

**Marty Stuart's Congress of Country Music – Ellis
Theater Renovations**

MECHANICAL/PLUMBING BID PACKAGE

ADDENDUM NO. 4

TO: All Bidders on the Above Referenced Product
FROM: Dryden Architecture + Design
DATE: October 22, 2021
SUBJECT: **ADDENDUM NO. 4**

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM IS REQUIRED ON BID FORM.

Clarifications and revisions to Contract Documents for the referenced project are as follows:

1. **REPLACE:** Specification 00 10 01.1 Advertisement for Bid with Specification 00 10 01.2 (attached)
2. **REPLACE:** Specification 00 20 01.1 Instruction to Bidders with Specification 00 20 01.2 (attached)
3. **REPLACE:** Specification 00 40 03.1 Mechanical/Plumbing Package Bid Form with 00 40 03.2 (attached)
4. **REPLACE:** Original Table of Contents with attached Table of Contents
5. **REPLACE:** Drawing P-102 No. 2 with Drawing P-102 No. 3 (attached) (reroute of domestic and fire water supply)
6. **CLARIFICATION:** Specification 23 74 00
 - a. The requirement for inverter driven or variable speed compressors for the packaged rooftop equipment may be omitted
 - b. Change the modulation hot gas reheat requirement to on-off hot gas reheat
 - c. Change the requirement for single zone VAV fan operation to multi-speed fan operation

7. **CLARIFICATION:** Drawing M-601 Mechanical Schedules, Rooftop unit Schedule, Item 7 states "PROVIDE BACNET MSTP THERMOSTAT WITH IES CLOUD BASED CONTROLS OR EQUAL". A WIFI controllable thermostat will be sufficient.
8. **REPLACE:** Drawing M-101 First Floor HVAN Plan No.2 with M-101 No. 3 (attached)
9. **REPLACE:** Drawing M-102 PNC SECOND FLOOR HVAC PLAN Plan No.2 with M-101 No. 3 (attached)
10. **REPLACE:** Drawing M-303 ELEVATIONS No.2 with M-101 No. 3 (attached)
11. **REPLACE:** Drawing M-601 MECHANICAL SCHEDULES Plan No.2 with M-101 No. 3 (attached)

Submitted By:



Nick Dryden, AIA

Dryden Architecture + Design
October 22, 2021

**ACKNOWLEDGEMENT OF RECEIPT OF THIS ADDENDUM IS
REQUIRED AND SHALL BE INDICATED ON BID FORM**

NOTICE TO BIDDERS

Notice is hereby given that sealed bids will be received by the Marty Stuart Congress of Country Music, Inc. until 2:00 p.m. CST, October 26, 2021 for the Project shown below. The location of receipt of bids will be the Neshoba County Board of Supervisors Board Room at 401 E. Beacon Street, Suite 201 Philadelphia, Mississippi 39350.

Plans and Specifications Entitled:

Marty Stuart Congress of Country Music - Ellis Theater Renovations
311 Byrd Avenue
Philadelphia, Mississippi 39350

Bid Package Include:

Mechanical and Plumbing Package

The Bid Package contract will be issued between the Owner and the successful Contractor. This package shall include all bonds and taxes as required by the contract documents and the State of Mississippi.

Proposals shall be submitted on form furnished and sealed and deposited with the Marty Stuart Congress of Country Music, Inc. prior to the hour and date above designated. Bids must be accompanied by bid bond or certified check for at least five percent (5%) of the base bid payable to the Marty Stuart Congress of Country Music, Inc. as bid security. No bid may be withdrawn for 45 days after the actual date of the bid opening.

All bids must comply with applicable laws of the State of Mississippi and shall include the Contractor's Certificate of Responsibility Number, which must be displayed on outside of the sealed envelope. A performance and payment bond for one hundred percent (100%) of the contract sum will be required of the successful bidder.

Bid preparation shall be in accordance with the Instructions to Bidders bound in the project manual. The Owner reserves the right to waive any and all informalities or to reject any or all bids submitted

An official pre-bid meeting will not be held. However, any who wish to view the existing conditions can contact Caleb Page at 601-917-1661 to schedule a walk through

Electronic bids can be submitted at www.centralbidding.com. For any questions relating to the electronic bidding process, please call Central Bidding at 225-810-4814.

A copy of the Bid Documents (including plans and specifications for the Work) are available via digital and/or hard copy sets. Plan holders are required to register and order bid documents from the Jackson Blueprint online Plan Room website; planroomjaxblue.com. There is no charge for registration or to view the bid documents online. A printed set of bid documents is available for purchase at <http://planroomjaxblue.com> or at www.centralbidding.com. A digital PDF set is also available to download at no cost.

OWNER:

Marty Stuart Congress for County Music, Inc.
256 West Beacon Street
Philadelphia, Mississippi 39350

ARCHITECT:

Nick Dryden
Dryden Architecture + Design, PLLC
2520 White Avenue
Nashville, TN 37204
<https://dryden.studio/>
nick@dryden.studio

ENGINEER:

Yates Engineering Corporation
One Gully Avenue
Philadelphia, Mississippi 39350
Telephone: 601-656-5411

CONSTRUCTION MANAGER:

W. G. Yates & Sons Construction Company

One Gully Avenue

Philadelphia, Mississippi

Telephone: 601-656-5411

DATES OF ADVERTISEMENT:

September 15, 2021

September 22, 2021

END OF DOCUMENT 00 10 01.2

PART 1 - GENERAL**1.1 GENERAL REQUIREMENTS**

- A. Interpretations: Should a bidder find discrepancies in or omissions from the plans and specifications or be in doubt as to their meaning, he should immediately notify the Architect/Engineer and Construction Manager in writing. The Architect/Engineer and Construction Manager will then send a written instruction or interpretation to all known holders of the documents if deemed appropriate by the Architect/Engineer and Construction Manager. Neither the Owner, the Architect, Engineer nor the Construction Manager will be responsible for, nor bound by, any oral instructions, or for a bidder's failure to make inquiry.
- B. Addenda: Any addenda to the plans and/or specifications issued before or during the time of bidding will become a part of the Contract and receipt of same must be acknowledged by Bidder in his proposal.

1.2 BIDDING

- A. Contracts for Construction: Lump sum multiple prime bids received from Contractor's and shall include work shown on plans and specifications.
- B. Contractor, Subcontractors and Suppliers: The Bidder is specifically advised that any person, firm, or other party to whom it is proposed to award a Subcontract or Purchase Order under this Contract must be acceptable to the Owner and Construction Manager.
 - 1. The Owner or Construction Manager may make such investigation as he deems necessary to determine the ability of the Bidder or subcontractors or suppliers to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Construction Manager and Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein within the time required.
 - 2. All Contractor's and Subcontractor's must have a current, valid, Contractor's license and/or Certificate of Responsibility where Bid exceeds \$50,000.00.

1.3 CERTIFICATE OF RESPONSIBILITY

- A. Each Bidder submitting a bid equal to or in excess of \$50,000.00 must show on his bid and on the face of the envelope containing the bid, his Certificate of Responsibility Number, as required by Mississippi law. If the bid does not exceed \$50,000.00 a notation stating "BID DOES NOT EXCEED \$50,000" must appear on the face of the envelope. Bids without a Certificate of Responsibility number or the notation "BID DOES NOT EXCEED \$50,000" will not be opened.
- B. Each subcontractor shall also have a Certificate of Responsibility Number, as required by Mississippi law.
- C. Evidence: Sufficient evidence that said Certificate of Responsibility has been issued and is in effect at the time of receiving bids must be submitted as required by the Owner or the Construction Manager. Likewise, it shall be the responsibility of the Contractor to require a Certificate of Responsibility Number from any subcontractor that falls in the category "B" above.
- D. In accordance with Mississippi Law, if the Bidder is a joint venture, either the joint venture or all of the Contractors which make up the joint venture must hold certificates of responsibility from the Mississippi State Board of Contractors.

