

**PROJECT** TAMU Equine Nutrition and Reproduction Facility, 2016192

**ADDENDUM NO.** 03

**BID PACKAGE** 01 November 2017

**NOTICE TO ALL BIDDERS**

This Addendum forms a part of and/or modifies the Contract Documents dated **01 November 2017**.

**LIST OF ITEMS INCLUDED IN ADDENDUM**

This Addendum form consists of **6 pages** and all attachments noted herein, including the following:

The Bid Date has been revised to December 5, 2017. Bid proposals are due at 2:00pm. Proposals will be accepted at SSC Conference Room 204, 600 Agronomy Road, College Station, Texas.

**RESPONSE TO BIDDERS QUESTIONS**

**Q1** Structural drawings S1.32 and S1.33 show 6"x6" cast-in-place curbs at the bottom of many of the walls in plan areas C and D. Structural plan notes regarding curbs say "ref arch". These curbs do not appear to be shown anywhere on the architectural plans or in any of the wall sections. Many of the walls where these 6" wide curbs are shown are only 3-5/8" stud walls which means that the curbs would be visible in the finished space since the curb is wider than the finished wall depth. There are also some areas like corridor walls where it appears that the curbs would be in conflict with the masonry wainscot. Are these curbs required? What are they for? Are they required below masonry walls as well? Note 1 in detail 6/S3.40 seems to imply that they may be required under some masonry walls as well but plans are not clear on this. Please clarify.

**A1** 6"x6" concrete curbs shall occur at all exterior walls with 6" metal studs. CMU walls are exempted from this note.

**Q2** There does not appear to be any bracing shown or designed for top of masonry walls. Are these walls all designed to be unbraced? Masonry note H. (1) on sheet S0.01 implies that some bracing may be required although it is unclear if this is just a boilerplate note that does not apply to this project. Please clarify.

**A2** Note H.1 references lateral bracing is required during construction activities, not required as a design performance criteria. The CMU walls are designed as cantilevered in its final condition.

**Q3** Note P.19 on sheet A1.32 refers to a "rodent proof enclosure" in the storage rooms and refers to partition type V on sheet A6.60. Can you please clarify what you are expecting as far as "rodent proof enclosure"? There are no other notes or details on the rodent proof enclosure. The referenced partition type appears to be just a typical stud wall and does not indicate masonry as shown in plan view on the architectural and structural sheets. Additionally, this partition type calls for PEMB liner panels on one side between "shop" and "office". Is it really the intent to have liner panels inside these storage rooms? And only on one side of the wall? Or is this an incorrect detail reference?

**A3** Partition Type V includes a PEMB liner panel in its construction. Only Feed Storage rooms shall include a PEMB Liner panel on its specified partition type. CMU walls are excluded from this note.



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- Q4** General note 11 on architectural floor plan sheets says, "General Contractor shall provide and install all T.A.S. and code required graphics and signage, as indicated." However, general note 5 architectural finish plan sheets says, "Graphics and signage installed by others, unless noted otherwise." It does not appear that any type of architectural signage is specifically noted or indicated on the plans. Please clarify what signage if any we are to include in our proposal. If we are to furnish and install, please provide signage plans/details so this can be priced properly.
- A4** Interior Signage shall be provided by the Owner, as furnished and installed by SSC Graphics shop.
- Q5** Drawing G0.30 Life Safety plan does not appear to show the fire rated walls or it's very difficult to read. Please provide this information.
- A5** Bulk Storage 106, Storage 121, Grain Storage 129, and Shaving/Hay Storage 130 shall have 1-hour fire-rated partitions.
- Q6** The Door Schedule shows columns for door frame elevations and head, jamb, and sill details, however they are blank. Please provide frame elevations and details, as well as complete the schedule.
- A6** Sheet A6.20 - Door Schedule is revised under Addendum No. 2, issued November 17, 2017.
- Q7** Doors 103, 104, and 105 are assigned hardware set 901, however there is no information about these doors in the door schedule. Please provide the door information.
- A7** Doors are added on Sheet A6.20 - Door Schedule under Addendum No. 2, issued 11/17/17.
- Q8** Doors 106B, 106D, 129B, and 130B are not provided with hardware sets in the specs. Please provide this information.
- A8** Doors 106B and 106D are the personnel doors from Bulk Storage 106. Doors 129B and 130B are the personnel doors from Grain Storage 129 and Hay Storage 130. Provide fire-rated Storeroom Lockset hardware package with thresholds and full gasketing for these doors.
- Q9** Doors 126, 127, and 128 are assigned hardware sets, however they are missing from the door schedule. Please provide further information.
- A9** Please disregard Hardware Set #'s for these doors. They have been revised to Barn Door Types, with their own hardware included.
- Q10** Please provide sheet P403 referenced on MEP-100 plumbing notes 6, 7 & 8.
- A10** MEP-101, Plumbing Note 6 should refer to 23/P-402 (Sand Mud Separator) in lieu of 13/P-403. Plumbing Note 7 should refer to 22/P-402 (Sample Well) in lieu of 6/P-403. Plumbing Note 8 should refer to 29/P-402 (Acid Neutralization) in lieu of 13/P-403.
- Q11** On sheet A1.62 & 1.63, does the polished concrete extend throughout the entire corridor?
- A11** Polished Concrete shall extend up into the North-South corridor. Sheet A1.62 was revised under Addendum No. 2, issued 17 November, 2017, to provide clarity.
- Q12** Alternate 3 info. Provide HVAC split system DX unit in lieu of chiller...See mechanical narrative- no mechanical narrative found.
- A12** Alternate No. 3 was deleted in Addendum No. 2, issued November 17, 2017.

