HOUSEMAN
ARCHITECTURE

September 11, 2020

Embry-Riddle Aeronautical University
1 Aerospace Boulevard
Daytona Beach, FL 32114

RE: **ERAU Fitness Complex - Prebid RFI Responses**
Project Number: 20-001
PREBID RFIs #093-152

The following narrative lists the responses to the Prebid RFIs submitted during the bid phase of the ERAU Fitness Complex project. Following each question is the Design Team response.

PREBID RFIs #093-152

93) Are we to install purple pipe in the potable area? Sheet 7
Response: No.

94) Please provide location of existing controller. Sheet 7
Response: Existing controller is in a parking island in the north parking lot of the Henderson Center, adjacent to the project site.

95) What is the make and model of the existing controller? Sheet 7
Response: Controller is a Hunter 2-wire system.

96) Are the irrigation POC's existing? Sheet 7
Response: Yes.

97) Please confirm meter will be installed by others if not already existing. Sheet 7
Response: System does not need an irrigation meter.

98) Please confirm that this project is a Hurricane Impact-rated project.
Response: Correct. According to the Volusia County website, Risk Category III is in the Wind-Borne Debris category.

99) Follow up to RFI # 53. Please provide mechanical fastening detail for the acoustical panel ceilings. Since this is not a composite deck, will this be an issue with the added weight of the panels fastened directly to the deck?
Response: The panels are 12oz per SF, the weight should not be a problem.

100) Will the soils to be excavated for the proposed pool, are those soils acceptable backfill for the existing pool?
Response: The geotechnical engineer confirmed that the soils are suitable for use as backfill and structural fill. The topsoil containing organic material is not suitable as structural fill.

101) Please provide approximate depth of the existing pool. Where can the water in the existing pool be discharged?
Response: The existing pool is 11' deep. Water can be discharged into existing structure, piping east of project site.

102) Grout sealer is noted in the plans - is it required? This is not typical. Reference construction notes on W1.I1.0
Response: Yes.

103) Will this pool be certified for competition? If not, pool code requires title lane line markers and target to be less than 12" for pools not certified for competition.
Response: The pool is designed to meet competition standards (FHSAA). Certification will be at the Owner's discretion.

104) Please provide specifications for the PSI and WCR for the shotcrete for the pool walls.
Response: All concrete (to include shotcrete) shall meet the requirements stated on W1.S1.0. Those requirements are 4000 psi at 28 days and water concrete ratio (max.) of 0.45.

105) Sheet W1.M2.0 shows 3" gutter drop outs (Typ. 14) Vs. Sheet W1.I1.1 Pool Equipment List shows gutter fitting 2x2" and grates (qty. 56.) No details of gutter dropout or fitting provided.
Response: Drawing W1.M2.0 shows a 2" pipe within the pool beam that runs the perimeter of the pool, with the exception of the zero-entry area. All gutter drains are to connect to the 2" pipe. The drop outs divert flow from the 2" pipe in the beam to a larger gutter pipe that is located outside the pool shell. Detail "F" on W1.M1.2 shows the 2" pipe in the beam. No additional details are needed.

106) Please provide what areas of the floor plans detail 3 on A2.211 is to be applied.
Response: Grid lines A-5, both floors.

107) W1.S1.0 has a note that states 12" floor under pool wall and W1.S1.1 detail 12 indicates a 14" floor under pool walls, please confirm which is correct.
Response: Floor should be 14".

108) Pool Sheet W1.S1.0 calls for a 12" concrete pool floor under the walls of the deep end of the lap lanes. This plan refers us to 12/W1.S1.1 which calls for a 14" concrete pool floor. Which is correct?
Response: Floor should be 14".

109) In comparing pool details 1/W1.C1.1 which shows a 4" thick 57 stone layer above the filter fabric and detail 3/W1.S1.1 which shows the concrete thickness to be 16" at the floor inlets. It appears the 57 stone layer above the filter fabric would have to be a minimum of 12" above the filter fabric in order to have any rock beneath the pool bottom at the floor inlets in deep end of the pool. If possible, please provide a detail similar to detail 3/W1.S1.1 that includes the 57 stone above the filter fabric as well as the underdrain section.
Response: The stone layer should be at least 12".

