

**BOARD OF WATER AND SEWER
COMMISSIONERS OF THE CITY OF
MOBILE, ALABAMA**

**Williams WWTF Headworks MCC Bldg.
HVAC Replacement**

IFB 25-002

**McCRORY & WILLIAMS PROJECT NO.
M5712-2820**

McCrorry  **Williams**
INCORPORATED

3207 INTERNATIONAL DRIVE
SUITE G
MOBILE, ALABAMA 36606
(251) 476-4720
(251) 476-4721 fax
mobile@mcwinc.com

FEBRUARY 2025

Bid Set No. _____

**BOARD OF WATER AND SEWER COMMISSIONERS
OF THE CITY OF MOBILE, ALABAMA**

Proposal, Contract Documents and Specifications

**Williams WWTF Headworks MCC Bldg. HVAC
Replacement**

IFB 25-002

McCrorry and Williams Project No. M5712-2820

**McCRORY & WILLIAMS, INC.
3207 INTERNATIONAL DRIVE
SUITE G
MOBILE, ALABAMA 36606**

FEBRUARY 2025

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INVITATION FOR BID
February 11, 2025

INVITATION FOR BID NUMBER	25-002
NAME OF BID	Williams WWTF Headworks MCC Bldg. HVAC Replacement
MANDATORY PRE-BID MEETING	February 20, 2025 at 10:00 a.m., Local Time at the Williams WWTF at 1600 Yeend St, Mobile, AL 36603
BIDS WILL BE RECEIVED AT	MAWSS Bid Box Donaghey Business Entrance 4725A Moffett Road or PO Box 180249 Mobile, AL 36618
BID OPENING DATE	February 27, 2025
BID CLOSING TIME	10:30 am Central Time
AWARD WILL BE MADE BY	Total Base Bid or Total Base bid plus any combination of Additive Bid Items
ADDITIONAL INFORMATION CONTACT	Billy Wilkerson (251) 604-5840 wwilkerson@mcwinc.com
APPLICABLE SDP POLICY	17-01


Sealed bids must be in the Purchasing Department no later than the time specified in order to be considered. Submissions received after the deadline will not be considered. Envelopes must bear the name of the supplier, company address and the words "IFB 25-002 Williams WWTF Headworks MCC Bldg. HVAC Replacement" or "IFB 25-002 NO QUOTE." Facsimile or email bids will not be accepted.

All bids must be submitted on the attached forms or your bid will be disqualified. Bidders shall be listed as plan holders. Bidder shall furnish all the information required by the solicitation. The bidder's name must be typed or printed on the bid sheet, and signed by the bidder or appropriate authorized executive officer of the bidder's company. Bidders must initial any changes or erasures. Bidders should retain a copy of bids for their records.

Bidders shall acknowledge receipt of all addenda to this solicitation by signing and returning each addendum or by identifying the addendum number and the date on the bid form. Failure to acknowledge receipt of any addendum by a bidder will result in rejection of the bid if MAWSS determines that the addendum contains information that materially changes the requirements.

All bids shall be quoted FOB Destination, freight prepaid with no additional charges. Unless otherwise specified in the bid, all prices will be on a firm-fixed price basis and are not subject to adjustments based on costs incurred. MAWSS reserves the right to reject any or all bids submitted, to waive any informality in any bid or in the bid process, or to terminate the bid process at any time, if deemed by MAWSS to be in MAWSS's best interest.

A Purchase Order and this "Invitation for Bid" with "Specifications," "Conditions," "Bid Form," signed by the successful bidder's authorized representative, and all attached drawings and other documents furnished by MAWSS to the bidders with the Invitation for Bid in order to illustrate the contract requirements, will constitute a contract for the goods and/or services to be purchased.


Joyce Sawyer, Buyer II
Board of Water and Sewer Commissioners

**IFB 25-002 Williams WWTF
Headworks MCC Bldg. HVAC Replacement
CONDITIONS**

The Board of Water and Sewer Commissioners of the City of Mobile will accept bids in our Purchasing Department Bid Box located at 4725 Moffett Road Suite A, Mobile, AL 36618 **no later than 10:30 a.m.** local time on **February 27, 2025**, and then publicly opened and read, for furnishing all labor, materials, and performing all work for the following project: **Contract No. M5712-2780, Williams WWTF Headworks MCC Bldg. HVAC Replacement IFB 25-002**. Award will be by **Total Base Bid or Total Base bid plus any combination of Additive Bid Items**. The bidder offers and agrees, if this bid is accepted, to furnish the items as defined in the specifications for the unit price set opposite each item. Pricing shall be FOB Mobile, Alabama. All items shall be delivered to the job site as needed.

A **MANDATORY pre-bid conference** will be held at the Williams WWTF at 1600 Yeend St, Mobile, AL 36603 at **10:00 a.m.**, Local Time, on **February 20, 2025**. A tour of other MAWSS facilities will be required and a follow-up mandatory pre-bid meeting will be held related to existing equipment conditions.

A general contractors license is required if the total value of the bid submitted is over \$50k.

Bidder understands that his/her bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving bids. MAWSS shall not be committed to the purchase of a pre-established minimum quantity for any one item. All items provided shall be for commercial use and for the purposes reflected in the contract documents.

The Board reserves the right to reject any and all bids and to waive any informality in bids received.

A bidder may not modify its bid after bid opening. Errors in the extension of unit prices stated in a bid or in multiplication, division, addition or subtraction in a bid may be corrected by the MAWSS Purchasing Buyer prior to award. In such cases, unit prices shall not be changed.

It is the responsibility of the bidder to determine prior to the bid opening whether any amendment, additions, deletions or changes of any type have been made to this Invitation for Bid, Conditions, Specifications, Bid Form or any of the other bid documents. Bid documents and any amendments made to this bid will be posted on our website at www.mawss.com.

The bidders shall comply with the requirements outlined in the Board of Water and Sewer Commissioners, Policy No.: UBE/DBE 17-01, DISADVANTAGED BUSINESS ENTERPRISE POLICY FOR PUBLIC WORKS ACT CONTRACTS. Contractors are required to use Contractors/Suppliers only in the areas for which the Contractors/Suppliers are certified.

A copy of the SDP (Supplier Diversity Program) policy that applies to this Invitation For Bid can be furnished upon request. It is the responsibility of the bidder to read and make efforts to meet the goals of this policy. Please contact the Supplier Diversity Department at supplier.diversity@mawss.com for any questions regarding this policy. **Bidders MUST acknowledge receipt of this policy by submitting the SDP Policy Acknowledgement and the Subcontracting Plan/Good Faith Effort form with the bid proposal, regardless if using a Diverse Contractor/Supplier or not.**

A copy of the SDP (Supplier Diversity Program) policy that applies to this Invitation For Bid can be found on our website by clicking on the following link: [https://www.mawss.com/uploads/final---supplier-diversity-17-01---approved-1-7-21-\(updated-changes-2-3-2021\).pdf](https://www.mawss.com/uploads/final---supplier-diversity-17-01---approved-1-7-21-(updated-changes-2-3-2021).pdf).

Invoicing Requirements: On the vendor's invoice for payment should be a detailed listing of work performed, services provided, dates completed, locations involved and any other pertinent information needed to verify the work and/or services were completed in accordance to the bid specs. This additional information can be supplied in the form of detailed invoices, work orders, checklists or any other documents used to track the work performed or services provided but details must be included on the actual invoice. A copy of the invoice and these additional details must be sent to the "ADDITIONAL INFORMATION CONTACT" found on Page 1 of the bid documents and a copy emailed to Accounts Payable at AcctsPayable@mawss.com.