- Q13** Please confirm whether or not the general contractor is responsible to pay the utility monthly consumption needed for construction (water and electric).
- A13** Contractor to pay all fees for Temporary Utilities.
- Q14** On Sheets G0.20 and G0.21, there is a note under the Fire Protection Systems that we are to sprinkle enclosed areas and to not sprinkle open areas. Please provide a floor plan showing what is considered open and what is considered closed in both buildings.
- A14** South Building: Entire building shall be considered Enclosed for sprinklering purposes. North Building: Grain Storage Room 129 and Shavings/Hay Storage Room 130 shall be considered Enclosed for sprinklering purposes. Balance of building may be considered Open.
- Q15** Note 6 on Sheet C-100 states to maintain site in "first class" condition. Please clarify the expectations of "first class".
- A15** "First class" shall mean neat and orderly during construction. No trash, no tools, equipment, and materials scattered all over the site, drainage is maintained, and silt fences are kept reasonably clean. At the end of construction, the Site shall be returned at a minimum to its original condition, preferably better.
- Q16** Detail 6/C-108 states to provide "Owner Approved Material" for the alleys. Please provide specifications for the owner approved material.
- A16** Addendum 2, Sheet C-1, Detail 2, indicates 6" depth of limestone, 3/8" in diameter, as the "Owner Approved Material".
- Q17** What is the material of the "walk" between the culverts at the detail in the bottom right hand corner of Sheet C-104?
- A17** "Earthen Levee" as noted. Provide Hydro-Mulch Seeding.
- Q18** On Detail C5/A1.13, please confirm that the 6" concrete pad is just under the stock tank and not the entire water trough. Please confirm that gravel is required at the water station per Detail 1/C-108.
- A18** Confirmed.
- Q19** Sheet L3.00 shows only portions of the site to receive a hydro-mulch. This sheet does not capture all the areas that will be disturbed. Should we plan on hydro-mulching the entire site, just areas that we disturb, or the areas shown in L3.00?
- A19** Provide Hydro-Mulch Seeding according to Sheet L3.00 – Landscape Plan (Base Bid), and all other areas disturbed by construction activities.
- Q20** Please provide specifications for the signage shown on Sheet L3.01 at the monument sign.
- A20** Refer to Detail 6/L3.01.
- Q21** Is the crushed limestone alley near the turn out stalls and catch pens part of the alternate?
- A21** Crushed limestone alleyways adjacent to the Catch Pens shall be included in the Base Bid.
- Q22** Note P.31 states to seal tight all vertical surfaces in the feed rooms. Please clarify the measure we are to use to "seal tight" the rooms.
- A22** Seal tight all wall materials to prevent rodent intrusion.

- Q23** Note 8 on Sheet A1.60 states to provide corner guards at full height exposed gyp corners. If the wall has a CMU base course (wainscot), will corner guards be required above?
- A23** Correct.
- Q24** The exterior wall sections show a metal soffit at the exterior side of the walls (Sheets A3.20 / A3.21). Does that metal soffit under the roof deck continue within the building perimeter? At both exposed and concealed locations?
- A24** Metal soffit panels shall occur at all exposed exterior locations.
- Q25** Specification Section 115313 for the fume hoods states that the fume hoods are OFOI (in the title). The Equipment Schedule in Addendum 1 states that the fume hoods are CFCI. Please clarify. Same question applies to Specification Section 115343.
- A25** Fume Hoods shall be OFOI. See revised Specification Section 11700, issued in this Addendum.
- Q26** The notes on Sheet MEP-100 for the primary and data services to the buildings seem to be switched around. Note 4 points to a transformer, but the duct bank from Note 4 to the connection at the street (Note 9) states that this is a communication duct bank. The notes on the two different services seem to be mixed up.
- A26** Sheet MEP-101 is revised under Addendum No. 2, issued November 17, 2017, to clarify.
- Q27** Who is responsible for providing and setting the transformer? Who is responsible to run the feeders to the transformer? If by the General Contractor, please provide size and details of feeders.
- A27** Contractor shall be responsible for furnishing and installing the utility pole, installing primary feeders and transformer. This has been clarified on the Online Diagram. Sheet E-001 – Electrical Online and Grounding, has been issued under Addendum No. 2, issued November 17, 2017.
- Q28** Who is responsible for the power pole Detail 1/E-004?
- A28** Contractor.
- Q29** Are the Metal Panels R-Panels per 133419, 2.5 A. or is a Standing Seam building per Paragraph 1.10 B?
- A29** R-Panel, per Paragraph 2.5.A.
- Q30** Is there a main frame column @ Column line B-6, sheet A1.2, or is there a 48' jack beam?
- A30** Sheet A1.32, at Column Grid Lines B/6, and at C/6, indicates a mainframe column.
- Q31** Are cables for bracing allowed in lieu of bracing rods?
- A31** Cables are not listed as an approved method of wind bracing, according to Paragraph 2.4.C.
- Q32** 09 54 29 Wood Panel Ceiling: Please identify the location for the "Wood Panel Ceiling"? It is unclear on where or if the Wood Panel Ceiling are being used.
- A32** Sheet A1.43 – Partial Reflected Ceiling Plan D; Corridor 100: LMC-1; Linear Metal Ceiling. See Master Schedule Sheet G0.70, 095423 – Linear Metal Ceiling. Wood Panel Ceilings have been removed from the project.