110) Plan W1.C1.1 shows the pool underdrain system. Please verify if it would be acceptable to rotate the underground drainage system 90 degrees so that the collector pipe/manifold runs alongside the deepest section of the pool (east side) of the pool.
Response: Agreed. The underdrain system should be rotated to allow the collector pipe / manifold to be along the deepest section (east side) of the pool. Approximately seven, 45 ft long laterals will be needed, running in the east – west direction. The 12" manifold on the east side of the pool will be approximately 85 ft long. The laterals will all be under the pool floor and exterior to the shell.

111) The means and methods for forming the floor may require the bottom ledge as shown on detail 12/W1.S1.1 "brick ledge" to be increased from 6" to 18" to allow for stakes/wall forms due to the underdrain system. Please verify this is acceptable.
Response: Updated detail 12/W1.S1.1 will show a 12" ledge.

112) The backflow that connects to the site fire lines that is called to be existing on Civil Sheet 6 and FP0.010 appears to be a backflow for the existing irrigation system. Please advise if a new BFP is required for the site fire lines.
Response: See revised Sheet 6 (dated 09/10/20) attached. Revisions are highlighted in red.

113) Will the Owner's Testing Agency cover the spec 131200 3.6 required structure testing for the climbing wall?
Response: Please include the structural testing for the climbing wall in with your Threshold Inspection testing bid.

114) Are there any fire classification requirements for the climbing wall?
Response: The climbing wall finish requirement shall have a flame spread and smoke developed index classification B.

115) Please specify B.O.D. for the skateboard deterrent stud at the entry pedestals.
Response: Basis of design is solid stainless-steel Cylinder GrinderMinder 1"x1" with brushed finish. Manufacturer: Grind To A Halt, Inc. www.grindtoahalt.com. See attached.

116) Please provide a typical detail for the perimeter footing through the spread footings and exterior steel columns. Details 6&7/S1.103 do not show the columns how the columns, slab, footing, and stem wall tie together.
Response: A detail will be provided. The bottom of the column will be encased in concrete similar to the interior column detail.

117) On Electrical Site plan drawing E0.010, the building's Data/Cable service connection point is not shown. Civil sheet #7 indicates a communication box near the existing pool equipment. Will the existing Communication box be the Data/Cable service connection point?
Response: Per Addendum 1 Narrative, Electrical Response #3 – The Data Service connection point is the inground communications box on the southeast side of the pool equipment building. A length of fiber optic cable has been pulled back to that box from the old Annex Building. Per Electrical Response #4, CATV service to the building will be from the inground communications pull box located in the sidewalk approximately 280' away on the southeast side if the building.

118) On Drawing E4.102, input panels associated with Reference Note 6 are shown coinciding with the requirement to provide a QSC unD6IOP-BT which is an Audio Input Panel with Bluetooth connection. Please verify the color of the device to be provided. As this is a network device, please verify the connection shown should indicate a cable to the Network Switch in lieu of the amplifier connection shown.
Response: Color to be selected from a standard line of colors. Cables should go to network switch as the device is a POE device.

119) On Drawing E4.102, volume controls associated with Reference Note 5 are shown coinciding with the requirement to provide a QSC MP-MPC Wall Controller. Please verify if it is acceptable to use the QSC Attero Tech AXON C1 networked audio controller as this device directly interfaces with the Q-SYS Network for remote control as opposed to an analog interface. (Product Data Included)
Response: No alternates accepted at this time.

120) On Drawing E4.102, Reference Note 1 indicates providing a QSC Q-SYS 510 Controller. We anticipate the CDN64 Dante Bridge Card to be required based on the input panels shown. Please verify if any on board storage is required as a 200 Hour, 500 Hour or 1,000 Hour Media Drive can be provided.
Response: For the bid phase, assume 200 hour on board storage is the minimum requirement.

121) On Drawing E4.102, Reference Note 1 indicates providing a QSC Q-SYS 510 Controller. Please verify if any Analog Input or Output Cards are required.
Response: Not required at this phase.