END OF CONDITIONS

PROPOSAL

**TO: BOARD OF WATER AND SEWER COMMISSIONERS OF THE CITY OF
MOBILE, ALABAMA**

Submitted: _____ (Date)

The undersigned, as Bidder, hereby declares that he has examined the site of the Work and informed himself fully in regard to all conditions pertaining to the place where the Work is to be done; that he has examined the Plans and Specifications for the Work and all Contract Documents relative thereto, and has read the Board's Standard Specifications and all General Conditions and Special Provisions furnished; and that he has satisfied himself relative to the Work to be performed.

The Bidder proposes and agrees, if this Proposal is accepted, to contract with the Board of Water and Sewer Commissioners of the City of Mobile, Alabama, in the form of contract specified to furnish all materials, equipment, machinery, tools, apparatus, permits, means of transportation and labor necessary to complete the following Work:

**Williams WWTF Headworks MCC Bldg. HVAC Replacement
Project No. M5712-2820 - IFB 25-002**

in full and complete accordance with the shown, noted, described and reasonably intended requirements of the Plans, Specifications and all other Contract Documents to the full and entire satisfaction of the Board of Water and Sewer Commissioners of the City of Mobile, Alabama with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and other Contract Documents for the lump sum or unit prices listed opposite each item.

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

The quantities for bid items listed on the Proposal sheet are estimated quantities only for the purpose of comparing bids. Any differences between these estimated quantities and actual quantities required for this Contract shall not be taken as a basis for claims by the Contractor for extra compensation. Compensation will be based on the lump sum or unit prices and actual construction quantities.

The Bidder further proposes and agrees hereby to commence the Work with an adequate force, plant and equipment at the time stated in the notice to the Contractor from the Engineers to proceed, and fully complete performance within duration specified in the scope of work and not to exceed July 31, 2025.

The undersigned further agrees that, in case of failure on his part to execute the said Contract and the bond within ten (10) consecutive calendar days after written notice being given of the award of the Contract, the check or bid bond in the amount of five (5) percent of this bid, not to exceed \$10,000, accompanying this bid, and the monies payable thereon, shall be paid into the funds of the Board of Water and Sewer Commissioners of the City of Mobile, Alabama as liquidated damages for such failure; otherwise the check or bid bond accompanying this Proposal shall be returned to the undersigned.

CONTRACTOR'S LICENSE No. _____

BASE BID

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT OF MEASURE</u>	<u>UNIT PRICE DOLLARS/CENT</u>	<u>TOTAL DOLLAR/CENTS</u>
1	Williams WWTF Headworks MCC Bldg. HVAC Replacement	LS		
2	Contingency Pay Item for Work of Similar Nature as Determined by the Owner	LS	\$7,500.00	\$7,500.00
Base Bid Total \$				

ADDITIVE BID ITEM

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT OF MEASURE</u>	<u>UNIT PRICE DOLLARS/CENT</u>	<u>TOTAL DOLLAR/CENTS</u>
1	Test and Inspect Building for Air Leaks	LS		
2	Emergency Alarm Horn and Light Tower	LS		
Additive Bid Item Total \$				

Company Name _____ Payment Terms _____

Address _____

City, State, Zip _____

Submitted By: _____ Title _____
Please Print

Phone _____ Email Address _____
Please Print

The signer declares under penalty of perjury that she/he is authorized to sign this document and bind the company or organization to all of the terms and conditions of this agreement.

Signature _____ Date _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
(Name of Bidder)

_____, as Principal,
(Address)

and _____
(Name of Surety)

of _____, as Surety,
(Address)

jointly and severally, hereby bind ourselves, our heirs, executors, administrators, successors, and assigns to the **Board of Water and Sewer Commissioners of the City of Mobile, Alabama**, as the Owner, in the **PENAL SUM of five percent (5%) of the amount of the Principal's bid, but in no event more than Ten Thousand Dollars (\$10,000.00).**

THE CONDITION OF THIS OBLIGATION is that the Principal has submitted to the Owner the attached bid, which is incorporated herein by reference, for the Project identified as:

Williams WWTF Headworks MCC Bldg. HVAC Replacement

Project No. M5712-2820/IFB 25-002

NOW, THEREFORE, if, within the terms of the Bid Documents, the Owner accepts the Principal's bid and the Principal thereafter either:

- (a) executes and delivers a Construction Contract with the required Contract and Labor and Material Bonds (each in the form contained in the Bid Documents and properly completed in accordance with the bid) and delivers evidence of insurance as prescribed in the Bid Documents, or
- (b) fails to execute and deliver such Construction Contract with such Bonds and evidence of insurance, but pays the Owner the difference, not to exceed the Penal Sum of this Bond, between the amount of the Principal's Bid and the larger amount for which the Owner may award a Construction Contract for the same Work to another bidder,

then, this obligation shall be null and void, otherwise it shall remain in full force and effect.

The Surety, for value received, hereby stipulates and agrees that the obligation of the Surety under this Bond shall not in any manner be impaired or affected by any extension of the time within which the Owner may accept the Principal's bid, and the Surety does hereby waive notice of any such extension.

SIGNED AND SEALED this _____ day of _____,

ATTEST:

PRINCIPAL:

ATTEST:

By _____
Name and Title

SURETY:

By _____
Name and Title

**IFB 25-002 Williams WWTF
Headworks MCC Bldg. HVAC Replacement
SDP POLICY ACKNOWLEDGEMENT***

A copy of the SDP (Supplier Diversity Program) policy that applies to this Invitation For Bid has been included in this package. It is the responsibility of the bidder to read and make efforts to meet the goals of this policy. Please contact the Supplier Diversity Department at supplier.diversity@mawss.com for any questions regarding this policy. **Bidders MUST acknowledge receipt of this policy and submit the documentation with the bid proposal.**

Bidders shall take all necessary and reasonable steps in accordance with this Policy to ensure that Diverse Contractors/Suppliers have the maximum allowable opportunity to compete for subcontracts and contracts for services, supplies, or other goods. Bidders shall not discriminate in awarding subcontracts and supplier contracts on the basis of race, color, national origin, ethnicity, or sex, during the bid process as well as during performance of a MAWSS contract.

The following documentation must be included in the bid proposal.

- SDP Policy Acknowledgement and
- Subcontracting Plan

Please refer to the attached policy for more information regarding these requirements as well as all other requirements, if participating in the SDP Program.

The signer declares under penalty of perjury that she/he is authorized to sign this document and bind the company or organization to the all of the requirements of this policy.

Company Name _____

Submitted By _____ Title _____

Please Print

Signature _____ Date _____

***Required to sign and return with bid**

**IFB 25-002 Williams WWTF
Headworks MCC Bldg. HVAC Replacement
SUBCONTRACTING PLAN/GOOD FAITH EFFORT***

In order for your proposal to be considered, must complete all blanks in this Subcontracting Plan and sign with a handwritten signature where indicated below and include this form in your proposal.

Failure to fill in the blanks on this Subcontracting Plan and/or to include a handwritten signature may cause for rejection of your bid.

It is MAWSS's goal that in all contracts, contractors shall make a demonstrated good faith effort to award 15% of the contract amount to certified Diverse Contractors/Suppliers as subcontractors and/or suppliers performing commercially useful functions which are consistent with contract requirements.