- Q33** Refer to Foundation Plan on Sheet S1.30. There is a plan detail reference at gridline F/21.5 that refers to 11/S4.22 which is a pier cap/plinth (see below). There is no metal building column at this location. Is this detail reference correct? Why would we need a pier cap/plinth where there is no column? Are we to assume that plinths are required at all pier locations? Even the ones without metal building columns? Please clarify where plinths are required.
- A33** Per Structural Engineer: "The contractor is correct. Plinths are only required at metal building columns."
- Q34** There are three metal building columns at the gable endwall along gridline 20 on sheet S1.30. These columns are presumably to carry the wall girts above for attachment of the metal wall panels in the gable. See question 33 above. Are plinths required at these columns? There are no detail references to indicate as such.
- A34** Per Structural Engineer: "Level concrete surfaces are required. These piers will also receive a plinth per 2/S4.22."
- Q35** Are plinths required at interior piers? Or are we to assume that detail 1/S3.10 applies to interior piers and top of pier is 8-1/2" below finish floor?
- A35** Per Structural Engineer: "Plinths are not required at interior piers. 1/S3.10 applies. There are some interior piers along gridlines 8 and 9. These piers receive a pier cap per 18/S3.10."
- Q36** Foundation note B. (1) on sheet S0.01 states that pier depth is 12 feet "below existing ground surface." Please clarify. In some cases the new finish floor (331.50) is between 2' to 2.5' below existing natural grade. Does this mean the piers are only 10' deep once we cut the site to proper subgrade? Or are we to figure 12' depth from below new finish floor elevation? Or 12' below subgrade (i.e. finish floor less 8" slab, less 8" carton form)? Or 12' below bottom of grade beam or plinth?
- A36** From the Geotechnical Engineer: "Recommended pier bearing depths in the report are based on the assumed cut depth of 1-foot (As discussed in Section 5.11 – Assumed Cut Depth). If there is additional 1 to 1.5 –feet cut depth, bearing depth of piers should be increased accordingly. Piers embedment depth (below final subgrade) should be minimum 10-feet."
- Q37** New metal building wall panels are shown to run vertically on architectural elevations. It appears that in all locations except along gridline 20, these panels are being applied to light gauge framing at exterior walls where there are no metal building wall girts. Metal building wall panels are designed to be attached to wall girts that run horizontally. Panels typically have 3' coverage which does not align with typical vertical stud spacing of 16" O.C. Do we need to assume that horizontal flat strapping is to be applied to all metal framing where wall panels occur? Or does the architect have another solution for proper attachment of the panels?
- A37** Provide horizontal metal framing members to address this condition.
- Q38** Spec section 109900 item 2.1 (B) calls for Arena sun/wind screen. What is this product? Where is it located? Could not find it on the plans. Does this even apply to this project? Please clarify.
- A38** Sun/Wind screens are no longer required in the Scope of Work.
- Q39** Addendum #2 Question 4/Answer 4 did not answer our original question regarding panel EL. Per the alternate description on sheet E-001, this panel and associated transformer only exist if the alternate is accepted. Panel EL feeds eight 20A-2P circuits for the freezers in

Room 108 and two 20A-1P circuits for the freezers in Room 122. Presumably, the freezers will still exist in the project even if the alternate is not accepted. If the alternate is not accepted, Panel EL will not exist in the project and there will be nothing feeding these 10 circuits. Notes 1-3 on E-001 do not address this. We need to know what panel is feeding these 10 circuits in the base bid.

**A39** Refer to Sheet E-006 – Panel Schedules, Panel Schedule Notes 1, 2 and 3. Under Base Bid, 5 freezers will be fed from panel LL2, 3 freezers will be fed from LL1 and the remaining freezers will be fed from panel L.

**Q40** Regarding the Fire Alarm Specification – 28310013 Paragraph 2.1.A.1.d – Calls for a three channel communicator to send trouble and alarm signals to a remote station. This remote station is to be provided by the Owner. Should the connection for monitoring be a connection via fiber optic cabling to the TAMU Life Safety Network for monitoring by the TAMU Radio Room? If so, should the specification include the Siemens equipment for connection and the latest EH&S specification additions for connection?

**A40** Correct for both questions.

**Q41** The metal building specs specify PBR (exposed fastener) panel, but the drawing details show standing seam metal roof. Please clarify the roof panel and panel colors and finishes for the project.

**A41** The main roofing system is scheduled to be an exposed-fastener PBR; unfinished Galvalume; Walls are exposed-fastener, Reverse-R; unfinished Galvalume, and the Soffit / Liner panels are PBM panel, in Alliance Weather-X - White (silicone-polyester) and gutters and downspouts are Alliance Weather-X (White). The specs and Master Schedule Sheet G0.70 reflect this.

