

Addendum #3

Date: May 30, 2024

Item	Description
DIVISION I – BID DOCUMENTS	
1.	SCHEDULE OF PRICES , revised to remove Bid Alternate for owner supplied material and added bid items for both barge and truck delivery of material.
PHASE IV YARD EXPANSION DRAWINGS	
2.	DRAWING C26, Rev C – DRAINAGE STRUCTURE WATER QUALITY UNIT DETAILS , revised to reflect current water quality unit structures.
3.	DRAWING P9, Rev B – PAVEMENT MARKING – PARTIAL PLAN, SHEET 1 OF 2 , revised pavement markings along site perimeter
4.	DRAWING P10, Rev B – PAVEMENT MARKING – PARTIAL PLAN, SHEET 2 OF 2 , revised pavement markings along site perimeter
QUESTIONS	
5.	Due to the approximate 3-year duration of the project, will there be any consideration for price escalation? Answer: No.
6.	On drawing C6, where we are extending the existing Virginia St. 42” RCP through the new combi-wall, is the invert elevation of that single pipe -7.31? Answer: Correct. Refer to drawings S5, S10 and S15 of the Phase IV Dock Mod. And Bulkhead Extension drawings.
7.	Is the condition known on the east end of the existing Virginia St. drainage pipe that we must tie into temporarily and later permanently? Answer: No.
8.	The required water quality units are approximately 20’ deep. Due to ground water and sugar sand conditions at this elevation, would an alternate shallower unit be considered? Answer: It will be considered but an alternative water quality unit must be equal and approved by the engineer.
9.	An auger-cast specification was provided but we have been unable to locate any areas calling for auger-cast piles. Could you please call out the location requiring auger-cast piling? Answer: The foundation for the perimeter light poles (LP-25 thru LP-41) are auger cast piling. Refer to drawing S4 of the Phase IV Yard Expansion drawings.

Item	Description
10.	Is the contractor responsible for the monitoring of the slip fill replacement? If so, what type of report or method of monitoring will be acceptable? Answer: Yes. The contractor shall perform an elevation survey of the slip fill area every three (3) days and submit the survey in a report.
11.	Please confirm the contract time allowed for the surcharge is 24 weeks after the surcharge material has been installed to elevation 25. Answer: Confirmed
12.	Is the stockpile in cut area A contaminated? Answer: APA is moving forward with testing to determine the nature of the material and findings will be published when available.
13.	Will the material in cut area A be tested for Environmental contaminants prior to the bid date? Answer: See answer to No. 9, above.
14.	Who is the generator of the soil material that is required to be wasted at the end of the project? Answer: APA
15.	Will an alternate pavement section that meets or exceeds the current RCC section be considered for value engineering post bid? Answer: No.
16.	Will an alternate pavement section that meets or exceeds the current RCC section be considered for value engineering pre-bid? Answer: No.
17.	Is crushed concrete acceptable fill material in the slip fill area? Answer: No.
18.	Does the existing concrete jetty stay? Or can the jetty be removed permanently? Answer: Obstructions from the jetty will only be removed to facilitate pile installation.
19.	During the preconstruction meeting it was communicated that there will be a 40' area fenced off for access along the south side of the project in the active terminal? Can this be confirmed? This area is in addition to the 40' designated area called out on page G3. Answer: Refer to the Yard Expansion Security Fence Drawings numbered F2 and F3.
20.	Are there any load restrictions on the existing dock? Please clarify. Answer: Please see attached drawing 4111-S1 for dock allowable loading.

Item	Description
21.	<p>At the combi wall tie ins, there is a note on sheet S7 & S8 in each location stating "OWNER PROVIDED NZ19 SHEET PILE". Where are these sheet piles located? Answer: The note is in error. The contractor is to provide the sheet pile.</p>
22.	<p>If needed is there any preclusions to clamshell removal and side casting of material at the dock modification Answer: Please add additional clarification on your question.</p>
23.	<p>Please verify maximum loading on the existing dock and any equipment restrictions for the 40' construction access. Answer: Please see answer to No. 20, above.</p>
24.	<p>Can the 40' construction access corridor at the existing dock be pushed back any further to allow more access for laydown during the dock modification? Answer: No.</p>
25.	<p>Is there a location on site where the removed and reinstalled light poles and handrails can be stored and if so what is that location. Answer: Contractor to determine available area in construction zone.</p>
26.	<p>Can fill be placed on the west and south side of area C prior to or while the bulkhead wall is being constructed? Answer: At contractor option but cannot obstruct access.</p>
27.	<p>Please confirm all material from Area A is to be wasted at the end of the project? Answer: Confirmed.</p>
28.	<p>Please confirm all material from Area B can be left onsite as fill material? Answer: Confirmed. Excess material that cannot be used for fill in Phase IV West can be stockpiled at the Baker Street area for use in Area C.</p>
29.	<p>Please confirm the cut and fill quantities are based on the existing plan sheet G5. Answer: Confirmed.</p>
30.	<p>Appendix B CORPS OF ENGINEERS Permits Requirements state the time limit to complete the project is 8/18/25. Will a permit modification be required by the contractor? Answer: No. APA will handle the permit modifications.</p>
31.	<p>Will you provide ACAD Files for Bidding? Answer: No.</p>

Item	Description
32.	<p>There is conflicting information in the specifications, is the project Taxable? Answer: The project will be exempt from state tax.</p>
33.	<p>Is another site visit able to be arranged? If so, who may we contact for a site visit? Answer: Contact Kyle Strachan of the Alabama Port Authority to schedule a site visit. Kyle.Strachan@alports.com</p>
34.	<p>Would you please provide the cross-sections Existing Grade to Rough Grade & the Fill and Surcharge Sections at Station 10+15 and 10+30. Answer: Attached.</p>
35.	<p>On drawing C5 and C6, you are calling for existing lines to be flow filled. Do we also have the option of removing these lines in lieu of filling them? Answer: Yes.</p>
36.	<p>Clarify please, may Area B Soils be utilized for "Slip Fill"? Answer: Yes. They must be stripped of all organic materials and any debris.</p>
37.	<p>Based on ADD#2 spacing and depth, Bid Item #39 quantity seems insufficient. Answer: The thickness of the compressible soils is not uniform across the site, and it is not known at what depth the mandrel will encounter the underlying sand layers. The quantity in the Schedule of Prices is estimated and just establishes a unit rate for the actual footage installed.</p>
38.	<p>Please define the thickness of the Sand Drainage Blanket. Answer: The drainage blanket is included in the slip fill from existing grade up to EL 15.</p>
39.	<p>Is the thickness of the Sand Drainage Blanket included in the Area C Fill or the Surcharge thickness? Slip fill.</p>
40.	<p>Section 40-09 Builder's Risk or Installation Floater states builders risk insurance is required, with an amount equal to the amount of the Contract. Contractor requests confirmation that is acceptable to have sub-limits for the perils of flood and named windstorm as this is common practice in the insurance market and full limits are not commercially available at a reasonable premium cost. Given the scope of work and location of this project, a commercially reasonable sublimit for named windstorm would be \$30,000,000 annual aggregate and a commercially reasonable sublimit for flood would be \$40,000,000 annual aggregate. Please confirm these sublimits will be acceptable. Answer: Division IV specifications are non-negotiable.</p>

Item	Description
41.	<p>Section 40-09 Builder’s Risk or Installation Floater requires the Owner, Engineer, Contractor and “all Subcontractors” to be designated as the named insureds under the Builder’s Risk policy. Named insureds are allowed to adjust claims with the insurance carrier. As the party responsible for placing the Builder’s Risk policy and the party which has the risk of loss for repairing loss or damage to the Work, all claims should be adjusted with the Contractor. The Owner, Engineer and all Subcontractors should be listed as additional insureds on the builder’s risk policy for protection of their remaining insurable interest rather than as a named insured. Please amend to reflect this.</p> <p style="text-align: center;">Division IV specifications are non-negotiable.</p>
42.	<p>Section 40-03 Commercial General Liability requires Contractor to provide Liability coverage in the amount of \$15M per occurrence, but no aggregate limit is provided. This coverage is written per occurrence and aggregate. Please amend to: “in an amount not less than \$15,000,000 for any one per occurrence and aggregate”.</p> <p style="text-align: center;">Answer: Division IV specifications are non-negotiable.</p>
43.	<p>Section 40-07 Ocean Marine Coverage requires Contractor to provide Liability coverage in the amount of \$2M per occurrence, but no aggregate limit is provided. This coverage is written per occurrence and aggregate. Please amend to: “in an amount not less than \$2,000,000 for each loss per occurrence and aggregate.”</p> <p style="text-align: center;">Answer: Division IV specifications are non-negotiable.</p>
44.	<p>To further expand on a previous question asked. Can fill be placed in the water in slip area C along the south and west side of the slip. We would like to fill in where the pile remain within the footprint of the old dock before the bulkhead combi wall is complete.</p> <p style="text-align: center;">Answer: Fill cannot be placed in the slip until the sheet pile bulkhead is complete. This is a requirement of the permit.</p>
45.	<p>Please confirm liquidated damages under Special Provision 03 and General Provision 20-13 will only be assessed if Contractor fails to achieve Project completion timely (i.e., 1,310* calendar days from receipt of Notice to Proceed, as may be extended as provided for in the Contract Documents). (*addendum 2: 1330 calendar days) In other words, liquidated damages will not be assessed if Contractor misses interim milestones (e.g., completion of the upland yard area and release for use – 365 calendar days, etc.).</p> <p style="text-align: center;">Answer: Liquidated damages will be assessed for missing any of the milestones.</p>

