor bolts are to be stainless steel. Reinforcing steel is not required in the concrete foundation.

97. RFI: Sheet G501, note H2, requires sound blankets with an STC >=28 and an NRC rating >=0.80 for the sound wall. Are there any sound ratings for the pile driving enclosure discussed under G501, note H3?

RESPONSE: The acoustical noise shroud specification is based on the noise modeling results. We anticipate that some form of a noise shroud will be required, but there may some flexibility if the contractor can demonstrate that a modified version of a shroud design can still keep noise levels to the 12-hour Leq of 75 dBA.

98. RFI: Will it be acceptable to temporarily relocate the Hazardous Storage Shed away from the Wharf face?

RESPONSE: Yes, the Hazmat can be relocated to a temporary site during construction.

99. RFI: Is the installation of the B and B1 Wharf piles being considered as in water work?

RESPONSE: No in-water demolition or construction can occur during the lease term season (April 1 to September 15), including but not limited to fender or structural pile installation/removal or jetting activities, or excavation or placement of the new slope.

100. RFI: Can the existing 8” course of aggregate base be reused where undisturbed? Does it need to be entirely removed and replaced?

RESPONSE: If the aggregate base can be maintained and left undisturbed during various phases of construction, it can be re-used as long as it meets the minimum requirements of the Section 02300 of the specifications.

101. RFI: Are there Buy America/n requirements for the project?

RESPONSE: Refer to individual spec sections for requirement.

102. RFI: Is it required to saw cut and chip the top of concrete pile to expose the spiral reinforcing?

RESPONSE: No.

103. RFI: Can fender piles be dead pulled (no vibratory hammer) extracted during the “no water window period”?

RESPONSE: No in-water demolition or construction can occur during the lease term season (April 1 to September 15), including but not limited to fender or structural pile installation/removal or jetting activities, or excavation or placement of the new slope.

104. RFI: Are there any limitations regarding the stripping of the old slope prior to the installation of fabric core and armour? E.g. only so many running feet opened prior to armoring?
RESPONSE: There is no limitation regarding the stripping of the old slope prior to start of installing of the armoring.

105. RFI: Can the wharf and pier superstructure demolition (removal of the deck complete) be done during the water work closure period (outside the Sep 16-Mar 30 window)?

RESPONSE: Demolition of the pier and wharf decking, and other “above water activities” are permitted during the lease term season (April 1 to September 15) as long as there is no turbidity generated during demolition and debris does not enter the water. Construction BMPs outlined in the project specifications need to be implemented during demolition, including use of floating rafts placed under the wharf and pier to catch demolition debris. If you propose to conduct work during the nesting season, you are responsible for ensuring complete adherence to the conditions regarding debris and turbidity, and need to provide any and all means to ensure this condition is met. No in-water demolition or construction can occur during this period, including but not limited to fender or structural pile installation/removal or jetting activities, or excavation or placement of the new slope.

106. RFI: Is it the intent that the indicator program is to be completed prior to ordering of production pile for the engineer to revise production pile lengths?

RESPONSE: Yes, the intent of the indicator program is to be completed prior to the ordering of production piles in case a revision of production pile lengths is made given the results of the indicator program.

107. RFI: Is the contractor responsible for providing noise monitoring during pile driving?

RESPONSE: The University will provide noise monitoring during construction.

108. RFI: The contract documents require that a noise barrier is placed around the pile at the water line and extend 5 feet above the hammer during pile driving. Is it acceptable to only encase the hammer with a noise barrier?

RESPONSE: The acoustical noise shroud specification is based on the noise modeling results. We anticipate that some form of a noise shroud will be required, but there may some flexibility if the contractor can demonstrate that a modified version of a shroud design can still keep noise levels to the 12-hour Leq of 75 dBA.

109. RFI: Will all hammers be required to have a noise barrier regardless of the type and decibel level of noise it produces?

RESPONSE: The acoustical noise shroud specification is based on the noise modeling results. We anticipate that some form of a noise shroud will be required, but there may some flexibility if the contractor can demonstrate that a modified version of a shroud design can still keep noise levels to the 12-hour Leq of 75 dBA.

110. RFI: Do soft start or low energy blows count toward the maximum daily cumulative blow count limit provided in the environmental mitigation measures?

RESPONSE: The 3,500 blow limit is imposed if the USN P-151 project (and relocation of the USN’s marine mammals) has not occurred. Regardless, the contractor is responsible for
limiting the noise level to the 12-hour Leq of 75 dBA. In coordination with the USN, the marine mammals are currently scheduled to be moved in early March 2014.

111. RFI: Section 01578 “Environmental Mitigation Requirements” is listed in the table of contents in the Division 1 General specifications. That section was not included in the specification package sent to Manson Construction Co. Please provide this specification section if it is to be included in this project.