Copies of MAWSS SDP Policy 16-01 (for public works projects), SDP/Supplier Diversity Policy 17-01 (for contracts for other goods and services), MAWSS's list of certified Disadvantaged Business Enterprises (SDPs) / Diverse Suppliers, and lists of organizations that have information on SDPs/Diverse Suppliers are available from MAWSS's Supplier Diversity Office by emailing supplier.diversity@mawss.com.

STATE WHAT PERCENTAGE OF THE WORK FOR THIS CONTRACT YOU PLAN TO AWARD TO SDP/DIVERSE SUPPLIER SUBCONTRACTORS AND/OR VENDORS	TOTAL %
ESTIMATED TOTAL DOLLAR AMOUNT TO BE AWARDED TO SDP/DIVERSE SUPPLIER	TOTAL \$
AMOUNT BID FOR THIS CONTRACT	TOTAL \$

Please list below all subcontractors and suppliers which you plan to use for this contract. Also indicate which of these are SDPs / Diverse Suppliers by writing "Yes" or "No" where indicated. Also list for each the percentage of the total contract amount to be performed by each and the certification group the SDP / Diverse Supplier is certified with. Attach additional sheets if needed.

SUBCONTRACTOR/VENDOR NAME	SDP/DIVERSE SUPPLIER (Yes or No)	% OF CONTRACT	CERTIFICATION GROUP (ALDOT, ADECA, SRMSDC, BCIA)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

CAUTION: ACCURATELY COMPLETE ALL PARTS OF THIS FORM AND SIGN BELOW.

GOOD FAITH EFFORT ACKNOWLEDGEMENT/AFFIDAVIT

I/WE EXERCISED GOOD FAITH TO COMPLY WITH THIS PLAN AND MAWSS' SDP REQUIREMENTS.

BIDDER/COMPANY

BY (Signature)

***Required to sign and return with bid**

SECTION 1
INSURANCE REQUIREMENTS

1.0 **GENERAL:**

The Contractor must provide insurance coverage and proof thereof for the duration of this Contract.

- A. **CONTRACTOR COVERAGE'S:** The Contractor shall not commence work under this Contract until he has obtained all insurance required under the following paragraphs and until such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work on his subcontract until all similar insurance required of the subcontractor has been obtained and approved. If the subcontractor does not take out insurance in his own name, the principal contractor shall provide such insurance protection for the subcontractor and subcontractor's employee.
- B. **INSURANCE:** The following insurance coverage's (with limits not less than specified herein) shall be maintained by the Contractor for the duration of the Contract, affording coverage for any claim arising out of the Contractor's operations herein, whether by the Contractor or any subcontractor or by any Employee or Agent of either.
- i. Claims of employees under Worker's Compensation and other similar employee benefit acts, including claims because of bodily injury, occupational sickness or disease, or death.
 - ii. Claims arising out of bodily injury, sickness, disease or death of any person other than employees.
 - iii. Claims for damages arising out of libel, slander, false arrest, detention or imprisonment, malicious prosecution, defamation or violation of right of privacy, wrongful entry or eviction or other right of private occupancy, including claims as a result of an offense related to the employment of a claimant by Contractor. (So-called "Personal Injury")
 - iv. Claims arising out of damage to, or destruction of, tangible property, including loss of use.

When and if the use of explosives for blasting purposes appears necessary or desirable, such methods shall not be undertaken without written authorization of the Owner, and then only provided that acceptable extensions of liability coverage have been obtained specifically to include the explosion ("X") hazard and the collapse ("C") hazard.

The policy of general liability shall include the special underground property damage coverage (providing the so-called "U" hazard) on a blanket basis.

LIMITS OF LIABILITY:

Worker's Compensation	Statutory
Employer's Liability	\$500,000 Each Accident \$500,000 By Disease Each Employee \$500,000 By Disease - Policy Limit
Commercial Automobile	\$1,000,000 Each Accident Bodily Injury and Property Damage Combined
General Liability	\$1,000,000 Each Occurrence \$1,000,000 Personal & Advertising Injury \$2,000,000 General Aggregate \$2,000,000 Products & Completed Operations Aggregate

C. **OWNER'S PROTECTIVE LIABILITY:** The Contractor shall furnish from a carrier acceptable to the Owner a policy of liability insurance, commonly called "Owner's Protective Liability," in the name of the Owner, providing "Independent Contractor's Coverage" for the operations embraced by this Contract with limits of \$1,000,000 combined bodily injury and property damage. Policy premium is to be paid by the named Contractor.

D. **PROPERTY INSURANCE:**

- i. The Contractor shall assume complete responsibility for safe-guarding all portions of the Work in progress, whether completed or not, until such work has been accepted by the Owner, and shall maintain such insurance to protect himself against perils which may cause such property to be damaged or destroyed. This coverage shall be similar to the former All Risks of Physical Loss Form, including if available, Collapse. Title to such work in progress, whether completed or not, shall remain vested in the Contractor until finally accepted by the Owner.
- ii. **Coverage Form:** Coverage shall be provided on an actual completed value Builder's Risk Form or, if more appropriate, an installation floater in the joint name of the Contractor and Owner for the duration of the Contract.

The Owner (MAWSS) has the option of providing Builder's Risk coverage for any projects undertaken by a Contractor. If the Owner exercises this option, the Contract Proposal will appropriately indicate this and provide for separately showing the costs of the Builder's Risk coverage in the Bid.

E. **CERTIFICATION:** The Contractor shall furnish policies verifying that the above coverages are in effect before commencing any work, and that each policy is endorsed to give the Owner 30 days' notice in writing in the event of cancellation or material change therein. Certificates of Insurance shall state that the Owner be named as additional insureds on the Contractor's Automobile Liability and Comprehensive General Liability policies. In respect to Worker's Compensation, Waiver of Subrogation shall be issued in favor of the Owner.

SECTION 2
SPECIAL PROVISIONS

2.1 SAFETY AND HEALTH REQUIREMENTS:

NOTICE TO CONTRACTS, VENDORS, SUPPLIERS AND DELIVERY COMPANIES PERFORMING WORK FOR THE BOARD OF WATER AND SEWER COMMISSIONERS OF THE CITY OF MOBILE:

1. Any party performing work or making deliveries on Mobile Area Water and Sewer System (MAWSS) property, public property, or private property for the MAWSS shall report details of any accident causing injury to employees other than MAWSS personnel within 24 hours to the designated MAWSS employee having responsibility for that work site or work activity.

Upon notification to appropriate MAWSS site personnel, the Contractor will notify the MAWSS Safety Department in written format as found on the "MAWSS Contractor Accident Report" so that records may be maintained for informational purposes.

The Board of Water and Sewer Commissioners will not accept liability for accidents or injury to personnel, damage to equipment or theft of property involving contractors, vendors, suppliers or delivery companies.

2. To conduct business with the Board of Water and Sewer Commissioners, contractors, vendors, suppliers or delivery companies must certify in writing that they have in force a drug and alcohol policy at least equal to that established for the Mobile Area Water and Sewer System's zero tolerance drug policy.

The Contractor shall comply with the Department of Labor Safety and Health Regulations for construction promulgated under the Occupational Safety and Health Act of 1970 (P.L. 91-54) and any amendments or additions thereto, where excavation and trenching are required the contractor shall comply with the requirements of OSHA Excavation and Trenching Safety Regulations (29 CFR Part 1926 – Excavation, Final Rule), and any amendments or additions thereto.