122) As the QSC Q-SYS 110F can now support Dante, please verify if this unit can be provided in lieu of the Q-SYS 510 and include a MD-110 200 Hour Media Drive (if storage is required) and the number of channel licenses required. These come in 8x8, 16x16 or 32x32 formats.
Response: Contractor to provide a complete and functional system. System needs to be designed so number of channel licenses is appropriate to the design.

123) Please verify all Amplifiers, Network Switch and Processors are to be installed in the MDF 115B in a dedicated cabinet.
Response: No, all amplifiers, Network Switch and Processors are not all to be installed in a single dedicated cabinet. See plans for locations. As an example, on sheet E1.104 the amplifier associated with Studio 1 is located in the audio rack in Studio 1. Refer to Sound System Riser on sheet E4.102 for additional information and clarification.

124) As a model number for the grade mounted speaker was not provided, please verify the Bogen Near G8G is acceptable. (Product Data Included)
Response: The Bogen Near G8G speaker is not acceptable. Provide a grade mounted speaker similar to Theater Solutions model 2R8L Outdoor Rock Speaker.

125) Please verify Speaker Surge is required for the circuits associated with the Pool Deck is required.
Response: Per specification section 264313, surge protection is required for these circuits.

126) Please verify if the Sound System is to be installed in a complete raceway system.
Response: Any exposed to view or outdoor wiring/cabling shall be installed in raceway. Any above ceiling or concealed wiring/cabling can be installed with the use of J-hooks or similar.

127) It appears that all the tile floors in the locker toilets, locker sink areas, and the 1st and 2nd floor restrooms are built-up and mud set as there are no slab recesses shown on the structural drawings. The only detail for the showers, 4/A1.113, shows the showers to be mud set. There are floor drains per the Plumbing plans showing slope to the drains in each of these rooms. What is the intent of these areas; mud set or slab recesses? What does the slope need to be for the drains?
Response: Thin set tile (no slab recess) is required in restrooms 118, 119, 210, 212 & locker room 110. At the shower stalls provide 4"h curb (width of stall) with T-2 vertical walls and a solid surface cap to allow for a mud/thick set tile installation within the shower stall. ADA shower would remain thin set installation with a ½" solid surface threshold. At all thin set installations, slope tile to drains.

128) Where does the ACC-7, uncoupling membrane apply?
Response: Locker room 110 and restrooms 118, 119, 210 & 212. Uncoupling membrane required in individual toilet rooms only where structural control joints occur.

129) Synthetic Turf – Southwest Greens is saying that the turf material was changed to GB-085 Pet/Rec Turf instead of GB-093 which deletes the shock pad and top dressing. Please confirm.
Response: Confirmed. GB-085 Pet/Rec Turf installed per manufacturers recommendation.

130) There is a specification for interior code complying signage but the drawings do not indicate any signage requirements or details. There is also a building sign on the rendering but they don't show on the elevation or anywhere else on the documents. Please provide the details for the interior and exterior signage. Also, please update the bid form if signage is required.
Response: Per previous RFI response #52, ERAU will provide all Code and room signage, GC to install all Owner provided signs. For the Bid Phase, assume the exterior signage shown in the rendering is by others.

131) Plans do not indicate filtration equipment. Page W1.M3.0 Indicates (4) heat pumps, (1) small gas heater, and no heat exchangers. Page W1.M4.0 Indicates (3) heat pumps. Which is correct?
Response: Four (4) Heat Pumps are located on the equipment plan. Disregard heat pump quantity shown in detail W1.M4.0

132) Please provide specification for Precast concrete
Response: Precast Concrete at Entry Plaza Pedestal:
Face Texture: Light sandblast finish; Match existing 'Embry Riddle Aeronautical University' sign at student union.
Finish: Painted (White)
Products and Manufacturer: Sherwin Williams
Primer: One coat Loxon Concrete and Masonry Primer
Finish: Two coats Loxon Acrylic Coating; color to match existing campus sign, see attached.

133) Verify if 2" of sand is required above the Vapor retarder as indicated on detail 2. S1.102
Response: Sand base not required on interior portions of the slab.

134) What size steel member sizes are required in the hatched area where plans Indicate, Coordinate with equipment legs? S2.202
Response: C12x20.7 beams to be placed under the slab under the equipment legs as shown. Beam locations and equipment must be coordinated.