**MODIFICATIONS TO SPECIFICATIONS**

117000 – Equipment Matrix

**MODIFICATIONS TO DRAWINGS**

Sketch SK-4 E-124

**END OF ADDENDUM FORM**

**SECTION 117000****EQUIPMENT MATRIX****PART 1 - GENERAL**

- 1.1 SUMMARY
- A. This Section includes the following:
1. Nutrition & Reproduction Equipment and Utilities Outline, defining the following:
    - a. Owner furnished and installed items.
    - b. Owner furnished and Contractor installed items.
    - c. Contractor furnished and installed items.
  2. Texas A&M Equine Equipment Matrix, defining the following:
    - a. Contractor furnished and installed items, unless otherwise noted.
- 1.2 ACTION SUBMITTALS FOR CONTRACTOR FURNISHED AND INSTALLED ITEMS
- A. Product Data: Include construction details, material descriptions and thicknesses, dimensions, profiles, fastening and mounting methods, specified options, and finishes for each type of accessory specified.
- B. Shop Drawings: Detailed drawings showing each piece of medical equipment in plan and elevation, indicating dimensions and details of construction, installation, and interface to related services.
  1. Equipment manufacturer shall review shop drawings with hospital staff to verify locations and "handing" of or installation of equipment.
- C. Setting Drawings: For cutouts required in other work; include templates, substrate preparation instructions, and directions for preparing cutouts and installing anchoring devices.
- D. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each piece of medical equipment required.
- E. Comply with requirements herein.
- 1.3 CLOSEOUT SUBMITTALS
- A. Maintenance Data: For accessories to include in maintenance manuals specified in Division 01. Provide lists of replacement parts and service recommendations.
- 1.4 QUALITY ASSURANCE
- A. Source Limitations: Provide products of same manufacturer for each type of medical equipment exposed to view in same areas, unless otherwise approved by Architect.
- B. Conform to applicable requirements of governing authorities, including plumbing and electrical requirements, UL, NFPA, for equipment hook-ups.
- 1.5 COORDINATION
- A. Coordinate locations with other work to prevent interference with clearances required for access by disabled persons, proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.
- C. Coordinate with mechanical and electrical requirements.
- D. Schedule installation of medical equipment in each room or space such that construction activity of other trades is essentially complete prior to commencement.
- E. Laboratory Casework Drawings, as prepared by VWR Furniture, dated 10/31/2017, describe the Scope of Work by the Owner. All work listed in these drawings as "BY OTHERS" shall be furnished and installed by the Contractor. Contractor shall provide all utilities to the final Point of Connection at all items listed on the Drawings.

**PART 2 - PRODUCTS**

- 2.1 PRODUCTS
- A. Refer to attached equipment matrix for specific acceptable products.
- B. Items listed in the attached equipment matrices as "BY OTHERS", shall be furnished and installed by the Contractor, unless specifically noted otherwise in the Contract Documents.

**2.2 FABRICATION**

- A. General: Names or labels are not permitted on exposed faces of accessories. On interior surface not exposed to view or on back surface, provide printed, waterproof label or stamped nameplate indicating manufacturer's name and product model number.
- B. Unless otherwise indicated, fabricate units with tight seams and joints, and exposed edges rolled.

**PART 3 - EXECUTION****3.1 EXAMINATION**

- A. Verify that surfaces and conditions are ready to receive work of this Section.
- B. Ensure blocking is provided in walls.
- C. Verify utility requirements for each item of equipment and provide mechanical and electrical rough-in service as required.
- D. Notify Architect of any existing conditions which will adversely affect execution.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

**3.2 PREPARATION**

- A. Prepare substrate surfaces as recommended by manufacturer.

**3.3 INSTALLATION**

- A. Install according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- B. Use fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

**3.4 ADJUSTING AND CLEANING**

- A. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items.
- B. Test and adjust components for smooth operation.

**3.5 CLEANING AND PROTECTION**

- A. Remove temporary labels and protective coatings.
- B. Clean and polish exposed surfaces according to manufacturer's written recommendations.
- C. Initiate and maintain protection and other precautions required through the remainder of the construction period, to ensure that units will be free of damage or deterioration at the time of Substantial Completion.

**END OF SECTION**



<b>Freezer Room 108</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
(-20C) Upright Freezer		OFOI			32 x 29 x 70			Floor sink or floor drain requirement?	1
(-20C) Chest Freezer		OFOI			65.5 x 27 x 34.5			Floor sink or floor drain requirement?	1
(-80C) Upright Freezer		OFOI		115V, 16 Amps	37 x 36 x 78			Floor sink or floor drain requirement?	4
<b>Feed Prep 109</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
Bench Top Scale		OFOI				Bench Top			2
Hay Scale		OFOI							1
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	1
Feed Pallet		OFOI							1
<b>Instrument Lab 110</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
High Performance Liquid Chromatography (HPLC)		OFOI							1
Gas Chromatography (GC)		OFOI							1
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	1
<b>Autoclave 111</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
Autoclave		OFOI							1
Scullery Sink (2-compartment) OMITTED									0
Glass Wash OMITTED									0
Floor Sink OMITTED									0
Overhead Exhaust OMITTED									0
<b>Dirty Receiving 114</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY

100 lb Scale		OFOI							1
Hose Bibb		CFCI							1
Drying Oven	Lindberg/Blue M	OFOI	Gravity Oven, GO1350A-1	120V, 17.5 Amps, Phase 1, 2.1 kW	34 x 22 x 46.5	Bench Top			2
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	1
<b>Nutrition Lab 113, 115</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
Ashing Oven	Lindberg/Blue M	OFOI	Cole Palmer Box Furnace, CBFL518C	208-240V, 26.9-23.3 Amps, Phase 1, 5.6 kW, 50/60 Hz	25 x 30 x 28	Bench Top	Vent required		2
5' Fume Hood		OFOI					Exhaust required		2
Undercounter Glass Wash		OFOI		115V, 60Hz, 15A	23.5" x 21.7" x 33.9-35.9"	Floor			2
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	2
<b>Sterilization - Omitted</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
This room has been omitted & converted to Storage 121 from latest redesign									
Laundry - Omitted									
<b>Storage 121</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
Shelving		OFOI							
<b>Semen Lab 122</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	1
Stainless Steel Upright Refrigerator		OFOI			27 x 31 x 81				1
Refridgerator Freezer Combo		OFOI			32 x 29 x 67				1
Cryotank		OFOI							1
Bench Top Equipment		OFOI							
<b>Mare Foal Lab 123</b>									

Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	1
<b>Break / Foal Watch / Conference 125</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
Break Room Millwork with Sink		CFCI							1
Residential Refrigerator		CFCI							1
Microwave		OFOI							1
Closed Circuit Monitoring for Foal Watch (Equipment and Cabling)		OFOI							1
<b>Mare Evaluation 126</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
Mare Stocks		CFCI							2
Foal Stocks		CFCI							2
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	1
Hose Bibb		CFCI	See Plumbing Schedule					High pressure valve	1
Tie Rail / Ring	Martin Ranch Supply	CFCI	See detail						2
Electric Power Cord Reel	Daniel Woodhead, by Gross Automation	CFCI	#92433 Industrial-grade cord reel in 40' length	3 conductor, 12 AWG, 18A, 120V		Provide Uni-strut to building structure above			4
<b>Semen Collection 127</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY
Lab Sink		OFOI						Requires Reverse Osmosis (RO) water	1
Hose Bibb		CFCI	See Plumbing Schedule					High pressure valve	1
Tie Rail / Ring		CFCI							
Electric Power Cord Reel	Daniel Woodhead, by Gross Automation	CFCI	#92433 Industrial-grade cord reel in 40' length	3 conductor, 12 AWG, 18A, 120V		Provide Uni-strut to building structure above			2
Breeding Mount	Animal Reproduction Systems, Inc.	CFCI	Regular Breeding Phantom, Black BP-R-BK			Two-Legged, Non-Hydraulic			1
<b>Wash/Cool Down 131, 134</b>									
Item	Manufacturer	Supplier	Model or Item No.	Utility Requirements	Size W x D x H (in)	Mounting	Mechanical Requirements	Plumbing Requirements	QTY

**TAMU Equine Nutrition and Reproduction  
Equipment and Utilities Outline**

Addendum No. 3  
27-Nov-2017

Tie Ring / Tie Rail	Martin Ranch Supply	CFCI	See detail			Surface			4
Hose Bibb		CFCI	See Plumbing Schedule					Domestic Water	2
Wash Boom		CFCI	See Plumbing Schedule						2
<b>Wash Stalls 132, 135</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
Tie Ring / Tie Rail	Martin Ranch Supply	CFCI	See detail			Surface			4
Hose Bibb		CFCI	See Plumbing Schedule					Domestic Water	2
Wash Boom		CFCI	See Plumbing Schedule						2
<b>Exerciser 133</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
8-Horse Exerciser	Priefert Mfg.	CFCI		Main Power: 240V, 30A Fence Charger: 120V	70' diameter				1
Fly Spray System	DIY Insect Misting Systems	OFOI	55 Gal system, 60 Nozzle kit	120V		Re:Plans			1
<b>Animal Sampling 136</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
Scale System and Platform	Tru-Test	CFCI	EziWeighSi Indicator and AP600 Alleyway Platform and 2 MP600 load bars	120V	(1) 24" x 87.5" platform	Surface			1
Vibration Plate	TheraPlate	CFCI		120V	3'-0" x 7'-0"	Surface. Provide pair of ramps by scale mfr.			1
Electric Power Cord Reel	Daniel Woodhead, by Gross Automation	CFCI	#92433 Industrial-grade cord reel in 40' length	3 conductor, 12 AWG, 18A, 120V		Provide Uni-strut to building structure above			1
Tie Rail / Ring	Martin Ranch Supply	CFCI	See detail			expansion bolt to concrete walls			2
Stock OMITTED									0
Scullery Sink (2-compartment) OMITTED									0
Stainless Steel Storage OMITTED									0
Stainless Steel Table OMITTED									0
<b>Vet/Ferrier 137</b>									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
Electric Power Cord Reel	Daniel Woodhead, by Gross Automation	CFCI	#92433 Industrial-grade cord reel in 40' length	3 conductor, 12 AWG, 18A, 120V		Provide Uni-strut to building structure above			1

