

Date Bids Due 8/26/2015		Time of Bid Opening 1:00 PM	Bid Opening Location 800 Lincoln Way, Ames, IA	
Proposal Number 14811	Description Variable Volume Hood Control Systems			
Contract to Begin	Date of Completion	Proposal Guaranty Amount \$0.00		Liquidated Damages \$0.00
Purchasing Agent Jean Gustafson	E-Mail Address jean.gustafson@dot.iowa.gov	Phone 515-239-1173		Fax 515-239-1538
Company Name			Federal Tax ID	
Street Address		City	State	Zip Code
Supplier Contact (type or print)	E-Mail Address	Phone	Fax	
Supplier agrees to sell items/services at the same prices under the same terms and conditions to any other state agency, Regent or Political Subdivision upon request. Please check Yes or No. <input type="checkbox"/> YES <input type="checkbox"/> NO			Are you a Iowa Targeted Small Business? <input type="checkbox"/> YES <input type="checkbox"/> NO	

GENERAL INFORMATION/PROPOSAL STATEMENT

The entire contents of this Proposal, Addendums to the Proposal, Specifications, Supplemental Terms and Conditions, Standard Terms and Conditions, and Schedule of Prices shall become part of the contract or purchase order. **Faxed or e-mail bids will be accepted.**

We certify that all materials, equipment and/or services proposed meet or exceed the specifications and will be supplied in accordance with the entire contents of this proposal including delivery schedules.

Standard Terms and Conditions for Quotations

Acceptance/Rejection: The State of Iowa reserves the right to accept or reject any or all bids and to waive irregularities or technicalities, provided such waiver does not substantially change the offer or provide a competitive advantage to any vendor, in the judgment of the Iowa DOT. The Iowa DOT also reserves the right to accept that bid which is deemed to be in the best interests of the state. Any unauthorized changes, additions, or conditional bids including any ties to another bid or proposal or any reservations about accepting an award or entering into a contract, may result in rejection of the bid.

Method of Award: Award shall be made to the lowest responsible, responsive bidder unless otherwise specified. By virtue of statutory authority preference will be given to products and provisions grown and coal produced within the State of Iowa.

Contracts: Successful contractor(s) may be sent either a formal Contract or a purchase order. The contractor may not assign the contract to another party without written authorization from the Office of Procurement and Distribution.

Pricing and Discount: Unit prices shown on the documents shall be quoted as the price per unit (e.g., gal., case, each, etc.) as stated on the request. If there is a discrepancy between the unit bid prices, extension, or total amount of bid, the unit prices shall prevail. Unless otherwise indicated, prices shall be firm for the duration of the contract or purchase. Discounts for early payment are allowed, but not considered in award of the contract.

Signed: _____ **Date:** _____



Schedule Of Prices

Number	14811
Date Required	08/26/2015 1:00 PM

Title Variable Volume Hood Control Systems
Delivery Location AMES, IA 50010
Shipping Terms FOB Destination/Freight Prepaid

Vendor
 PA Name Jean Gustafson
 Phone 515-239-1173
 E-Mail jean.gustafson@dot.iowa.gov

Description

Product Availability Days: _____

Price Good Until: _____

Item	Qty	Unit	Description	Part #	Unit Price	Total Price
1	1	LUMP	VARIABLE VOLUME FUME HOOD CONTROL SYSTEMS Per attached specificaitons TSI or alternative brands will be evaluated. Part #: FHC50			

Comments:

I HEREBY CERTIFY THAT THIS PROPOSAL MEETS OR EXCEEDS THE MINIMUM REQUIREMENT INCLUDING SPECIFICATIONS AND ADDENDUMS.

Signature: _____ Date: _____



**Iowa Department of Transportation
Standard Terms and Conditions For
Bid Proposals/Contracts
-FORMAL-**

Formal is the procurement process required by Iowa law when the estimated, aggregate amount of the purchase equals or exceeds \$50,000.

The entire contents of this bid proposal shall become a part of a contract or purchase order. In case of a discrepancy between the contents of the bid documents, the following items listed by descending order shall prevail:

- Addendums to the bid proposal
- Bid Proposal-
- Schedule of Prices
- Specifications
- Plans and Drawings
- Supplemental Terms and Conditions
- Standard Terms and Conditions

(Example - if a statement in the specifications contradicts a statement in the Standard Terms and Conditions, the statement in the specifications shall apply)

Preparation of Bid Response: All bid responses must address all aspects of the proposal including clearly answering all questions within the proposal. Bid responses must be typed or completed in ink and submitted on the forms supplied by the Iowa DOT.

Bid responses must be signed and received prior to the bid opening date and time as indicated on the Bid Response cover page or bid opportunity. The signed, submitted quotation or bidder's proposal shall become the official bid response to be considered for award.

No email, fax or web link bid responses will be accepted. Bid Responses must be signed, sealed and delivered in person or by a mail courier that ensures timely delivery.

A. Bid Proposal

1. **Bid Opening:** Bid openings are made public and conducted at the Iowa DOT, Ames complex unless otherwise specified. Bid responses received after the time of the bid opening will be returned unopened and considered non-compliant.
2. **Communications:** Questions concerning this proposal should be directed to the purchasing agent listed on the bid proposal. Inquiries can be written, phoned, or faxed. In all cases, written communication will take precedence over verbal communication
3. **Proposal Guarantee:** If required, the bid response page will indicate the amount required to be included in the bid response. A Proposal Guarantee can be supplied in one of the following ways: **(1)** Certified check or credit union certified share draft, cashier's check, or bank draft, drawn on a solvent bank or credit union. Certified checks and certified share drafts shall be drawn and endorsed in the amount indicated. Checks or drafts shall be made payable either to the Iowa Department of Transportation (Iowa DOT) or to the bidder. If payable to the bidder, the check or draft shall be endorsed without qualifications to the Iowa DOT by the bidder or an authorized agent. **(2)** An insurance or surety company may be retained to provide a bond in fulfillment of the proposal guarantee requirement. A properly completed and signed copy of the Proposal Guarantee (*Form 131084*) must accompany the bid. **The Iowa DOT's Proposal Guarantee form must be used; no other forms or formats will be accepted.**
4. **Pricing and Discount:** Unit prices shown on the bid/response shall be quoted as the price per unit (e.g., gal., case, each, etc.) as stated in the bid proposal. If there is a discrepancy between the unit bid prices, extension, or total amount of bid, the unit prices shall prevail. Unless otherwise indicated, prices shall be firm for the duration of the contract or purchase. Discounts for early payment are allowed, but not considered in award of the contract.

