INVITATION FOR BIDS
CCK-2372-19
ADDENDUM # 1
11/20/2018

ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 11/27/2018 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

1. Please refer to and incorporate within the offer, the attached written questions and answers, and updated drawings.

2. Pre-bid Sign-In sheet attached.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

______________________________
Contracting Officer / (859) 323-5405

________________________________________
Typed or Printed Name
<table>
<thead>
<tr>
<th>No.</th>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
</table>
| 1.  | Have an estimated budget and start date been established?               | Construction budget: $130,000  
Anticipated start date: Monday, December 3rd.                                        |
| 2.  | When we remove a block wall that runs into a wall that has block on one side and glazed block on the other side, how do you want us to patch where the wall is removed? | Grind smooth and apply parge coat to match adjacent block surface.                        |
| 3.  | Who removes the floor tile in each area?                                | Contractor.                                                                             |
| 4.  | Where glazed tile is in Room 308A, do we ardex the floor and lay floor tile over the glazed tile or remove the glazed tile? | Remove glazed tiles and prep floor for new VCT flooring.                                  |
AGRICULTURAL SCIENCE BUILDING NORTH
ROOMS S304 - S314 RENOVATION PROJECT
PHASE 3 - ROOMS S306, S308, S308A, AND S310

UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

DESIGN AND CONSTRUCTION ADMINISTRATION PROVIDED BY:
UK PLANNING DESIGN AND CONSTRUCTION GROUP
211 PETERSON SERVICE BUILDING
LEXINGTON, KY 40506

PROJECT DESCRIPTION

THIS IS PHASE 3 OF THE LAB RENOVATION OF ROOMS S304-S314 IN THE AG NORTH SCIENCE BUILDING. THIS PROJECT COVERS ROOMS S306, S308, & S310. THESE LAB SPACE WILL BE UPDATED. ROOMS S308 & S310 WILL BE CONVERTED INTO ONE LARGE LAB AREA. UPGRADES INCLUDE NEW CASEWORK, NEW FLOORS, NEW CEILING, NEW LIGHTING, UPDATED HVAC, AND UPGRADED UTILITIES.

NOTE: CASEWORK DRAWINGS ATTACHED FOR REFERENCE ONLY.

VICINITY MAP

UNIVERSITY OF KENTUCKY
Physical Plant Division
10/2018
807002054024

ROOMS S306-310 RENOVATION PROJECT, PHASE 3

T-100

DRAWING INDEX

T-100 TITLE SHEET AND DRAWING INDEX SHEET
AD-133 ARCHITECTURAL FLOOR & REFLECTED CEILING DEMOLITION PLANS
A-001 ARCHITECTURAL GENERAL NOTES, ABBREVIATIONS, AND LAYOUT
A-133 ARCHITECTURAL FLOOR & REFLECTED CEILING PLANS
A-135 MECHANICAL PLANS
M-001 MECHANICAL GENERAL NOTES AND LEGEND
M-133 MECHANICAL PLANS
M-400 MECHANICAL SCHEDULES AND DETAILS
P-001 PLUMBING GENERAL NOTES AND LEGEND
P-133 PLUMBING PLANS
P-400 PLUMBING DETAILS
ED-133 ELECTRICAL DEMOLITION PLAN
E-001 ELECTRICAL GENERAL NOTES AND SCHEDULES
E-133 ELECTRICAL PLANS
CASEWORK DRAWINGS
GENERAL NOTES
A. Contractor shall secure services of a certified sprinkler contractor who will install new or modify existing sprinkler piping and heads as necessary. Vendor shall supply certification that all modifications meet all applicable codes.
B. All finishes disturbed or damaged during construction, that are not in the scope, shall be patched and finished to match the adjacent finish.
C. All material identified as hazardous will be abated by the University of Kentucky prior to the contractor’s arrival on site. However, it will be the responsibility of the contractor to repair and refresh all abatement damaged floors, walls, ceilings, etc. to their original condition. Additional material to be environmentally hazardous, stop work immediately and contact owners representative.
D. All dimensions for existing structure are from face of wall finish to face of wall finish. All new construction dimensions are from face of framing to face of framing or existing finish, unless noted otherwise.
E. Verify all dimensions prior to demolition/construction.
F. Coordinate all rough openings with manufacturer prior to demolition and construction.
G. Refer to sheet A-133 for dimensions and detail information.
H. Refer to sheet A-002 for door and finish schedules and sheet A-001 for general notes.
I. Not all demolished components will be the contractors responsibility to remove. The owner has first right of refusal for all equipment and components and will be responsible the removal of all items remaining with the property. If the contractor suspects any item for the owner will need to be coordinated with the University of Kentucky construction manager prior to construction.
J. Refer to sheet A-001 for legend and abbreviation information.

SHEET NOTES:
1. Remove and dispose of concrete masonry walls to extents shown dashed. Disconnect and cap or move utilities as required.
2. Remove existing door frame.
3. Existing emergency shower to be removed. See plumbing drawings for additional information.
4. Remove and dispose of sink and casework. Cut and cap utilities. See plumbing sheets for additional information.
5. Remove and dispose of doors and casework.
6. Existing sink. Protect in place.
7. Remove and dispose of counter tops and wall mounted shelves. Cut and cap utilities. See plumbing drawings for additional information.
8. Remove and dispose of ceiling grid and tiles.
9. Remove and dispose of ceiling lights. See electrical drawings for additional information.
11. Remove and dispose of door infill material.
12. Remove and dispose of quarry tile floor and base.

KEY PLAN

UNIVERSITY OF KENTUCKY
Physical Plant Division

ROOMS S306, S308A, S310
AGRICULTURAL SCIENCE BUILDING NORTH
ROOMS S306-310 RENOVATION PROJECT, PHASE 3

DRAWING NUMBER:
APPROVED BY:
PROJECT NO.:
DATE:
DRAWN BY:
CHECKED BY:
DESIGNED BY:

10/2018
807002054024
0091

0' 2' 4' 8' 16' 32'
SCALE: 3/16" = 1'-0"

OVERVIEW PLAN

CEILING DEMOLITION PLAN

SCALE: 3/16" = 1'-0"
GENERAL NOTES

1. GENERAL NOTES FOR WHICHEVER SHEET THEY RESIDE APPEAR TO ALL SHEET DOCUMENTS UNLESS OTHERWISE INDICATED IN THE KEY NOTES. KEY NOTES APPEAR ONLY TO THE SHEET FOR WHICH THEY ARE FOCUSED, UNLESS OTHERWISE STATED.