The Contractor shall be familiar and comply with the Board's Safety Rules Handbook in so far as it augments the specific regulation referred to in this Section.

The Contractor alone shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. The Contractor shall take all necessary protection to prevent damage, injury or loss to:

- A. All employees on the Work and other persons and organizations who may be affected thereby.
- B. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
- C. Other property at the site or adjacent thereto, including trees, shrubs, lawns,

walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal relocation or replacement in the course of construction.

The Contractor shall comply with all applicable Laws and Regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. The Contractor shall notify owners of adjacent property and of Underground Facilities and utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to above in Paragraphs 2 and 3 caused, directly or indirectly, in whole or in part, by Contractor any Subcontractor, Supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by the Contractor. The Contractor's duties and responsibilities for the safety and protection of the Work shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor that the Work is acceptable.

The Contractor shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated in writing by the Contractor to the Owner. The Contractor shall procure the referenced safety and health regulations, shall keep them on file at the job site, and shall require all supervisory personnel to become familiar with them.

2.2 VENDOR APPLICATION:

The Contractor is required to have a vendor application on file with the Mobile Area Water & Sewer System prior to receiving a contract. The Contractor may submit the application with their bids, but has to be on file or submitted before award of the project. Vendor applications can be obtained by contacting the Purchasing Department of the Mobile Area Water & Sewer System.

2.3 BASIS OF AWARD:

The OWNER shall award the Contract to the lowest responsible and responsive BIDDER based on the Total Base Bid or Total Base bid plus any combination of Additive Bid Items.

The OWNER reserves the right to reject any and all bids at their sole discretion.

2.4 RETAINAGE:

No retainage will be withheld on this project due to individual job structure of this contract.

2.5 RECEIPT OF BIDS:

Hand delivery of bids shall be made at MAWSS, 4725 Moffett Road, Mobile Alabama 36618.

SECTION 3
GENERAL REQUIREMENTS

1.0 GENERAL:

The Contractor shall provide all labor, equipment, permits, incidentals, and materials necessary to provide all of the HVAC equipment listed in the plans.

An Appendix is provided to identify the plans for the HVAC Equipment. At the prebid meeting, a site visit will be scheduled to allow the Contractor's access to the Williams WWTF where the work is proposed to take place.

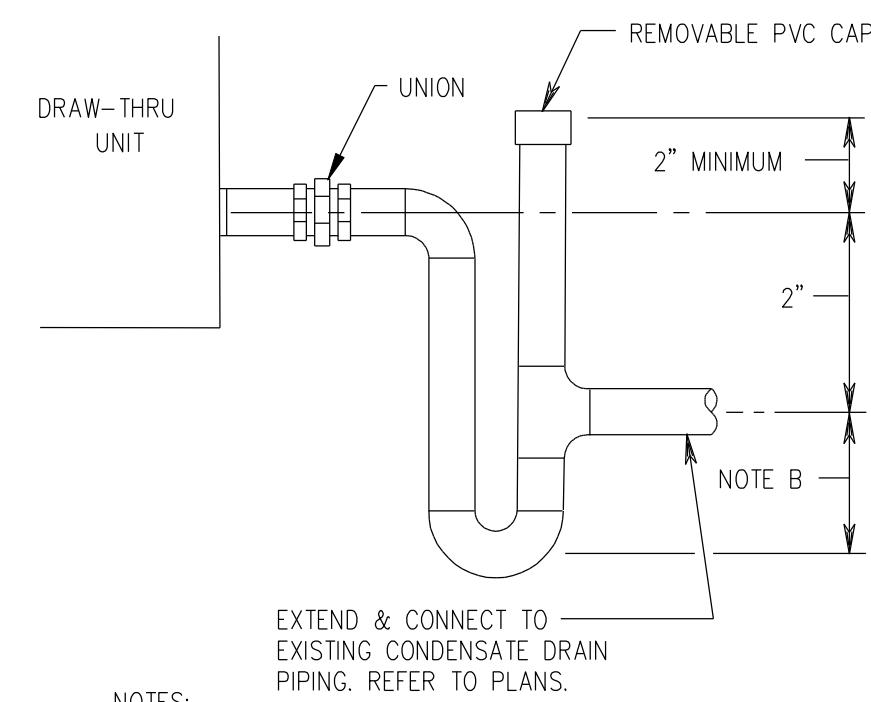
A. PAY ITEM DESCRIPTIONS:

ITEM 1 - Williams WWTF Headworks MCC Bldg. HVAC Replacement

Install HVAC equipment and appurtenances identified on plan sheets M-1 and M-2.

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																									
MARK	AREA SERVED	UNIT SIZE	INDOOR FAN DATA				COOLING CAPACITY					AHU ELECTRICAL DATA					CU ELECTRICAL DATA					BASIS OF DESIGN			
			TOTAL CFM	OA CFM	ESP	MOTOR	EDB	EWB	AMBIENT	TOTAL BTU/HR	SENSIBLE BTU/HR	MIN. EER	VOLTS	Hz	PHASE	MCA	MOCP	COMPR. RLA	OUTDOOR FAN FLA	VOLTS	Hz		PHASE	MCA	MOCP
AHU-1/CU-1	MCC ROOM	25 TONS	10,000	--	0.75"	7.5 HP	75F	67F	95F	308,500	228,300	11.0	460	60	3	19.0	30	2 @ 18.6	2 @ 3.3	460	60	3	48.5	60	CARRIER MODEL 40RUAA28T1A6-UA0A0 (INDOOR) CARRIER MODEL 38APS02563-3002D (OUTDOOR)

NOTES: 1. AHU SHALL HAVE PLEATED THROWAWAY FILTERS SIZED TO MATCH AHU. PROVIDE 2 SETS OF FILTERS FOR AHU.
2. ELECTRICAL POWER SUPPLY SHOWN SHALL BE SINGLE POINT FOR AHU AND CU AND ELECTRICAL CONTRACTOR SHALL PROVIDE THE.
3. THE AHU-1 SHALL BE PROVIDED WITH A TEMPERATURE SENSOR, THERMOSTAT PER NOTE 6 & SMOKE DETECTOR ALARM CONNECTED TO THE NEW ALARM SYSTEM AS REQUIRED PER KEYNOTE(5) ON SHEET M-2.
4. PROVIDE CU WITH A DUAL VARIABLE SPEED DIGITAL COMPRESSORS, 5 MINUTE TIME DELAY RELAY, FACTORY INSTALLED CONDENSER COIL GUARDS, AND DESIGNED FOR REFRIGERANT REQUIRED.
5. PROVIDE AHU WITH A 2-SPEED FAN MOTOR, FAN SPEED CONTROLLER, DUAL REFRIGERANT CIRCUITED EVAPORATOR COIL, THERMAL EXPANSION VALVES AND ACCESSORIES PER REFRIGERANT CIRCUIT.
6. IT IS MANDATORY THAT BRONZ-GLOW CORROSION RESISTANT COATINGS SHALL BE PROVIDED & APPLIED BY A FACTORY APPROVED & CERTIFIED LOCAL COMPANY. PROVIDE & APPLY A BRONZ-GLOW CORROSION RESISTANT COATINGS ON ALL REFRIGERANT PIPING, THE AHU-1 EVAPORATOR COIL, CU-1 CONDENSER COIL AND CORROSION RESISTANT COATINGS ON THE AHU-1 & CU-1 CASINGS.
7. PROVIDE PROVIDE SYSTEM WITH AN EDGE PRO PROGRAMMABLE 2-STAGE 24 VAC THERMOSTAT & HUMIDITY LCD DISPLAY AND WITH REMOTE MOUNTED SA & RA TEMPERATURE & HUMIDITY SENSORS CONNECTED TO THERMOSTAT WITH DISPLAY.
8. PROVIDE EQUIPMENT FROM BASIS OF DESIGN OR APPROVED EQUAL BY DAIKIN, TRANE OR YORK.