5. **Acceptance/Rejection:** The Iowa DOT reserves the right to accept or reject any or all bids and to waive irregularities or technicalities, provided such waiver does not substantially change the offer or provide a competitive advantage to any supplier(s). The Iowa DOT also reserves the right to accept that bid which is deemed to be in the best interests of the state. Any unauthorized changes, additions, or conditional bids including any ties to another bid or proposal or any reservations about accepting an award or entering into a contract, may result in rejection of the bid. Bids must remain available for award for thirty (30) days from date of bid opening.
6. **Bid Results & Disclosure:** Bid tabulations will be posted on the DOT website at www.iowadot.gov/purchasing under the *Bid Award* link referencing the proposal number with an award recommendation indicated. At the conclusion of the selection process, the contents of all received bid responses will be placed in the public domain and be open to inspection by interested parties, according to state law. Trade secrets or proprietary information that are recognized as such and are protected by law may be withheld if clearly identified as such in the proposal.
7. **Quality:** All material shall be new and of first quality. Items which are used, demonstrators, refurbished, obsolete, seconds, or which have been discontinued are unacceptable without prior written approval by the Iowa DOT.
8. **Recycled Content:** The Iowa Code encourages purchase of products and materials with recycled content, including but not limited to paper products, oils, plastic products, compost materials, aggregate, solvents, and rubber products. Recycled items or alternatives must be noted in the bid response, if known.
9. **Shipping Terms:** Deliveries shall be F.O.B. Destination unless otherwise specified. All deliveries shall be accompanied by a packing slip indicating the Supplier, quantities shipped, and the purchase order number(s). All delivery charges shall be included in the bid price and paid by the Supplier. No collect C.O.D. deliveries shall be accepted. When entering into a contract, the Supplier shall notify the freight company that all freight and delivery charges are to be prepaid by the Supplier. Goods delivered to the Iowa DOT Distribution Center at 800 Lincoln Way, Ames, IA shall be received between the hours of 7:30 a.m. and 3:30 p.m. on any day except Saturday, Sunday, or a holiday. For deliveries to other Iowa DOT locations, the Supplier may contact the destination location for available times to deliver as not all Iowa DOT locations have the same business hours. The Iowa DOT will not be liable for any freight claims or unpaid freight bills arising from contract or purchase order issues.

B. Award

The binding agreement (award) may be issued in the form a purchase order or contract or both depending on the requirements and complexity of the agreement.

1. **Method of Award:** Award shall be made to the lowest responsible, responsive bidder whose bid meets the requirements of the solicitation and is the most advantageous to the Iowa DOT unless otherwise specified. An Iowa bidder will be given preference over an out-of-state bidder when bid responses are equal in all aspects and are tied in price. By virtue of statutory authority preference will be given to products and provisions grown and coal produced within the State of Iowa.
2. **Award Protests:** Protests of award recommendations are to be addressed to the Director of Purchasing, and shall be made in accordance with paragraph 761--20.4(6)"e" of the Iowa Administrative Code.
3. **Contracts:** Successful contractor(s) may be sent either a formal Contract, Notification of Award or purchase order as confirmation of acceptance and award. Any of these binding agreements shall be for the term stated in the bid proposal or on a purchase order and may be renewed for additional period(s) under the same terms and conditions upon mutual agreement as defined. The successful bidder may not assign a contract to another party without written authorization from the Iowa DOT Purchasing Section. A service contract, including all optional renewals, shall not exceed a term of six years unless a state agency obtains a waiver of this provision pursuant to rule 11-11B.16 (8A).
4. **Payment Terms:** The Iowa DOT typically pays properly submitted vendor invoices within thirty (30) days of receipt, providing goods and/or services have been successfully delivered, installed or inspected (if required), and accepted. Invoices presented for payment must be only for quantities received by the Iowa DOT and must reference the purchase order number to be submitted for processing.

5. **Default:** Failure of the Supplier to adhere to specified delivery schedules or to promptly replace rejected materials shall render the Supplier liable for all costs in excess of the bid price when alternate procurement is necessary. This shall not be the exclusive remedy and the Iowa DOT reserves the right to pursue other remedies available to it by law or under the terms of the binding agreement.
6. **Default:** Failure of a Contractor other than a Supplier to meet any specified project completion deadline shall render the Contractor liable for all costs incurred by DOT that were: a) necessary to meet said deadline; or b) necessary to complete said project after said deadline. This shall not be the exclusive remedy and the Iowa DOT reserves the right to pursue other remedies available to it by law or under the terms of the agreement.

C. General

1. **Administrative Rules:** For Additional details on the rules governing the actions of the Iowa DOT Purchasing Section, refer to 761 IAC, Chapter 20, Iowa Administrative Code, entitled "Procurement of Equipment, Materials, Supplies and Services".
2. **Affirmative Action:** The Contractor (and also subcontractor, vendor or supplier) is prohibited from engaging in discriminatory employment practices forbidden by federal and state law, executive orders and rules of the Iowa Department of Management, pertaining to equal employment opportunity and affirmative action. Contractor may be required to have on file a copy of their affirmative action program, containing goal and time specifications. Contractors doing business with Iowa in excess of \$5,000 annually and employing 50 or more full time employees may be required to file with the Iowa Department of Management a copy of their affirmative action plan. Failure to fulfill these non-discrimination requirements may cause the contract to be canceled and the contractor declared ineligible for future state contracts or subject to other sanctions as provided by law or rule.
3. **Applicable Law:** The contract shall be governed under the laws of the State of Iowa. The contractor shall at all times comply with and observe all federal and state laws, local laws, ordinances, and regulations which are in effect during the period of a contract and which in any manner affect the work or its conduct. Any legal action relating to a contract shall only be commenced in the Story County, Iowa, District Court or the United States District Court for the Southern District of Iowa.
4. **Conflict of Interest:** No state or county official or employee, elective or appointive shall be directly or indirectly interested in any contract issued by the Iowa DOT, see Code of Iowa 314.2.
5. **Debarment and Vendor Suspension:** By submitting a proposal, the contractor is certifying that it and its principals and/or subcontractors are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by the State of Iowa or any Federal department or agency.
6. **Equal Opportunity:** Firms submitting bids must be an "Equal Opportunity Employer" as defined in the Civil Rights Act of 1964 and in Iowa Executive Order Number Thirty-four.
7. **Infringement:** Goods shall be delivered free of the rightful claim of any third party by way of infringement. Contractor shall indemnify and save harmless the State of Iowa and the Iowa DOT against all claims for infringement of, and/or royalties claimed under, patents or copyrights on materials and equipment furnished under this bid.
8. **Records Audit:** The contractor agrees that the Auditor of the State of Iowa or any authorized representative of the state, and where federal funds are involved, the Comptroller General of the U.S. Government, shall have access to and the right to examine, audit, excerpt, and transcribe any directly pertinent books, documents, papers, and records of the contractor relating to orders, invoices, or payments of a contract or purchase order.
9. **Targeted Small Businesses:** The Iowa DOT seeks to provide opportunities for women and/or minority small business enterprises. To apply for certification as an Iowa Targeted Small Business, contact the Iowa Department of Inspection and Appeals (515-281-5796). Contractors shall take documented steps to encourage participation from Targeted Small Businesses for the purpose of subcontracting and supplying of good or services or both.
10. **Taxes:** Prices quoted shall not include state or federal taxes from which the state is exempt. Exemption certificates will be furnished upon request.
11. **Termination:**
 - **Termination Due to Lack of Funds or Change in Law**