2. PRIOR TO BIDDING, THE CONTRACTOR(S) SHALL REVIEW THE ENTIRE CONSTRUCTION DOCUMENTS. MOST OF THE WORK TO BE PERFORMED IS BASED ON THE EXISTING CONDITIONS. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS. FAILURE TO COMPLY WITH THIS DIRECTIVE WILL RESULT IN A CHANGE ORDER AND THE UNIVERSITY OF KENTUCKY WILL NOT BE RESPONSIBLE FOR ANY COSTS INCURRED AS A RESULT.

3. IF THE PROJECT IS FOR THE RENOVATION OF A SPACE OR MULTIPLE SPACES, THEN THE WORK TO BE COMPLETED BY THE CONTRACTOR INCLUDES NEW FINISHES, MECHANICAL, ELECTRICAL, PLUMBING, PIPING, HEATING, RADIANTS, RADIATOR COVERS, LOUVERS, ETC. IF A PROJECT IS CONSIDERED A PARTIAL RENOVATION, THE CONTRACTOR WILL INCLUDE ALL ITEMS AND SURFACES INCLUDING: EXISTING WALLS, DOORS, WINDOWS, WALLS, CEILINGS, FLOORS, RADIANTS, TRIM, HEATING, RADIATORS, ETC. ALSO MUST BE MATCHED, PREPARED, CLEANED, AND PAINTED. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ANY ITEMS IN QUESTION AT THE MEETING WALK THROUGH AND SUBMIT QUESTIONS BEFORE THE AWARD OF THE CONTRACT. ANY ITEM NOT IDENTIFIED BEFORE THE AWARD IS CONSIDERED PART OF THIS CONTRACT AND WILL NOT BE CONSIDERED FOR A CHARGE ORDER.

4. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES. ALL DISCREPANCES IN THE EXISTING CONDITIONS, ALTERNATE MATERIALS AND METHODS OF CONSTRUCTION, AND FIELD MODIFICATIONS AND MODIFICATIONS SHALL BE RECORDED ON THESE SHEETS.

5. THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY CHANGES AS A RESULT OF THE PROGRESSING CONSTRUCTION CONDITIONS AND THE CONTRACT DOCUMENTS PRIOR TO BEGINNING ANY WORK. ALL DISCREPANCES IN THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS SHALL MATCH THE EXISTING CONDITIONS UNLESS OTHERWISE NOTED ON THE PROJECT OF DRAWINGS AND SPECIFICATIONS. TO ENSURE CONSISTENCY WITH THE UNIVERSITY'S STANDARDS AS WELL AS ALL REGULATORY REQUIREMENTS (HEREAFTER REFERED TO AS THE "STANDARDS") THE CONTRACTOR MUST ENSURE THAT ALL ITEMS AND SURFACES MATCH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE KEYWAY'S CONDITION. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS.

6. THE CONTRACTOR SHALL PROVIDE MEETING MEASUREMENTS REGULATIONS AND PROVIDE ALL NECESSARY structural BRACING REINFORCEMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE CONSTRUCTION, BEFORE ANY WALLS, OPENINGS, OR STRUCTURAL WORK IN THIS PROJECT, UNLESS OTHERWISE INDICATED IN THE KEY NOTES. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS.

7. ALL DOOR HARDWARE, DOOR FRAME, AND DOOR INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS FOR EMERGENCY EXIT AND ACCESSIBILITY.

8. ALL DOOR HARDWARE SHALL BE PROVIDED BY GENERAL CONSTRUCTION AND SHALL MATCH THE BUILDING EXISTING HARDWARE. ALL LOCKSHEETS SHALL HAVE LEVER HANDLES. IN MOST CASES THE UNIVERSITY OF KENTUCKY PREFER TO INSTALL A SINGLE LEVER ARMED LOCKSHEET AT THE END OF EACH HALLWAY. ALL DOOR HARDWARE MUST COMPLY WITH THE UNIVERSITY'S STANDARDS AS WELL AS ALL REGULATORY REQUIREMENTS. THE CONTRACTOR MUST ENSURE THAT ALL HARDWARE MATCH THE EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF THE KEYWAY'S CONDITION. ANY ITEM NOT IDENTIFIED BEFORE THE AWARD IS CONSIDERED PART OF THIS CONTRACT AND WILL NOT BE CONSIDERED FOR A CHARGE ORDER.

9. THE CONTRACTOR SHALL SUBMIT ALL CASEWORK, FINISHES, AND MATERIAL SELECTIONS TO THE UNIVERSITY OF KENTUCKY PROJECT MANAGER PRIOR TO THE START OF CONSTRUCTION.

10. ALL DOOR HARDWARE SHOULD BE CONSIDERED FOR THE ACCURACY OF THE KEYWAY'S CONDITION. ANY ITEM NOT IDENTIFIED BEFORE THE AWARD IS CONSIDERED PART OF THIS CONTRACT AND WILL NOT BE CONSIDERED FOR A CHARGE ORDER.

11. THE CONTRACTOR SHALL PROVIDE MEETING MEASUREMENTS REGULATIONS AND PROVIDE ALL NECESSARY structural BRACING REINFORCEMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE CONSTRUCTION, BEFORE ANY WALLS, OPENINGS, OR STRUCTURAL WORK IN THIS PROJECT, UNLESS OTHERWISE INDICATED IN THE KEY NOTES. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS.

12. THE CONTRACTOR SHALL MATCH THE BUILDING EXISTING HARDWARE. ALL LOCKSHEETS SHALL BE MATCHED. IN MOST CASES THE UNIVERSITY OF KENTUCKY PREFER TO INSTALL A SINGLE LEVER ARMED LOCKSHEET AT THE END OF EACH HALLWAY. ALL DOOR HARDWARE MUST MATCH THE EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF THE KEYWAY'S CONDITION. ANY ITEM NOT IDENTIFIED BEFORE THE AWARD IS CONSIDERED PART OF THIS CONTRACT AND WILL NOT BE CONSIDERED FOR A CHARGE ORDER.

13. THE CONTRACTOR SHALL PROVIDE MEETING MEASUREMENTS REGULATIONS AND PROVIDE ALL NECESSARY structural BRACING REINFORCEMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE CONSTRUCTION, BEFORE ANY WALLS, OPENINGS, OR STRUCTURAL WORK IN THIS PROJECT, UNLESS OTHERWISE INDICATED IN THE KEY NOTES. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS.