Item	Description
46.	<p>If there is a change in law after the contract is awarded and the change in law impacts Contractor’s cost of performance and/or time of performance, please clarify whether Contractor is or is not able to seek cost and/or schedule relief under General Provision Section 50-04 (Extra Work), General Provision 90-07 (Determination and Extension of Contract Time), and/or another contractual provision.</p> <p>Answer: Division IV specifications are non-negotiable.</p>
47.	<p>Please confirm APTIM Port Services, LLC’s Subsurface Investigation and Geotechnical Engineering Report – Proposed APM Terminal (Phase IV), dated June 21, 2022, is a Contract Document, since it was issued as part of Addendum 1.</p> <p>Answer: Confirmed.</p>
48.	<p>If there is a condition that materially differs from what is provided in the Contract Documents and the condition impacts Contractor’s cost of performance and/or time of performance, please clarify whether Contractor is or is not able to seek cost and/or schedule relief under General Provision Section 50-04 (Extra Work), General Provision 50-06 (Removal of Existing Structures), General Provision 90-07 (Determination and Extension of Contract Time), and/or another contractual provision.</p> <p>Answer: The contractor will be entitled to contract cost and time relief if hazardous materials are identified that cause substantial negative impact to the cost & schedule of the project.</p>
49.	<p>If Contractor encounters an unknown pre-existing hazardous material and such hazardous material impacts Contractor’s cost of performance and/or time of performance, please clarify whether Contractor is or is not able to seek cost and/or schedule relief under General Provision Section 50-04 (Extra Work), General Provision 90-06 (Determination and Extension of Contract Time), and/or another contractual provision.</p> <p>Answer: Division IV specifications are non-negotiable.</p>
50.	<p>Apart from Permit Number SAM-2017-00189-JEB issued by the U.S. Army Corps of Engineers, please identify: (i) any other permits the Alabama State Port Authority has obtained; and (ii) any other permits the Alabama State Port Authority intends to obtain. And, if there are any other permits the Alabama State Port Authority intends to obtain, please provide the anticipated date such permit or permits will be obtained.</p> <p>Answer: APA will handle all permits.</p>



Item	Description
51.	<p>If an unknown or unidentified utility is discovered and this unknown or unidentified utility impacts Contractor’s cost of performance and/or time of performance, please clarify whether Contractor is or is not able to seek cost and/or schedule relief under General Provision Section 50-04 (Extra Work), General Provision 50-06 (Removal of Existing Structures), General Provision 90-07 (Determination and Extension of Contract Time), and/or another contractual provision.</p> <p>Answer: The contractor will be entitled to contract cost and time relief if unknown utilities are identified that cause substantial negative impact to the cost & schedule of the project.</p>
52.	<p>Will the APA withhold retainage on progress payments, and if so, what percentage will be withheld?</p> <p>Answer: Retainage will be 10% until 50% of project completion.</p>
53.	<p>Can you please provide the as-builts on the racker piles N4 and N5 from the existing combi wall? At what batter were these driven?</p> <p>Answer: Please clarify the drawing you are referring to. The batters are 5:12</p>
54.	<p>For the 54" Steel King Pile, is Spiral Weld Acceptable?</p> <p>Answer: Yes</p>
55.	<p>What is the required frequency of the proof roll? Each lift, existing ground only, prior to soil cement etc.</p> <p>Answer: The proof roll is only required on existing ground and prior to placing soil cement. All lifts of fill must meet the compaction requirements.</p>
56.	<p>On plan sheet P10, is the hatched container striping pattern (diagonal pattern) meant to represent the 4" White D.O.T Paint referenced on detail 6 on P11?</p> <p>Answer: See attached drawings P9 and P10.</p>
57.	<p>Article 40-03 Comm. General Liability. Please confirm the required coverage amount of \$15M can be provided by a combination of primary and excess/ umbrella coverages.</p> <p>Answer: Confirmed</p>
58.	<p>Will the Port reimburse cost associated with delays that are out of the contractor’s control while delivering material to the site? Such as APM container trucks blocking access to off ramps, Baker Street, Yeend Street crossover, or trains blocking access to the site during slip fill operations.</p> <p>No. The contractor will assume all risk of delivery of materials to the site.</p>
59.	<p>Will a waiver of consequential damages be provided in the contract documents?</p> <p>Answer: Please provide more clarification to this question.</p>

Item	Description
60.	<p>If the contractor misses any milestones or fails to complete the project within the allowable time do the liquidated damages capture all of the contractor's exposure? Answer: Yes</p>
61.	<p>Please advise which of the following specifications takes precedence.</p> <ul style="list-style-type: none"> • Project backfill specs: 7.1.2 - calls for the sand fill to be less than 90 percent passing the No. 40 sieve and less than 10 percent passing the No. 200 sieve, by weight. • APTIM geotechnical report:7.2 Initial Slip Fill Initial fill should be placed within the entire area of the slip. Fill material should be a granular material, free of organics, debris, or deleterious material with less than 10% passing the No. 200 sieve. <p>Answer: The requirement as listed in the geotechnical report is sufficient. It is not required to have less than 90% passing the No. 40 Sieve.</p>
62.	<p>Shutdown of power will be required for existing substations. Will this be done by the port? Answer: Contractor will coordinate with APM Terminals.</p>
63.	<p>Can a site visit be scheduled for 5/29/24 to look at existing substations and lighting controls in administration area? Answer: Contact Kyle Strachan of the Alabama Port Authority to schedule a site visit. Kyle.Strachan@alports.com</p>
64.	<p>If the contractor encounters conditions materially different from the contract documents (for example Hazardous Material) will the contractor be entitled to cost and time relief? Answer: The contractor will be entitled to contract cost and time relief if hazardous materials are identified that cause substantial negative impact to the cost & schedule of the project.</p>
65.	<p>If the contractor encounters unidentified utilities not in the contractors documents will the contractor be entitled to cost and time relief? Answer: The contractor will be entitled to contract cost and time relief if unknown utilities are identified that cause substantial negative impact to the cost & schedule of the project.</p>
66.	<p>Are the Junction Boxes allowed to be Precast Structures? Answer: Yes</p>
67.	<p>Alternate Bid Item For Owner Supplied Slip Fill Received In Barges And Offloaded By Contractor Into Slip:</p> <ul style="list-style-type: none"> - Where will the barges be offloaded? - How will the barges be secured? - What volume of materials will be delivered by each barge? - How long does the contractor have to unload each barge? - How many barges will be supplied each day to unload? <p>Answer: The Alternate Bid Item for Owner Supplied Fill has been deleted and is no longer applicable</p>



PORT OF MOBILE
ALABAMA PORT AUTHORITY

**Alabama State Port Authority
APMT Phase IV Yard Expansion
ASPA Project 11261**



APTIM

Item	Description
68.	Is the West Access Ramp to be removed after completion of Ph II (IV) East? Answer: The ramp is scheduled to remain in place.



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SPECIFICATIONS AND CONTRACT DOCUMENTS



PORT OF MOBILE
ALABAMA PORT AUTHORITY

John C. Driscoll, Director & CEO

Kay Ivey, Governor of Alabama

ISSUED BY

Engineering Services Department



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INVITATION TO BID

Sealed bid proposals will be received via courier to the Alabama Port Authority, 1400 Alabama State Docks Blvd, Room 216, Administration Building, Mobile, Alabama 36602 by 1:30 P.M., on June 12, 2024. Sealed bid proposals can also be hand delivered from 1:45 P.M. to 2:00 P.M., on June 12, 2024 to the Alabama Port Authority in the International Trade Center building, 250 North Water Street, 1st Floor – Killian Room, Mobile, Alabama. Faxed or electronic submitted bids will not be accepted. The right is reserved, as the interest of the Alabama Port Authority may require, to reject all bids through a Notice of Non-award or otherwise, and to waive informalities in bids received.