The Iowa DOT shall have the right to terminate this Contract without penalty by giving thirty (30) days written notice to the vendor as a result of any of the following:

 - Adequate funds are not appropriated or granted to allow the Iowa DOT to operate as required and to fulfill its obligations under contract.
 - Funds are de-appropriated or not allocated or if funds needed by the Iowa DOT, at the

Iowa DOT's sole discretion, are insufficient for any reason.

- The Iowa DOT's authorization to operate is withdrawn or there is a material alteration in the programs administered by the Iowa DOT.
- The Iowa DOT's duties are substantially modified.

Following a 30 day written notice, the Iowa DOT may terminate a binding agreement in whole or in part without the payment of any penalty or incurring any further obligation to the Supplier. Following termination upon notice, the Supplier shall be entitled to compensation upon submission of invoices and proper proof of claim for goods and services under contract up to and including the date of termination.

**Iowa Department of Transportation
General Requirements
Proposal No.: 14811
Variable Volume Hood Control Systems
Letting Date: August 26, 2015 1:00 PM**

LOCATION OF PROJECT:

Iowa Department of Transportation,
Materials Bituminous & Physico Labs located at 800 Lincoln Way, Ames, IA 50010.

SCOPE OF WORK:

Vendor to provide equipment (per specifications attached), perform system start-up and demonstration, training and service person to be available for service calls. See attached drawings for hood layout. Hoods will start to be installed around November 25, 2015 and control systems will be installed shortly after.

Vendor Responsibilities:

- All questions in regards to this proposal should be directed to the Purchasing Agent listed on the Bid Response page.
- Control Systems will need to be delivered by November 20, 2015.
- The awarded vendor or a factory-authorized representative shall perform system start-up. Start-up shall include calibration of fume hood controllers mounted on fume hoods and a demonstration that they meet the operational requirements.
- The awarded vendor or a factory-authorized representative shall provide 2 hours of training for DOT building personnel.
- The awarded vendor shall have a service person that can respond to a service calls within 4 to 5 hours when needed.
- Must be compatible with Johnson controls.

DOT Responsibilities:

- Iowa DOT will be do installation of these control systems.

Purchase Orders:

One purchase order will be issued.

Submitting Proposals:

Each proposal must be submitted in ink or typewritten and may be faxed (515-239-1538), e-mailed jean.gustafson@dot.iowa.gov or mailed to Jean Gustafson at The Iowa Department of Transportation, Purchasing Section, 800 Lincoln Way, Ames, Iowa 50010.

Bids shall be due on or before **1:00 P.M., August 26, 2015.**

Insurance Requirements

Contractor's Insurance

- It shall be the Contractor's responsibility to have liability insurance covering all of the project operations incident to contract completion and the Contractor(s) must have on file with the Contracting Authority a current "Certificate of Insurance" prior to award of contract. The certificate shall identify the insurance company firm name and address, contractor firm name, policy period, type of policy, limits of coverage, and scope of work covered (single contract or statewide). This requirement shall apply with equal force, whether the work is performed by persons employed directly by the Contractor(s) including a subcontractor, persons employed by a subcontractor(s), or by an independent contractor(s).
- In addition to the above, the Contracting Authority shall be included as an insured party, or a separate owner's protective policy shall be filed showing the Contracting Authority as an insured party.
- The liability insurance shall be written by an insurance company (or companies) qualified to do business in Iowa. For independent contractors engaged solely in the transportation of materials, the minimum coverage provided by such insurance shall be not less than that required by Chapter 325A, Code of Iowa, for such truck operators or contract carriers as defined therein. For all other contractors, subcontractors, independent contractors, and the Contracting Authority, the minimum coverage by such insurance shall be as follows:
 - Comprehensive General Liability including Contractual Liability;
 - Contingent Liability; Explosion, Collapse and Underground Drainage
 - Damage; Occurrence Basis Bodily Injury; Broad Form Personal Injury; Broad Form Property Damage.

Bodily Injury

The contractor will purchase and maintain throughout the term of this contract the follow minimum limits and coverage:

- Each person \$750,000
- Each accident/occurrence \$750,000
- Workers Compensation \$750,000
- Statutory Limits \$750,000
- Employer's liability \$750,000
- Pollution Liability \$750,000
- Occupation Disease \$750,000

Operations

- Property Damage \$250,000 each occurrence

Builders Risk Insurance:

- Each Contractor holding a valid contract with the Owner shall furnish and pay for builder's risk insurance, providing coverage for at least the following losses:

fire, extended coverage, vandalism and malicious damage to materials incorporated in the project, and materials purchased to be incorporated in the project, either stored on or off the permanent job site. If this insurance coverage is not provided, the Contractor shall assume all responsibility for the perils outlined above which may occur prior to project completion and acceptance.

- Failure on the part of the Contractor(s) to comply with the requirements of this Article will be considered sufficient cause to suspend the work, withhold estimates, and to deny the Contractor(s) any further contract awards, as provided in Article 1103.01.
- The Contractor(s) shall require all subcontractor(s) meet the above insurance requirements.

The Certificate of Insurance must include the following;

- **Iowa Department of Transportation must be listed as an additional insured**
- Proposal Number
- Proposal Description
- Letting Date and
- Contract Period

Variable Volume Fume Hood Control Systems Specifications

The bid shall cover all control systems for seven new fume hoods shown on attached hood plans.