14. THE CONTRACTOR SHALL PROVIDE MEETING MEASUREMENTS REGULATIONS AND PROVIDE ALL NECESSARY structural BRACING REINFORCEMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE CONSTRUCTION, BEFORE ANY WALLS, OPENINGS, OR STRUCTURAL WORK IN THIS PROJECT, UNLESS OTHERWISE INDICATED IN THE KEY NOTES. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS.

15. THE CONTRACTOR SHALL PROVIDE MEETING MEASUREMENTS REGULATIONS AND PROVIDE ALL NECESSARY structural BRACING REINFORCEMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE CONSTRUCTION, BEFORE ANY WALLS, OPENINGS, OR STRUCTURAL WORK IN THIS PROJECT, UNLESS OTHERWISE INDICATED IN THE KEY NOTES. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS.

16. THE CONTRACTOR SHALL PROVIDE MEETING MEASUREMENTS REGULATIONS AND PROVIDE ALL NECESSARY structural BRACING REINFORCEMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE CONSTRUCTION, BEFORE ANY WALLS, OPENINGS, OR STRUCTURAL WORK IN THIS PROJECT, UNLESS OTHERWISE INDICATED IN THE KEY NOTES. THE CONTRACTOR(S) MAY, AT THEIR OWN EXPENSE, VISIT THE UNIVERSITY OF KENTUCKY CAMPUS TO CONFIRM THE EXISTING CONDITIONS.
Door and Frame Types

- All new fire rated doors will also require rated door frames with same rating as door. And if applicable, must have wire mesh fire rated glazing.
- All existing doors, to remain in place or relocated (in this space) will be patched, sanded, prepared and refinished to match the existing building.

Glass Panel: To match existing

- New 12 solid core wood veneer door

Door Types

1

- 1

Notes:

1) Repair all floor, wall, and ceiling damaged due to hazardous material mitigation as required for installation of new finish application.
2) Level existing slab-floor and clean surface prior to installing new flooring.
3) New ceiling to be installed with an electronic level at the height indicated above. If equipment does not allow for the ceiling to be installed at this height, notify the University of Kentucky construction manager.
4) Patch all holes associated with the removal of any pipes, fixtures, partitions, etc. and sand smooth for new finishes.
5) Refer to finishes below for colors and materials.
6) Sand, scrape, prepare and paint all previously painted pipes, radiators, steel cohes, brackets, etc. to match new finish colors.

Door and Frame Schedules

Room Finish Schedule

<table>
<thead>
<tr>
<th>Room Name</th>
<th>Base</th>
<th>Floor</th>
<th>Walls</th>
<th>Ceiling</th>
<th>Hgt. Clg.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>S303</td>
<td></td>
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<tr>
<td>S303</td>
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<tr>
<td>S310</td>
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Notes:

- Field verify pipe and duct location to determine the and conflict with the designed ceiling heights.

Finishes:

- Ceiling tile in wet areas: Armstrong or equal
- Ceiling tile: Style - Kitchen zone, 24" x 24"
- Color - White
- Ceiling grid: Style - 15/16" Prelude or 15/16" Prelude XL Fire Guard
- Wall base: Area: #100
- Color - Black
- Trim paint: Sheen: Matt
- Color - Match existing

Hardware Sets

<table>
<thead>
<tr>
<th>Hardware Set</th>
<th>Type</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>3EA Hinges</td>
<td></td>
<td>A01320030</td>
</tr>
<tr>
<td>1EA Lockset</td>
<td></td>
<td>P04 LEVER X 630</td>
</tr>
<tr>
<td>1EA Closer</td>
<td></td>
<td>G0203 X 689</td>
</tr>
<tr>
<td>1EA Wall Stop</td>
<td></td>
<td>L02101</td>
</tr>
<tr>
<td>3EA Sliders</td>
<td></td>
<td>G02011</td>
</tr>
<tr>
<td>2EA Kick Plate</td>
<td></td>
<td>J102 10'3&quot;X2'X630</td>
</tr>
</tbody>
</table>

Hardware Notes:

All hardware above is ANSI grade 1 and all exit devices will be based on Von Duprin or equal, and all closers will be based on LCN or equal.

The cores for this project are removable cores that will be provided and installed by the University of Kentucky Key Shop. It is the contractors responsibility to provide lock sets with the correct cylinders to receive university specified removable cores. University cores vary from building to building and it is the contractors responsibility to match the cylinders to the existing cores and all ordered lock sets. Shop drawings will be rejected immediately if coordination with the UK key shop is not on the submittal. Format and keying will also be determined by the University of Kentucky key shop prior to ordering the hardware for this project.

This design is based on mortised latches with levers handles and independent lock sets, typically or unless otherwise noted. All hardware should match this or be an approved equal.