1.4 NON-RESIDENT CONTRACTOR

- A. When a non-resident Contractor submits a bid for a Mississippi public project, they shall, with the submission of the bid, attach thereto a copy of his resident State's current law pertaining to such State's treatment of non-resident Contractors as required by Mississippi law.

1.5 BID SECURITY

- A. Each bid, must be accompanied by the Bidder's bid bond, duly executed by the Bidder as principal and having surety thereon, a surety company approved by the Owner and signed by an agent resident in Mississippi, in the amount of five percent (5%) of the bid or total bids submitted. All bid bonds must be accompanied by the appropriate Power of Attorney designating the Mississippi Resident Agent.

1.6 OPENING OF PROPOSAL

- A. Sealed bids will be received at the Board of Supervisors Board Room at the Neshoba County Courthouse, 401 E Beacon Street, Suite 201, Philadelphia, Mississippi, 39350 until 2:00 p.m. on October 26, 2021 for:

Marty Stuart Congress of Country Music - Ellis Theater Renovations

Philadelphia, Mississippi

Mechanical and Plumbing Package

1.7 PREPARATION OF BID

- B. Conditions of Work: Each Bidder must fully inform himself of the conditions relating to the construction of the project and employment of labor thereon. Failure to do so will not relieve a successful Bidder of his obligation to furnish all material and labor necessary to carry out the provisions of the Contract. The Contractor must employ methods or means to cause no interruptions of or interference with the work of any other Contractor.
- C. Examination of Site: All Bidders, including the contractor's and their subcontractor's, will visit the site and inform themselves of all conditions. Failure to visit the site will in no way relieve the successful Bidder from his obligation to complete all work in accordance with the Contract Documents without additional cost to the Owner.
- D. Staging and Access: All Bidders, including the contractor's and subcontractor's, acknowledge that the construction premises are restricted and that access is affected by the location of the Project, by the Facilities surrounding the Project and by other construction either presently being performed or proposed To be performed during the performance of this Contract. This includes but is not limited to parking off site for all contractor's and subcontractor's at the Bidders expense. All Bidders, including the Contractor and subcontractors, further acknowledge that such limitations in space and accessibility have been taken into account in estimating their bids.
- E. Laws and Regulations: The Bidder's attention is directed to the fact that all applicable estate laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project apply to the Contract. The successful Bidder shall be required to comply with all applicable laws, ordinances, rules and regulations at no additional cost to Owner or Construction Manager whether such laws, ordinances, rules and/or regulations are enacted or adopted or become effective before or after bid opening.
- F. Obligation of Bidder: At the time of receipt of bids, Bidder will be presumed to have inspected the site and to have read and be thoroughly familiar with the plans and specifications, including all addenda.
- G. Telegraphic and Facsimile Modifications: A Bidder may modify his bid by telegraphic or facsimile communication at any time, provided such communication is received by the Construction Manager prior to the scheduled time for the receipt of bids.

1.8 PROPOSALS

- A. Form: Submit all proposals on forms provided and fill all applicable blank spaces without interlineations, alteration, or erasure and recapitulations of the work to be done. No oral, telegraphic, or telephonic proposals

will be considered. Any addenda issued during the bidding must be noted on the Proposal Form. Bidders may submit proposals for multiple bid packages or combination bid packages as outlined in the bid documents.

- B. Withdrawal: Any bid may be withdrawn prior to the time specified for receipt of bids. Any bid received after the specified bid date will not be considered. All bids are irrevocable offers to contract price bid which may not be withdrawn until after forty-five (45) days after the specified bid time.

- C. Submittal: Submit bids in duplicate in an opaque sealed envelope bearing on the outside of the bid envelope:

1. Upper Left Corner of Bidder Envelope

- a) Name of Firm (as it appears in the current State Board of Contractors Roster)
- b) Certificate of Responsibility Number
- c) Bid Opening Date and Time

2. Lower Left Corner of Bidder Envelope

Project Name and Location

Marty Stuart Congress of Country Music

Ellis Theater Renovations

Philadelphia, Mississippi

Bid Package: (List each Bid Package or Combination Bid Package that Bidder is bidding)

(Multiple bid packages can be included in one envelope)

3. Center of Bidder Envelope

- a) Bid shall be addressed to:

Marty Stuart Congress for Country Music, Inc.

256 West Beacon Street

Philadelphia, Mississippi 39350

- D. Any bid modification or qualification on the outside of the envelope will be considered only if accompanied by signature and title of person making the modification.

- E. Mailing: If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to:

Marty Stuart Congress for Country Music, Inc.

256 West Beacon Street

Philadelphia, Mississippi 39350

- F. Bidders are urged to deliver their bid to the Owner at the designated location shown herein. Owner will not be responsible for mail or express delivery.

1.9 CONTRACT

- A. Award of Contract: The Contract will be awarded based on the lowest and best value bid or lowest and best combination of base bid and those alternates, which produce a total within available funds. The Owner reserves the right to waive irregularities and to reject any and all bids.

- B. The Owner reserves the right to disqualify and reject the low bidder and make award to other than the low bidder if, in the Owner's judgement, it is in the Owner's best interest. A bidder may be disqualified for:

- 1. Being in arrears on existing contracts.
- 2. Being in litigation with the Owner.

3. Having defaulted on or failed to satisfactorily complete a previous contract including warranty obligations.
 4. Being unable to meet the Owner schedule requirements as outlined in the bid documents.
- C. Security for Faithful Performance: With his delivery of the executed Contract, the Contractor's will furnish a payment and performance bond on the forms incorporated into the documents. The surety on such bonds will be a duly authorized surety company licensed to do business in the State of Mississippi which is acceptable to the Owner and Construction Manager and which is listed on the United States' Treasury Department's list of acceptable sureties.
 - D. Time of Completion: By submission of its bid, Bidder agrees to commence work on or before a date specified in a written "Notice to Proceed" by the Owner for the Project and to fully complete the Project within the approved Master Project Schedule.
 - E. Substantial Completion: Substantial completion of the project shall be as defined in Article 9.8 of the General Conditions.
 - F. Final Acceptance/Completion: Final acceptance/completion of the Project as defined in Article 9.10 of the General Conditions.
 - G. Liquidated Damages for Failure to Enter Into Contract: The successful Bidder, upon his failure or refusal to execute and deliver the Contract and required bonds within ten days after he has received notice of the acceptance of his bid, will forfeit to the Owner as liquidated damages the security deposited with his bid.
 - H. Liquidated Damages: Reference paragraph 9.11 of 00 80 00 Supplementary Conditions.

END OF DOCUMENT 00 20 01.2

CERTIFICATE OF RESPONSIBILITY NUMBER: _____

CONTRACTOR: _____

ADDRESS: _____

BID DATE: October 26, 2021

BID TIME: 2:00 P.M. Central Time

PROJECT: Marty Stuart Congress of Country Music / Ellis Theater Renovations

BID PACKAGE: **MECHANICAL / PLUMBING PACKAGE**

ADDENDUM ACKNOWLEDGEMENT:

We hereby acknowledge receipt of the following Addenda to the Contract Documents:

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

BASE BID _____ (\$ _____)

Change in time (Add__ Deduct__) _____ Days

The Project shall be completed within **300** calendar days from the Notice to Proceed. Prior to award of a specified bid package the Contractor shall provide schedule documentation acceptable to the Construction Manager to develop the Master Project Schedule that best meets the Project Schedule Requirements as determined by the Owner. Contractors agree that the Master Project Schedule as approved by the Construction Manager and the Owner will be the Master Project Schedule for the Project. Contractors shall cooperate fully with Owner forces or separate contractors so that work on those contracts may be carried out smoothly, without interfering with or delaying the Work.