Variable volume fume hood controller, velocity sensor(s), actuator assembly, transformer, and control wiring. Needs to include a two year limited parts and labor warranty for all parts provided and installation done.

Fume hood controller:

- The fume hood controller shall be able to monitor and control the measured face velocity of the fume hood independent of sash position and duct static pressure. The system shall continuously monitor face velocity to comply with the recommendation set forth in Appendix A of OSHA Regulation 29 CFR 1910.1450. The system shall also indicate the presence of airflow to comply with the NFPA 45 Standard.
- The controller shall be mounted on the front, right side of the hood readable for the hood operator.
- Spill proof, chemical resistant keypad.
- Display face velocity in feet per minute with a resolution of 1 foot per minute. The displayed velocity shall update at least every 0.1 seconds.
- Ability to set and adjust setback velocities from the key pad as well as remotely (password protected).
- Audible alarm which sounds during no airflow, low airflow alarm, and high airflow alarm. The audible. Ability to silence alarm at any time by pressing a "MUTE" key.
- During an alarm mode, the display shall indicate what type of alarm is annunciated. ie: high, low, or no flow.
- The fume hood controller shall have an emergency key which shall completely open that fume hood's damper (or variable speed drive) for maximum exhaust in the event of a spill.
- The fume hood controller shall have an RS-485 communications port, supporting BACnet' MS/TP protocol for seamless integration to building automation systems.
- Ability to input and modify the air velocity calibration from the keypad (password protected).
- All required passwords will be provided to the Iowa DOT as part of this contract.

Velocity Sensors:

- The velocity sensors shall be ceramic coated platinum RTD type and mounted in the inner fume hood wall to sense air velocity. It shall measure velocity with an accuracy of 5% at 100 FPM or better.
- For the five larger hoods, two velocity sensors are required; one on each side of the hood.
- Sash position sensors that empirically derive a face velocity are not an acceptable alternative to direct velocity measurement sensors.

Actuator Assembly:

- The plans for the seven hoods are attached. Design the actuator assemblies to fit the configurations.
- For the five larger hoods, two actuator assemblies are required; one above each side of the hood.
- Shall be round butterfly, to fit the ductwork (diameter). Damper material shall be at least 16 gauge 304 stainless steel. Pressure drop through a fully open damper shall be less than 0.1" in H₂O at 2000 FPM velocity.
- Round dampers shall have two factory-formed ridges to prevent binding. Dampers shall be flange-mounted with factory furnished companion rings.
- The damper shall have a factory-mounted electric actuator. The electric actuator shall have a stroke time of less than 1.5 seconds for a 90 degree rotation. A thermally-resettable fuse shall protect the motor from overload. Direct or reverse action shall be field-selectable.

PROJECT INFORMATION	SHIPPING / BILLING	WOJ INFORMATION	WOJ PROJECT DESIGNATION	REV.	DATE	REVISION DESCRIPTION	BY	PROJECT STATUS
ARCHITECT: GENERAL CONTRACTOR:	SHIPPING ADDRESS: IOWA DOT AMES DIST. CENTER RECEIVING 800 LINCOLN WAY AMES, IA 50010  SOLD TO: IOWA DOT OFFICE OF PURCHASING 800 LINCOLN WAY AMES, IA 50010	CUSTOMER PURCHASE ORDER NUMBER: MOTT MANUFACTURING ORDER NUMBER:	WOJ SALES REPRESENTATIVE: BRUCE HUNT WOJ PROJECT MANAGER: DRAWN BY: JMD					<input checked="" type="checkbox"/> PRELIMINARY DESIGN <input type="checkbox"/> SUBMITTED FOR APPROVAL <input type="checkbox"/> REVISED AND RESUBMITTED <input type="checkbox"/> VERIFIED DIMENSIONS <input type="checkbox"/> FABRICATION/INSTALLATION SET <input type="checkbox"/> FINAL RECORD SET

DRAWING INFORMATION

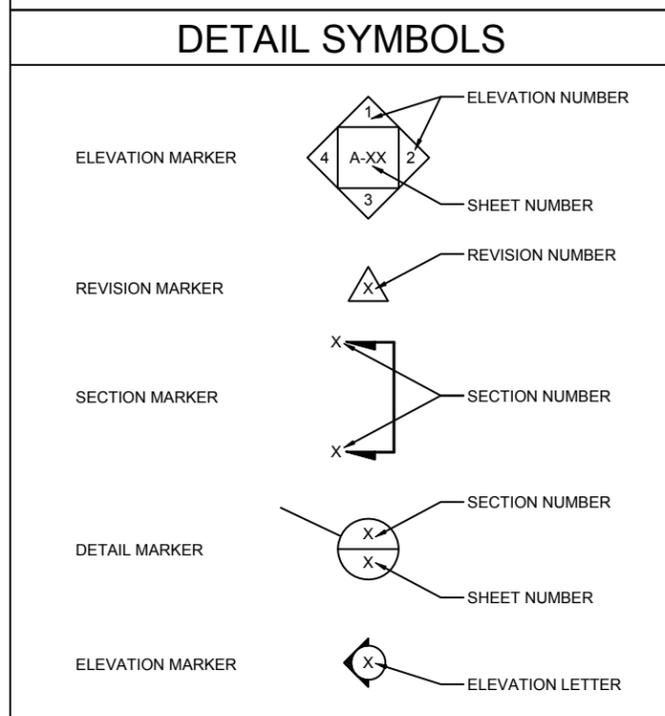
WYNN O. JONES & ASSOCIATES HAS PREPARED AND SUBMITTED THESE CASEWORK SHOP DRAWINGS FOR REVIEW, APPROVAL AND FABRICATION OF CASEWORK. THESE SHOP DRAWINGS REFLECT WYNN O. JONES & ASSOCIATES INTERPRETATION OF THE ARCHITECT / OWNER SUPPLIED DRAWINGS UTILIZING WYNN O. JONES & ASSOCIATES MODEL NUMBERS, SIZES AND CONFIGURATIONS.

THESE DRAWINGS CORRESPOND TO WYNN O. JONES & ASSOCIATES QUOTATION AS INDICATED ON CUSTOMER PURCHASE ORDER. WYNN O. JONES & ASSOCIATES RESERVES THE RIGHT TO ADJUST THE PURCHASE PRICE IN ACCORDANCE WITH ANY CHANGES OR MODIFICATIONS TO DRAWINGS.

ALL DRAWINGS PROVIDED BY WYNN O. JONES AND ASSOCIATES, INC. ARE ON LOAN SUBJECT TO RETURN UPON DEMAND AND UPON THE EXPRESSED CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTERESTS OF WYNN O. JONES AND ASSOCIATES, INC.