135) Please verify if the Studio Bench ACC 16 is by Owner or GC?
Response: ACC-16 is fabric for the built-in millwork in the Studios. See A9.205

136) Please provide a specification for ACC-22 Traditional Phenolic Lockers
Response: Spec section 105119 and ACC-22 (ASI – phenolic lockers) pertain to the lockers within Locker Room 110. The wood lockers shown on A5.101 & A9.204 are custom units.

137) Define ventilation requirements indicated on Studio 2 209 West 4. Provide manufacturer info. A9.106
Response: Small openings in the base of the millwork, these are not mechanical.

138) Provide a specification for the Mirror wall. Detail "Mirror Wall - Col Plan DTL 2 indicates "Factory Installed Assembly." A9.204
Response: The panels in between the columns are meant to be prefabricated; not field assembled. See sheet A7.107 for details.

139) Plumbing plans P1.201 and P1.202 show 3 roof drains at column line F. The design omits showing any storm piping for these roof drains. Please provide needed storm pipe design for these roof drains.
Response: Refer to reference note 1 on each sheet indicating the storm piping design intent. Design intent is to extend the piping to the roof below and terminate onto the low roof with a 90-degree elbow.

140) Please clarify the survey note "4. Underground Foundations if any, Not Located" Is there a construction requirement? Sheet 1
Response: Existing building foundations are being removed as part of the demolition scope of the project.

141) Electrical engineered drawings referenced in note 10 of the General irrigation notes is not defined on the electrical sheets. Please provide this information.
Response: See response to Prebid RFI #94 – controller is existing.

142) Confirm if SCH 40 or 80 for pool piping not under slab is required.
Response: SCH 80 is the engineer's recommendation for all pool piping. For the bid phase, utilize SCH 80.

143) What are the finishes for this area Vestibule 117. A9.101
Response: See A1.110 & A7.101

144) Elevations indicate B-2 base at walls with tile above it. Finish Schedule A7.112 Note 25 indicates - IN TOILET ROOMS, INSTALL CERAMIC TILE BASE ON GYP BD WALLS. WHERE CERAMIC TILE FINISH IS SPECIFIED, INSTALLTILE TO THE FLOOR. This seems to indicate that the wall tile is to go all the way down to floor with no tile base between wall tile and the Schluter cove. Is B-2 required below the wall tile? Please verify if base is required.
Response: B2 has a bullnose top edge, so it is intended for tiled areas with drywall walls. Where the wall tile is full height, extend wall tile to floor and delete base B-2.

145) Detail 4 indicates a shower detail- There is no ACC-6 Schluter cove shown. Shouldn't the ACC-6 Cove material also be included at the shower stall floor to wall transition?
Response: ACC5 is the floor/wall cove trim for tile. ACC6 is vertical trim at outside corners of tile joints at shower walls, so no exposed edges

146) Section 093013 TILING list F-122 as the only floor tile installation method- This is a thin set with waterproofing method. Finish Schedule A7.111 list item ACC-11 Schluter Ditra uncoupling membrane with possible use at the locker room? Is uncoupling membrane required at any locations or should all floor tile just be installed over waterproofing membrane as the spec indicates?
Response: See previous response #127.

147) Section 093013 TILING list W-243 as the only wall tile installation method. Detail 4 A1.113 shows waterproofing membrane behind the shower wall tile- Is waterproofing required at any wall tile outside of the immediate shower stalls?
Response: No.

148) Sheet A7.102 shows T-8 at a water fountain at Corridor 108A- I cannot find an elevation showing this area- What is the height of the wall tile?
Response: Floor to ceiling.

149) Sheet A7.102 shows T-6 at a water fountain at Corridor 204A- I cannot find an elevation showing this area- What is the height of the wall tile?
Response: Floor to ceiling.

150) Sheet A9.101 shows T-4 at a water fountain at Vestibule 117- I cannot find an elevation showing this area- What is the height of the wall tile?
Response: Floor to ceiling.

151) Sheets A7.106 shows, at the toilet and sink areas, lines which appear to indicate slope to drain. These slope lines do not appear on the structural drawings. Can you confirm that these slope lines are to be accomplished in the slab pour?
Response: See previous response #127.