I (We) agree to hold our bid open for acceptance for Forty-Five (45) calendar days from the bid date.

If awarded this Contract, I, (We) agree to execute the Contract, provide all required documents, commence and complete work as specified in Document 00 20 00.2, Instructions to Bidders of the Contract Documents, subject to the terms and conditions of the Contract.

Bid Security as specified in Instructions to Bidders 00 20 00.2 and Bid Security Form 00 47 00 is required with the submission of the bid.

SIGNATURE: _____ (Company Officer)

SIGNATURE: _____ (Print)

TITLE: _____

End Document 00 40 03.2

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GENERAL NOTES

1. COORDINATE ROUTING OF PIPING AND EQUIPMENT WITH ALL TRADES PRIOR TO BEGINNING CONSTRUCTION.
2. COORDINATE REQUIREMENTS FOR ALL WALL AND FLOOR PENETRATIONS WITH STRUCTURAL ENGINEER.
3. PLUMBING CONTRACTOR RESPONSIBLE FOR ALL SANITARY WASTE, DOMESTIC WATER PIPING INSIDE BUILDING TO FIVE FEET OUTSIDE BUILDING FOOTPRINT. CONTINUATION OF UTILITIES PAST FIVE FEET OUTSIDE BUILDING BY SITE UTILITY CONTRACTOR.
4. REVIEW ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS OF RATED ASSEMBLIES. PROVIDE FIRE CAULK, AS REQUIRED, FOR ALL RATED PENETRATIONS.

NOTES

1. SEE SHEET P.001 FOR FIXTURE SCHEDULE, WATER HEATER SCHEDULE AND PLUMBING LEGEND AND ABBREVIATIONS.
 2. SEE SHEET P.101 FOR FIRST FLOOR SANITARY.
 3. SEE SHEET P.201 FOR SECOND FLOOR PLUMBING.
 4. SEE SHEET P.401 AND P.402 FOR ENLARGED PLUMBING PLANS
 5. SEE SHEET P.403 AND P.404 FOR PLUMBING ISOMETRIC DRAWINGS.
 6. SEE SHEET P.501 AND P.502 FOR PLUMBING DETAILS.
 7. PROVIDE HEAT TRACING FOR DOMESTIC WATER LINE IN UNCONDITIONED SPACE. CHROMALOX CPR CABLE, 5W PER FOOT SELF REGULATING CABLE OR EQUAL.
 8. CHROMALOX DL MODEL NUMBER RTBC OR EQUAL SINGLE POINT TEMPERATURE CONTROLLER FOR HEAT TRACING.
- COORDINATE ELECTRICAL SERVICE WITH ELECTRICAL CONTRACTOR. E.C. TO PROVIDE ELECTRICAL CIRCUIT WITH GROUND FAULT CIRCUIT INTERRUPTOR. MINIMUM TRIP LEVEL OF 30 mA.

A New Construction Project:

MSCCM -
Ellis Theater
Renovation

Project Site Address:

311 Byrd Ave.
Philadelphia, MS
39350

DAAD Project Number:

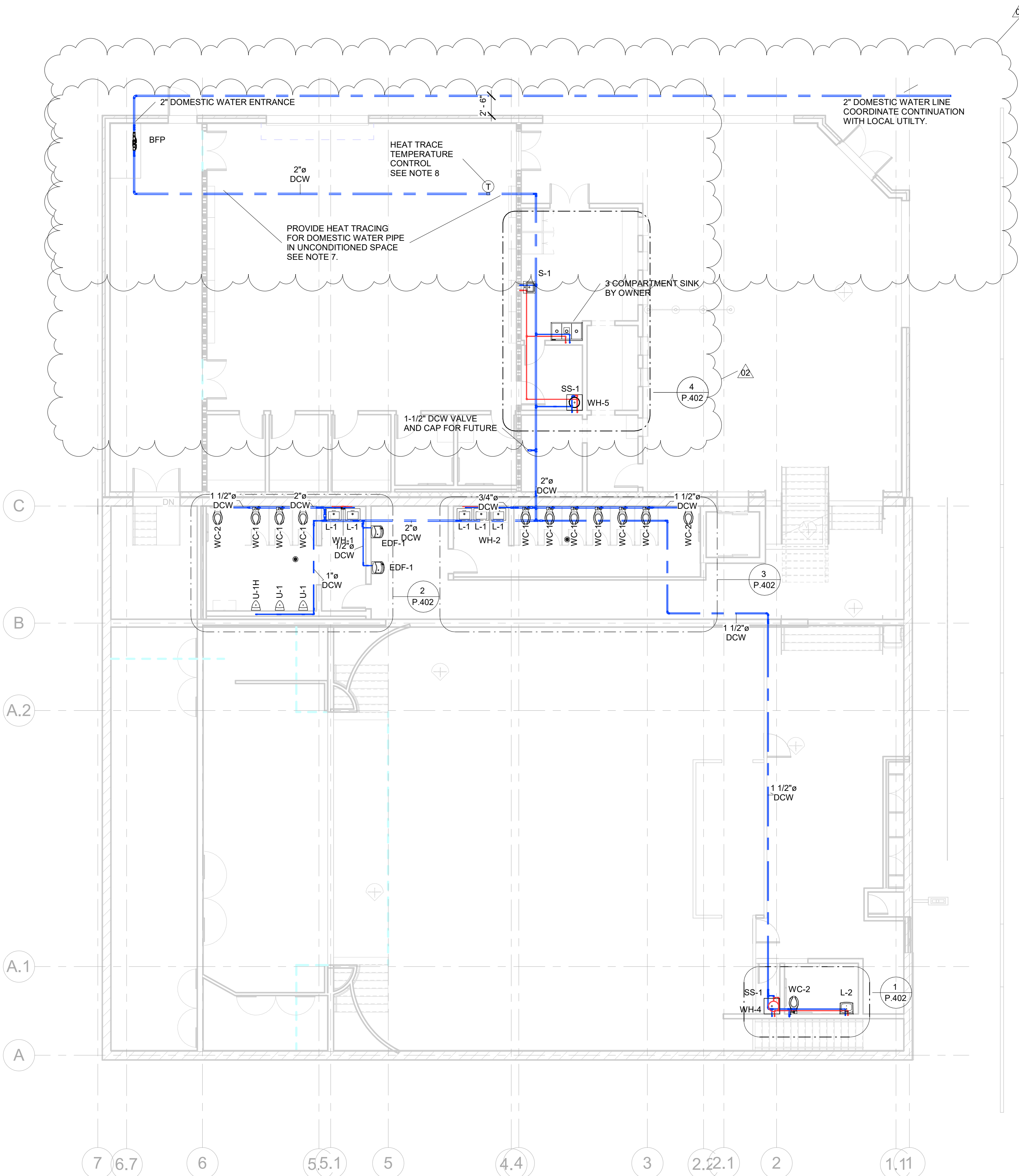
17583

No:	SET:	DATE:
01	CD Set	08/11/21
02	REV. AS SHOWN	10/13/21
03	REVISED AS NOTED	10/21/21

Drawing:

PLUMBING FIRST FLOOR
DOMESTIC WATER

P.102



1 FLOOR PLAN - DOMESTIC WATER
1/8" = 1'-0"

- NOTES:
1. SHEETMETAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 2. DUCT SIZES GIVEN ARE NET INTERIOR DIMENSIONS SHEETMETAL CONTRACTOR TO ALLOW FOR LINING WHERE REQUIRED.
 3. SEE SHEET M-001 FOR HVAC LEGEND
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 5. USE FLEXIBLE CONNECTOR AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT
 6. USE FLEXIBLE CONNECTOR AT ALL CONNECTIONS TO AIR DISTRIBUTION DEVICES.
 7. CONTRACTOR TO COORDINATE DUCTWORK TO RUN BETWEEN FLOOR JOISTS.
 8. CONTRACTOR TO COORDINATE DUCTWORK WITH STRUCTURAL STEEL CONTRACTOR TO PROVIDE COORDINATED MODEL WITH SHOP DRAWINGS TO DEMONSTRATE COORDINATION WITH STRUCTURE PRIOR TO FABRICATION OF DUCTWORK.