See General Notes on Sheet A-001 for UK standards and additional keying information.
1. EXISTING SINK.
2. CASEWORK VENDOR TO SUPPLY AND INSTALL NEW FRONT PANEL AND EPOXY TOP.
3. PREPARE AND REFINISH ALL WOOD CASEWORK. SEE FINISH SCHEDULE ON SHEET A-002 FOR ADDITIONAL INFORMATION.
4. EXISTING BIO-SAFETY HOOD. PROTECT IN PLACE.
5. RELOCATE EXISTING SECTION OF CASEWORK FROM 306A DOORWAY TO THIS LOCATION.
6. RAISE EXISTING SHELVING TO ABOVE DOOR.
7. INSTALL NEW DOOR IN EXISTING FRAME. SEE DOOR AND HARDWARE SCHEDULE ON SHEET A-002.
8. NEW CASEWORK PROVIDED AND INSTALLED BY CASEWORK VENDOR (N.I.C.). CONTRACTOR TO MAKE ALL UTILITIES CONNECTIONS. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
9. NEW ADA HEIGHT TABLE PROVIDED AND INSTALLED BY CASEWORK VENDOR, (N.I.C). CONTRACTOR TO MAKE ALL UTILITIES CONNECTIONS. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. USER FURNISHED REFRIGERATOR, (N.I.C.).
13. INSTALL NEW EMERGENCY SHOWER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
14. PATCH AND REPAIR FLOOR AS REQUIRED TO INSTALL NEW FLOORING
15. INSTALL NEW FLOORING AND 4" VINYL COVE BASE. REFER TO SHEET A-002 FOR FINISH SCHEDULE.
16. INSTALL 4" VINYL COVE BASE AT TOE-KICKS OF NEW BENCHES AND COUNTERS.
17. SAND, PRIME AND PAINT (2 COATS) ALL WALLS AND TRIM.
18. INSTALL NEW 2'X2' CEILING GRID AND DROP-IN ACOUSTIC CEILING TILES. SEE FINISH SCHEDULE ON SHEET A-002 FOR ADDITIONAL INFORMATION.
19. EXISTING FUME HOOD RELOCATED BY CASEWORK VENDOR, (N.I.C.). CONTRACTOR TO INSTALL PIPING AND DUCTWORK AND MAKE ALL UTILITIES CONNECTIONS. SEE PLUMBING AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
20. INSTALL NEW LED LIGHTING. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
21. INSTALL NEW SUPPLY AND RETURN DIFFUSERS AND GRILLS. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
22. EXISTING EQUIPMENT.
23. CONTRACTOR TO INSTALL BLOCKING FOR ALL NEW CASEWORK AND CABINETS. SEE CASEWORK SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
24. REVERSE SWING OF DOOR TO S304 ANTE ROOM TO POSITION SHOWN. COPY ROOM S320 (USE PIANO HINGE).
25. MOVE KEYPAD FROM ROOM S306 AND INSTALL ON S304.
26. MOVE LOCKSET FROM ROOM S304 AND INSTALL ON S306.
27. ADD SPRINKLER HEAD.
28. INFILL DOOR FRAME WITH 1/2" METAL STUDS, 2 TYPE-X GYPSUM BOARD, EACH SIDE, AND 3" SOUND BATT INSULATION WITH A LEVEL 4 FINISH, PRIMED AND PAINTED (2 COATS).
GENERAL NOTES

A. CONTRACTOR WILL FIELD-VERIFY ALL EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ANY WORK RELATING TO THOSE CONDITIONS IS PERFORMED.

B. PROVIDE AND INSTALL ALL EQUIPMENT AND ACCESSORIES AS INDICATED, IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER’S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH PROJECT PLAN AND SPECIFICATION REQUIREMENTS.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND COMMUNICATIONS INSTALLATION REQUIRED FOR A FULLY FUNCTIONAL CONTROL SYSTEM AS INDICATED ON PLANS.

D. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL REQUIRED CONNECTIONS FOR A COMPLETE SYSTEM.

E. DEMOLITION MARKS ARE APPROXIMATE. CONTRACTOR TO FIELD-VERIFY ACTUAL CONDITIONS PRIOR TO DEMOLITION.

F. CONTRACTOR WILL PROVIDE ALL MISCELLANEOUS STEEL TO SUPPORT ALL MECHANICAL, DUCT AND PIPING SYSTEMS AND EQUIPMENT. HANG ALL EQUIPMENT FROM STRUCTURE WITH MINIMUM OF TWO TRAPEZE ASSEMBLIES OR FOUR INTEGRAL MOUNTING POINTS WITH VIBRATION ISOLATORS ON ALL FOUR SUPPORTS. DO NOT HANG ANYTHING FROM MECHANICAL OR ELECTRICAL ITEMS.

G. NO STEEL STRUCTURAL MEMBERS WILL BE CUT, BURNT, WELDED OR DRILLED WITHOUT SPECIFIC PERMISSION OF THE ENGINEER.

H. ALL EQUIPMENT, ACCESSORIES, PIPING, WIRING, DUCT AND OTHER WORK, WHICH IS INSTALLED IN FINISHED SPACES WILL BE CONCEALED IN WAlLS, FLOORS, FURNITURE OR SUSPENDED CEILINGS, EXCEPT FOR INDICATED TERMINAL UNITS, CONTROLS, AIR FATS AND OUTLETS, AS SHOWN.

I. ALL DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS FOR SHOP OR FIELD-FABRICATED DUCT AND NOMINAL SIZES FOR FACTORY FABRICATED DUCT.

J. FOR TYPICAL WATER, REFRIGERANT AND AIR CONNECTIONS TO EQUIPMENT, CONSULT STANDARD DETAILS.

K. COORDINATE ALL PIPING AND DUCTWORK WITH BOTH NEW AND EXISTING MECHANICAL, DUCT AND ELECTRICAL WORK, INCLUDING HVAC, PLUMBING, ELECTRICAL, FIRE ALARM, SIREN, FIRE, SMOKE DETECTORS, COMMUNICATIONS AND EXTERIOR UTILITIES.

L. CONSULT ARCHITECTURAL REFLECTED CEILING PLAN FOR PLACEMENT OF AIR TERMINALS. COORDINATE WITH MECHANICAL WORK AND WORK OF OTHER TRADES.

M. ALL NEW SUPPLY AND RETURN DUCTWORK SHALL BE GALVANIZED STEEL, NO LIGHTER THAN 24-GAUGE. ALL WORK MUST COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS.

N. SEE DETAIL, SHEET M-400, FOR UNIVERSITY EXHAUST DUCT CONSTRUCTION REQUIREMENTS.

O. EXHAUST DUCT MATERIAL SHALL BE 18-GAUGE, MINIMUM TYPE 304 STAINLESS STEEL, WELDED CONSTRUCTION.

P. ALL DUCT ELBOWS SHALL BE LONG-RADIUS TYPE. ALL SQUARE ELBOWS SHALL HAVE TURNING VANS. SQUARE NECK RADIUS-BACK ELBOWS ARE NOT ALLOWED.

Q. PROVIDE 1.5 LB DENSITY, R-5, 1.5-IN THICKNESS, ALUMINIZED KRAFT PAPER-BACKED EXTERNAL FIBERGLASS INSULATION ON ALL SUPPLY AIR DUCTWORK. SEAL ALL NEW DUCTWORK JOINTS WITH WATER-BASED DUCT SEALANT. DUCT INSULATION JOINTS IS UNACCEPTABLE EXCEPT WHERE APPROVED IN ADVANCE BY PROJECT ENGINEER.