PROJECT 11261 APMT PHASE IV YARD EXPANSION MOBILE, ALABAMA

The work consists principally of providing bonds, labor, materials, equipment, and supervision necessary for the construction of a new container handling storage yard inclusive of all required removal work, installation of batter piles and a sheet pile bulkhead across a marine slip, fill work of the slip and upland area, surcharge with prefabricated vertical drains, installation of rigid inclusion piles with an associated load transfer platform, soil improvements, precast-prestressed concrete pile and auger cast pile installation, drainage, grading, soil cement stabilized base and RCC paving work, installation of a modular concrete retaining wall, utilities, communication, electrical distribution, lighting and fencing requirements as indicated on the Contract Drawings and Specifications.

Specifications, proposal forms, bid and performance bond forms, and plans are available on the Alabama Port Authority website at www.alports.com. For additional project contractual information, please contact the APA Project Manager, Kyle Strachan at (251) 441-7205 (Email to kyle.strachan@alports.com). For technical information, please contact the APTIM Project Manager, Mike Dye at (251) 344-1913 (email at mike.dye@aptim.com).

A Pre-Bid Meeting is scheduled for May 7, 2024 at 2:00 P.M. in the Killian Room with a site visit to follow. **Bidder attendance is MANDATORY.**

Each bidder shall satisfy oneself as to the character, quality, and quantities of work to be performed, and as to the requirements of the proposed contract. The submission of a proposal shall be proof that the bidding Contractor has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the proposed Contract. All bidding Contractors must hold a current license from the State Licensing Board for General Contractors, Montgomery, Alabama with the classification of (H/RR) Heavy/Railroad.



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A Guarantee will be required with each bid as follows: At least five (5%) percent of the amount bid, but in no event more than Ten Thousand (\$10,000) Dollars, shall be furnished in the form of a certified check or bid bond payable to the Alabama Port Authority.

A Performance Bond in an amount not less than the sum bid will be required at the signing of the contract and, in addition, a bond in an amount not less than One Hundred (100%) percent of the contract price, insuring payment of all labor and material.

No bid will be considered unless the bidder, whether resident or non-resident of Alabama, is properly qualified to submit a proposal for this work in accordance with all applicable laws of the State of Alabama. This shall include evidence of holding a current license as required from the State Licensing Board for General Contractors, Montgomery, Alabama. Also, non-residents of the State must show evidence of having qualified with the Secretary of State to do business in Alabama.

Bids will be publicly opened at 2:00 P.M., June 12, 2024, in the International Trade Center Building, 250 North Water Street, first floor – Killian Room, Mobile, AL. The right is reserved, as the interest of the Alabama Port Authority may require, to reject any and all bids and to waive informalities in bids received.



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INSTRUCTIONS TO BIDDERS

1.0 ADDENDA AND INTERPRETATIONS

All questions about the meaning or intent of the Contract Documents shall be submitted to the Engineer in writing on or before June 3, 2024. Replies will be issued by Addenda mailed or delivered to all parties recorded as having received the bidding documents. All addenda so issued shall become part of the Contract Documents. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

2.0 PREQUALIFICATION OF BIDDERS

No proposal will be considered from any Contractor unless he is licensed to do work in the State of Alabama and has complied with the requirements of Paragraph SP-04 of the DIVISION III Special Provisions.

3.0 SUBMISSION OF PROPOSALS

Before submitting his proposal, the Contractor shall comply with the following:

- a) The Proposals shall be filled in ink on the form provided herein and all blank spaces in the form shall be fully filled. The signature shall be in long hand and the complete form shall be without interlineations, alteration or erasure.
- b) If the Bidder is a corporation organized in a state other than Alabama, attach to the Proposal a certificate from the Secretary of State showing that the Corporation is qualified to transact business in Alabama
- c) Attach a certified check or Bid Bond in the amount of 5% of the Proposal, but not more than \$10,000 made payable to the Alabama Port Authority
- d) Non-resident (out of state) Contractors shall attach all items included by SP-6
- e) Attach a copy of the State Contractor's License to Proposal
- f) Certificate of Compliance (pages 7-8 of this document)

One copy of Items (a) through (f) shall be placed in a sealed envelope with the bidder's name, Contractor's License number, the project, and the time and date of bid opening shown on the outside.



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PROPOSAL

Proposal of:

Address:

Date:

To: STATE OF ALABAMA, Alabama Port Authority, Mobile, Alabama

Gentlemen:

The undersigned, as Bidder, hereby declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the plans and specifications for the work and contractual documents relative thereto, and has read all Special Provisions and Specifications furnished; and that he has satisfied himself relative to all aspects of the work to be performed and especially to those factors affecting cost, progress, or performance.

The Bidder proposes and agrees, if this bid is accepted, to contract with the Owner in the form of contract specified, to furnish all necessary materials, equipment, tools, apparatus, means of transportation, labor and incidentals to perform in a satisfactory manner, the work described in the Contract Specifications and Drawings for the Alabama Port Authority, for the prices listed below to complete:

PROJECT 11261
APMT PHASE IV YARD EXPANSION
MOBILE, ALABAMA

In full and complete accordance with the shown, noted, described and reasonable intended requirements of the plans, specifications and contract documents to the full and entire satisfaction of the Owner with a definite understanding that no money will be allowed for extra work except as set forth in the attached contract documents.

It is agreed that the description under each item, being briefly stated, implies, although it does not mention, all incidentals and that the prices stated are intended to cover all such work materials and incidentals as constitute Bidder’s obligation as described in the specifications and any details not specifically mentioned, but evidently included in the contract shall be compensated for the item which most logically includes it.

Bidder agrees that he will commence the work within the time allotted by the Contract Documents with an adequate force, plant, and equipment and that the work will be completed within time schedules outlined in Special Provisions Article SP-3.



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Bidder accepts the provisions of the Contract Documents as to liquidated damages in the event of failure to complete the work on time.

The Bidder further agrees that, in case of failure on his part to execute the Contract and required bonds within ten (10) calendar days from the date written notice of award if mailed or otherwise delivered to the Bidder, the certified check or bid bond accompanying this bid and the monies payable thereon shall be paid into the funds of the Owner not as penalty, but as a liquidation of a reasonable portion of the damages incurred by the Owner due to the Bidder’s failure to execute the Contract. . **Items not specifically noted in the schedule of prices shall be considered ancillary to the project and be absorbed in the bid items.**

SCHEDULE OF PRICES

DESCRIPTION		ESTIMATED QTY	UNIT OF MEASURE	UNIT PRICE, \$	VALUE, \$
1	Project Bonds and Insurance	Lump Sum	L.S.		
I. YARD & SLIP FILL					
I.1 Phase IV West					
2	Mobilization	Lump Sum	L.S.		
3	Appropriate BMP and Environmental Actions	Lump Sum	L.S.		
4	Demolition and Removal of Existing Structures	Lump Sum	L.S.		
5	Relocation of Water Treatment Plant	Lump Sum	L.S.		
6	Clear and Grub	Lump Sum	L.S.		
7	Proof Rolling	Lump Sum	L.S.		
8	Cut Area <u> A </u>	144,772	C.Y.	/C.Y.	
8A	Cut Area <u> B </u>	132,816	C.Y.	/C.Y.	
9	Yard Fill Area <u>A and B</u> (Existing Material)	53,938	C.Y.	/C.Y.	
10	West Construction Access Ramp	Lump Sum	L.S.		
11	East Construction Access Ramp	Lump Sum	L.S.		
12	Protected Slope on East Side of Phase I	Lump Sum	L.S.		
13	Soil Cement Base	77,168	S.Y.	/S.Y.	
14	Mobilization for RCC Paving	Lump Sum	L.S.		