A New Construction Project:

MSCCM - Ellis Theater Renovation

Project Site Address:

311 Byrd Avenue
Philadelphia, MS
39350

DAAD Project Number:

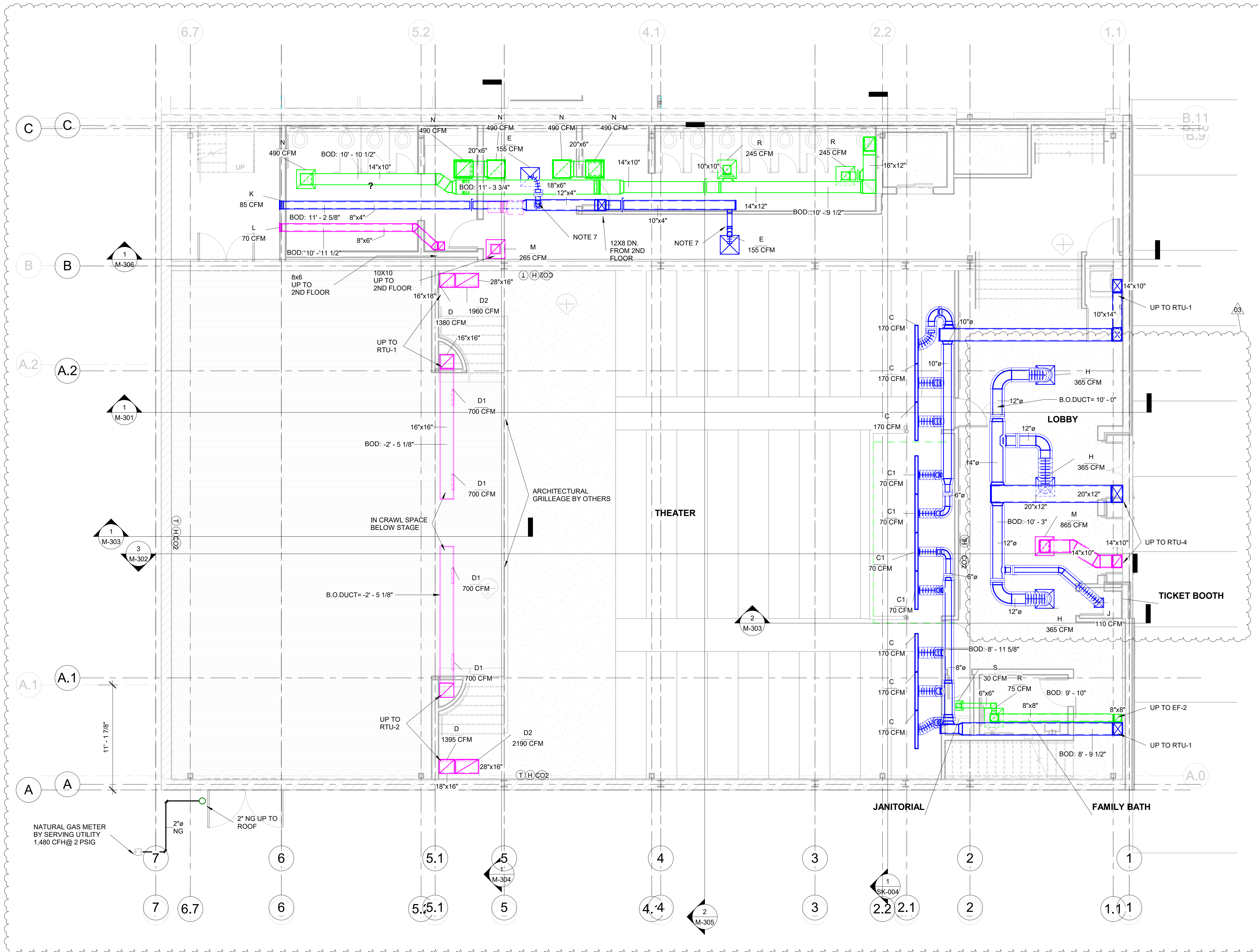
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No:	SET:	DATE:
01	CD SET	7-23-21
02	REVISED ROOTOP EQUIPMENT, DUCT	10-13-21
03	REVISED AS NOTED	10-21-21

Drawing:

FIRST FLOOR HVAC
PLAN

M-101



1 LOBBY AND PNC FIRST FLOOR HVAC PLAN
3/16" = 1'-0"

- NOTES:
1. SHEETMETAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 2. DUCT SIZES GIVEN ARE NET INTERIOR DIMENSIONS SHEETMETAL CONTRACTOR TO ALLOW FOR LINING WHERE REQUIRED.
 3. SEE SHEET M-001 FOR HVAC LEGEND
 4. SEE SHEET M-601 FOR HVAC SCHEDULES.
 5. USE FLEXIBLE CONNECTOR AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT
 6. USE FLEXIBLE CONNECTOR AT ALL CONNECTIONS TO AIR DISTRIBUTION DEVICES.
 7. RA-3 - RETURN AIR SOUND ATTENUATOR ON RTU-3 SEE SCHEDULE ON SHEET M-601.
 8. CONTRACTOR TO COORDINATE DUCTWORK WITH STRUCTURAL STEEL. CONTRACTOR TO PROVIDE COORDINATED MODEL WITH SHOP DRAWINGS TO DEMONSTRATE COORDINATION WITH STRUCTURE PRIOR TO FABRICATION OF DUCTWORK.



A New Construction Project:

MSCCM - Ellis Theater Renovation

Project Site Address:

311 Byrd Avenue
Philadelphia, MS
39350

DAAD Project Number:

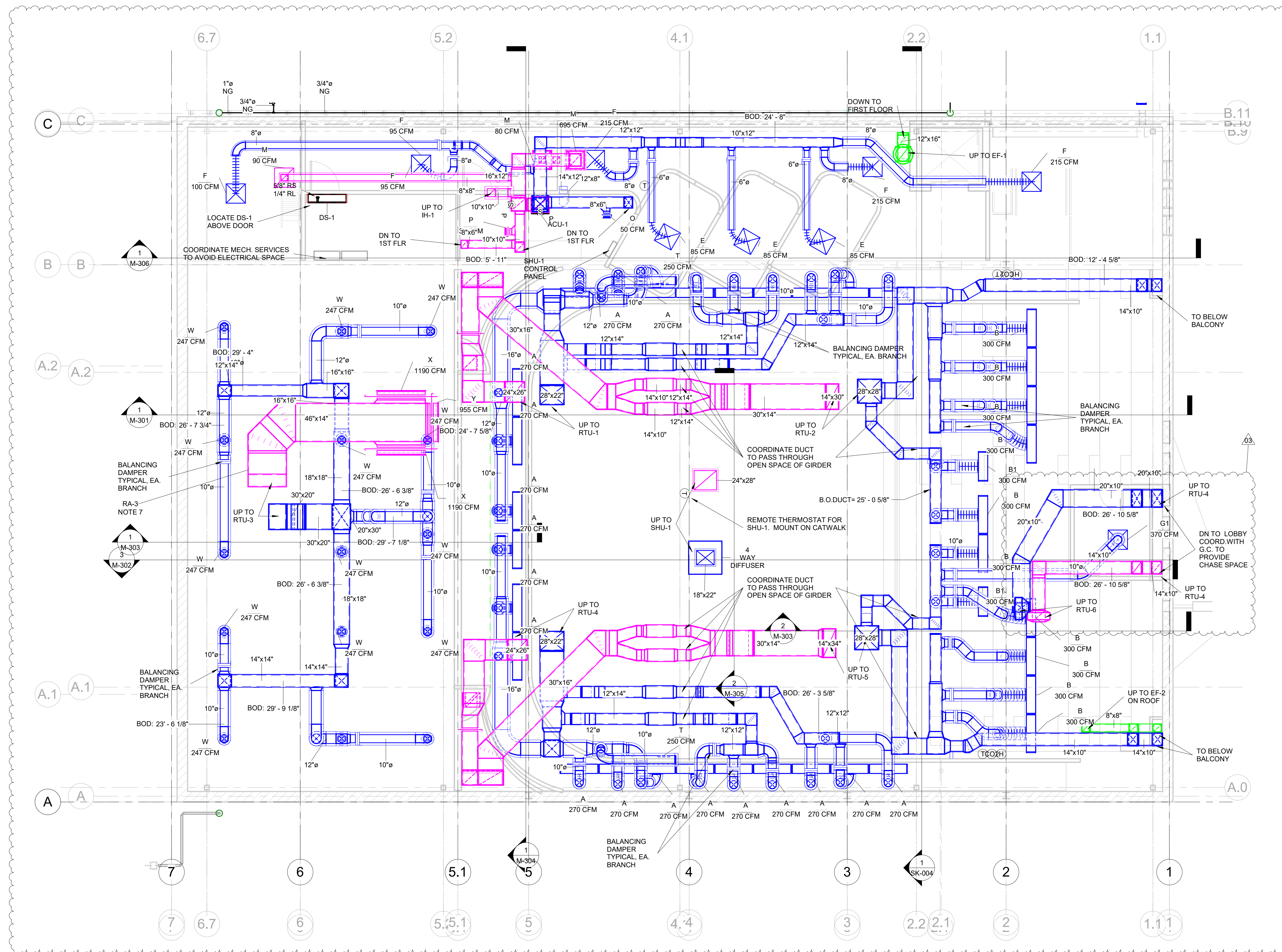
17583

No:	SET:	DATE:
01	CD SET	7-23-21
02	REVISED ROOTOP EQUIPMENT, DUCT	10-13-21
03	REVISED AS NOTED	10-21-21

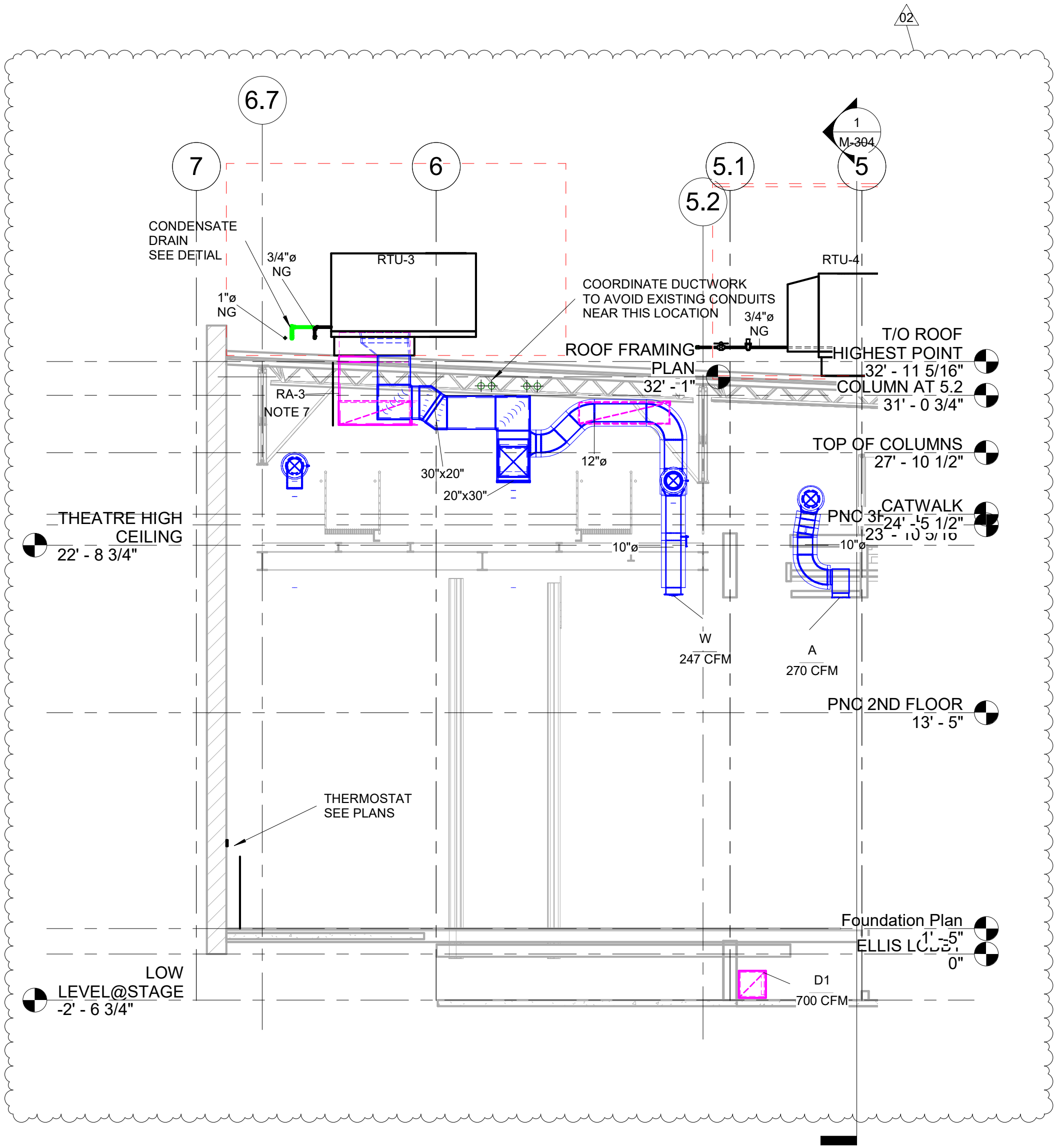
Drawing:

PNC SECOND FLOOR
HVAC PLAN

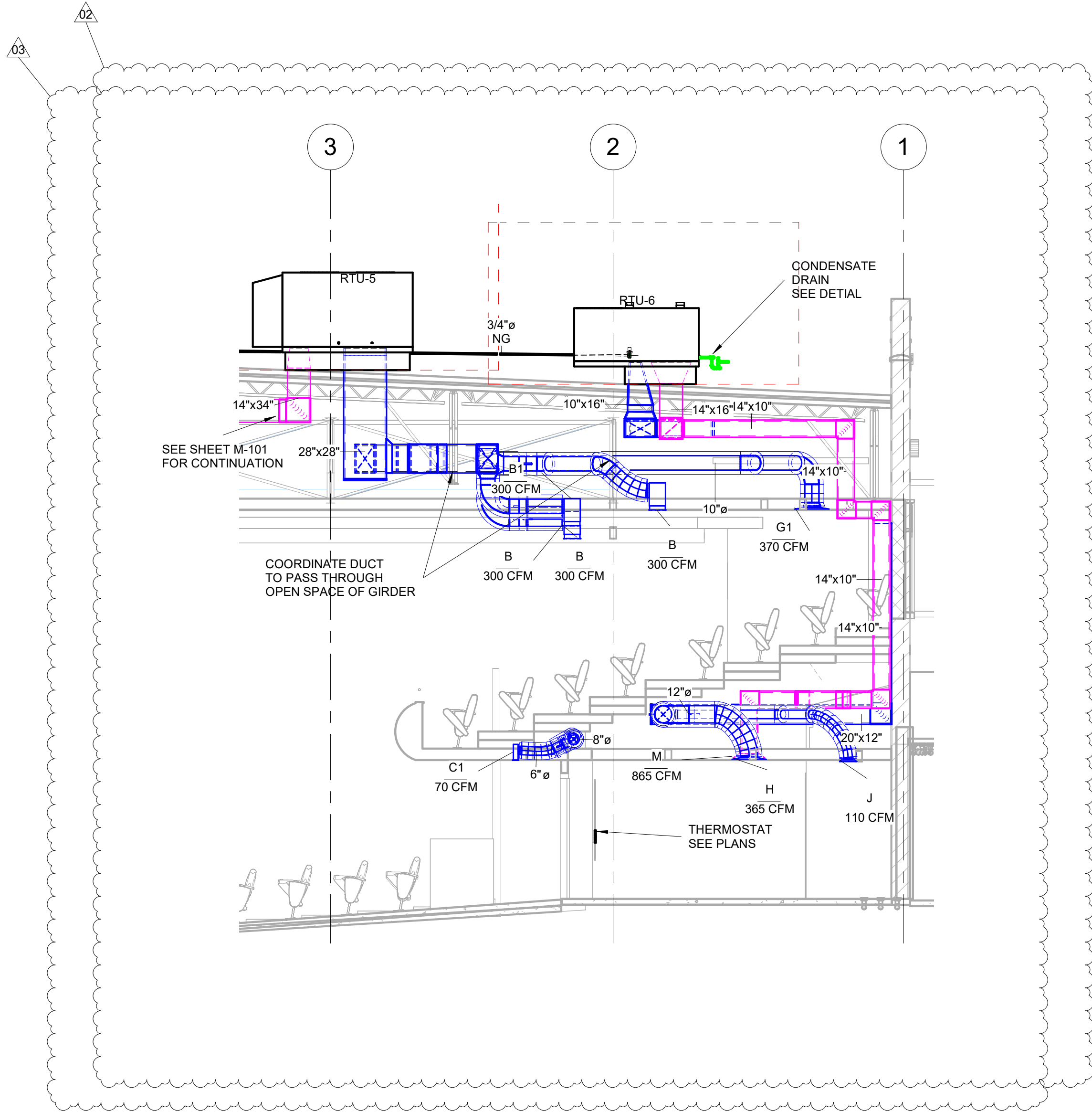
M-102



1 PNC 2ND FLOOR
3/16" = 1'-0"



1 RTU-3 ELEVATION
3/16" = 1'-0"



2 RTU-6 ELEVATION
3/16" = 1'-0"

JESCO, Inc.
Construction
MECHANICAL - ELECTRICAL
2000 McCullough Boulevard
Tupelo, MS 38801
662-842-3167 662-841-2338

- NOTES:
1. SHEETMETAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 2. DUCT SIZES GIVEN ARE NET INTERIOR DIMENSIONS SHEETMETAL CONTRACTOR TO ALLOW FOR LINING WHERE REQUIRED.
 3. SEE SHEET M-001 FOR HVAC LEGEND
 4. SEE SHEET M-601 FOR HVAC SCHEDULES.
 5. USE FLEXIBLE CONNECTOR AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT
 6. USE FLEXIBLE CONNECTOR AT ALL CONNECTIONS TO AIR DISTRIBUTION DEVICES.
 7. RA-3 - RETURN AIR SOUND ATTENUATOR ON RTU-3 SEE SCHEDULE ON SHEET M-601.



A New Construction Project:

MSCCM - Ellis Theater Renovation

Project Site Address:
311 Byrd Avenue
Philadelphia, MS
39350

DAAD Project Number:
17583

No:	SET:	DATE:
01	CD SET	7-23-21
02	REVISED ROOTOP EQUIPMENT, DUCT	10-13-21
03	REVISED AS NOTED	10-21-21

Drawing:

ELEVATIONS

M-303

ROOFTOP UNIT SCHEDULE																											
MARK	SERVES	DESIGN	MOD. NO.	UNIT	CFM	OSA	ESP	SUPPLY FAN	COND. FAN	COOLING					HOT GAS REHEAT			HEATING				FUEL	UNIT	UNIT	MAX	REMARKS	
		BASIS		WEIGHT		CFM		QTY/HP	QTY/HP	EDB	EWB	LDB	LWB	MBH	OSA DB/WB	EDB	LDB	MBH	EDB	LDB	MBH IN		MBH OUT	FLA	MCA		OCC
RTU-1	NW THEATER	DAIKIN	MPSA10D	1058	3,490	690	0.60	(1) 3.0	(2) 1/2	78.2	66.7	54.3	53.8	119.8	95 / 78	54.3	68.0	51.9	58.9	107.3	225	182	N. GAS	50.4	56.0	90	1,2,3,4,5,6,7,8,9,10,11,12
RTU-2	NE THEATER	DAIKIN	MPSA07D	1001	2,530	570	0.85	(1) 3.0	(2) 1/2	78.7	67.1	56.4	55.2	90.9	95 / 78	56.5	68.0	31.6	57.4	101.3	150	120	N. GAS	40.7	44.0	60	1,2,3,4,5,6,7,8,9,10,11,12
RTU-3	STAGE	DAIKIN	MPSA10D	1058	3,700	450	1.00	(1) 3.0	(2) 1/2	77.4	64.2	53.0	53.0	117.3	95 / 78	66.3	60.3	53.0	68.0	113.0	225	180	N. GAS	50.4	58.0	90	1,2,3,4,5,6,7,8,9,10,11,12
RTU-4	SW THEATER	DAIKIN	MPSA10D	1058	3,490	695	0.60	(1) 3.0	(2) 1/2	78.2	66.7	54.3	53.8	119.8	95 / 78	54.0	68.0	55.5	58.8	106.6	225	180	N. GAS	50.4	58.0	90	1,2,3,4,5,6,7,8,9,10,11,12
RTU-5	SE THEATER	DAIKIN	MPSA07D	1001	2,755	565	0.85	(1) 3.0	(2) 1/2	78.3	67.1	57.4	56.2	92.3	95 / 78	54.6	68.0	32.1	58.5	98.8	150	120	N. GAS	40.7	44.0	60	1,2,3,4,5,6,7,8,9,10,11,12
RTU-6	ELLIS LOBBY	DAIKIN	MPSA05C	597	1,200	355	1.25	(1) 1.0	(1) 1/2	80.2	68.5	50.6	50.1	58.4	95 / 78	70.0	57.4	25.2	53.4	93.6	65	52	N. GAS	14.6	27.0	40	1,2,3,4,5,6,7,8,9,10,11,12
RTU-7	MAIN LOBBY	DAIKIN	MPSA10D	1058	3,520	665	0.50	(1) 4.0	(2) 1/2	78.0	66.2	54.0	53.4	119.2	95 / 78	54.0	68.0	53.6	59.4	106.8	225	180	N. GAS	50.4	56.0	60	1,2,3,4,5,6,7,8,9,10,11,12