**TAMU Equine Nutrition and Reproduction  
Equipment and Utilities Outline**

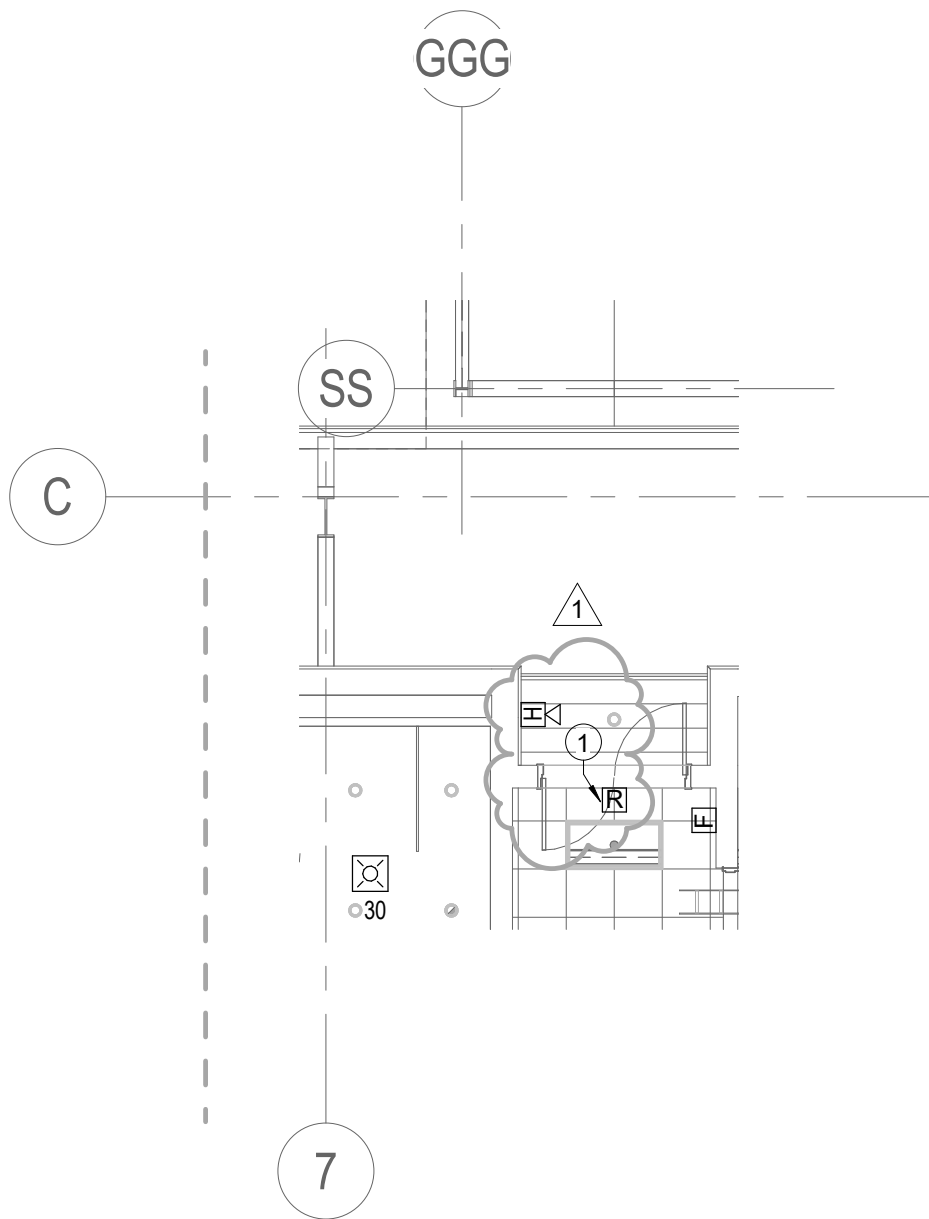
Addendum No. 3  
27-Nov-2017

Horse Stock with Tie Bar and Platform	Priefert Mfg.	CFCI							
Scale System and Platform	Tru-Test	CFCI	EziWeighSi and AP600 Alleyway Platform	120V	(1) 24" x 87.5" platform	Surface. Provide pair of ramps by scale mfr.			1
Tie Rail/Tie Rings	Martin Ranch Supply	CFCI	See detail			expansion bolt to concrete walls			2
<b>Miscellaneous Equipment</b>									
The following equipment items were provided to us by the users however please clarify if these items will be moving to the building and where they are to be located									
<b>Item</b>	<b>Manufacturer</b>	<b>Supplier</b>	<b>Model or Item No.</b>	<b>Utility Requirements</b>	<b>Size W x D x H (in)</b>	<b>Mounting</b>	<b>Mechanical Requirements</b>	<b>Plumbing Requirements</b>	<b>QTY</b>
Milli-Q Type 1 Ultrapure Water System		OFOI			31 x 18.5 x 26			Requires water source & valve connection	1
Oxygraph / Plate Reader		OFOI			8'-10" x 18 x 18	Bench Top			1
Flammable Cabinet		OFOI			48 x 19 x 45.5				1
N Tank Water Conditioner		OFOI			22 x 24 x 5'-3"				1
Centrifuge		OFOI			32 x 22.5 x 15	Bench Top			1
Incubator		OFOI			21 x 16.5 x 25				1