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15	RCC Paving	78,297	S.Y.	/S.Y.	
16	Flex 650 Paving	2,223	S.Y.	/S.Y.	
17	Temporary Drainage	Lump Sum	L.S.		
18	Permanent Drainage	Lump Sum	L.S.		
19	Trench Drains (inclusive of water quality units)	Lump Sum	L.S.		
20	MESA Retaining Wall	18,446	S.F.	/S.F.	
21	Firewater Piping	Lump Sum	L.S.		
22	Domestic Water Piping	Lump Sum	L.S.		
23	Electrical	Lump Sum	L.S.		
24	High Mast Light Poles and Fixtures	4	Unit	/Unit	
25	High Mast Light Pole Foundations	4	Unit	/Unit	
26	Perimeter Light Poles and Fixtures	10	Unit	/Unit	
27	Perimeter Light Pole Foundations	10	Unit	/Unit	
28	Bollards	88	Unit	/Unit	
29	Fencing & Swing Gates	Lump Sum	L.S.		
30	Striping and Pavement Markings	Lump Sum	L.S.		
31	Row Signs (Concrete Block and sign at the end of container row)	15	Unit	/Unit	
Subtotal Phase I					
I.2. Phase IV East					
32	Appropriate BMP and Environmental Actions	Lump Sum	L.S.		
33	Clear and Grub	Lump Sum	L.S.		
34	Proof Rolling	Lump Sum	L.S.		
35	Fill Area __C__ (Barge delivery)	623,761	C.Y.	/C.Y.	
35A	Fill Area __C__ (Truck Delivery) Alt.	623,761	C.Y.	/C.Y.	
36	Surcharge	164,893	C.Y.	/C.Y.	
37	Cut and Removal Area __C__	177,424	C.Y.	/C.Y.	
38	Fill Area __C__ to bottom of soil cement	43,834	C.Y.	/C.Y.	
39	Wick Drains	2,000,000	L.F.		



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Project Name APMT Phase IV Yard Expansion

Location Mobile, Alabama

Project # 11261

Task # 1

April 2024

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DESCRIPTION		ESTIMATED QTY	UNIT OF MEASURE	UNIT PRICE, \$	VALUE, \$
40	Rigid Inclusions	Lump Sum	L.S.		
41	Load Transfer Platform	Lump Sum	L.S.		
42	Soil Cement	69,130	S.Y.	/S.Y.	
43	Mobilization for RCC Paving	Lump Sum	L.S.		
44	RCC Paving	69,857	S.Y.	/S.Y.	
45	Flex 650 Paving	1,157	S.Y.	/S.Y.	
46	Drainage	Lump Sum	L.S.		
47	Trench Drains (inclusive of water quality units)	Lump Sum	L.S.		
48	MESA Retaining Wall	5,440	S.F.	/S.F.	
49	Firewater Piping	Lump Sum	L.S.		
50	Electrical	Lump Sum	L.S.		
51	High Mast Light Poles and Fixtures	5	Unit	/Unit	
52	High Mast Light Pole Foundations	5	Unit	/Unit	
53	Perimeter Light Poles and Fixtures	6	Unit	/Unit	
54	Perimeter Light Pole Foundations	6	Unit	/Unit	
55	Bollards	84	Unit	/Unit	
56	Fencing	Lump Sum	L.S.		
57	Striping and Pavement Markings	Lump Sum	L.S.		
58	Row Signs (Concrete Block and sign at the end of container row)	13	Sign	/Sign	
59	Demobilization	Lump Sum	L.S.		
Subtotal Phase II					
II BULKHEAD					
60	Mobilization	Lump Sum	L.S.		
61	Demolition and Removal of Existing Structures	Lump Sum	L.S.		
62	Supply and Installation of PNZ54/NZ19 Combination Wall	Lump Sum	L.S.		
63	Concrete Bearing Piling (24" Square Piles)	4,250	L.F.	/L.F.	



Alabama Port Authority
Specification Booklet

Revised with Addendum No. 3

Project Name APMT Phase IV Yard Expansion

Location Mobile, Alabama

Project # 11261

Task # 1

April 2024

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DESCRIPTION	ESTIMATED QTY	UNIT OF MEASURE	UNIT PRICE, \$	VALUE, \$
64 Concrete Batter Piling (24" Square Piles 4:12 batter)	840	L.F.	/L.F.	
65 Concrete Batter Piling (24" Square Piles 6:12 batter)	5,715	L.F.	/L.F.	
66 Concrete Work (Dock Addition)	Lump Sum	L.S.		
67 Concrete Work (Bulkhead Cap)	Lump Sum	L.S.		
68 Remove and Reinstall Light Poles	Lump Sum	L.S.		
69 Storm Drain Line Penetrations for Outfall No. 1	Lump Sum	L.S.		
70 Storm Drain Line Penetrations for Outfall No. 2	Lump Sum	L.S.		
71 Demobilization	Lump Sum	L.S.		
Subtotal - Bulkhead				
72 All remaining items necessary for a complete job installation	Lump Sum	L.S.		
*TOTAL PROJECT BASE BID (Barge Delivery)				
*TOTAL PROJECT ALTERNATE BID (Truck Delivery)				

*The owner has the right to select either the lowest base bid or the lowest alternate bid.

- Quantities listed in the Schedule of Prices are approximate quantities intended to give the Contractor an order of magnitude of the work involved. The Contractor shall be responsible for determining the actual quantities required and accounting for them in the Bid Prices and notifying the Engineer of any discrepancies.

Unit Prices for Additional Items if Required:

- | | | |
|--|-----------------|--------------|
| | Without Driving | With Driving |
| A) 24" Concrete Pile Buildups | \$_____/Ft. | \$_____/Ft. |
| B) Clamshell, if required, at north end of bulkhead for rip/rap – debris removal | Daily Rate | \$_____/Day. |

Dollars

(In Words)



Alabama Port Authority
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Revised with Addendum No. 3

Project Name APMT Phase IV Yard Expansion

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I, the undersigned bidder, hereby acknowledge receipt of the following addenda:

ADDENDUM NO. _____

ADDENDUM NO. _____

ADDENDUM NO. _____

Contractor's Signature:

Contractor

Company _____

Name

Title

Date



Project Name APMT Phase IV Yard Expansion

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BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, undersigned, _____

_____ as Principal, and _____

as Surety, are hereby held and bound unto The Alabama Port Authority as **OWNER** in the Penal sum of _____ for the payment of which will and truly be made, we hereby jointly and severally bind ourselves, successors and assigns. Signed, the _____ day of _____, 20__.

The Condition of the above obligation is such that whereas the Principal has submitted to the Alabama Port Authority a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for the Phase IV Yard Expansion, Project 11261 Task #1.

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the form of Contract attached hereto (Properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the panel amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its **BOND** shall in no way be impaired or affected by any extension of time within which the **OWNER** may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal	
Surety	
By	



Project Name APMT Phase IV Yard Expansion

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State of _____

County of _____

CERTIFICATE OF COMPLIANCE WITH THE BEASON-HAMMON ALABAMA TAXPAYER AND CITIZEN PROTECTION ACT (ACT 2011-535, as amended by Act 2012-491)

DATE: _____

RE Contract/Grant/Incentive (describe by number or subject):

_____ by and between

_____ (Contractor/Grantee) and

_____ (State Agency, Department or Public Entity)

The undersigned hereby certifies to the State of Alabama as follows:

1. The undersigned holds the position of _____ with the Contractor/Grantee named above, and is authorized to provide representations set out in this Certificate as the official and binding act of that entity, and has knowledge of the provisions of THE BEASON-HAMMON ALABAMA TAXPAYER AND CITIZEN PROTECTION ACT (ACT 2011-535 of the Alabama Legislature, as amended by Act 2012-491) which is described herein as "the Act".
2. Using the following definitions from Section 3 of the Act, select and initial either (a) or (b), below, to describe the Contractor/Grantee's business structure.

BUSINESS ENTITY. Any person or group of persons employing one or more persons performing or engaging in any activity, enterprise, profession, or occupation for gain, benefit, advantage, or livelihood, whether for profit or not for profit. "Business entity" shall include, but not be limited to the following:

- a. Self-employed individuals, business entities filing articles of incorporation, partnerships, limited partnerships, limited liability companies, foreign corporations, foreign limited partnerships, foreign limited liability companies authorized to transact business in this state, business trusts, and any business entity that registers with the Secretary of State.



Alabama Port Authority
Specification Booklet

Revised with Addendum No. 3

Project Name APMT Phase IV Yard Expansion

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b. Any business entity that possesses a business license, permit, certificate, approval, registration, charter, or similar form of authorization issued by the state, any business entity that is exempt by law from obtaining such a business license and any business entity that is operating unlawfully without a business license.

