PARISH ENGINEERING

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Date: October 17, 2025

Project Name:	SUNO Chiller Replacement at Central Plant
Project Address:	6400 Press Drive, New Orleans, LA 70126
Parish Project No.:	25-039

ADDENDUM # 1

The following items shall be considered part of the Contract Documents for the above referenced project and shall take precedence over any conflicting statements contained therein. Revise all other notes, schedules, details, elevations, and sections as required.

GENERAL:

The attached Pre-Bid Meeting Minutes and Sign in Sheet are part of Addendum 1 for this project.

MECHANICAL ITEMS:

Drawings:

1. Sheet Number: M0.0
   a. Replace this sheet in its entirety with the attached.

Specifications:

1. Section Number: 236416
   a. Delete 2.3/C/2/ paragraphs b &c in their entirety.
   b. Delete 2.3/D paragraph 2 in its entirety.

2. Section Number: 230900
   a. Replace 4.1 and 4.2 in their entirety with the following:
      i. The scope of work shall include disconnect and reconnect chiller controls and integrating the new chiller into the Existing Control System.

PRIOR APPROVAL:

NOTE: Acceptance of a particular manufacturer does not excuse that manufacturer from meeting the plans and specifications. Compliance with specifications is the responsibility of the prior approval manufacturer.

Product	Model
Chiller	Carrier, Trane

If you have any questions, please contact our office.

Parish Engineering, LLC

PARISH ENGINEERING

PRE-BID MEETING MINUTES

DATE: October 23, 2025

PROJECT #: 25-039

PROJECT NAME: SUNO Chiller Replacement at Central Plant

PERSONS PRESENT: See attached Sign-in Sheet

Project Team:

a. Owner Rep: Southern University New Orleans – Wynton Johnson
b. Owner Rep: Southern University New Orleans – Delwin Davis
c. Engineer: Parish Engineering – Lance J Bonadona, PE

Information:

1. Time of Completion: 300 consecutive calendar days
2. Liquidated Damages: $500.00/day
3. AFC: $475,000
4. Bid Date: November 10, 2025

Site Visit Location:-
Central Plant
Southern University New Orleans
New York Street
New Orleans, LA

Correspondence: Inquiries will be accepted until November 3, 2025, by 5:00 p.m. Inquiries shall be submitted to Marilyn Manuel at mmanuel@suno.edu.

Responses to inquiries will be posted on the LAPAC-LA State Procurement website by November 6, 2025, by 5:00 PM.

ITEMS DISCUSSED:

1. Parish Engineering is the prime consultant to SUNO for this project. Mr Wynton Johnson is the SUNO Project Manager. Mr Delwin Davis is the SUNO onsite contact.

2. All questions shall be directed to Marilyn Manuel, Director of Purchasing at 504-286-5020 or email mmanuel@suno.edu.

3. Reviewed Advertisement for Bids portion of Advertisement for Bids:
   Sealed bids will be received by Southern University, New Orleans, Louisiana, in the Purchasing Office, 6400 Press Drive, Bashful Administration Building, Room #311. Bidders are solely responsible for ensuring the timely delivery of their bids. The Southern University New Orleans Purchasing Department is not responsible for any delays caused by builders' chosen means of delivery. Failure to meet the bid deadline, submittal date, and time shall result in rejection of the bid.

4. Reviewed project time available (200 consecutive calendar days) and liquidated damage amount ($500/day). Potential Bidders were asked to review carefully and comply with requirements of the Instructions for Submittal of Bids, Bid Form, AIA Document A201 and Supplementary Conditions documents with respect to furnishing a Bid for this project, in addition to complying with project technical requirements.

5. A reminder was made to all Contractors submitting bids to include the name of the project, the name, address, and license number of the bidder on the outside of the bid envelope, as per specification section "Instruction to Bidders" and the Advertisement.

6. A Payment and Performance Bond is required by the Instructions for Submittal of Proposals portion of Specifications

7. Discussed coordination of work regarding on-going operations at the facility. Specifically discussed utility shutdowns/disruptions and need for coordination with Owner staff per the specification requirements.

8. Mr. Bonadona discussed the Owner's expectations regarding project coordination, staging, security and notice in regard to potential shutdowns, noise generating activities, etc.