TEXAS A&M EQUINE NUTRITION AND REPRODUCTION FACILITY						EQUINE EQUIPMENT MATRIX	
LOCATION & PRODUCT	Revision	Reference	Mark	Area	MANUFACTURED BY	DESCRIPTION	Quantity
<b>TEACHING / RESEARCH PAVILION</b>							
<b>Feed Stalls</b>							
Divider panels-Sides		A1.30	RSAP12	Feeding	Priefert Mfg.	12ft Rough stock arena panels	42
Divider panels-Backs		A1.30	RSAP10	Feeding	Priefert Mfg.	10 ft Rough stock arena panels	16
Stall Front Bow Gates	1	A1.30	RSABG109	Feeding	Priefert Mfg.	10 ft Rough stock arena bow gate	32
Alley Bow Gates		A1.30	RSABG129	Feeding	Priefert Mfg.	12 ft Rough stock arena bow gate	10
Perimeter Panel		A1.30	RSAP14	Feeding	Priefert Mfg.	14 ft Rough stock arena panels	10
Perimeter Panel		A1.30	RSAP08	Feeding	Priefert Mfg.	8 ft Rough stock arena panels	3
Perimeter Gate		A1.30	RSABG129	Feeding	Priefert Mfg.	12 ft Rough stock arena bow gate	1
Perimeter Gate		A1.30	RSABG079	Feeding	Priefert Mfg.	7 ft Rough stock arena bow gate	2
Stall to Wall Connector	1	A1.30		Feeding	Priefert Mfg.	Vertical Channel - 2 per stall	12
Rough Stock Wall Mounting Baskets	1	A1.30	RSWMBM	Feeding	Priefert Mfg.	Male Connector Tab	16
<b>Foaling/Mare/Stallion Area</b>							
Foaling stalls - Premier Horse Stall Fronts		A1.31	HSE12PI	Foaling stall	Priefert Mfg.	Bar top, 3/8" poly bottom, center slide door	2
Foaling Stall Feeder	1	A1.31	HSFF	Foaling stall	Priefert Mfg.	Premier Horse Stall Feeder	2
Foaling stalls - Premier Horse Stall Fronts		A1.31	HSP12PI	Foaling stall	Priefert Mfg.	3/8" poly bottom, bar top	2
Foaling stalls - Premier Horse Stall Dividers		A1.31	HSP12SPI	Foaling stall	Priefert Mfg.	3/8" poly bottom, 3/8" poly top	6
Mare holding - Premier Horse Stall Fronts		A1.31	HSE12PI	Mare Holding	Priefert Mfg.	Bar top, 3/8" poly bottom, center slide door	4
Mare Stall Feeder	1	A1.31	HSFF	Mare Holding	Priefert Mfg.	Premier Horse Stall Feeder	4
Mare holding - Premier Horse Stall Dividers		A1.31	HSP8SPI	Mare Holding	Priefert Mfg.	3/8" poly bottom, 3/8" poly top	2
Mare holding - Premier Horse Stall Dividers		A1.31	HSP12SPI	Mare Holding	Priefert Mfg.	3/8" poly bottom, 3/8" poly top	3
Stallion stalls - Premier Horse Stall Fronts		A1.31	HSE12PI	Stallion Stall	Priefert Mfg.	Bar top, 3/8" poly bottom, center slide door, with feeder	2
Stallion Stall Feeder	1	A1.31	HSFF	Stallion Stall	Priefert Mfg.	Premier Horse Stall Feeder	2
Stallion stalls - Premier Horse Stall Fronts		A1.31	HSP12PI	Stallion Stall	Priefert Mfg.	3/8" poly bottom, bar top	2
Stallion stalls - Premier Horse Stall Dividers		A1.31	HSP8SPI	Stallion Stall	Priefert Mfg.	3/8" poly bottom, 3/8" poly top	2
Stallion stalls - Premier Horse Stall Dividers		A1.31	HSP12SPI	Stallion Stall	Priefert Mfg.	3/8" poly bottom, 3/8" poly top	4
Perimeter Panel		A1.31	RSAP 14	Stallion Area	Priefert Mfg.	14 ft Rough stock arena panels	10
Perimeter Panel		A1.31	RSAP 10	Stallion Area	Priefert Mfg.	10 ft Rough stock arena panels	2
Perimeter Gate		A1.31	RSABG079	Stallion Area	Priefert Mfg.	7 ft Rough stock alley bow gate	4
Stall to Wall Connector	1	A1.31		Stall to wall/column	Priefert Mfg.	Vertical Channel - 2 per stall	18
Offset Stall to Wall Connector		A1.31		Foaling/Mare/Stallion	Priefert Mfg.	Vertical Channel - 2 per stall	12
Rough Stock Wall Mounting Baskets	1	A1.31	RSWMBM	Foaling/Mare/Stallion	Priefert Mfg.	Male Connector Tab	12
Stall Flooring System		A1.31		Foaling/Mare/Stallion		Rubber Mats - Owner furnish/Owner install	
Tie Rail		A1.30		Vet Exam	Contractor	Tie rail mounted 5'-0" A.F.F.	1
Scale System	1	A1.30		Vet Exam	Priefert/Tru-Test	EziWeigh5i Indicator and two MP600 load bars	1
Scale Platform	1	A1.30		Vet Exam	Priefert/Tru-Test	AP600 (24"x87.5") Alleyway Platform	1
Horse Stock		A1.30		Vet Exam	Priefert Mfg.	Horse Stock W/ Tie Bar & Platform	1
Tie rings		A1.30		Vet Exam	Martin Ranch Supply	Tie ring mounted at 6'-0" A.F.F. - Field Locate	3
Stall Flooring System		A1.30		Vet Exam		Rubber Mats - Owner furnish/Owner install	
Stall Flooring System		A1.31		Wash Stall		Rubber Mats - Owner furnish/Owner install	
Tie Rail		A1.31		Wash Stall	Contractor	Tie rail mounted 5'-0" A.F.F.	4
Tie Ring		A1.31		Wash Stall	Martin Ranch Supply	Tie ring mounted at 6'-0" A.F.F. - Field Locate	8
Walkers	1	A1.31		Wash Area	Priefert Mfg.	70' diameter 8-Horse Panel w/sprinker, sheeted bottom RPs, horizontal rails, rubber mats, Touchscreen & (3) remote controls	1
Stable Entry Doors - Custom		A6.10	M1	Feeding Storage	Priefert Mfg.	TAMU 10'H X 10' W Single rolling W/ ATM logo and hardware	3
Stable Entry Doors - Custom		A6.10	M5	Semen, Alleyways	Priefert Mfg.	TAMU 10' H X 12' W Double rolling W/ ATM logo and hardware	2
Window Grill - Exterior		A6.50	MT1	Semen/Mare	Priefert Mfg.	3'-4"W x 4'-4"H Bar GRILL W/ ATM logo	8
Breeding Mount		A1.33		Semen Collection	Phantom	Phantom Breeding Mount	1
Foal and Mare Stock		A1.33		Mare Evaluation	Contractor	Custom Foal and Mare Stock - Contractor Furnished/Contractor Installed (\$10,000 Allowance)	4
Fly Spray System		A1.20		Composite Floor Plan	DIY Insect Misting Systems	55 Gal system, 60 Nozzle kit - Owner furnished/Vender installed , Contractor provide power at approved location	1
Scale System	1	A1.30		Animal Sampling	Priefert/Tru-Test	EziWeigh5i Indicator and two MP600 load bars	1
Scale Platform	1	A1.30		Animal Sampling	Priefert/Tru-Test	AP600 (24"x87.5") Alleyway Platform	1
Tie Ring		A1.30		Animal Sampling	Martin Ranch Supply	Tie ring mounted at 6'-0" A.F.F. - Field Locate	4
Vibration plate		A1.30		Animal Sampling	TheraPlate	TheraPlate 3'-0"x7'-0", Contractor provide power at approved location	1
Rough Stock Gender Adapters	1		RSGA3		Priefert Mfg.	3-Way Connector	30