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
ARCH.	ARCHITECT
CL	CENTER LINE
COJ	CUT ON JOB
CTR.	CENTER
DIA.	DIAMETER
DIM.	DIMENSION
DWG.	DRAWING
ELEV.	ELEVATION
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
N.I.C.	NOT IN CONTRACT
O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED
P.C.	PLUMBING CONTRACTOR
P.LAM.	PLASTIC LAMINATE
REQ'D	REQUIRED
SPEC.	SPECIFICATION
S.S.	STAINLESS STEEL
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
HPL	HIGH PRESSURE LAMINATE

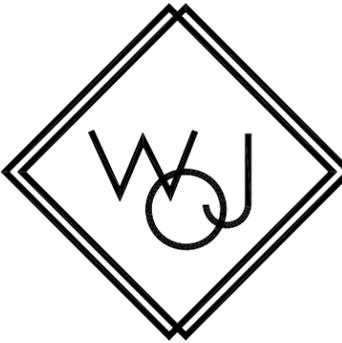
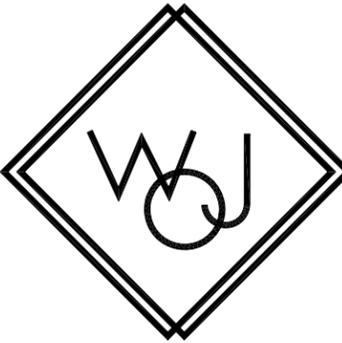


PROJECT NUMBER:

IOWA DOT BITUMINOUS & PHYSICO LAB AMES, IOWA

Wynn O. Jones & Associates, Inc.

P.O. BOX 318
754 ALDERSON STREET
SCHOFIELD, WI 54476
PHONENO. (715)-359-5196
FAX NO. (715)-355-5849
www.wynnjones.com

ARCHITECT APPROVAL

GENERAL CONTRACTOR APPROVAL

ARCHITECT NOTES

- REVIEW AND RESPOND TO ALL CLOUDED "ARCH / G.C. NOTE" LOCATED THROUGHOUT THE SUBMITTAL DRAWINGS.
- FINISHES ARE REQUIRED WHERE IT IS NOTED "TO BE SELECTED" ON THE GENERAL INFORMATION SHEETS. PLEASE PROVIDE SELECTIONS WITH THE RETURNED APPROVED SUBMITTAL PACKAGE.
- SAMPLES WILL BE PROVIDED AS NEEDED / REQUIRED PER THE PROJECT SPECIFICATION. IF OTHER SAMPLES ARE REQUIRED PLEASE CONTACT THE WYNN O. JONES & ASSOCIATES PROJECT MANAGEMENT TEAM.
- ALL CASEWORK SUBMITTAL DRAWINGS MUST BE RETURNED ALONG WITH AN EXPLANATION OF HOW TO PROCEED.

GENERAL CONTRACTOR NOTES

- REVIEW AND RESPOND TO ALL CLOUDED "ARCH / G.C. NOTE" LOCATED THROUGHOUT THE SUBMITTAL DRAWINGS.
- COORDINATE CASEWORK CONSTRUCTION / INSTALLATION WITH ALL OTHER SURROUNDING TRADES TO ALLOW FOR PROPER INSTALLATION OF CASEWORK, COUNTERTOPS AND ALL SERVICE FIXTURES.
- EXAMINE ALL LABORATORY FURNISHING PLANS AND COORDINATE WITH REFLECTED CEILING PLANS FOR PROPER CEILING HEIGHTS. COORDINATE WITH TRADES IF ADDED STRUCTURAL SUPPORT IS REQUIRED TO SUPPORT SERVICE CHASES OR OVERHEAD SERVICE CARRIERS.
- LOCATION OF FUME HOODS, OVERHEAD SERVICE CARRIERS, SERVICE CHASES OR ANY OTHER OBSTRUCTIONS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL OR MECHANICAL SYSTEMS MUST BE COORDINATED. IF DISCREPANCIES EXIST, NOTIFY AFFECTED TRADES PRIOR TO PROCEEDING WITH WORK.
- ALL CASEWORK SUBMITTAL DRAWINGS MUST BE RETURNED ALONG WITH AN EXPLANATION OF HOW TO PROCEED. PLEASE REFER TO THE SUBMITTAL LETTER FOR ADDITIONAL INFORMATION, THE SUBMITTAL LETTER IS INCLUDED WITH EACH SET OF DRAWINGS.

INSTALLATION NOTES

- AT WALL TO WALL CONDITIONS; FILLER PANELS, KNEESPACE PANELS AND RAILS MUST BE CUT DOWN TO FIT BUILDING CONDITIONS AS NEEDED ON THE JOB SITE BY CASEWORK INSTALLER.
- VERIFY RECEIPT OF ALL MATERIALS PER INSTALLATION DRAWINGS. CONTACT WYNN O. JONES AND ASSOCIATES, INC. WITH ANY INQUIRIES AS TO MISSING OR DAMAGED MATERIAL ON SITE PRIOR TO INSTALLATION.
- ALL DIMENSIONS NOTED AS "VERIFY" ON THE TOP AND ELEVATION DRAWINGS MUST BE FIELD VERIFIED BY INSTALLER/ G.C. OR REPRESENTATIVE OF WYNN O. JONES AND ASSOCIATES, INC. IF THE DIMENSIONS THAT ARE NOTED AS "VERIFY" ON THE DRAWINGS ARE TO BE HELD PER DRAWINGS SUCH WILL BE NOTED ON THE INSTALLATION DRAWINGS.
- MATERIAL THAT NEEDS TO BE FIELD CUT TO FIT ON THE JOB SITE WILL BE NOTED ON THE INSTALLATION DRAWINGS SUPPLIED BY WYNN O. JONES AND ASSOCIATES, INC. PRIOR TO INSTALLATION.
- CONFIRM PRIOR TO CASEWORK DELIVERY THAT INSTALLERS WILL HAVE UNOBSTRUCTED ACCESS TO AREAS REQUIRING MATERIAL SO THAT UNLOADING CAN BE DONE IN A TIMELY AND EFFORTLESS MANNER.
- CONFIRM ALL ROUGH-IN INFORMATION PRIOR TO CASEWORK INSTALLATION. ROUGH-IN AREAS MUST BE LAID OUT ACCURATELY REFLECTING THE FINAL DESIGN INTENT.
- ALL COUNTERTOP AND CURB / BACKSPLASH FACES AND EDGES THAT ARE ADJOINING THE BUILDING CONDITION NEED TO BE SEALED WITH SILICONE SEALANT PROVIDED BY THE INSTALLER.
- ALL INSTALLATION TOOLS, EQUIPMENT, FASTENING DEVICES, STRIPPING, BLOCKING, FURRING, AND COLOR FILL ARE ALL PROVIDED BY THE INSTALLER UNLESS NOTED OTHERWISE.