9. Contractors will be allowed to visit this site during the hours from Monday thru Friday, 7:00 am to 4:00 pm to review the items in the construction documents. Visit must be coordinated through Mr. Davis Cell: 504-214-0305.

10. Mr Johnson stated that work under this contract may be performed on Campus during the hours from Monday thru Friday, 7:00 am to 4:00 pm.

11. Mr Johnson shared the Campus Holiday Schedule below:

    a. September 1st - Labor Day Holiday
    b. November 27th-28th- Thanksgiving Holiday
    c. December 23th-31st – Christmas Holiday
    d. January 1st – New Year's Day Holiday
    e. January 20th- Matin Luther King, Jr. Holiday
    f. March 3rd – 5th – Mardi Gras Holiday
    g. April 18th – Good Friday Holiday
    h. May 26th – Memorial Day Holiday
    i. June 20th – Juneteenth Holiday

12. The group conducted a walk-through of the work area.

END OF COMMENTS

Attachments: Sign in Sheet

cc: Attendees via e-mail

The above is our understanding of the items discussed.
If you should have any comments, or corrections, please contact our office.

PARISH ENGINEERING

SIGN IN SHEET

Chiller Replacement, Central Plant
Southern University, New Orleans, LA
Project #19-671-22-01, F.19002575
Parish Engineering Project #25-039

Date: October 23, 2025
Pre-Bid Meeting
Bid Date: November 10, 2025 @ 10:30am

Name	Company	Phone	Email Address
Nate Stephenson	Volute Inc	985-876-6187	mary@coastalvolute.com
Gregory Granier	Towers Construction	504-939-5295	greg@towers.construction
Russell Beals	Professional Mechanical Services	504 884 3810	Russell.Beals@professional-mechanical.com
Bobbie Morris	Blanchard Mechanical Contractors	985-748-5153	estimating@bmcteam.net
Troy Nunez	Gootee Construction TNunez@Gootee.com	504 232 6358	TNunez@Gootee.com
Simon Fontenot	Industrial & Mechanical Contractors, Inc.	504-733-9141	simon@imcnola.com
Darren Plaia	Wire Nuts Electric	504-835-6003	wirenutselectric@msn.com
Lenny Parker	Armsco	337-842-9848	l.parker@armscousa.com
Jaeden Wallace	Synergy Bldg Solutions	337-412-0807	jaeden.wallace@synergybldgsolutions.com
Mark Pousson	Victaulic	504.401.0493	mpousson@victaulic.com
Patrick Binnings	Hi-Tech Electric	504.952.9968	PBinnings@HiTechelectric.com
Hunter Badeaux	Hi-Tech Electric	504 451 5293	hbadeaux@Hitechelectric.com
Brian James	Gootee	985 201 4197	bjames@gootee.com
Matt Fleming	NOIW	504-256-2171	mfle[illegible]@[illegible]
Scott Picou	BGSN	504-416-2177	SPicou@BGSN Mechanical.com
Hale Gonzales	Metro Mechanical	985-630-3160	Hale@MetroMechanical.net
Pat Bordelon	OTS	[illegible]	pat@cisindustries.com

PARISH ENGINEERING

SIGN IN SHEET

Chiller Replacement, Central Plant
Southern University, New Orleans, LA
Project #19-671-22-01, F.19002575
Parish Engineering Project #25-039

Date: October 23, 2025
Pre-Bid Meeting
Bid Date: November 10, 2025 @ 10:30am

Name	Company	Phone	Email Address
John Maillet	Mechanical Resource Contractor	(504) 491-4712	[illegible]
Michael Fernandez	Gallo Mechanical	504-908-2310	Michael.Fernandez@gallomech.com
Chris Loupe	CMC	225-806-3816	cloupe@calmech.net
Jason Dorcey	Resilient Energy	504-628-4959	jason.dorcey@resrentals.com
Michael Rumpel	NOJW	228-234-8979	MichaelRumpel21@gmail.com
Chad Folse	JCI	504 235 2506	chad.s.folse@jci.com
Scott Oestriecher	ARC Mechanical	985-661-9191	estimating@arcmechanical.net
Lance Boradora	Parish Engineering	225-603-5665	lboradora@parisheng.com
Ken Dawson	SU Facilities System	225-771-2786	kenneth.dawson@sus.edu
Marilyn Manuel	SUNO	(504) 286-5020	MManuel@suno.edu
Ricky Barksdale	JCI	(225) 209-4428	[illegible]@jci.com