R. PROVIDE MANUAL DAMPERS IN ALL SUPPLY AND EXHAUST BRANCHES CONTAINING GRILLS, REGISTERS OR DIFFUSERS WHETHER SHOWN ON PLANS OR NOT AND PROVIDE DAMPERS IN RETURNS WHERE SHOWN. PROVIDE ADJUSTABLE TAKE-OFF FITTINGS WITH GROOVED IN AEI OF MANUAL DAMPERS FOR ALL ROUND TAKE-OFFS FROM RECTANGULAR MAINS OR PLENUMS. DAMPERS IN DUCT DO NOT REPLACE DAMPERS SPECIFIED AS PART OF THE AIR TERMINAL ASSEMBLY OR VICE VERSA.

S. USE TURNING VANS, PER SMACNA CONSTRUCTION GUIDELINES, FOR ALL METERED RECTANGULAR TURNS OF 45 DEGREES OR MORE.

T. CONTRACTOR WILL MAKE TRANSITIONS FROM ROUND TO RECTANGULAR AND BACK ON LOW PRESSURE DUCT AND OFFSET AS REQUIRED, WITH ENGINEER’S APPROVAL, WHERE OBSTRUCTIONS OR OTHER DUCT REQUIRE MODIFICATIONS TO THE PIPES.

U. CONTRACTOR WILL MAKE MINOR OFFSETS AND LOCATION CHANGES IN PIPE AND DUCT AND IN DUCT ASPECT RATIO AS REQUIRED IN CONGESTED CEILING OR MECHANICAL SPACES.

V. PROVIDE CERTIFIED AIR TEST AND BALANCE REPORT BY AN INDEPENDENT NEICES OR ACCREDITED CONTRACTOR. AIR BALANCE SHALL INCLUDE ALL NEW SUPPLY DUCTS, BRANCH DUCTS, DIFFUSERS, REGISTERS, GRILLES, AND NEW FUME HOOD.

W. LAB FUME HOOD PERFORMANCE SHALL BE TESTED BY A UNIVERSITY-APPROVED, INDEPENDENT CONTRACTOR PER ASHRAE 110 REQUIREMENTS. TAG CONTRACTOR MUST BE PRESENT DURING TESTING TO MAKE ANY AIRFLOW ADJUSTMENTS DURING PROCEDURE.

X. THERMOSTATS SHALL BE MOUNTED 6 FT F.

Y. DURING CONSTRUCTION, ALL OPEN DUCTS SHOULD BE SEALED.

Z. ALL ITEMS VISIBLE THROUGH RETURN AIR GRILLES SHALL BE PAINTED BLACK.

SEQUENCES OF OPERATIONS

A. FIRE CONTROLS FOR THIS PROJECT SHALL BE STAND-ALONE. ALL CONTROLLERS, ACTUATORS, SENSORS, CONTROL PANELS,阻碍 TING, PANELS, AND WIRING SHALL BE PROVIDED AS NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM, CAPABLE OF STAND-ALONE OPERATION.

B. SUPPLY AIR EXISTING.

C. HOT WATER REHEAT COIL (EXISTING).

D. THIS SECTION APPLIES WHEN HOT WATER HEATING SERVICE IS AVAILABLE IN THE BUILDING ON A FALL IN ROOM TEMPERATURE BELOW SETPOINT. CONTINUE DELIVERING THE SCHEDULED MINIMUM AIR FLOW AND, INCREASE THE HOT WATER HEAT OUTPUT PROPORTIONALLY UNTIL THE OCCUPIED HEATING SETPOINT HAS BEEN ACHIEVED.

E. 534 FUME HOOD.

F. THE 534 FUME HOOD IS A CONSTANT VOLUME SYSTEM. CONNECTED TO EXHAUST FAN AS-4-2E. THIS CONSTANT VOLUME FAN RUNS CONTINUOUSLY AND IS MONITORED AND CONTROLLED BY THE CAMPUS EEMS.

DESIGN BASIS

- **THERMOSTAT**
  - **SPACE TEMPERATURE**
  - **HUMIDITY**
  - **COOLING THERMOSTAT WIRE**
  - **DAMPER**
  - **EQUIPMENT TAG**
  - **Sheet Calloout**

- **THERMOSTAT**
  - **SPACE TEMPERATURE**
  - **HUMIDITY**
  - **COOLING THERMOSTAT WIRE**
  - **DAMPER**
  - **EQUIPMENT TAG**
  - **Sheet Calloout**

- **RECTANGLE DUCT UP**
- **RECTANGLE DUCT DOWN**
- **ROUND DUCT UP**
- **ROUND DUCT DOWN**
- **FLEXIBLE DUCT**
- **MOTORIZED DAMPER**
- **RECTANGLE DUCT TAP-IN**
- **ROUND DUCT TAP-IN**
- **FIRE DAMPER**
- **HOT WATER SUPPLY PIPE (EXISTING)**
- **HOT WATER RETURN PIPE (EXISTING)**
- **HOT WATER SUPPLY PIPE (NEW)**
- **HOT WATER RETURN PIPE (NEW)**

NOTES:
- **NEW AIR DATA FROM 2009 ASHRAE FUNDAMENTALS HANDBOOK DATA FOR LEXINGTON, KY.**
- **WINTER TEMPERATURE (99%)**
  - 89.3° F
- **SUMMER TEMPERATURE (1%)**
  - 55 % RH
GENERAL NOTES
A. SEE SHEET M-001 FOR MECHANICAL GENERAL NOTES AND LEGEND.
B. WHERE REQUIRED, REMOVE DISCONNECTED PNEUMATIC CONTROL AIR LINES BACK TO MAINS. TERMINATE ENDS WITH BRASS PLUGS. SEAL AIR TIGHT.
C. EXISTING THERMOSTAT TO REMAIN IN USE.

SHEET NOTES
1. REMOVE EXISTING SUPPLY DIFFUSER. CLEAN SUPPLY DUCT BACK TO AD INCLUDING REHEAT COIL. BEFORE AND AFTER PHOTOS OF THE DUCT INTERIOR AND REHEAT COIL ARE REQUIRED. PROVIDE AND INSTALL PRICE 10FF PERFORATED FILTER DIFFUSER, 24"x24", WITH 18"x18" NECK (OR APPROVED EQUAL).
2. CLEAN EXISTING RETURN GRILLE.
3. REMOVE OBSOLETE CONTROL DAMPER. REPLACE WITH NEW DUCT SECTION, SIZED TO MATCH EXISTING.
4. REMOVE EXISTING SUPPLY DIFFUSERS AND DUCTWORK BACK TO ACCESS DOOR AFTER REHEAT COILS. CLEAN DUCTWORK AND REHEAT COILS BEFORE AND AFTER PHOTOS OF THE REHEAT COILS ARE REQUIRED.
5. REMOVE RETURN GRILLE AND DUCTWORK BACK TO MAIN. CAP AND SEAL AIR TIGHT.
6. REMOVE ROUND DUCTWORK FROM BOTTOM OF SQUARE DUCT. PATCH AND INSULATE REMAINING HOLE.
7. REMOVE RETURN GRILLE AND DUCTWORK BACK TO 15" DIAMETER DUCT AND CAP REMAINING 10" DIAMETER DUCT.