EMPLOYER. Any person, firm, corporation, partnership, joint stock association, agent, manager, representative, foreman, or other person having control or custody of any employment, place of employment, or of any employee, including any person or entity employing any person for hire within the State of Alabama, including a public employer. This term shall not include the occupant of a household contracting with another person to perform casual domestic labor within the household.

a. The Contractor/Grantee is a business entity or employer as those terms are defined in Section 3 of the Act.

b. The Contractor/Grantee is not a business entity or employer as those terms are defined in Section 3 of the Act.

3. As of the date of this Certificate, Contractor/Grantee does not knowingly employ an unauthorized alien within the State of Alabama and hereafter it will not knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama.

4. Contractor/Grantee is enrolled in E-Verify unless it is not eligible to enroll because of the rules of that program or other factors beyond its control.

Certified this ____ day of _____ 20____

Name of Contractor/Grantee/Recipient

By: _____

Its _____



Alabama Port Authority
Specification Booklet

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Project Name APMT Phase IV Yard Expansion

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The above Certification was signed in my presence by the person whose name appears above,
on this _____ day of _____ 20_____

WITNESS:

Signature

Printed Name of Witness



Alabama Port Authority
Specification Booklet

Revised with Addendum No. 3

Project Name APMT Phase IV Yard Expansion

Location Mobile, Alabama

Project # 11261

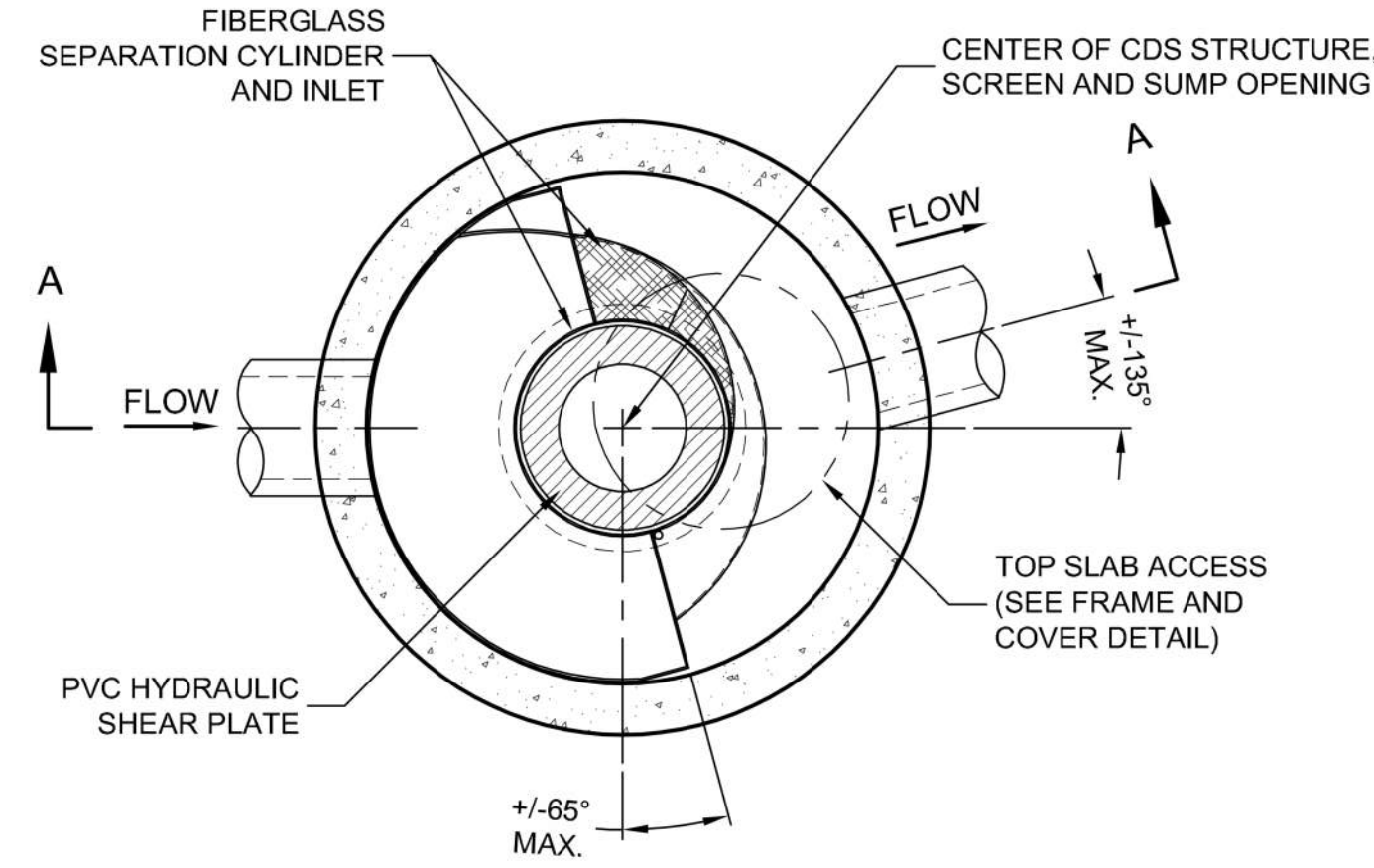
Task # 1

April 2024

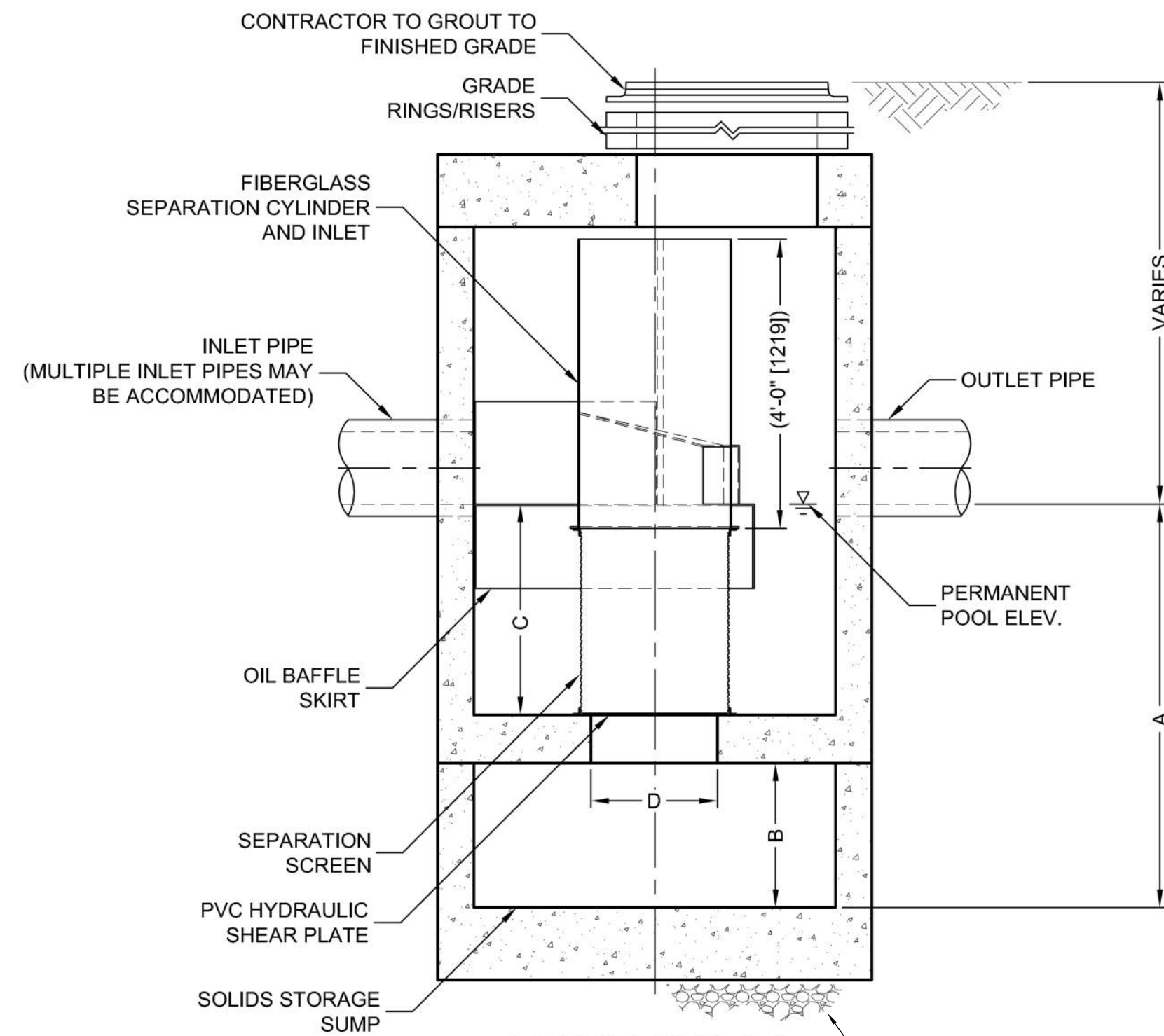
I-14 | Page

INSERT HUD GRANT FORMS

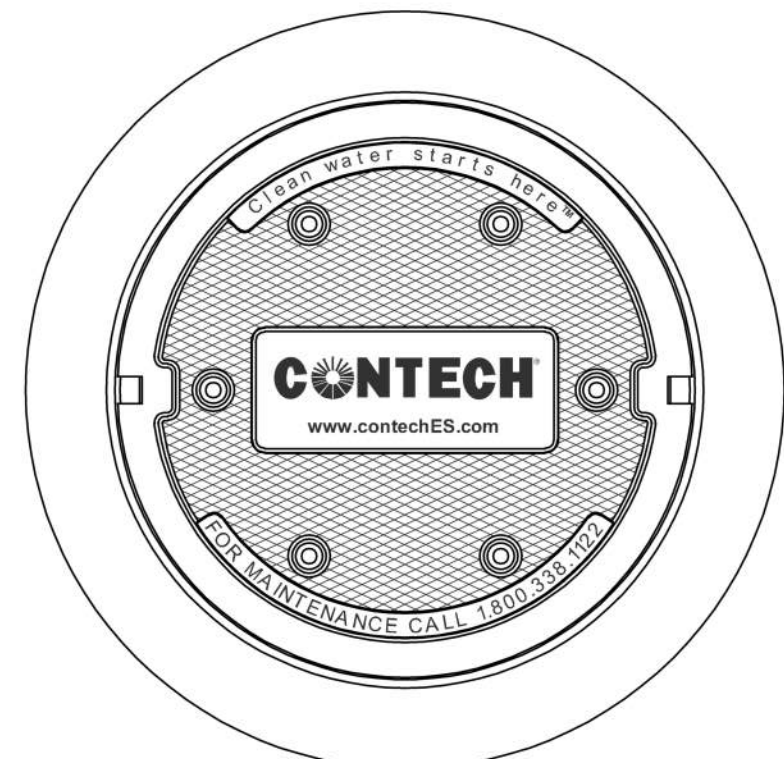