NOTES:
A. DRAIN TO BE FULL SIZE OF UNIT CONNECTION.
B. 2 TIMES THE MAXIMUM TOTAL UNIT STATIC PRESSURE.

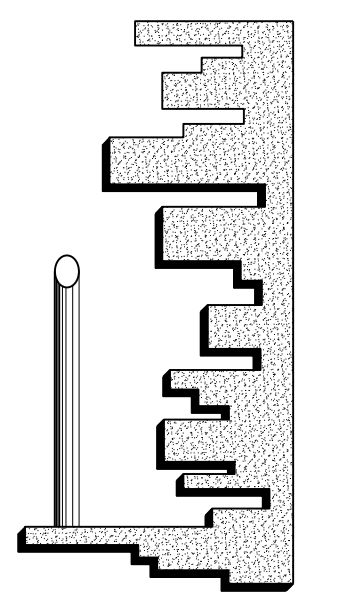
CONDENSATE P-TRAP DETAIL
NOT TO SCALE

MECHANICAL LEGEND	
AC	AIR CONDITIONING (COOLING ONLY)
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
(E)	EXISTING
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FD	FLOOR DRAIN
HD	HUB DRAIN
MVD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SWR	SIDEWALL REGISTER
SWRAR	SIDEWALL RETURN AIR REGISTER
TYP.	TYPICAL
	EXISTING LIGHTING FIXTURE
	SMOKE DETECTOR
	THERMOSTAT
	RECTANGULAR DUCT, 20" WIDE x 10" DEEP INSIDE CLEAR
	HARD ROUND SNAPLOCK DUCT, 6" DIAMETER.
	RECTANGULAR BRANCH DUCT WITH 45° TAKE-OFF CONNECTED TO RECTANGULAR DUCT MAIN. TRANSITION THE 45° TAKE-OFF & ROUTE THE BRANCH DUCT TO MATCH THE SIZE & LOCATION OF THE SWR INDICATED ON THE HVAC PLAN.
	SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH DOUBLE WALL TURNING VANES

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY CLEARANCE SPACE AVAILABLE, OFFSETS AND TRANSITIONS REQUIRED, STRUCTURAL OPENINGS, AND WORK BY OTHER TRADES PRIOR TO FABRICATION OF DUCTWORK. COORDINATE EXACT ROUTES WITH TRUSSES AND STRUCTURE.
- ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE ACCEPTABLE TO ENGINEER AND OWNER.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MET FOR ACCESS TO MOTORS, FANS, COMPRESSORS, ETC.
- BALANCING DAMPERS SHALL BE INSTALLED AT ALL BRANCH TAKE-OFFS AND AIR DEVICES.
- COORDINATE INSTALLATION OF ALL HVAC EQUIPMENT, DUCTWORK AND AIR DEVICES WITH OTHER TRADES PRIOR TO ORDERING AND INSTALLATION.
- SECURELY INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH ALL APPLICABLE MECHANICAL CODES AND MANUFACTURER'S INSTRUCTIONS.
- DUCTWORK DIMENSIONS ARE INTERNAL CLEAR DIMENSIONS. VERIFY COLLAR SIZES ON ALL EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY.
- ALL RECTANGULAR SUPPLY AIR DUCTWORK TAKE-OFFS SHALL BE 45° SHOE-FITTING TYPE.
- COORDINATE INSTALLATION WITH LATEST PLANS AND EQUIPMENT PROVIDED FROM EACH DISCIPLINE.
- ALL EQUIPMENT, INSTALLATION AND MATERIALS SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR.
- DO NOT DEVIATE FROM PLANS WITHOUT WRITTEN APPROVAL FROM ENGINEER FOR COORDINATION WITH ARCHITECT AND OWNER. MAINTAIN AS-BUILTS WITH APPROVED CHANGES.
- SUPPLY AIR & RETURN AIR DUCTWORK, PLENUMS & TAKE-OFFS SHALL BE SHOP-FABRICATED RIGID TYPE CONSTRUCTED OF MINIMUM 22 GAUGE G-90 GALVANIZED STEEL AND FABRICATED PER SMACNA DUCT CONSTRUCTION REQUIREMENTS. EXTERNALLY WRAP SUPPLY DUCTWORK & TAKE-OFFS WITH R-8 DENSITY DUCT WRAP WITH FOIL FACE VAPOR BARRIER. INTERNALLY INSULATE RETURN AIR DUCTWORK & PLENUMS WITH R-8 DUCT LINER WITH MOISTURE RESISTANT COATING. SECURE LINER TO DUCTWORK WITH ADHESIVE AND STICK PINS. SEAL DUCTWORK WITH MASTIC AND CHECK FOR LEAKS. RESEAL DUCTWORK AS REQUIRED.
- SIDEWALL SUPPLY REGISTERS (SWR'S) SHALL BE EQUAL TO TITUS 272RL SERIES WITH ALUMINUM DOUBLE DEFLECTION AIRFOIL BLADES, WHITE BAKED ENAMEL FINISH AND OPPOSED BLADE BALANCING DAMPER.
- SIDEWALL RETURN AIR REGISTERS (SWRAR'S) SHALL BE EQUAL TO TITUS 23RL SERIES WITH HEAVY DUTY STEEL CONSTRUCTION, SLOPED LOUVERED FACE BLADES, 1/2" BLADE SPACING, WHITE BAKED ENAMEL FINISH AND OPPOSED BLADE MANUAL VOLUME DAMPER.
- MAIN CONDENSATE PIPING SHALL BE SCH 40 PVC.
- ALL EXPOSED REFRIGERANT SUCTION PIPING TO BE INSULATED WITH 3/4" WALL ARMAFLEX INSULATION. PAINT INSULATION EXPOSED TO WEATHER WITH TWO COATS OF ARMAFLEX PAINT AND COVERED WITH AN ALUMINUM JACKET FOR CORROSION PROTECTION OF PIPING.
- TEST AND BALANCE SHALL BE PROVIDED BY CERTIFIED T&B COMPANY AND BALANCED PER AABC OR NEBB REQUIREMENTS.