NEW FUME HOOD
10"Ø
16"Ø
14"Ø
20"Ø

NEW WORK PLAN
M-133 SCALE: 3/16" = 1'-0"
### AIR DEVICE SCHEDULE

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<td>1</td>
<td>SUPPLY</td>
<td>175</td>
<td>0.06</td>
<td>6</td>
<td>24</td>
<td>24</td>
<td>6</td>
<td>4-WAY</td>
<td>-</td>
<td>AL</td>
<td>1,3</td>
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<tr>
<td>B</td>
<td>2</td>
<td>EXHAUST</td>
<td>640</td>
<td>0.07</td>
<td>-</td>
<td>16</td>
<td>16</td>
<td>-</td>
<td>23</td>
<td>LAY-IN</td>
<td>AL</td>
<td>2,3</td>
<td>-</td>
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**TYPE:**
1. SQUARE PERFORATED FILTER DIFFUSER
2. EGGCRATE RETURN GRILLE, 1/2" X 1/2" X 1"
3. 45° DEFLECTION

**REMARKS:**
1. BASIS OF DESIGN: PRICE 10FF SERIES
2. BASIS OF DESIGN: PRICE 85 SERIES
3. FINISH: POWDERED-COATED, COLOR WHITE

**ACCESSORIES:**
- NOTE: FLEXIBLE DUCT SHALL BE A FACTORY-FABRICATED ASSEMBLY CONSISTING OF AN ALL STEEL OR ALUMINUM MATERIAL. PLASTIC WITH SPIRAL WIRE FLEXIBLE DUCT IS NOT PERMITTED.
A. CONTRACTOR WILL FIELD-VERIFY ALL EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ANY WORK RELATED TO THOSE CONDITIONS IS PERFORMED.

B. PROVIDE AND INSTALL ALL EQUIPMENT AND ACCESSORIES AS INDICATED, IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURERS’ WRITTEN INSTALLATION INSTRUCTIONS. A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH PROJECT PLAN AND SPECIFICATION REQUIREMENTS.

C. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO KENTUCKY PLUMBING CODE AND FAYETTE COUNTY HEALTH DEPARTMENT.

D. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED INSPECTIONS, PAY ALL APPLICABLE FEES, ETC. ASSOCIATED WITH INSTALLATION.

E. NO WORK SHALL BE UNDONE UNTIL THE CONTRACTOR RECEIVES APPROVED PLUMBING DRAWINGS FROM THE KENTUCKY DIVISION OF PLUMBING. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KY DIVISION OF PLUMBING AND, OR THE DIVISION OF DRINKING WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.

F. SOL, WASTE, & VENT PIPE SHALL BE CAST IRON NO HUB 301-72 ABOVE GRADE, MECHANICAL JOINTS W.S.S. CLAMPS BELOW GRADE. ABOVE GRADE SOLID AND WASTE PIPE CAN BE DNV COPPER WITH LEAD-FREE SOLDER JOINTS. ABOVE GRADE SOLID AND WASTE PIPE CAN BE PVC WITH LEAD-FREE SOLDER JOINTS.

G. PIPE HANGERS AND SUPPORTS SHALL BE FACTORY FABRICATED ACCORDING TO MISS SP-55 AND SHALL BE INSTALLED FOR MIS-65. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL REQUIRED FOR SUPPORTS AND HANGERS. DO NOT HANG ANYTHING FROM MECHANICAL OR ELECTRICAL ITEMS.

H. PROVIDE WATER HAMMER ARRESTATORS ON COLD WATER LINES TO ALL NEW FIXTURES PER POL STANDARD WH-201.

1. ALL EQUIPMENT, ACCESORIES, PIPING, WIRING, AND OTHER WORK WHICH IS INSTALLED IN FINISHED SPACES WILL BE CONCEALED IN WALLS, FLOORS, CEILINGS, OR SUSPENDED CEILINGS.

J. PROVIDE ANY ACCESS DOORS - WHETHER OR NOT SHOWN ON PLANS - NECESSARY FOR ACCESS TO CONCEALED EQUIPMENT, VALVES, JUNCTION BOXES, CONTROLS OR OTHER OPERATIONAL OR SERVICEABLE ITEMS, UNLESS ITEM IS REASONABLY ACCESSIBLE THROUGH OUT-OF-PLANE PANELS.

K. DO NOT CHANGE PATH OF PIPING RUNS. ADD TURNS OR OFFSETS OR CHANGE PIPE SIZE WITHOUT FIRST CONSULTING THE ENGINEER. PIPE SIZES SHOWN ON DRAWINGS ARE NORMAL, UNLESS OTHERWISE INDICATED.

L. ISOLATION VALVES SHALL BE PROVIDED AT ALL BRANCH TAKE-OFFS FROM SYSTEM MAINS AND RISERS AND RETURN TO SYSTEM.

M. COORDINATE ALL PIPING WITH BOTH NEW AND EXISTING MECHANICAL AND ELECTRICAL WORK, INCLUDING HVAC, PLUMBING, ELECTRICAL, FIRE ALARMS, SPRINKLERS, COMMUNICATIONS, AND EXTERIOR UTILITIES.

N. PLUMBING CONTRACTOR SHALL INSTALL ALL SOL & WASTE PIPING WITH A MIN. SLOPE OF 1/8" PER FOOT UNTIL OTHERWISE REQUIRED BY THE STATE OR LOCAL AUTHORITATIVE AUTHORITY.