MECHANICAL GENERAL NOTES

1. ALL WORK BY CONTRACTORS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, INCLUDING THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE.
2. MATERIALS FURNISHED UNDER THE CONTRACT SHALL BE NEW & SHALL BEAR THE UL LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION & ACCEPTANCE BY THE OWNER, LONGER IF STATED OTHERWISE ELSEWHERE IN THE SPECIFICATION.
3. CONTRACTOR SHALL INSTALL SYSTEMS WITHOUT INTERFERENCE & PROVIDE MANUFACTURER'S RECOMMENDED AIR & SERVICE CLEARANCES. CONTRACTOR SHALL COORDINATE WITH ALL TRADES & DISCIPLINES.
4. MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR ON LOCATION OF ALL FIRE & SMOKE WALL PENETRATIONS. GENERAL CONTRACTOR SHALL FRAME OUT OPENING AS REQUIRED FOR LIFE SAFETY DAMPERS. PROVIDE LIFE SAFETY DAMPERS WHERE SHOWN ON DRAWINGS AND WHERE REQUIRED BY NFPA AND LOCAL BUILDING CODES.
5. ALL FIRE DAMPERS SHALL BE 2-HOUR RATED UNLESS SPECIFIED OR NOTED OTHERWISE ON DRAWINGS AND/OR SPECIFICATIONS.
6. SEAL ALL FIRE WALL PENETRATIONS (DUCT, PIPE, ETC.) WITH UL-LISTED FIRE CAULK IN ACCORDANCE WITH NFPA 101.
7. MECHANICAL CONTRACTOR SHALL COORDINATE BETWEEN ELECTRICAL AND OTHER TRADES FOR PENETRATIONS AT WALLS, FLOORS AND ROOFS, EXACT EQUIPMENT LOCATIONS, AND REQUIRED EQUIPMENT SERVICE AND AIR FLOW CLEARANCE.
8. INSTALLATION OF DUCTWORK SHALL TAKE PRECEDENCE OVER INSTALLATION OF PLUMBING PIPING THAT IS NOT GRADE SENSITIVE (SEWER, STORM DRAINAGE, GREASE WASTE, ETC.) AND ELECTRICAL CONDUIT. CONTRACTOR TO COORDINATE CEILING SPACE AVAILABLE, EXACT MECHANICAL ROOM LAYOUT, DUCT AND PIPE ROUTING AND EXACT EQUIPMENT LOCATIONS WITH GENERAL, ELECTRICAL, STRUCTURAL AND PLUMBING CONTRACTORS. PROVIDE OFFSETS AND TRANSITIONS AT OBSTRUCTIONS WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
9. MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION OF THERMOSTATS/TEMPERATURE SENSORS ON WALL. COORDINATE THERMOSTATS/TEMPERATURE SENSORS WITH ALL WALL MOUNTED FURNISHINGS (ART, SCREENS, FURNITURE, ETC.). LOCATE THERMOSTATS AND HUMIDISTATS 4' ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL VISIT THE SITE FOR INSPECTION REGARDING ANY WORK REQUIRED TO COMPLETE THE SCOPE OF WORK FOR THE PROJECT PRIOR TO BID. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR BIDDERS AWARDED THE WORK FOR FAILURE TO EXAMINE SITE PRIOR TO BID.
11. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND VISIT THE SITE AND COORDINATE DUCT, PIPE AND EQUIPMENT SIZES AND ROUTING. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER WHERE DISCREPANCIES OCCUR BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS.
12. CONTRACTOR SHALL REVIEW CEILING SPACE AND MECHANICAL ROOM SPACE AVAILABLE FOR DUCT, PIPING AND EQUIPMENT AND MAKE REQUIRED ALLOWANCES FOR THE SIZE AND ROUTING OF DUCT, PIPING AND EQUIPMENT.