Kenneth L. Lewis, PE
1621 S University Blvd., Suite A-3
Mobile, AL 36689
Phone: (251) 751-7166
Email: kemp@lewisceng.com



MAWSS Williams WWTF Headworks
MCC Bldg HVAC Replacement
Mobile, Alabama

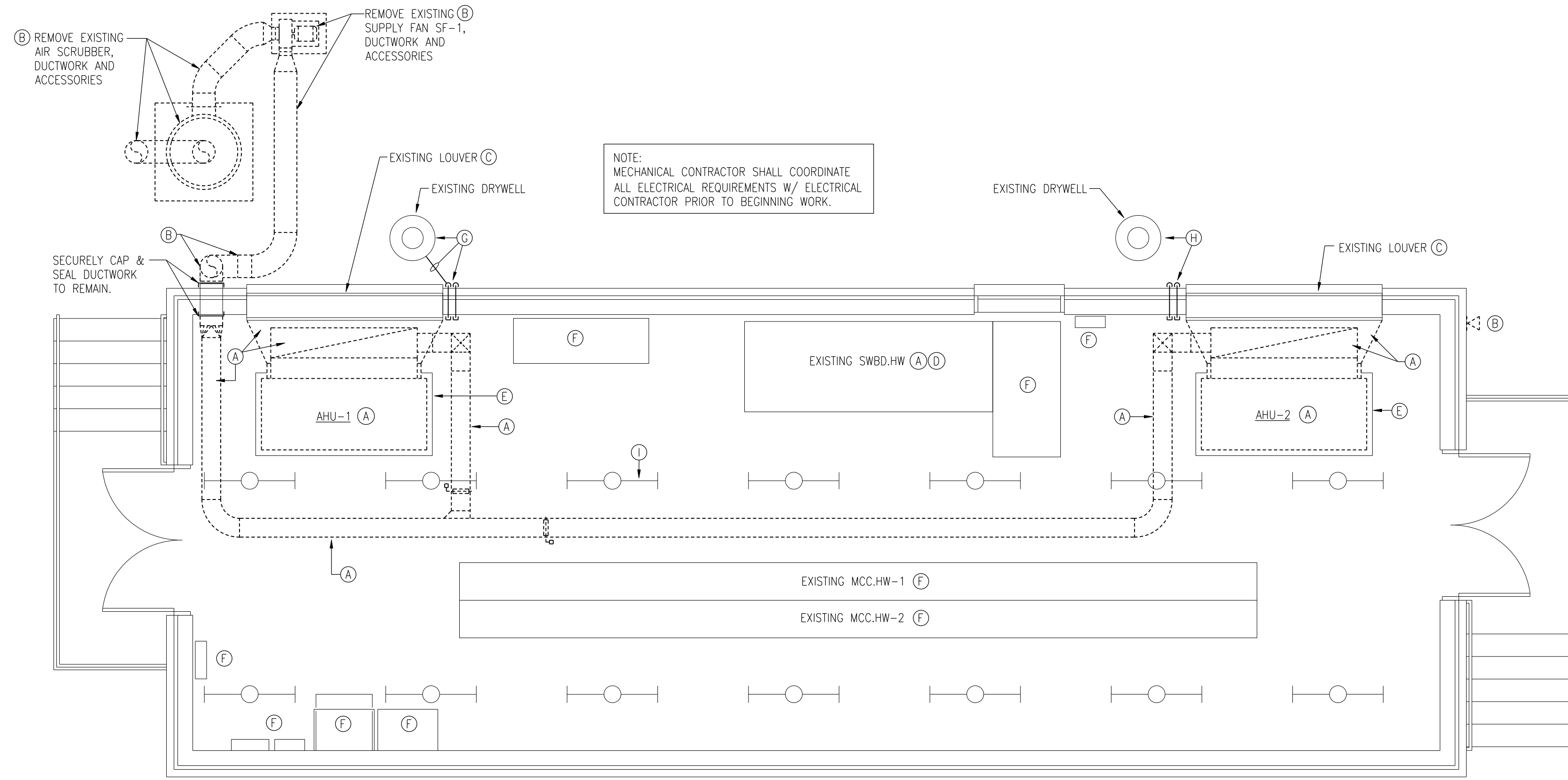


Sheet Title:
HVAC SCHEDULES,
LEGEND, NOTES AND
DETAILS

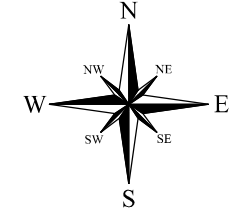
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WDC
Checked By:
KLL

Sheet No.
M-1

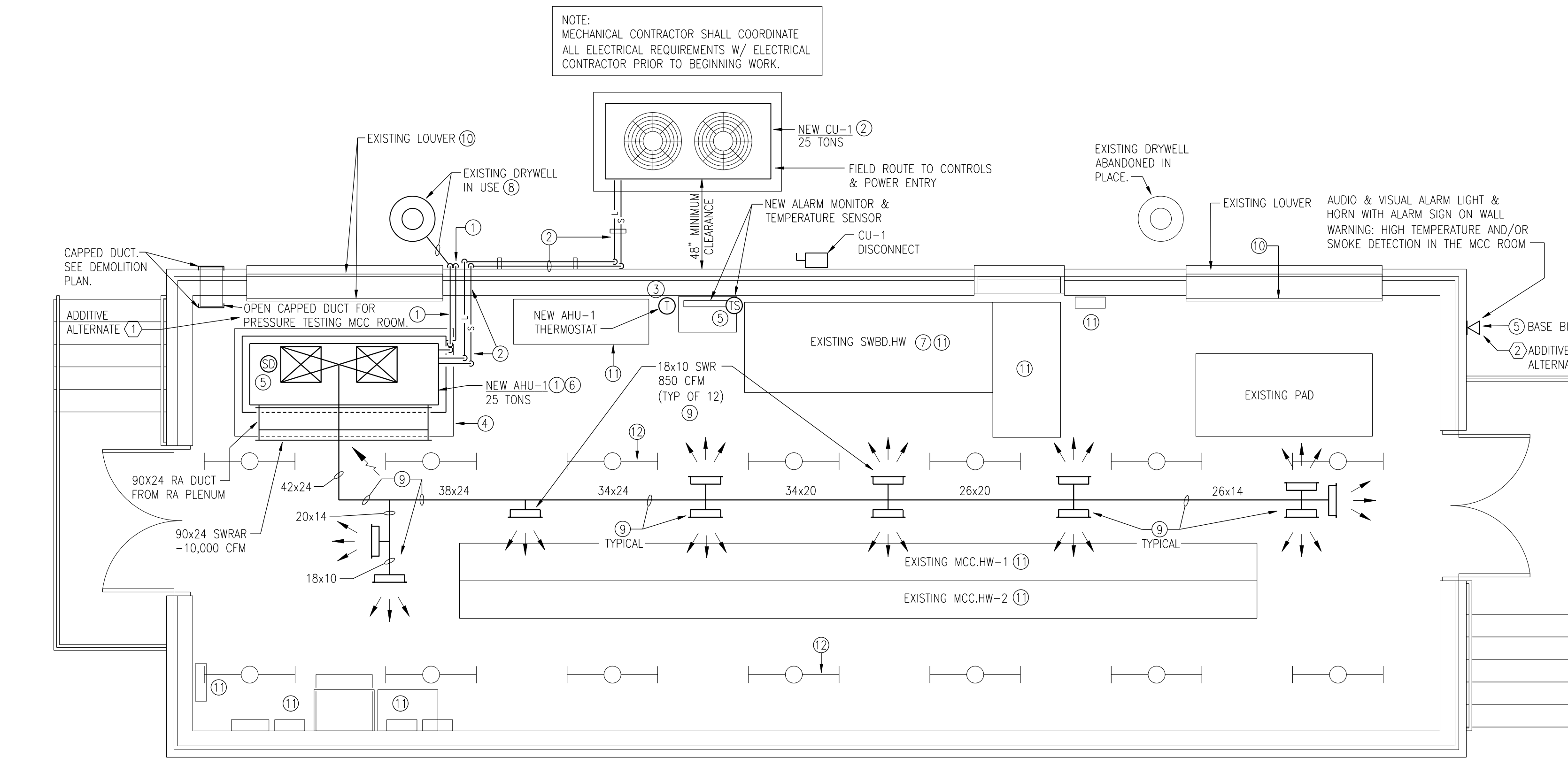
NOTE: HVAC BID SET OF PLANS, NOTES, DETAILS, REQUIREMENTS & SCHEDULES ARE PROVIDED FOR REVIEW, COORDINATION AND BIDDING.