- DOWNFLOW GAS FIRED ROOFTOP UNIT WITH 100% OUTSIDE AIR ENTHALPY ECONOMIZER, BAROMETRIC RELIEF DIRTY FILTER SWITCH, AND 14" HIGH PITCHED, INSULATED, GALVANIZED ISOLATION ROOF CURB
- SOUND AND VIBRATION ISOLATION ROOF CURB TO BE EQUAL TO MODEL ESSR BY KINETICS.
- MULTI STAGE SCROLL COMPRESSORS
- HOT GAS REHEAT DEHUMIDIFICATION CONTROL WITH HUMIDITY SENSOR
- MULTI SPEED FAN SINGLE ZONE VAV OPERATION
- UNIT VOLTAGE 208V / 3 PH /60HZ, CONTROL TRANSFORMER, PHASE LOSS PROTECTION FACTORY MOUNTED DISCONNECT AND 115V GFI CONV. RECEPTACLE (UNIT POWERED)
- PROVIDE FIELD INSTALLED BACNET MSTP COMMUNICATION CARD OR BACNET MSTP THERMOSTAT WITH INTELLIGENT SYSTEM CLOUD BASED CONTROLS OR EQUAL
- PROVIDE LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 25 F
- PROVIDE SPACE CARBON DIOXIDE SENSOR FOR DEMAND CONTROL VENTILATION.
- ACCESS DOORS, ONE SET 2" PLEATED CONSTRUCTION SET OF FILTERS, TURNOVER SET OF 2" MERV 8 PLEATED FILTERS - CONTRACTOR TO PROVIDE UNIT WITH FACTORY MOUNTED R. A. AND S.A. DUCT MOUNTED SMOKE DETECTOR.
- PROVIDE ION GENERATOR WITH MINIMUM GENERATION RATE OF 1500 IONS PER CUBIC CENTIMETER DELIVERED TO SPACE
- MANUFACTURER AND MODEL NUMBERS IN SCHEDULE AND NOTES ARE FOR REFERENCE ONLY AND REPRESENTATIVE OF THE TYPE, QUALITY, AND PERFORMANCE TO BE PROVIDED. PRODUCT SUBSTITUTED FOR THOSE REFERENCED MUST BE AN APPROVED EQUAL

SPLIT SYSTEM AIR HANDLER SCHEDULE

MARK	SERVES	DESIGN BASIS	MOD. NO.	CFM	OSA CFM	EXT. S.P.	FAN HP	TOTAL MBH	SENSIBLE MBH	EDB	EWB	LDB	LWB	HP MBH	HEATER KW	HEATING EDB	HEATING LDB	UNIT VOLT / PH	UNIT MCA	UNIT MOCP	REMARKS
ACU-1	CORRIDORS	LENNOX	CBA25-UHV-060-230	1600	305	0.65	1	52.6	40.4	78.0	63.3	54.6	54.1	35.8	10.0	59.3	99.8	208/1	52.0	60.0	1,2,3,4,5,6,7,8,9,10,11

- SPLIT SYSTEM AIR HANDLER, FACTORY ASSEMBLED AND INSULATED
- CONVERTIBLE FOR HORIZONTAL OR VERTICAL AIR FLOW
- VERTICAL AIRFLOW CONFIGURATION
- MULTISPEED, DIRECT DRIVE CENTRIFUGAL BLOWER
- FACTORY INSTALLED REFRIGERANT COIL AND CONDENSATE DRAIN PAN
- FACTORY INSTALLED FLOW CONTROL CHECK VALVE ASSEMBLY WITH BRAZED CONNECTIONS
- FACTORY INSTALLED ELECTRIC HEATER WITH SINGLE POINT POWER CONNECTION. CONFIGURE FOR AUXILIARY HEAT
- FILTER RACK TO ACCOMMODATE 1" THK., 30% PLEATED FILTER MEDIA
- PROVIDE BACNET MSTP THERMOSTAT WITH IS CLOUD BASED CONTROLS OR EQUAL.
- PROVIDE ION GENERATOR WITH MINIMUM OF 1500 IONS PER CUBIC CENTIMETER DELIVERED TO SPACE
- MANUFACTURER AND MODEL NUMBER ARE FOR REFERENCE ONLY AND REPRESENTATIVE OF THE TYPE, QUALITY, AND PERFORMANCE TO BE PROVIDED. PRODUCT SUBSTITUTED FOR THOSE REFERENCED MUST BE AN APPROVED EQUAL

DUCTLESS SPLIT SYSTEM SCHEDULE

MARK	SERVES	MFG	MOD. NO.	CFM	COOLING						HEATING			VOLTS/PH/FLA	MCA	MOCP	REMARKS
					MBH	MBH S	EDB	EWB	LDB	LWB	MBH	EDB	LDB				
DS-1	ELECTRICAL ROOM	DAIKIN	FTX30nVJU	890	31.4	21.0	80.0	67.0	53.2	51.6	--	--	--	208/110.37			1,3,4,5,6,7
DSCU-1		DAIKIN	RK30NVJUUA		31.4									208/116.87	17	20	9,10,11

- DUCTLESS SPLIT SYSTEM WALL MOUNTED INDOOR UNIT
- INDOOR UNIT POWERED FROM OUTDOOR UNIT
- MULTISPEED INDOOR FAN
- RATINGS CERTIFIED IN ACCORDANCE WITH A.R.I. STANDARD 210/240
- FACTORY CHARGED WITH REFRIGERANT R-410A
- WIRELESS REMOTE CONTROLLER
- IN-LINE CONDENSATE PUMP
- NOT USED
- REFRIGERANT LINE SIZE: RL=1/4" RS=5/8"
- SINGLE INDOOR INVERTER COOLING ONLY SYSTEM
- COMPRESSOR TO BE EQUIPPED WITH THE FOLLOWING FEATURES:
 - INTERNAL OVER TEMPERATURE PROTECTION
 - INTERNAL OVER PRESSURE PROTECTION
 - THERMOSTATICALLY CONTROLLED SUMP HEATER
 - CENTRIFUGAL OIL PUMP

FAN SCHEDULE

MARK	MFG.	MOD. NO.	CFM	ESP	HP	RPM	EFF.	FRPM	SONES	MOUNTING	FAN TYPE	DRIVE	REMARKS
EF-1	GREENHECK	GB-120-3	980	0.94	1/3	1725	--	1395	11.6	ROOF	CENTRIF	BELT	1,2,4,5,6,7,8,9,10,11
EF-2	GREENHECK	G-095-D	100	0.52	1/8	1550	--	1550	9.5	ROOF	CENTRIF	DIRECT	1,3,4,5,6,7,9,10,11
EF-3	GREENHECK	G-070-D	75	0.42	1/30	1550	--	1550	4.4	ROOF	CENTRIF	DIRECT	1,3,4,5,6,7,9,10,11

- MANUFACTURER AND MODEL NUMBER ARE FOR REFERENCE ONLY AND REPRESENTATIVE OF THE TYPE, QUALITY, AND PERFORMANCE TO BE PROVIDED. PRODUCT SUBSTITUTED FOR THOSE REFERENCED MUST BE AN APPROVED EQUAL
- CENTRIFUGAL DOWN BLAST, BELT DRIVE, ROOF EXHAUSTER
- CENTRIFUGAL DOWN BLAST, DIRECT DRIVE, ROOF EXHAUSTER
- ALUMINUM HOUSING, BACKWARD INCLINED ALUMINUM WHEEL
- PITCHED INSULATED ROOF CURB WITH DAMPER TRAY
- NEMA 3R DISCONNECT, MOUNTED AND WIRED
- GRAVITY BACKDRAFT DAMPER
- EXTENDED LUBE LINES
- WIRE MESH BIRD SCREEN
- OPEN, DRIP PROOF MOTOR, MINIMUM EFFICIENCIES AS SPECIFIED
- MOTOR VOLTAGE, 120V-1PH