DRAWING INDEX

G-1 - GENERAL INFORMATION
A-1 - ELEVATION ITEMS 1-3
A-4 - ELEVATION ITEMS 2A & 3A

PRINT DATE: 4/22/15 DATE: 4/22/15

GENERAL INFORMATION

GENERAL NOTES

1. **CASEWORK CONSTRUCTION MANUFACTURER:** MOTT MANUFACTURING CABINETRY AND FUME HOODS.
2. **STANDARD CASEWORK PARAMETERS:**
 - A. BASE CABINET HEIGHTS: 28 3/4" (SITTING HT.), 31 3/4" (ADA HT.) AND 34 3/4" (STANDING HT.)
 - B. WALL CABINET HEIGHTS: 24", 30", 36" AND 48"
 - C. TALL CABINET HEIGHT: 84"
 - D. BASE CABINET DEPTHS: 22" (STANDARD) AND 18" (SPECIALTY CABINETS)
 - E. WALL CABINET DEPTHS: 14" AND 18"
 - F. TALL CABINET DEPTHS: 14", 18" AND 22"
3. **LEG SHOES:** BLACK PVC BY CASEWORK CONTRACTOR.
4. **BASE MOLDING:** PROVIDED BY OTHERS.
5. **PIPING / DRAINLINES / TRAPS / WIRING / CONDUIT:** PROVIDED BY OTHERS EXCEPT AT PRE-PIPED AND PRE-WIRED FUME HOODS AND SERVICES.
6. **DUCTWORK / TRANSITIONS:** PROVIDED BY OTHERS.

CASEWORK CONSTRUCTION

- | | |
|--|--|
| <p>BASE UNIT CONSTRUCTION</p> <input type="checkbox"/> INSET (STANDARD) <p>BASE UNIT MATERIAL</p> <input type="checkbox"/> PLAIN COLD ROLL STEEL (STANDARD) <p>DRAWER SLIDES</p> <input type="checkbox"/> N/A <p>HINGES</p> <input type="checkbox"/> 5-KNUCKLE STAINLESS STEEL (OPTION 23) <p>PULL LOCATION</p> <input type="checkbox"/> VERTICAL ON DOORS/HORIZ. ON DRAWERS (STD.) | <p>PULLS</p> <input type="checkbox"/> 4" STAINLESS STEEL WIRE PULL (OPTION 61) <p>CATCHES</p> NYLON ROLLER <p>LOCKS</p> <input type="checkbox"/> NONE <p>LABEL HOLDERS</p> <input type="checkbox"/> NONE <p>GLASS</p> <input type="checkbox"/> DUOLITE SAFETY @ HOODS |
|--|--|

FINISH SELECTIONS

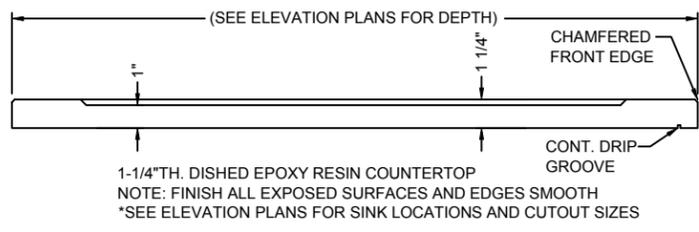
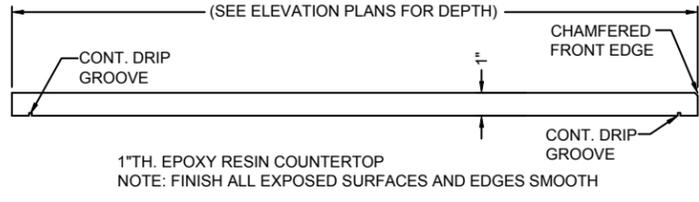
MATERIAL	SELECTION
STEEL CABINET SHELL (BASE)	COLOR TO BE SELECTED
STEEL CABINET DRS / DRAWERS (ACCENT)	COLOR TO BE SELECTED
FUME HOOD SUPER STRUCTURE (BASE)	COLOR TO BE SELECTED
FUME HOOD LOUVER PANELS (ACCENT)	COLOR TO BE SELECTED
FUME HOOD LINERS	WHITE FRP
FUME HOOD ELECTRICAL DEVICES	GRAY WITH BLACK FACEPLATES
FUME HOOD SERVICE FIXTURES	BRASS WITH EPOXY COATING
EPOXY RESIN COUNTERTOPS	BLACK
EPOXY RESIN CUPSINKS	BLACK
TOUCH-UP PAINT	MATCH COLOR SELECTED

LOCK SEQUENCE

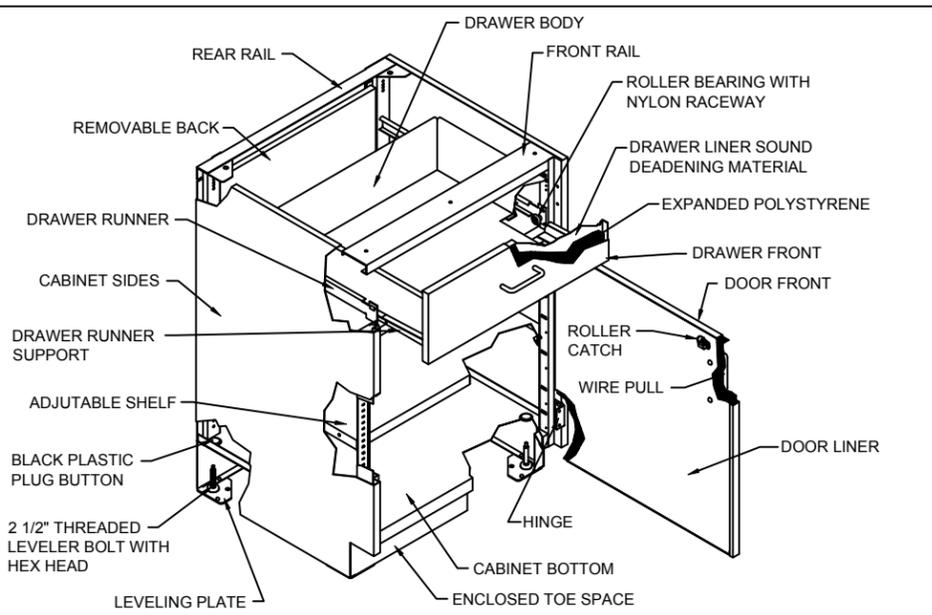
- | | |
|------------------------------------|-------------------------------------|
| NO LOCKS REQUIRED | <input checked="" type="checkbox"/> |
| KEY LOCKS DIFFERENT - 1 MASTER KEY | <input type="checkbox"/> |
| KEY LOCKS ALIKE - 1 MASTER KEY | <input type="checkbox"/> |
| KEY LOCKS BY ROOM - 1 MASTER KEY | <input type="checkbox"/> |