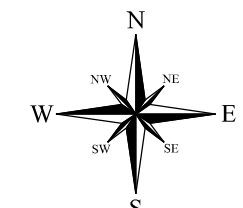
NOTE:
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS W/ ELECTRICAL CONTRACTOR PRIOR TO BEGINNING WORK.



HVAC DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



NOTE:
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS W/ ELECTRICAL CONTRACTOR PRIOR TO BEGINNING WORK.



HVAC NEW WORK PLAN
SCALE: 1/4" = 1'-0"

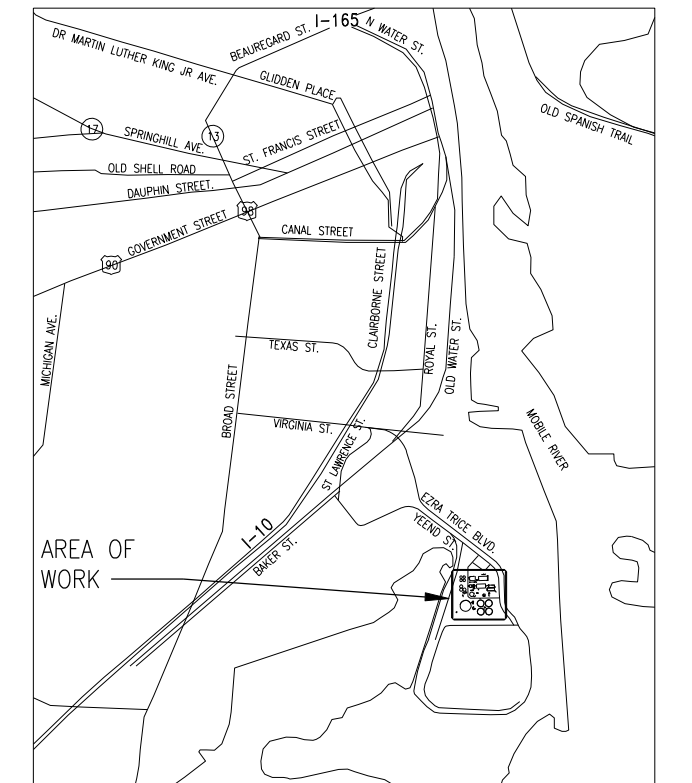
NOTE: HVAC BID SET OF PLANS, NOTES, DETAILS, REQUIREMENTS & SCHEDULES ARE PROVIDED FOR REVIEW, COORDINATION AND BIDDING.

HVAC DEMOLITION KEYNOTES

- (A) SHUT-OFF POWER TO EXISTING AHU'S 1&2 AT THE SWITCHBOARD PANEL SWBD.HW. REMOVE EACH EXISTING AHU AND ALL ASSOCIATED PIPING, CONTROLS, DUCTWORK, CONDUITS, WIRING & ACCESSORIES AS INDICATED ON THE HVAC DEMOLITION PLAN.
- (B) SHUT-OFF POWER TO THE EXISTING AIR SCRUBBER & SUPPLY FAN SF-1 THEN REMOVE THE EXISTING AIR SCRUBBER, SF-1, ALARM HORN, CONTROLS, WIRING, ACCESSORIES. REMOVE ALL DUCTWORK EXCEPT THE DUCTWORK THRU THE EXTERIOR WALL SHALL REMAIN & SECURELY CAPPED WITH 18 GAUGE 316SS & SEALED ON EACH SIDE OF THE EXTERIOR WALL AS SHOWN ON THE HVAC PLANS.
- (C) EXISTING LOUVERS SHALL REMAIN. SECURELY INSULATE THE ENTIRE BACK SIDE OF THE LOUVERS WITH A RIGID OWENS CORNING SEAMULDER 250 EXTRUDED POLYSTYRENE (XPS) MINIMUM R-8 FOAM BOARD. SECURELY COVER THE ENTIRE FRONT SIDE OF THE EXISTING LOUVERS WITH A HEAVY GAUGE ALUMINUM PANEL. THOROUGHLY SEAL BOTH SIDES AIRTIGHT AND PAINT TO MATCH THE WALLS AS NEEDED.
- (D) ELECTRICAL EQUIPMENT COMPONENTS SERVING THE EXISTING AHU-1&2 BEING REMOVED SHALL BE SHUT-OFF, DISCONNECTED, REMOVED AND REPLACED BY THE ELECTRICAL CONTRACTOR AS REQUIRED PER THE NEW WORK PLAN, KEYNOTES & SCHEDULES FOR THE NEW AHU-1 & CU-1 EQUIPMENT SERVED.
- (E) EXISTING MECHANICAL EQUIPMENT PAD TO REMAIN.
- (F) EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- (G) EXISTING DRYWELL AND CONDENSATE PIPING OUTSIDE TO REMAIN AND INSIDE CONDENSATE PIPING PER THE NEW WORK PLAN.
- (H) EXISTING DRYWELL IS NOT USED & REMAIN ABANDONED-IN-PLACE. REMOVE AND CAP EXISTING EXPOSED CONDENSATE PIPING INSIDE BUILDING.
- (I) EXISTING LIGHTING FIXTURES TO REMAIN. SEE NEW WORK KEYNOTE (9).