SOUND ATTENUATOR SCHEDULE

MARK	SERVES	DESIGN BASIS	MODEL	CFM	C/L LENGTH	WIDTH	HEIGHT	IN	OUT	MINIMUM DYNAMIC INSERTION LOSS								PD IN. WG	REMARKS
										63	125	250	500	1K	2K	4K	8K		
RA-3	RTU-3 RETURN	KINETICS	12KCES-F3	3335	96	46	16	42"	42"	5	11	30	54	55	56	43	29	0.16	1,2,3

- ELBOW RECTANGULAR SILENCER
- 16 GA CASING, 22 GA. PERFORATED LINING, 1" SLIP FIT CONNECTIONS
- FIBERGLASS ACOUSTIC MEDIA

INTAKE HOOD SCHEDULE

MARK	DESIGN BASIS	MOD. NO.	THROAT AREA	CFM	VELOCITY	STATIC PD. IN.	REMARKS
IH-1	GREENHECK	GRSI-10	0.57	305	535	0.048	1,2,3,4

- SLOPED INSULATED ROOF CURB
- GALVANIZED BIRD SCREEEN
- 24 VOLT, MOTORIZED DAMPER INTERLOCKED WITH ACU-1 TO OPEN WHEN UNIT IS IN OCCUPIED MODE.
- MANUFACTURER AND MODEL NUMBER ARE FOR REFERENCE ONLY AND REPRESENTATIVE OF THE TYPE, QUALITY, AND PERFORMANCE TO BE PROVIDED. PRODUCT SUBSTITUTED FOR THOSE REFERENCED MUST BE AN APPROVED EQUAL

HEAT PUMP SCHEDULE

MARK	DESIGN BASIS	MOD. NO.	MBH	COMP HP	COND. FAN HP	UNIT VOLTS / PH / FLA	UNIT MCA	MAX OCP	LINE SIZE		REMARKS
									RL	RS	
CU-1	LENNOX	ML14XP1-060	52.6	--	--	208 / 3 / --	18.0	30.0	3/8	7/8"	1,2,3,4,5,6,7

- FACTORY PACKAGED COMPRESSOR / HEAT PUMP, U.L. LISTED FOR OUTDOOR USE.
- RATINGS CERTIFIED IN ACCORDANCE WITH A.R.I. STANDARD 210/240
- FACTORY CHARGED WITH REFRIGERANT 410A
- SCROLL COMPRESSOR TO BE EQUIPPED WITH THE FOLLOWING FEATURES:
 - INTERNAL OVER TEMPERATURE PROTECTION
 - INTERNAL OVER PRESSURE PROTECTION
 - THERMOSTATICALLY CONTROLLED SUMP HEATER
 - CENTRIFUGAL OIL PUMP
 - LIQUID LINE FILTER DRYER
- FIELD INSTALLED HEAD PRESSURE CONTROL FOR LOW AMBIENT OPREATION.
- PROPERLY SIZED REFRIGERANT ACCESSORIES TO INCLUDE:

- THERMAL EXPANSION VALVE
 - LIQUID LINE SIGHT GLASS / MOISTURE INDICATOR
 - SUCTION LINE FILTER / DRYER
- MANUFACTURER AND MODEL NUMBER ARE FOR REFERENCE ONLY AND REPRESENTATIVE OF THE TYPE, QUALITY, AND PERFORMANCE TO BE PROVIDED. PRODUCT SUBSTITUTED FOR THOSE REFERENCED MUST BE AN APPROVED EQUAL

AIR DISTRIBUTION SCHEDULE

MARK	DESIGN BASIS	TYPE	MOD. NO.	FACE	NECK	MOUNTING	CFM	REMARKS
A	PRICE	S	JSP 2 SLOT	48"X11.5"	10"	SURFACE	270	1,2,3
B	PRICE	S	JSP 2 SLOT	48"X11.5"	10"	SURFACE	300	1,2,3
B1	PRICE	S	JSP 2 SLOT	37"X11.5"	10"	SURFACE	300	1,2,3
C	PRICE	S	SDS50 SDB 3 SLOT	48"X4"	8"	SURFACE	170	4,5
C1	PRICE	S	SDS50 SDB 1 SLOT	48"X4"	5"	SURFACE	70	4,5
D	PRICE	R	SERIES 96	18X38	16X36	SURFACE	SEE PLAN	4,5,7
D1	PRICE	R	SERIES 96	22X16	20X14	SIDEWALL	700	4,5,7
D2	PRICE	R	SERIES 96	28X38	24X36	SIDEWALL	SEE PLAN	4,5,7
E	PRICE	S	SCD	24x24	6	SURFACE	SEE PLAN	4,5,7,9
F	PRICE	S	SCD	24x24	8	SURFACE	SEE PLAN	4,5,7,9
G	PRICE	S	SCD	24x24	10	SURFACE	SEE PLAN	4,5,7,9
H	PRICE	S	SCD	24x24	12	SURFACE	SEE PLAN	4,5,7,9
J	PRICE	S	SCD	12X12	6	SURFACE	SEE PLAN	4,5,7,9
K	PRICE	S	520 SERIES	12X12	10X10	SURFACE	SEE PLAN	4,5,7
L	PRICE	R	SERIES 96	12X12	10X10	SURFACE	SEE PLAN	5,7
M	PRICE	R	SERIES 80	24x24	22x22	SURFACE	SEE PLAN	4,5,11
N	PRICE	E,T	SERIES 80	24x24	22x22	SURFACE	SEE PLAN	4,5,11
O	PRICE	S	520 SERIES	8X10	8X6	SIDEWALL	SEE PLAN	4,5,7
P	PRICE	R	SERIES 96	8X10	8X6	SIDEWALL	SEE PLAN	5,7
R	PRICE	R	SERIES 96	26X8	24X6	SIDEWALL	SEE PLAN	5,7
S	PRICE	R	SERIES 80	12X12	6X6	SURFACE	SEE PLAN	4,5,11
T	PRICE	S	SDG	14X4	14X4	SIDEWALL	SEE PLAN	4,6,7,12
U	PRICE	T	SERIES 96	18X16	14X16	SIDEWALL	SEE PLAN	2,3,5
V	PRICE	R	SERIES 96	18X12	14X16	SIDEWALL	SEE PLAN	2,3,5
W	PRICE	S	AND	10"	10"	DUCT	247	5,7,9
X	PRICE	R	SERIES 96	62X16	60X14	SIDEWALL	1190	2,3,5
Y	PRICE	R	SERIES 96	48X16	44X16	SIDEWALL	955	2,3,5
Z	--	R	--	--	--	SEE PLAN	14	

- PRICE JS JET SLOT DIFFUSER WITH PLENUM. 48" WITH TWO 2-1/2" SLOTS. DIRECT ONE SLOT TOWARD CENTER OF THEATER, ONE SLOT DOWN WALL
- PRICE JS JET SLOT DIFFUSER WITH PLENUM. LENGTH AS NOTED. TWO 2-1/2" SLOTS. SLOTS TO WASH CEILING
- PROVIDE CABLE CONTROLLED DAMPER UPSTREAM OF GRILLE WITH CONTROLLER MOUNTED IN PLENUM
- VOLUME DAMPER
- WHITE FINISH
- ALUMINUM FINISH
- LOUVERED FACE
- PERFORATED FACE
- 4-WAY THROW UNLESS OTHERWISE NOTED
- FILTER RETURN
- 1/2 x 1/2 CUBE FACE WITH 6" DEEP LINED PLENUM. DUCT SIZE PER PLAN

- AIR SCOOP
- OPEN END RETURN DUCT, COVER WITH EXPANED METAL - 80% FREE AREA.

S = SUPPLY, R = RETURN, E = EXHAUST



Dryden

2520 White Avenue
Nashville, TN 37204

615.248.3223
dryden.studio

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01	CD SET	7-23-21
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Drawing:

MECHANICAL SCHEDULES

M-601