C:\USERS\JOSEPH.HENDERSON\APPDATA\LOCALMICROSOFT\WINDOWS\NETCACHE\CONTENT\OUTLOOK\309\JHMK714065-CDS MULTI MODEL DETAIL DWG 5/29/2024 1:21 PM



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

CDS GENERAL INFORMATION

WQU NUMBER	MODEL	MAX TREATMENT FLOWRATE (CFS)	MANHOLE DIAMETER (ID)	DISTANCE FROM OUTLET INVERT TO INSIDE BOTTOM (A)	TYPICAL SUMP DEPTH (B)	DISTANCE FROM SEPARATION SLAB TO TOP OF OIL BAFFLE SKIRT (C)	TYPICAL SEPARATION SLAB OPENING (D)
7	CDS2025-5	1.6	5	5'-7"	2'-0"	2'-11"	1'-9"
1,2,4 & 8	CDS3025-6	2.4	6	5'-9"	2'-0"	3'-1"	1'-9"
3 & 5	CDS3030-6	3	6	6'-2½"	2'-0"	3'-6½"	1'-9"
6	CDS4040-8	6	8	8'-3"	3'-0"	4'-7"	2'-4"

SPECIAL NOTES:

- STRUCTURE SHALL MEET ACI-318 SPECIFICATIONS FOR DESIGN LOADS LISTED ON DRAWING G3 AND CASTINGS SHALL MEET ASTM A536 WITH AIRPORT EXTRA HEAVY DUTY LOAD RATING. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DESIGN DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA FOR REVIEW PRIOR TO FABRICATION.
- BEDDING UNDER UNITS SHALL CONSIST OF 18" THICK COMPACTED (95% MODIFIED PROCTOR) #57 CRUSHED STONE. CRUSHED AGGREGATE SHALL EXTEND MIN. 6" OUTSIDE OF MANHOLE WALL.
- AFTER PREPARING THE SUBGRADE, A LAYER OF MIRIFI 160N, OR EQUIVALENT SHOULD BE PLACED AT BOTTOM OF TRENCH BELOW WATER QUALITY UNIT PRIOR TO PLACING THE STONE. THE FABRIC SHOULD BE PLACED AT THE BOTTOM OF TRENCH SUCH THAT IT SEPARATES THE STONE FROM THE SOIL AT ALL SIDES OF TRENCH EXCAVATION. FIELD NOTE: MINIMUM FABRIC OVERLAP AT TOP SIDE OF STONE BED = 1'-0".



GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

INLINE CDS
STANDARD DETAIL

— BEDDING & NON-WOVEN
GEOTEXTILE FABRIC
SEE SPECIAL NOTE 2 & 3



ASPA PROJECT NO: 11261 – TASK 1 ASPA DWG NO:

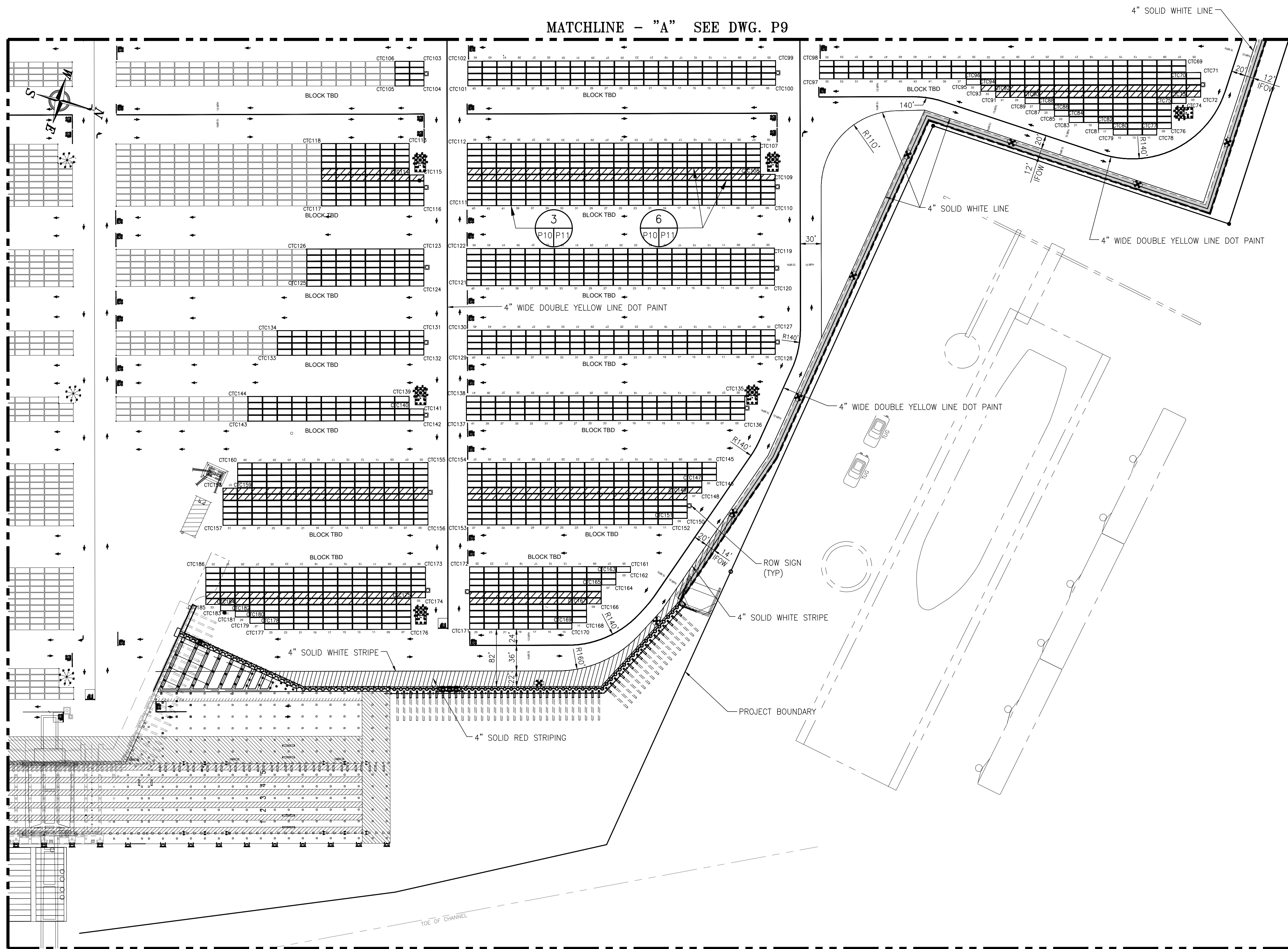
NOTES	REVISION	DATE	DRAWN	CK'D	APPD	DATE
1. SEE DRAWING G3 FOR PROJECT GENERAL NOTES.						
	C	REVISED FOR BID – GENERAL REVISION FOR WATER QUALITY UNITS	JLH	MED	RSG	05/29/24
	B	REVISED FOR BID	RST	MED	RSG	05/10/24
	A	ISSUED FOR BID	RST	MED	RSG	04/05/24
	NO.	REVISION	DRAWN	CK'D	APPD	DATE