152) Is it safe to assume the manual butterfly isolation valves, differential pressure transmitter and gauges indicated in detail 2 on dwg. M5.103 are existing? Please advise.
Response: All accessories and appurtenances shown in detail 2, sheet M5.103 shall be new and provided by the mechanical contractor. The mechanical scope of work shall include connecting to the underground chilled water piping located approximately 5 feet outside the building, providing a spool piece of underground pre-insulated chilled water piping matching the installed pre-insulated piping through the slab and into the building (installed per detail 2 on M5.103) and providing the isolation valves, differential pressure transmitter, gauges, and all appurtenances and piping shown in detail 2 on M5.103.

End of Narrative

Attachments:

- **Photo of ERAU Sign**
- **Skateboard Deterrent Product Data**
- **Civil Sheet 6 – dated 09/10/20**

PREBID RFI RESPONSE #132

GRIND TO A HALT

CYLINDER
GRINDERMINDER™
SKATEBOARD AND BIKE DETERRANT

PRODUCT DETAIL

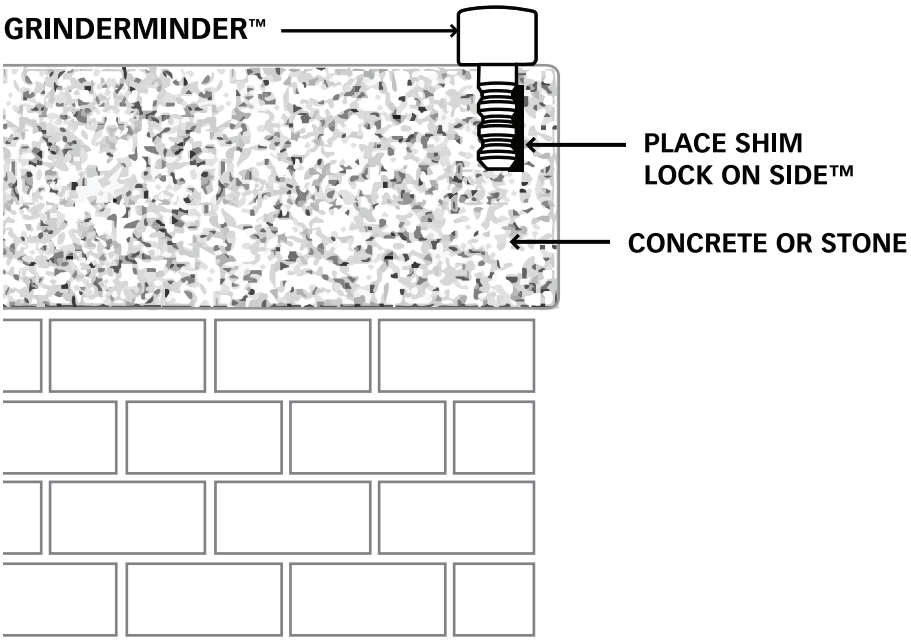
The new **Cylinder GrinderMinder** is another version of our original spherical design. The "Cylinder" will give a lower, flat profile and is inserted at a 90 degree angle into the stone or concrete, rather than at an angle. The stem of the "Cylinder" is identical to our original GrinderMinder, so that it will provide the same stability and resistance to vandalism.

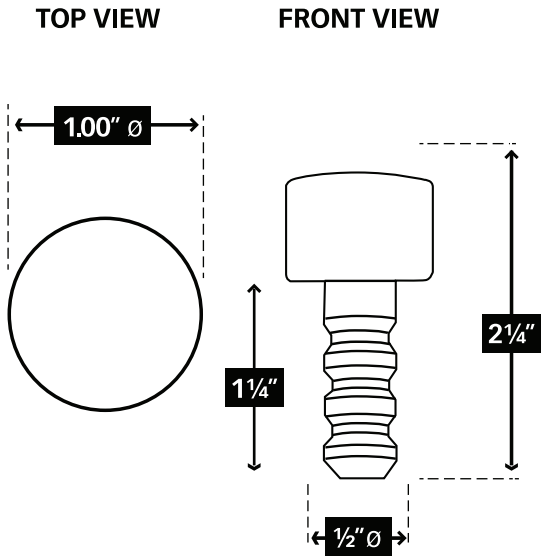
AVAILABLE FINISHES

SOLID STAINLESS STEEL WITH A BRUSHED FINISH STANDARD
(our most popular choice)