RESPONSE: Specification Section 01578 "Environment Mitigation Requirements" has been included as part of Addendum 02

112. RFI: Within Concrete Drawing Sheet S401 there is a reference to a 2-1/2" schedule 40 steel jet tube, nipple, reducer and elbow.

It is requested that a Schedule 80 PVC Pipe be substituted in lieu of the Schedule 40 Steel Pipe Jet Tube. It is understood that the nipple, reducer and elbow would remain steel as shown.

RESPONSE: The jet pipe is to be per the contract documents.

113. RFI: On another minor note - there are some neoprene pads to be placed between the precast panels on the Utility Mounds - we cannot find any specs for these neoprene pads - we are simply assuming that commercial grade neoprene is sufficient.

RESPONSE: Commercial grade neoprene is sufficient.

114. RFI: General Condition Article 11 paragraph 11.1.2.3 states “WORKERS’ COMPENSATION AND EMPLOYER’S LIABILITY INSURANCE as required by Federal and State of California law. Contractor shall also require all of its Subcontractors to maintain this insurance coverage.” For this project, since it is on the harbor, shall US Longshoreman & Harbor worker (USL&H) workers' compensation insurance apply to the prime contractor and all subcontractors regardless of tier?

RESPONSE: The prime contractor and all subcontractors are required to have statutory workers' compensation coverage to include US Longshoreman & Harbor worker (USL&H) statutory coverage and benefits. Certificates of insurance evidencing such coverage must be submitted to the University's Representative within 10 days of award of the prime contract, and before any workers are allowed on site.

115. RFI: Can the existing armor stone be salvaged and reused in the new rock slope protection?

RESPONSE: No.

116. RFI: Request overall project schedule
Specific duration for need of temp generators as follows:
- Demolition of existing transformer pad
- Construction of the new transformer pad- re: Dwgs S901/S902/E100/ E102
- Space available to set up temporary pad

RESPONSE: Per the Bid Documents the project is required to be complete within 630 days after the date of commencement specified in the Notice to Proceed. Specific schedule and durations for project components is to be determined by the contractor.
117. **RFI:** What will provide power to various buildings for normal use while the new SDGE pad is being constructed?

**RESPONSE:** The existing power source will provide power while the new is being constructed. Generators will provide power to critical systems during change over to new location and the temp system. See sheets E102, E103, E201, & E202 for additional information.

118. **RFI:** Reference is made Contract Specification SECTION 02396 MARINE FENDERS—PART 2—PRODUCTS—2.3 CHAINS AND SHACKLES A.3 requires: "The lateral restraining chains shall be manufactured in accordance with U.S. Coast Guard Specification Mil-C-22521C, and be open-link Grade 1 with a minimum proof load equal to 100,000 lbs and minimum break test load of 220,000 lbs."

The U.S. Coast Guard Specification Mil-C-22521C allows for the 1" restraining chain to be 54,100 lbs Proof load and a break test load of 122,000 lbs.

Please clarify this discrepancy between the specified load of 100,000 lbs and the U.S. Coast Guard allowable proof load of 54,100.

**RESPONSE:** See modifications to Section 02396 for clarification.

119. **RFI:** Within Contract Drawing S541 – Detail 1 / NOTES: 8 states: "COVER PLATES AT BLOCKOUTS SHALL CONFORM TO ASTM A572 GRADE 50."

While Contract Drawing E304 – Detail 3 includes the statement: "6" x 32" BLOCK OUT IN CONCRETE DECK WITH DEPTH TO INTERCEPT CONDUIT CENTERED IN DECK PROVIDE WITH STAINLESS STEEL NECK RING AND COVER RATED FOR H20 BRIDGE LOADING."

Please reconcile this discrepancy between the use of ASTM A572 Grade 50 and Stainless Steel block outs.

**RESPONSE:** Steel cover plates may be either stainless steel or galvanized carbon steel. Plates must be rated for minimum H20 Bridge Loading.

120. **RFI:** Reference is made Contract Plan Sheets DR02-DR06 and 1973 As-Built Drawing 7242 Sheet 2 details A and B.

The DR sheets depict the existing rip-rap slope as extending behind the wharf landside pile cap. The referenced as-built drawings depict a 12" thick concrete "shore wash protection" pour extending the length of the wharf behind the pile cap. This concrete pour is not reflected in the DR drawings.

Does the owner have a record of this pour being removed at some previous time? Does the owner have a record of the concrete PSI strength used in this pour?

**RESPONSE:** The University does not have a record of this pour being removed. The University does not have a record of the concrete PSI strength used in this pour.