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APMT PHASE IV YARD EXPANSION	
DRAINAGE STRUCTURE	
WATER QUALITY UNIT DETAILS	
FOR: ALABAMA PORT AUTHORITY	
PROJECT NO: 4484	DWG NO: C26
DATE: 04/04/22	SCALE: NONE
REV: C	

MATCHLINE - "A" SEE DWG. P9

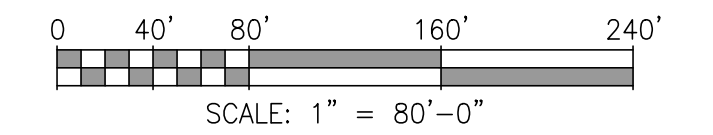


NOTES

- SEE DWG. 4484-G2 FOR THE PROJECT DRAWING INDEX.
- FOR PAVING DETAILS SEE DWG. P11.
- FOR HATCHED AREAS SEE DETAIL 6 ON DWG. P11.

NODE ID	NORTHING	EASTING
CTC69	245158.02	1799033.54
CTC70	245163.02	1799050.83
CTC71	245183.19	1799045.00
CTC72	245192.90	1799078.61
CTC73	245172.73	1799084.45
CTC74	245175.23	1799093.09
CTC75	245155.06	1799098.92
CTC76	245165.06	1799133.49
CTC77	245144.89	1799139.33
CTC78	245147.39	1799147.97
CTC79	245087.85	1799165.18
CTC80	245085.35	1799156.54
CTC81	245065.18	1799162.37
CTC82	245062.68	1799153.73
CTC83	245022.34	1799165.39
CTC84	245019.84	1799156.74
CTC85	244999.67	1799162.57
CTC86	244997.18	1799153.93
CTC87	244977.01	1799159.76
CTC88	244974.51	1799151.12
CTC89	244954.34	1799156.95
CTC90	244951.84	1799148.30
CTC91	244911.50	1799159.96
CTC92	244909.00	1799151.32
CTC93	244888.83	1799157.15
CTC94	244886.34	1799148.51
CTC95	244866.16	1799154.34
CTC96	244863.67	1799145.70
CTC97	244661.99	1799204.03
CTC98	244654.77	1799179.06
CTC99	244594.32	1799196.51
CTC100	244604.03	1799230.12
CTC101	244181.45	1799352.31
CTC102	244171.74	1799318.70
CTC103	244111.32	1799336.24
CTC104	244121.03	1799369.86
CTC105	244081.66	1799381.24
CTC106	244071.94	1799347.63
CTC107	244605.86	1799315.46
CTC108	244618.35	1799358.68
CTC109	244638.52	1799352.85
CTC110	244650.74	1799395.11
CTC111	244228.16	1799517.32
CTC112	244203.46	1799431.84
CTC113	244123.43	1799454.95
CTC114	244135.92	1799498.17
CTC115	244156.09	1799492.34
CTC116	244168.31	1799534.60
CTC117	244028.09	1799575.14
CTC118	244003.38	1799489.66
CTC119	244666.73	1799454.55
CTC120	244681.44	1799505.46
CTC121	244258.85	1799627.60
CTC122	244244.14	1799576.70
CTC123	244185.22	1799594.05
CTC124	244199.93	1799644.96
CTC125	244039.54	1799691.33
CTC126	244024.83	1799640.42
CTC127	244699.98	1799566.60
CTC128	244709.70	1799600.12
CTC129	244287.09	1799722.18
CTC130	244277.37	1799688.57

NODE ID	NORTHING	EASTING
CTC131	244217.40	1799706.19
CTC132	244227.12	1799739.81
CTC133	244026.38	1799797.78
CTC134	244016.66	1799764.16
CTC135	244684.26	1799669.11
CTC136	244693.98	1799702.72
CTC137	244311.70	1799813.14
CTC138	244301.99	1799779.52
CTC139	244223.18	1799802.53
CTC140	244228.18	1799819.81
CTC141	244248.34	1799813.97
CTC142	244253.06	1799830.30
CTC143	244011.98	1799899.95
CTC144	244002.27	1799886.33
CTC145	244671.61	1799771.79
CTC146	244678.83	1799796.76
CTC147	244658.66	1799802.58
CTC148	244663.66	1799819.87
CTC149	244643.49	1799825.71
CTC150	244653.48	1799860.30
CTC151	244633.31	1799866.12
CTC152	244635.81	1799874.76
CTC153	244354.38	1799956.02
CTC154	244329.68	1799870.54
CTC155	244275.27	1799886.25
CTC156	244299.95	1799971.75
CTC157	244018.53	1800053.05
CTC158	244003.83	1800002.13
CTC159	244024.00	1799996.32
CTC160	244014.02	1799961.74
CTC161	244594.73	1799949.20
CTC162	244596.95	1799956.88
CTC163	244576.78	1799962.70
CTC164	244581.78	1799979.99
CTC165	244561.60	1799985.81
CTC166	244869.11	1800011.73
CTC167	244548.94	1800018.58
CTC168	244556.45	1800043.51
CTC169	244536.28	1800049.33
CTC170	244538.97	1800057.97
CTC171	244398.55	1800098.48
CTC172	244373.82	1800013.00
CTC173	244313.08	1800030.59
CTC174	244325.30	1800072.84
CTC175	244305.14	1800078.69
CTC176	244317.64	1800121.90
CTC177	244116.94	1800179.92
CTC178	244114.41	1800171.27
CTC179	244094.24	1800177.10
CTC180	244091.74	1800168.45
CTC181	244071.57	1800174.27
CTC182	244069.06	1800165.63
CTC183	244048.89	1800171.47
CTC184	244046.39	1800162.82
CTC185	244026.22	1800168.65
CTC186	244011.50	1800117.75
CTC187	X	X
CTC188	X	X
CTC189	X	X
CTC190	X	X
CTC191	X	X
CTC192	X	X
CTC193	X	X
CTC194	X	X



ASPA PROJECT NO: 11261 - TASK 1 ASPA DWG NO:

APMT PHASE IV YARD EXPANSION
PAVEMENT MARKING
PARTIAL PLAN - (SHEET 2 OF 2)

FOR: ALABAMA PORT AUTHORITY

PROJECT NO: 4484 DWG NO: P10 REV: B



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NO.	REVISION	DRAWN	CK'D	APPD	DATE
B	GENERAL REVISION FOR BID	RST	MED	RSG	04/29/24
A	ISSUED FOR BID	WMB	MED	RSG	04/05/24

REFERENCE DRAWINGS

CONCRETE NOTES:

- ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 5000 PSI IN 28 DAYS.
- ALL LOADS (INCLUDING VEHICULAR AND BACKFILL) SHALL BE KEPT AWAY FROM NEW CONCRETE FOR A MINIMUM OF 7 DAYS.
- AT LOCATIONS WHERE NEW CONCRETE IS TO BE PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEAN AND FREE OF LAITANCE AND ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH. PRIOR TO PLACING THE NEW CONCRETE, AN EPOXY BONDING AGENT SHALL BE APPLIED TO THE CLEAN, ROUGHENED SURFACE. EPOXY BONDING AGENT SHALL BE "SIKADUR 32, HI-MOD LPL" OR APPROVED EQUAL.
- EPOXY MATERIAL FOR DRILLED AND GROUTED REBAR AND ANCHORS SHALL BE AS CALLED FOR ON THE DRAWINGS (HILTI) OR ENGINEER APPROVED EQUAL.
- CONCRETE DOCK SURFACE SHALL HAVE A BROOM FINISH. VERTICAL FACES SHALL HAVE A RUBBED FINISH AS DESCRIBED IN THE PROJECT SPECIFICATIONS.