COUNTERTOP GENERAL NOTES AND DETAILS

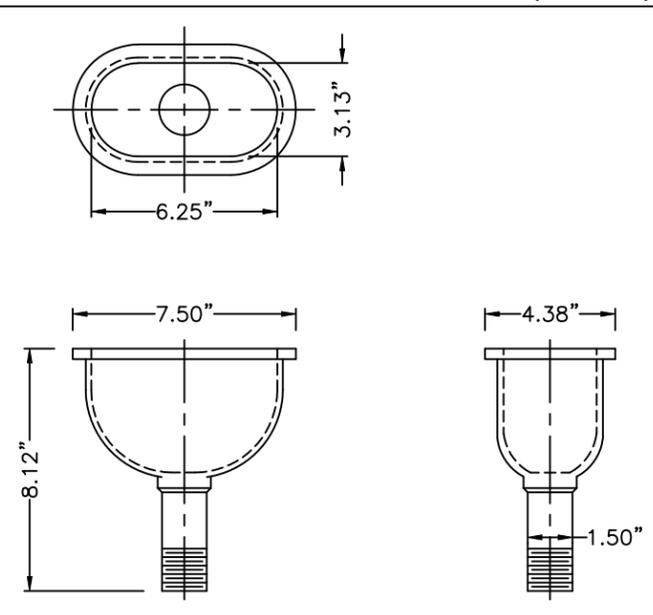
1. **STANDARD COUNTERTOP TOLERANCES (PER SEFA 3/1996):** CERTAIN BASIC MINIMUMS SHOULD BE MAINTAINED TO ENSURE THE COUNTERTOP FITS PROPERLY AND INDUSTRY WIDE STANDARDS ARE UPHELD. TOLERANCES RELATE TO PRODUCT ONLY, INSTALLATION STANDARDS SHOULD BE REVIEWED FOR FURTHER CLARIFICATION.
 1. OVERALL LENGTH, WIDTH AND THICKNESS $\pm 1/16"$ (1.587mm)
 2. FABRICATION CUTOUT TOLERANCES
 - A. LOCATIONS: $\pm 1/4"$ IF CRITICAL
 - B. SIZES OF THE FABRICATION CUTOUTS:
 - SINK CUTOUT SIZE: $\pm 1/8"$
 - CUPSINK CUTOUT SIZE: $\pm 1/8"$
 - ELECTRICAL BOX CUTOUT: $\pm 1/8"$
 - COLUMN CUTOUT: $+1/8"; -0$ (+1/4" IF COVERED BY AN APPLIED CURB)
 - SERVICE DRILLING SIZE: $+1/8"; -0$
2. **COUNTERTOP CONSTRUCTION:**
 - 1" THICK EPOXY RESIN TOP AND 4" BUTT STYLE CURB / SPLASH (ALL EXPOSED EDGES ARE TO BE FINISHED U.N.O).
 - 1 1/4" THICK DISHED EPOXY RESIN FUME HOOD (ALL EXPOSED EDGES ARE TO BE FINISHED U.N.O).
3. **COUNTERTOPS:** OVERHANG 1" AT OPEN ENDS AND 1" FROM THE FRONT OF BASE CABINETS AND TABLES. SINK AND SERVICE FIXTURE CUTOUTS PER SCHEDULES OR PER CATALOG CUTS SUPPLIED BY ARCHITECT OR GENERAL CONTRACTOR. COUNTERTOP SEAM LOCATIONS TO BE DETERMINED BY THE COUNTERTOP MANUFACTURER AT TIME OF FABRICATION U.N.O.
4. **SINK MATERIAL:** EPOXY RESIN WITH OUTLETS.
5. **SINK CUTOUTS:** ALL COUNTERTOP CUTOUTS FOR THE SINKS AND FIXTURES ARE TO BE FACTORY CUT BY COUNTERTOP MANUFACTURER U.N.O.
6. **SINK INSTALLATION:** ALL SINKS AND OUTLETS ARE TO BE INSTALLED AND SEALED BY CASEWORK CONTRACTOR AND CONNECTED BY PLUMBING CONTRACTOR.
7. **SERVICE FIXTURES:** PROVIDED BY CASEWORK CONTRACTOR, INSTALLED AND SEALED BY PLUMBING / ELECTRICAL CONTRACTORS.



GENERAL CABINET DETAIL



FUME HOOD CUPSINK DETAIL (CS4R)

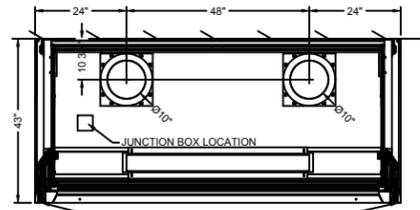


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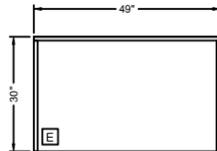
REV.	DATE	REVISION DESCRIPTION	BY

PROJECT NUMBER:
IOWA DOT
BITUMINOUS & PHYSICO LAB
 AMES, IOWA

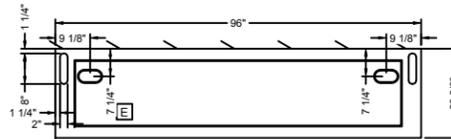
DRAWN BY: JMD	DATE: 4/22/15
PRINT DATE: 4/22/15	SHEET
SCALE: NTS	G-1



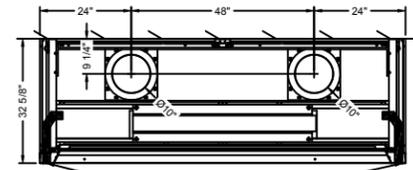
CORD FACILITATOR ABOVE ELECTRICAL (1) PER SIDE (#709077)