O. LEAK-TEST, FLUSH AND DISINFECT ALL NEW PIPING SYSTEMS PRIOR TO ACTIVATION IN ACCORDANCE WITH LOCAL CODE.

P. CONTRACTOR SHALL SEAL PENETRATIONS THROUGH RATED WALLS AND FLOORS WITH APPROVED FIRE SEALANT.

Q. PIPE PENETRATIONS THROUGH NON-RATED WALLS AND FLOORS SHALL BE SEALED AIR TIGHT.

R. FITTINGS AND JOINTS SHALL BE 1/2" MIN. FIBERGLASS INSULATION WITH ALL SERVICE JACKET ON ALL HOT & COLD WATER LINES.

S. INSTALL PIPE LABELS AND DIRECTIONAL ARROWS ON ALL NEW PIPING PER UNIVERSITY STANDARD 23003.

T. SOL, WASTE, & VENT PIPE SHALL BE CAST IRON NO HUB 301-72 ABOVE GRADE, MECHANICAL JOINTS W.S.S. CLAMPS BELOW GRADE.

U. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.

V. EXISTING PIPE TO REMAIN IN PLACE AND IS SHOWN FOR COORDINATION PURPOSES.

W. CLEAN AND VERIFY CONDITION OF ALL PIPE THAT IS TO REMAIN IN USE.

X. SAUCUT EXISTING FLOOR SLAB AS REQUIRED TO INSTALL NEW PIPE.

Y. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR FINISH.

---

**DEIONIZED WATER SYSTEM SPECIFICATIONS**

Deionized water systems shall be designed to provide a minimum 1 megohm system unless otherwise noted by the University Representative.

**Piping Joints, Fittings and Unions**

Pipe, fittings, accessories, and valves manufactured of polyvinyl chloride (PVC), gray standard, schedule 80, manufactured specifically for deionized water systems, are acceptable. All other pipe, fittings, and valves shall be made of approved material in accordance with applicable codes and standards.

**Valves**

Valves shall be provided for flow control and pressure relief. Valves shall be shut-off, reduced pressure zone, or backflow preventers as required.

**SysteM Cleaning**

All system piping, valves, and related equipment shall be cleaned before use. Minimum requirements for cleaning procedures are:

1. Alcohoh detergent and 30 percent hydrogen peroxide cleaning agents.
2. 1 percent potassium permanganate testing solution.
3. The decarbonizer equipment may be used for cleaning the piping system.

---

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2. 1 percent potassium permanganate testing solution.
3. The decarbonizer equipment may be used for cleaning the piping system.
1. DEMO ACID WASTE SANITARY PIPE AND DOMESTIC HOT WATER PIPE TO UNDERNEATH FLOOR AND CAP. PATCH REMAINING HOLES IN FLOOR.
2. DEMO GAS PIPE TO UNDERNEATH FLOOR AND CAP. PATCH REMAINING HOLES IN FLOOR.
3. DEMO ACID WASTE SANITARY PIPE, DOMESTIC HOT WATER, DOMESTIC COLD WATER, AND DEIONIZED WATER TO UNDERNEATH FLOOR AND CAP. PATCH REMAINING HOLES IN FLOOR.
4. DEMO GAS PIPE TO UNDERNEATH FLOOR AND CAP UNTIL READY TO INSTALL NEW GAS PIPE TO NEW HOOD. PATCH REMAINING HOLE IN FLOOR.
5. CONNECT "3" DOMESTIC HOT WATER PIPE TO EXISTING "3" "DOMESTIC HOT WATER PIPE.
6. DEMO EMERGENCY SHOWER AND PULL CHAIN. CAP REMAINING PIPE UNTIL READY TO CONNECT TO NEW EMERGENCY SHOWER.
7. VACUUM PUMP (BY OTHERS).
8. PROVIDE AND INSTALL GUARDIAN G3222 EYEWASH/DRENCH HOSE UNIT, DECK MOUNTED, WITH GUARDIAN G3600 THERMOSTATIC MIXING VALVE. APPROVED MIXING VALVE TO BE SUPPLIED BY PLUMBING CONTRACTOR.
9. PROVIDE AND INSTALL GUARDIAN G3850 THERMOSTATIC MIXING VALVE FOR EMERGENCY SHOWER.
10. EMERGENCY SHOWER. PROVIDED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. CLEAN AND REPAINT.
11. CONNECT NEW AIR PIPE, AND GAS PIPE TO EXISTING PIPE LOCATED IN ROOM S306.
12. CONNECT NEW 2" GAS PIPE AND NEW 2" VACUUM PIPE TO NOZZLES IN FUME HOOD. NOZZLES AND VALVES SHALL BE INSTALLED BY PLUMBING CONTRACTOR.
13. DEMO EXISTING GAS PIPE TO ABOVE CEILING AND CAP.
14. NEW SINK SUPPLIED BY OTHERS. CONTRACTOR TO INSTALL AND MAKE UTILITY CONNECTIONS.
15. TEE UP TO VALVES ON COUNTERTOPS. TEE DOWN THROUGH FLOOR BEHIND CABINETS. ROUTE UNDER FLOOR (ABOVE SECOND FLOOR CEILING) AND BACK UP THROUGH FLOOR TO VALVES ON ISLANDS AND COUNTERTOP.
NOTES:
1. TYPICAL FOR NON-INSULATED PIPE AND CONDUIT.
2. ALL CAULKING AND SEALANT SHALL BE FIRE RATED (SEE SPECIFICATIONS).
3. WHERE PIPING IS EXPOSED AT FINISHED WALLS, FLUSH MOUNT SLEEVE AND PROVIDE AN ESCUTCHEON PLATE.

PIPE PENETRATION THRU INTERIOR WALL DETAIL

1. SCH 40 GALV STEEL, SLEEVE SECURED TO PARTITION.
2. PIPE WITH OR WITHOUT INSULATION, CHROME ESCUTCHEON.
3. "SLIP-IN" SLEEVE.

PIECE ANNUAL SPACE BETWEEN PIPE AND SLEEVE WITH THUNDERLINE "LINK-SEAL" OR EQUAL.

PIPE PENETRATION THRU CONCRETE SLAB DETAIL

2. SCALE: NONE

NOTES:
1. TYPICAL FOR NON-INSULATED PIPE AND CONDUIT.
2. FOR FLOOR PENETRATIONS WITH FIRE RATING GREATER THAN (1) HOUR, USE THUNDERLINE "PYRO-PAC" SEALS OR EQUAL.
3. WHERE PIPING IS EXPOSED AT FINISHED FLOORS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.