REINFORCING STEEL NOTES:

REINFORCING STEEL:

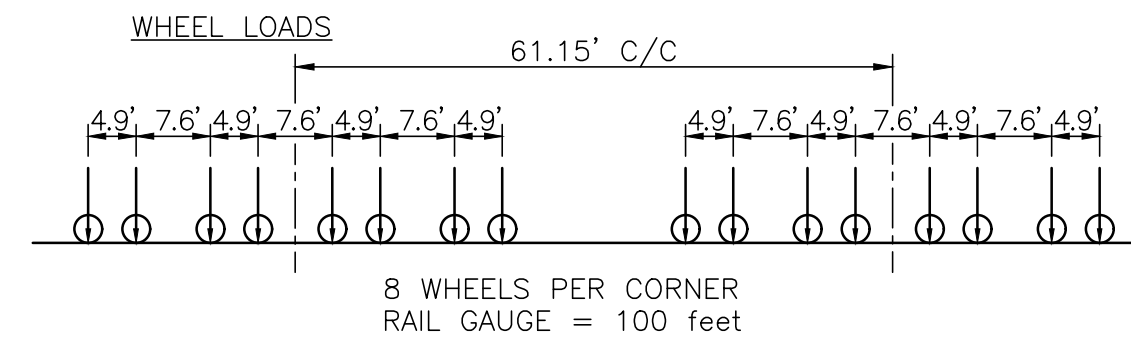
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD 318 AND THE CRSI MANUAL OF STANDARD PRACTICE, A MINIMUM OF 2" CONCRETE COVER SHALL BE PROVIDED AT ALL REINFORCING BARS EXCEPT THAT 1 1/2" OF COVER SHALL BE PROVIDED AT CRANE RAIL POCKETS AND OVER CONCRETE PILES.
- REINFORCING DETAILER RESPONSIBLE FOR VERIFYING ALL REINFORCING DIMENSIONS.
- SPLICES IN REINFORCING BARS SHALL BE CLASS "B" SPLICES AS DEFINED BY ACI 318 UNLESS NOTED OTHERWISE ON THE DRAWING.
- MECHANICAL SPLICES SHALL BE ZAP SCREWLOK TYPE 2 BY BARSPICE OR APPROVED EQUAL OF THE APPROPRIATE SIZE FOR THE BAR BEING SPLICED AS APPROVED BY THE ENGINEER.
- EMBEDMENT AND LAP SPlice LENGTHS SHALL BE AS FOLLOWS:

MINIMUM SPLICE AND EMBEDMENT LENGTHS (INCHES)				
CONCRETE STRENGTH = 5,000 PSI				
BAR SIZE NUMBER	MINIMUM EMBEDMENT LENGTH	TOP BARS EMBEDMENT LENGTH	MINIMUM SPLICE LENGTH	TOP BARS SPLICE LENGTH
3	13	17	17	22
4	17	22	22	29
5	22	28	28	36
6	26	33	33	43
7	37	49	49	63
8	43	55	55	72
9	48	63	63	81
10	54	70	70	91
11	60	78	78	101

- WHERE BARS ARE OF DIFFERENT SIZE, THE LAP LENGTH SHALL BE BASED ON LARGER BAR, UNLESS NOTED OTHERWISE.
- THE SUBCONTRACTOR SHALL DETERMINE ANY SPLICE LOCATIONS IN ADDITION TO THOSE SHOWN, SUBJECT TO SHOP DRAWING APPROVAL.
- TOP BARS ARE HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 1 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW DEVELOPMENT LENGTH OR SPLICE.

DESIGN LOADS:

CRANE LOADINGS:



8 WHEELS PER CORNER
RAIL GAUGE = 100 feet

WATERSIDE OPERATING EQUIVALENT LOAD = 50 k/ft
LANDSIDE OPERATING EQUIVALENT LOAD = 37.5 k/ft
WATERSIDE STOWED EQUIVALENT LOAD = 66.5 k/ft
LANDSIDE STOWED EQUIVALENT LOAD = 50 k/ft

VERTICAL TIE-DOWN LOADS PER CORNER WITH 1.2 STABILITY FACTOR

WATERSIDE LEGS = 1,348 kips (611.6 tonnes) per corner
LANDSIDE LEGS = 1,027 kips (466.0 tonnes) per corner

LONGITUDINAL STOWAGE PIN LOADS PER RAIL WITH 1.2 STABILITY FACTOR

WATERSIDE RAIL = 485 kips (220 tonnes) per rail
LANDSIDE RAIL = 485 kips (220 tonnes) per rail

UNIFORM LOADING:

DECK LIVE LOAD (OUTBOARD OF WATERSIDE RAIL)

OUTBOARD OF WATERSIDE RAIL = 400 psf
ALL OTHER AREAS = 1,200 psf

EQUIPMENT LOADINGS:

TRUCK (OUTBOARD OF WATERSIDE RAIL)

HS25 LOADING

STRADDLE CARRIER (INBOARD OF WATERSIDE RAIL)

CAPACITY = 88.2 kips
CENTER TO CENTER TIRE TRACK = 13'-6"
TIRES PER TRACK = 4
TIRE SPACING = 6'-11"
TIRE CONTACT PRESSURE = 145 psi
TIRE CONTACT AREA = 201.4 square inches
MINIMUM WHEEL LOAD = 18.2 kips
MAXIMUM WHEEL LOAD = 28.2 kips

CONTAINER HANDLER (INBOARD OF WATERSIDE RAIL)

TAYLOR MACHINE WORKS TEC-950L

MOBILE HARBOR CRANE (INBOARD OF WATERSIDE RAIL)

OUTRIGGER LOAD = 187 kips (28" x 28" PAD)
MOVING LOAD ON DECK BASED ON GOTTWALD HMK280 OR SIMILAR

SEISMIC LOADING: (PER IBC-2000)

LOADS SHALL BE APPLIED IN BOTH HORIZONTAL DIRECTIONS EXCLUSIVE OF EACH OTHER (i.e., NOT CUMULATIVE), ALL LONGITUDINAL OR ALL TRANSVERSE

HORIZONTAL LOADINGS (TRANSVERSE/LONGITUDINAL) = 0.8W
VERTICAL LOADINGS = 0.04D

CASE 1 W = DOCK DL + CRANE DL
D = DOCK DL + CRANE DL

CASE 2 W = DOCK DL + 0.25LL
D = DOCK DL

ENVIRONMENTAL CONDITIONS:

DESIGN WIND LOADS

STORM WIND SPEED (NO VESSEL AT BERTH) = 130 mph
OPERATING WIND SPEED (VESSEL AT BERTH) = 75 mph
EXPOSURE C

RIVER CURRENT

5 feet per second

FLOOD ELEVATION

BASE FLOOD ELEVATION = +12.00 FEET (NAVD88)

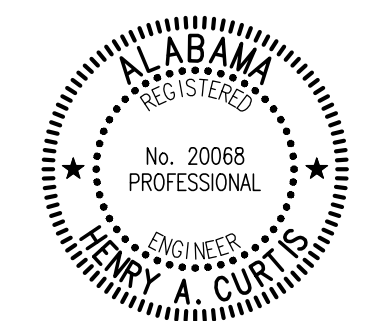
TEMPERATURE

ΔT = 40°F

DESIGN VESSEL CHARACTERISTICS:

VESSEL CLASS	MAERSK E CLASS (EMMA)
CAPACITY	12,000 TEU
CONTAINERS WIDE	22' WIDE
LOA	1,312 ft (400 m)
BEAM	185 ft (56.4 m)
DRAFT (MAX) DRAUGHT, SCANTLING	52.5 ft (16 m)
MAX DISPLACEMENT (DWT)	215,541 LT (219,000 t)
MOLDED DEPTH	98 ft (29.9 m)
BERTHING VELOCITY (NTW)	0.40 ft/sec
APPROACH ANGLE	6°
ALLOWABLE HULL PRESSURE	4.18 ksf (200 kPa)

AS BUILT



ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA
ASPA PROJECT NO: 10481 ASPA DRAWING NO:



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APMT DOCK EXTENSION PACKAGE	
STRUCTURAL GENERAL NOTES	
FOR: ALABAMA STATE PORT AUTHORITY	
PROJECT NO: 4111	DWG NO: S1
REV: 1	