HVAC NEW WORK KEYNOTES

- (1) SECURELY INSTALL THE AHU ON A 28" HIGH REINFORCED GALVANIZED STEEL ACOUSTICALLY LINED RA PLENUM AND INSTALL 2" HIGH 304 STAINLESS STEEL EMERGENCY DRAIN PAN BELOW PLENUM AND AT LEAST 4" LARGER THAN RA PLENUM FOOTPRINT. CONNECT SHOP FABRICATED SA DUCTWORK TO FULL SIZE OR SA OUTLET AT NEW AHU OUTLET, TRANSITION DUCTWORK AND ROUTE SA DUCTWORK PER PLANS. THEN COMPLETELY SEAL THE EXTERIOR OF ALL SA DUCTWORK, CONNECTIONS, FITTINGS AND REQUIRED THAT ALL DUCT ITEMS ARE SEALED, CHECKED & TESTED FOR LEAKS WHEN AHU-1 RUNNING, RESEAL, RETEST & INSURE ALL DUCTS ITEMS ARE AIRTIGHT PRIOR TO INSULATING THE EXTERIOR OF THE DUCTWORK AND.
- ROUTE PRIMARY CONDENSATE DRAIN AT FULL SIZE OF UNIT CONNECTION WITH P-TRAP TO THE EXISTING CONDENSATE DRAIN PIPING. INSULATE PRIMARY CONDENSATE DRAIN PIPING WITH 1/2" WALL ARMAFLEX. INSTALL P-TRAP PER DETAIL ON SHEET M-1. ROUTE 1" AUXILIARY DRAIN FROM EMERGENCY DRAIN PAN TO THE EXISTING CONDENSATE PIPING & CONNECT. CUT EMERGENCY DRAIN PIPING, AT THE EXTERIOR, 6" ABOVE GRADE. SPILL ON GRADE. COVER PIPING OUTLET WITH A VERMIN-PROOF SCREEN. SLOPE CONDENSATE PIPING A MINIMUM OF 1/4" PER FOOT. INSTALL NEW AHU PER HVAC PLANS & MANUFACTURER'S RECOMMENDATIONS AND ACCESS CLEARANCES.
- (2) INSTALL NEW CU-1 ON A NEW 6" HIGH REINFORCED CONCRETE PAD TO SUPPORT THE WEIGHT OF THE NEW CU-1 AND PAD SIZED A MINIMUM OF 4" LARGER THAN FOOTPRINT OF CU-1. ROUTE REFRIGERANT PIPING SIZED PER MANUFACTURER'S PRINTED INSTRUCTIONS TO NEW AHU-1. PROPERLY SIZE, INSTALL AND CHARGE SYSTEM WITH REFRIGERANT & OIL PER MANUFACTURER'S INSTRUCTIONS. ALL REFRIGERANT SPECIALTIES AS LISTED ON THE EQUIPMENT SCHEDULE AND PER MANUFACTURER'S PRINTED INSTRUCTIONS. INSTALL NEW AHU PER MANUFACTURER'S RECOMMENDATIONS AND ACCESS CLEARANCES. COORDINATE EXACT LOCATION OF ELECTRICAL POWER TO AVOID.
- (3) SECURELY MOUNT THE 24 VAC DIGITAL THERMOSTAT ON WALL AT 54" AFF PER PLANS. ROUTE ALL CONTROL WIRING TO AHU & CU AND SIZE WITH WIRE GAUGES PER MANUFACTURER'S PRINTED INSTRUCTIONS. COOLING SETPOINT SHALL BE 65". (ADJUSTABLE).
- (4) THE HEIGHT & WIDTH OF THE NEW CONCRETE EQUIPMENT PAD SHALL ACCOMMODATE THE SIZE OF THE NEW AHU-1. PAD SHALL ALSO BE A MINIMUM OF 4" LARGER THAN FOOTPRINT OF AUXILIARY DRAIN PAN. PAD SHALL SUPPORT THE WEIGHT OF DUCTWORK & ACCESSORIES PROVIDED.
- (5) INSTALL A ROOM ALERT AVTECH ALARM SYSTEM FOR THE MCC BUILDING TO MONITOR THE ROOM TEMPERATURE. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V/Ø POWER WITH RECEPTACLE ON WALL BY MONITOR. HVAC CONTRACTOR SHALL INSTALL ALARM MONITOR AND CONNECT TO 120V CIRCUIT. HVAC CONTRACTOR SHALL REVIEW ALL INFORMATION TO ALARM DEVICES & PROVIDE ALARM WARNING SYSTEM IF THE ROOM TEMPERATURE RISES TO 80°F OR HIGHER AND BOTH ACCESS REMOTELY ATTACHED TO AN AUDIBLE VISUAL, HORN (AVH) DEVICE. PROVIDE EMERGENCY CONTACT SIGN BELOW DEVICE. THE ALERT SYSTEM SHALL INCLUDE THE FOLLOWING COMPONENTS AS WERE PROVIDED AT THE MAWSS WILLIAMS CC BUILDING MCC ROOM:
MODEL #RA12S-DAP-WAS: ROOM ALERT 12S - MONITOR W/ FULL SECURITY, PoE, PRO
MODEL #GTMD-PRO-AAS: RAA PROFESSIONAL YEAR (25 D, 10 S, 25 A, 7 R, 180)
MODEL #RMA-S51-SEN: SENSOR - SMOKE DETECTOR & FIRE W/ ESCAPE LIGHT
- (6) HVAC CONTRACTOR SHALL PROVIDE & INSTALL NEW MOTOR STARTER AND CONTROLS FOR THE NEW AHU-1 AND COORDINATE THE POWER REQUIRED WITH THE ELECTRICAL CONTRACTOR TO PROVIDE & INSTALL THE ELECTRICAL ITEMS FOR THE AHU-1 & STARTER PER KEYNOTE (7).
- (7) ELECTRICAL CONTRACTOR SHALL REMOVE & REPLACE THE EXISTING 460V/3Ø 80 AMP CIRCUIT BREAKERS AND INSTALL A NEW 460V/3Ø 30 AMP BREAKER FOR AHU-1 AND A NEW 460V/3Ø 60 AMP CIRCUIT BREAKER FOR THE NEW CU-1. LABEL BREAKERS FOR EQUIPMENT SERVED. COORDINATE W/ MECHANICAL CONTRACTOR.
- (8) EXISTING DRYWELL TO REMAIN IN USE.
- (9) INSTALL SUPPLY AIR DUCT ABOVE LIGHTING FIXTURES. REMOVE AND RE-INSTALL LIGHTING FIXTURES AS NEEDED. TRANSITION FROM AHU OUTLET TO SA DUCT SIZE AND ROUTE AS SHOWN ON PLANS AND INSTALL ALL NEW DUCTWORK, AIR DISTRIBUTION, INSULATION AND ACCESSORIES. OUTLET TO DUCT SIZE SHOWN. SEAL ALL DUCT CONNECTIONS AIRTIGHT AND INSULATE. REFER TO GENERAL NOTES ON SHEET M-1 FOR DUCTWORK AND INSULATION REQUIREMENTS. EXISTING DUCT SUPPORTS SHALL BE REUSED. INSTALL NEW DUCT SUPPORTS AS REQUIRED.
- (10) EXISTING COVERED AIR LOUVERS. SEE DEMOLITION KEYNOTE (C).
- (11) EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN USE.
- (12) EXISTING LIGHTING FIXTURE.

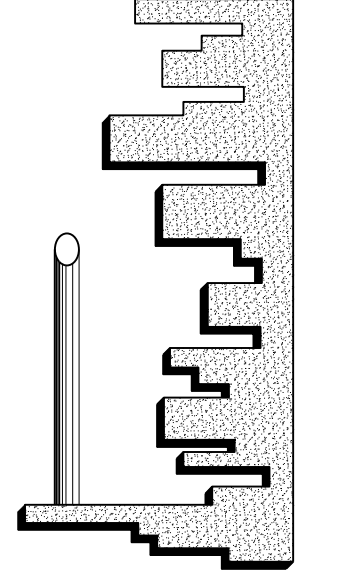


PROJECT SITE MAP
NOT TO SCALE

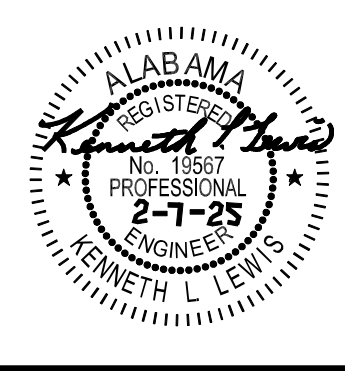
ADDITIVE ALTERNATES KEYNOTES

- (1) UNDER ADDITIVE ALTERNATE BID ITEM 1: PROVIDE PRESSURE TESTING FOR BUILDING AND INSPECT FOR AIR LEAKAGES.
- (2) UNDER ADDITIVE ALTERNATE BID ITEM 2: PROVIDE & INSTALL A 25 FOOT TALL EMERGENCY LIGHT TOWER FOR THE ALARM SYSTEM HORN & LIGHT.

Kenneth L. Lewis, PE
1623 S University Blvd., Suite A-3
Mobile, AL 36689
Phone: (251) 751-7166
Email: kenny@lewiscginc.com



MAWSS Williams WWTF Headworks
MCC Bldg HVAC Replacement
Mobile, Alabama



Sheet Title:
HVAC DEMOLITION PLAN
AND NEW WORK
PLAN WITH ADD
ALTERNATES

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KLL

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M-2