13. MECHANICAL CONTRACTOR TO REVIEW CEILING SPACE AVAILABLE AND VERIFY FIELD MEASUREMENTS AND COORDINATION DRAWINGS PRIOR TO FABRICATING DUCT. BRANCH DUCT RUNS SHOWN DIAGRAMMATICALLY; CONTRACTOR SHALL ROUTE BRANCH DUCT RUNS IN MOST DIRECT MANNER.
14. COORDINATE EXACT LOCATION OF ALL SLAB, FLOOR, WALL AND ROOF PENETRATIONS WITH EXISTING STRUCTURAL BEAMS, JOIST AND COMPONENTS. DO NOT CUT OR MODIFY EXISTING STRUCTURAL COMPONENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER.
15. CONTRACTOR SHALL VERIFY EQUIPMENT TO BE SUPPLIED TO PROJECT CAN BE INSTALLED IN SPACE PROVIDED AND ALL SERVICE AND AIRFLOW CLEARANCES MAINTAINED PRIOR TO ORDERING EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS REQUIRED FOR EQUIPMENT THAT IS SUPPLIED THAT IS DIFFERENT THAN EQUIPMENT THAT IS BASIS OF DESIGN.
16. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT AND RELATED SYSTEM COMPONENTS FOUND POSITIVE FOR MOLD, MILDEW, ASBESTOS, HARMFUL BACTERIA OR ANY OTHER CONTAMINATION BE PLACED INTO SERVICE.
17. INSTALL DUCT SLEEVES IN WALLS AS HIGH AS POSSIBLE, DUCT SLEEVE SHALL EXTEND PAST WALL PENETRATION ON BOTH SIDES MINIMUM 24". RETURN AIR TRANSFER SLEEVES SHALL BE PROVIDED WITH TWO (2) DUCT ELBOWS.
18. COORDINATE ALL UNDERGROUND PIPING & WORK WITH EXISTING SYSTEMS, INCLUDING EXISTING UTILITIES, SEWER, GAS, DOMESTIC WATER, CHILLED/HEATING WATER, ELECTRIC DUCT BANKS AND POWER. NOT ALL EXISTING SYSTEMS SHOWN. COORDINATE ALL EXISTING SYSTEMS PRIOR TO BEGINNING WORK. MARKED UTILITIES AND EXISTING SYSTEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AND REPAIRED BACK TO ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONSTRUCTION CONTRACT.
19. MODEL NUMBERS SCHEDULED/SPECIFIED REPRESENT THE TYPE AND QUALITY OF EQUIPMENT REQUIRED TO MEET THE DESIGN REQUIREMENTS. CONTRACTOR SHALL REVIEW SUBMITTALS AND VERIFY EQUIPMENT SIZES, QUALITY AND PERFORMANCE REQUIREMENTS MEET SPECIFICATIONS PRIOR TO SUBMITTING FOR APPROVAL. EQUIPMENT THAT DIFFERS FROM BASIS OF DESIGN IS SUBJECT TO REJECTION. CONTRACTOR TO COORDINATE ALL DIFFERENCE IN EQUIPMENT WITH STRUCTURAL, ELECTRICAL AND PLUMBING CONTRACTORS.
20. ALL CONDENSATE LINES SHALL BE RIGID COPPER, INSULATED WITH CELLULAR FOAM UNLESS NOTED OTHERWISE OR SUBMITTED AND APPROVED BY MECHANICAL ENGINEER. SUPPORT WITH UNISTRUT PIPE EVERY 4' AND AT TURNS. PROVIDE NEOPRENE SLEEVES BETWEEN UNISTRUT AND COPPER CONDENSATE LINE.
21. DUCT SIZES SHOWN ARE SHEET METAL SIZES. ALLOWANCES HAVE BEEN INCLUDED FOR INTERNAL LINER WHERE APPLICABLE.
22. COORDINATE EXACT LOCATION OF AIR DEVICES WITH NEW AND EXISTING LIGHTS TO BE INSTALLED PRIOR TO CONSTRUCTION.