CAN BE UPGRADED TO: SOLID STAINLESS STEEL WITH A BLACK OXIDE FINISH
(soft, matte black appearance)

INSTALLATION & PRODUCT DETAIL





PREBID RFI RESPONSE #115

NOTES:
1. PRIOR TO OR UPON BUILDING COMPLETION THE BUILDING WILL BE IN COMPLIANCE WITH NFPA 1:11.10.1 (6TH EDITION FL FIRE PREVENTION CODE OF FUTURE ADOPTED EDITION) AND FLORIDA STATUTE 633.202 (PARAGRAPH 18), AS APPLICABLE, IN REGARD TO F.D. TWO-WAY RADIO COMMUNICATION ENHANCEMENT SYSTEMS. THE POSSIBLE NEED FOR SUCH A SYSTEM WILL BE DETERMINED BY VOLUSIA COUNTY RADIO SERVICES BASED UPON TESTING PERFORMED BY AN AUTHORIZED COMMUNICATIONS CONTRACTOR UTILIZING RADIO SIGNAL STRENGTH GRID TESTING OF THE PROPERTY IN ACCORDANCE WITH NFPA 72 (2013 OR FUTURE ADOPTED EDITION) AND NFPA 1221 (2016 OR FUTURE ADOPTED EDITION). THE REQUIRED RADIO SIGNAL STRENGTH GRID TESTING IS REQUIRED TO BE COMPLETED PRIOR TO BUILDING C.O.
2. SHOULD A TWO-WAY RADIO COMMUNICATION ENHANCEMENT SYSTEM BE DETERMINED TO BE REQUIRED BASED UPON RADIO SIGNAL STRENGTH TESTING, IT IS REQUIRED TO BE INSTALLED PRIOR TO BUILDING C.O. SHOULD THE BUILDING RECEIVE A C.O. PRIOR TO THE TESTING AND/OR REQUIRED INSTALLATION OF SUCH A SYSTEM, IT IS CLEARLY UNDERSTOOD BY ALL PARTIES THE THIS REQUIREMENT MAY BE RETROACTIVELY APPLIED AT A FUTURE DATE BY THE DAYTONA BEACH FIRE DEPARTMENT AND/OR VOLUSIA COUNTY RADIO SERVICES, AND AT THE BUILDING OWNER'S EXPENSE.
3. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF CHILLED WATER LINE TERMINATION POINTS WITH FINAL LOCATION OF POOL EQUIPMENT.

GRAPHIC SCALE
0 10 20 40 60
SCALE: 1" = 20'

NO.	DATE	DESCRIPTION	BY
4	09-10-20	REVISED POTABLE WATER CONNECTION	MRB
3	08-13-20	BID SET	MRB
2	08-06-20	REVISED	MRB
1	07-24-20	REVISED	MRB

REVISIONS

PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com
CERTIFICATE OF AUTHORIZATION NUMBER 00003910

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY
EAGLE FITNESS COMPLEX
DAYTONA BEACH * FLORIDA

UTILITY PLAN

DEV 2020-062
CITY APPROVAL STAMP

6
SHEET NO.

Drawn By: MRB
Date: 03/20/2020
SCALE: 1"=20'
JOB#: 20-17

LEGEND

EXISTING FIBER OPTIC	EFO	EXISTING WATER	EW
PROPOSED FIBER OPTIC	PFO	PROPOSED WATER	PW
EXISTING SANITARY	ES	EXISTING STORMWATER	ESW
PROPOSED SANITARY	PS	PROPOSED STORMWATER	PSW
EXISTING CHILLED WATER	ECW	EXISTING ELECTRIC	EE
PROPOSED CHILLED WATER	PCW	PROPOSED ELECTRIC	PE

POTABLE WATER CONNECTION DETAIL

PREBID RFI RESPONSE #112