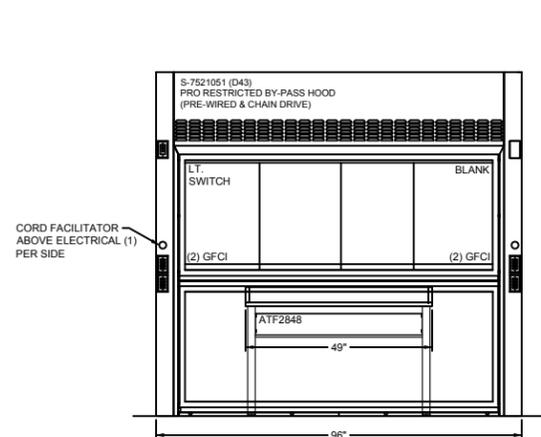
1"THK. EPOXY RESIN TABLE TOP W/ 4" SIDESPLASH AND BACKSPLASH (FINISH ALL EXPOSED EDGES & SURFACES) (QTY. 1)



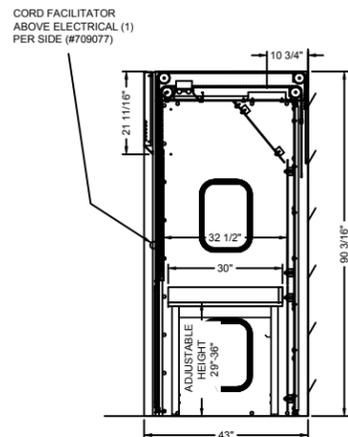
1-1/4"THK. DISHED EPOXY RESIN FUME HOOD TOP



CORD FACILITATOR ABOVE ELECTRICAL (1) PER SIDE (#709077)

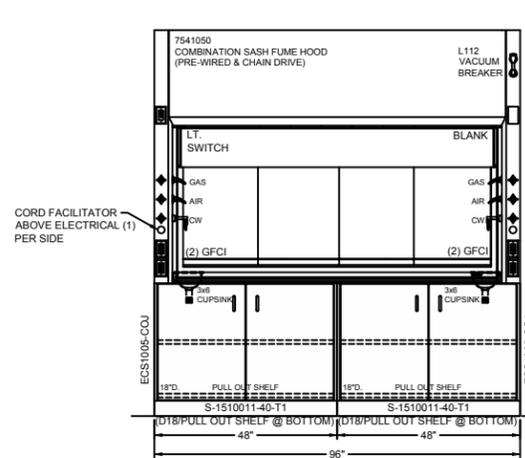


CORD FACILITATOR ABOVE ELECTRICAL (1) PER SIDE

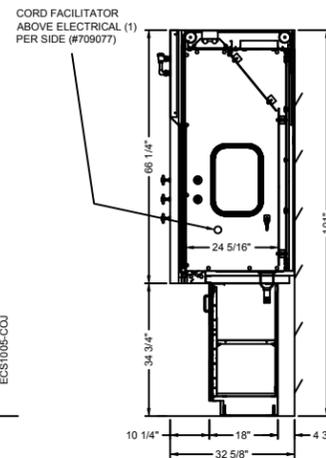


SECTION AT FUME HOOD

ADD ALTERNATE:
 (1) LATTICE RACK FOR AN 8'-0" HOOD
 (1) LATTICE RACK FOR A 6'-0" HOOD



CORD FACILITATOR ABOVE ELECTRICAL (1) PER SIDE



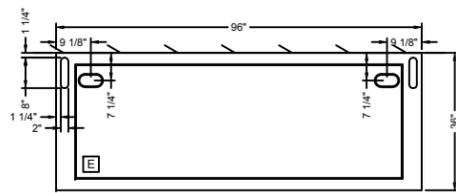
SECTION AT FUME HOOD

ITEM 1
 FUME HOOD ASSEMBLY - PHYSICO LAB
 RM#
 QTY- 1

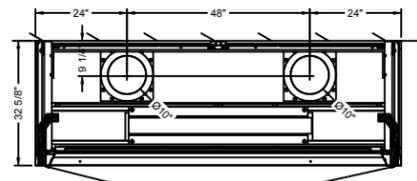
ARCH. ELEV.

ITEM 2
 FUME HOOD ASSEMBLY - PHYSICO LAB
 RM#
 QTY- 2

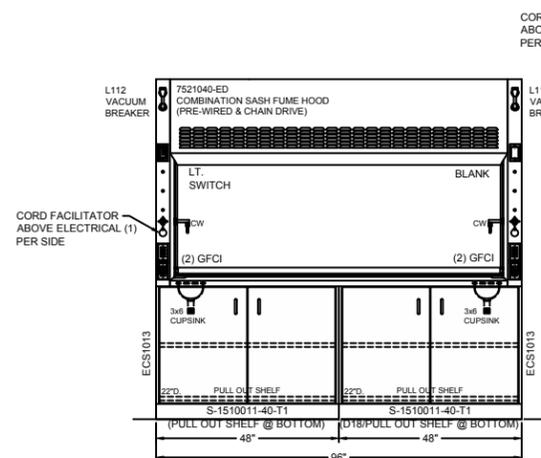
ARCH. ELEV.



1-1/4"THK. DISHED EPOXY RESIN FUME HOOD TOP

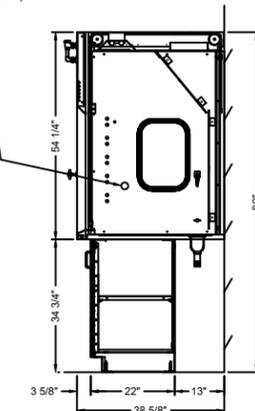


CORD FACILITATOR ABOVE ELECTRICAL (1) PER SIDE (#709077)



CORD FACILITATOR ABOVE ELECTRICAL (1) PER SIDE

CORD FACILITATOR ABOVE ELECTRICAL (1) PER SIDE (#709077)



SECTION AT FUME HOOD AT CUPSINK

ITEM 3
 FUME HOOD ASSEMBLY - BITUMINOUS LAB
 RM#
 QTY- 2

ARCH. ELEV.

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PROJECT NUMBER:
IOWA DOT
BITUMINOUS & PHYSICO LAB
AMES, IOWA

DRAWN BY: JMD	DATE: 4/22/15
PRINT DATE: 4/22/15	SHEET
SCALE: 1/2" = 1'-0"	A-1