LOCATION & PRODUCT	Revision	Reference	Mark	Area	MANUFACTURED BY	DESCRIPTION	Quantity
<b>PADDOCKS</b>							
Shelters	1	A1.10	MS	Paddocks	Priefert Mfg.	12' X 12' OPEN FRONT & SIDES - BACK WALL SHEETED w/skids & awning	15
Feed Slips		A1.10	FS	Paddocks	Contractor	6 Feed Slips per paddock - Field Built by fence contractor	See Plan
Water Tanks		A1.10	WS	Paddocks	Rubbermaid	150 gal	9
Water Tank Floats		A1.10	WS	Paddocks	Little Giant	Little Giant - TM825	9
Metal Fence		A6.10	FN1	Catch Pens	Contractor	5'-0" Metal fence	See Plan
Metal Fence		A6.10	FN2	Std Paddocks	Contractor	5'-0" Metal fence W/No climb mesh	See Plan
Metal Fence		A6.10	FN3	Stallion Paddocks	Contractor	7'-0" Metal fence W/No climb mesh	See Plan
Vinyl Fence		A6.10	FN4	Dumpster Area	Contractor	4'-0" Tall Vinyl Fence	See Plan
Electric Fence Charger		A1.10	FN2, FN3	Paddocks	Speedrite/Gallagher	Single wire offset and solar charger	See Plan
Insulators & Rope/Wire		A1.10	FN2, FN3	Paddocks	Speedrite	Wire insulator	See Plan
6'-0" Tall Gates w/Lever Latch	1	A6.10	G1B	Stallion Paddocks	Priefert Mfg.	12 ft Stallion paddock gate W/LL and Hinges	3
4'-0" Tall Gates w/Lever Latch	1	A6.10	G1A	Paddock to Paddock	Priefert Mfg.	14 ft Paddock gate W/LL and hinges	3
4'-0" Tall Gates w/Lever Latch	1	A6.10	G1	Paddocks	Priefert Mfg.	12 ft Paddock gate W/LL and hinges	21
3'-2" Tall Access Gates		A6.10	G3	Access Areas	Priefert Mfg.	6 ft Ponderosa gate w/2/4"x4"x8"x1/4" post	4
<b>TURN OUT BARN</b>							
Utility Barns		A1.12	C5	Turn-out Barn	Priefert Mfg.	36' x 120' 20 Stall Utility Barn w/ 12' x 36' runs W/3' overhang, Cont. Gutter & Downspouts @ Ends	2
12 ft Catch pen gates	1	A6.10	G2	Turn-out Barn	Priefert Mfg.	12 ft Access Gate	9
12 ft Catch pen alley gates		A6.10	RSABG129	Turn-out Barn	Priefert Mfg.	12 ft Rough stock arena bow gate	2
12 ft Utility Barn Alley Gates	1	A1.12	RSBG129	Turn-out Barn	Priefert Mfg.	12 ft Rough stock bow gate	4
12 ft Stall Gates-Front	1	A1.12	RSBG129	Turn-out Barn	Priefert Mfg.	12ft Rough stock bow gate	40
Corral Panels		A1.12	RSP12	Turn-out Barn	Priefert Mfg.	12 ft Rough stock panel	44
Corral Panels		A1.12	RSAP12	Turn-out Barn	Priefert Mfg.	12 ft Rough stock arena panel	128
Fence		A6.10	FN1	Turn-out Barn	Contractor	5'-0" Metal Fence	See Plan
Fence		A6.10	FN2	Turn-out Barn	Contractor	5'-0" Metal Fence W/No climb mesh	See Plan

ALL EQUIPMENT LISTED IN MATRIX SHALL BE CONTRACTOR FURNISHED-CONTRACTOR INSTALLED, UNLESS NOTED OTHERWISE



**1 1D - ADD 2**  
 SK-4 E-124 1/8" = 1'-0"

**KEYED NOTES**

1 PROVIDE RELAY FOR MONITORING AND CONTROL OF MAGNETIC LOCKS FOR DOOR.



9990 Richmond Avenue  
 South Building, Suite 300  
 Houston, Texas 77042  
 713.914.0888 p  
 713.914.0886 f  
 TBPE Firm Registration No. 2234

PROJECT: EQUINE NUTRITION AND REPRODUCTION FACILITY  
 DBR PROJECT NO: 160336.000

DRAWING NUMBER  
 SK-4

DATE: 11/17/17

CHECKED BY:

DWG. REF.  
 E-124

DRAWN BY:

RE: ADDENDUM 3