SINK ACID WASTE PIPING DETAIL

3. SCALE: NONE

NOTES:
1. TYPICAL FOR NON-INSULATED PIPE AND CONDUIT.
2. ALL CAULKING AND SEALANT SHALL BE FIRE RATED (SEE SPECIFICATIONS).
3. WHERE PIPING IS EXPOSED AT FINISHED WALLS, FLUSH MOUNT SLEEVE AND PROVIDE AN ESCUTCHEON PLATE.
GENERAL NOTES
A. SEE SHEET A-001 FOR ARCHITECTURAL GENERAL NOTES AND LEGEND.
B. SEE SHEET E-001 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
C. SEE SHEET M-001 FOR MECHANICAL GENERAL NOTES AND LEGEND.
D. SEE SHEET P-001 FOR PLUMBING GENERAL NOTES AND LEGEND.

SHEET NOTES
1. REMOVE LIGHT FIXTURES AND ASSOCIATED WIRING, CONDUIT, ETC.
2. REMOVE RECEPTACLES, SWITCHES, COMM. OUTLETS, ETC. BOXES, CONDUIT, WIRING, ETC. WHERE INDICATED OR WHERE WALLS WILL BE REMOVED.
3. REMOVE PANELBOARD, CONDUIT, AND WIRING. PANEL T-308 IS FED FROM PANEL P-3A LOCATED IN RM. E-303.
4. REMOVE RECEPTACLE ON SIDE OF ISLAND. REMOVE CONDUIT AND WIRING TO BELOW FLOOR. PATCH FLOOR.
5. REMOVE POWER POLE, CONDUIT, AND WIRING.
6. REMOVE DISCONNECT SHUT, CONDUIT, AND WIRING.

AREA OF WORK

KEY PLAN

ED-133 SCALE: 3/16" = 1'-0"
A. GENERAL CONTRACTOR SHALL COORDINATE ALL WORK WITH ELECTRICAL CONTRACTOR.
B. CONTRACTOR SHALL INVESTIGATE PROJECT CONDITIONS THOROUGHLY PRIOR TO BID, QUOTE, OR CONSTRUCTION AND NOTIFY PROJECT MANAGER OF ANY DISCREPANCIES BETWEEN THE PROJECT DOCUMENTS AND EXISTING CONDITIONS.
C. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL INSPECTIONS. INSPECTION REPORTS AND CERTIFICATES SHALL BE PROVIDED TO U.K. CONSTRUCTION MANAGER.
D. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE A COPY OF ROC/FIRE ALARM CERTIFICATE TO U.K. PROJECT MANAGER UPON COMPLETION OF PROJECT.
E. PROVIDE ALL NECESSARY STRUCTURAL SUPPORT, BRACING, ETC. FOR NEW CONDUIT, BOXES, LIGHT FIXTURES, ETC. AS REQUIRED BY ALL APPLICABLE CODES.
F. CONTRACTOR TO REMOVE ANY UNUSED CONDUIT, WALL BOXES, ETC.
G. PATCH, PAINT, OR OTHERWISE RESTORE ANY FINISHES AFFECTED BY DEMOLITION OR RELOCATION OF ELECTRICAL DEVICES, FIXTURES, ETC.
These Superior Laboratory System, Inc. drawings are intended to represent the lab casework and equipment we are providing, for review and comment by the appropriate entities. Use of these drawings and the information contained within, for any other purpose, is at the user's risk. These drawings and the information contained within are of an advisory nature only, and may be used as a guide by others to effect appropriate locations within the casework assemmbles for roughing-in the required services, at the user's risk. These drawings and information presented do not constitute any responsibility by Superior Laboratory System, Inc. for their accuracy in relationship to the contract documents. In addition, these drawings, and the information contained therein, are of a preliminary nature, and have NOT been submitted or approved. As such Superior Laboratory Systems, Inc. will NOT be held liable, nor be responsible for, any future changes to the work by others, needed to effect correction of the rough-ins, or final connections, to the services contained within the casework.
PARTIAL FLOOR PLAN

SCALE 1:10

DATE: 10/17/18
BY: JR

REVISION: 

DRAWING STATUS

PRELIMINARY NOT FOR CONSTRUCTION
FOR SUBMITTAL AND APPROVAL
FINAL DISTRIBUTION AND INSTALLATION

PROJECT:
UNIVERSITY OF KENTUCKY
AGRICULTURE NORTH BUILDING
LAB RENOVATION
ROOMS #S308
1100 SOUTH LIMESTONE,
LEXINGTON KY, 40506

AUTHORIZED DISTRIBUTOR:
Superior Laboratory Systems, Inc.
AN AMERICAN INDIAN COMPANY
908 EAST RIDGE DR. SUITE E
LEBANON, OHIO 45036
PHONE: 513.934.3979
FAX: 513.934.3879

DRAWN BY:
JR
DRAWING NO.:
32

SCALE: 1/"="2'-0"

SHEET NO.:
FPD1 of 1

PROJECT NO.:
311

X

REMOVE SERVICE CHASE, ADD VAC. PUMP CAB.
NOTE TO ELECTRICAL CONTRACTOR:
VSP Units provided & installed by SLS. Electrical contractor to provide GFI breakers to service panel to all VSP outlets & make all final connections.

NOTE TO PLUMBING CONTRACTOR:
VSP service valves & socket fittings provided by SLS. Plumbing contractor to install & make all final connections.

1 TYPICAL VSP DETAIL - STYLE "A"
(3) assemblies required

2 TYPICAL VSP DETAIL - STYLE "B"
(3) assemblies required

DRAWING STATUS

DATE
10/10/18
PROJECT NO.
311

PROJECT:
UNIVERSITY OF KENTUCKY
AGRICULTURE NORTH BUILDING
LAB RENOVATION
ROOMS #308
1100 SOUTH LIMESTONE,
LEXINGTON, KY 40506

Scale 1
Drawing No.
71/2" x 11"
Sheet No.
DE01 of 1

Authorized Distributor:
Superior Laboratory Systems, Inc.
AN AMERICAN INDIAN COMPANY
905 EAST RIDGE DR. SUITE E
LEBANON, OHIO 45036
PHONE: 513.934.3979
FAX: 513.934.3879
## SIGN-IN SHEET

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<td>Matt Spalding</td>
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<td>2. Parsons Electric Inc.</td>
<td>Mike Mitchell</td>
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<td>Shane Coomer</td>
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<td>Damon Edwards</td>
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<td>9. Finney Meck</td>
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