23. EXPOSED DUCTWORK SHALL BE PAINT GRIPPED SHEET METAL UNLESS INDICATED OTHERWISE. ALL EXPOSED DUCT TO BE PAINTED IN FIELD BY PAINTING CONTRACTOR DURING CONSTRUCTION. COORDINATE WITH ARCHITECT & MECHANICAL ENGINEER PRIOR TO INSTALLATION OF EXPOSED DUCT AND COLOR. EXPOSED DUCTWORK SHALL BE FREE OF SIZE MARKS OR ASSEMBLY CODE NUMBERS; ALL MARKS SHALL BE ON THE INSIDE OF DUCTWORK. KEEP OUTSIDE SURFACES OF DUCT CLEAN DURING FABRICATION. BANDS SHALL JOIN ON TOP, CONCEALED FROM NORMAL VIEW OF THE DUCT AND SPIRALS SHALL BE CONTINUOUS. THREADED RODS FROM HANGER STRAPS SHALL BE NEATLY CLIPPED AND SECURED WITHOUT EXCESS. GREATER ATTENTION TO APPEARANCE FOR EXPOSED DUCT IS EXPECTED AND DENTED/SCARRED DUCTS SHALL NOT BE ACCEPTABLE.
24. PROVIDE ELECTRICAL DISCONNECTS FOR MECHANICAL EQUIPMENT (VAV BOXES, FANS, VFD'S, ETC.) FACTORY INSTALLED BY EQUIPMENT MANUFACTURER UNLESS NOTED OTHERWISE. COORDINATE WITH ELECTRICAL CONTRACTOR.
25. DO NOT ROUTE PIPING CONTAINING WATER OVER ELECTRICAL EQUIPMENT.
26. PROVIDE PERMANENT LABELS FOR ALL SCHEDULED EQUIPMENT. LABELS SHALL BE MINIMUM 3/8" ENGRAVED BLACK LETTERS ON WHITE BACKGROUND, CONSTRUCTED OF MINIMUM 1" WIDE, LENGTH AS REQUIRED LAMINATED PLASTIC. SECURELY FASTENED TO EQUIPMENT WITH STAINLESS STEEL OR NONCORRODING HARDWARE. STICK ON LABELS NOT ACCEPTABLE.
27. EXHAUST OUTLETS SHALL BE LOCATED MINIMUM 10' FROM ANY AIR INTAKE OR OPERABLE BUILDING OPENING.
28. INDOOR MINISPLITS, FAN COIL UNITS AND CEILING CASSETTES SHALL HAVE GRAVITY DRAINAGE WHERE POSSIBLE. PROVIDE WITH INTEGRAL CONDENSATE PUMPS WHERE NOT POSSIBLE.
29. PROVIDE RETURN AIR GRILLES OPEN TO RETURN AIR PLENUM WITH SOUND ATTENUATING BOOT ON REAR OF GRILLE (RIGID DUCT WITH INSULATED LINER & TWO ELBOWS, END OPEN TO RETURN AIR PLENUM). CONTRACTOR HAS OPTION TO PROVIDE PRICE MODEL #RAC RETURN AIR CANOPY ON REAR OF RETURN AIR GRILLES OPEN TO RA PLENUM IN LIEU OF SOUND ATTENUATING BOOT.
30. ELECTRONIC BALANCING DAMPERS : MANUAL DAMPER AT INACCESSIBLE LOCATIONS:
    - 30.1. PROVIDE REMOTE BALANCING DAMPER WITH POSITION INDICATOR AT INACCESSIBLE MANUAL VOLUME DAMPERS
    - 30.2. INACESSIBLE LOCATIONS:
    - 30.2.1. ABOVE GYPSUM BOARD/HARD CEILING
    - 30.2.2. WHERE LOCATED HIGHER THAN 4'-0" ABOVE ACCESSIBLE CEILING TILE
    - 30.2.3. WHERE LOCATED ABOVE 14'-0" FROM FINISHED FLOOR
    - 30.2.4. REFER TO ARCHITECTURAL REFLECTED CEILING DRAWINGS FOR REFLECTED CEILING PLAN
    - 30.3. ELECTRONIC BALANCING DAMPER SHALL BE PROVIDED WITH POSITION INDICATOR AND SHALL BE GREENHECK MODEL RBDR-50 (ROUND) & RBD-10 (RECTANGULAR) OR APPROVED EQUAL, UNLESS INDICATED OTHERWISE.
    - 30.4. REMOTE BALANCING DAMPER SHALL BE 12 VOLT DC POWER BALANCE SYSTEM (DAMPER, PULSE ACTUATOR , CAT 5 CABLE, WALL OR CEILING PLATE AND HAND HELD POWER PACK). PROVIDE WALL/CEILING ACCESS PORT ON WALL WITHIN CLOSEST MECHANICAL ROOM OR ABOVE ACCESSIBLE CEILING MOUNTED ON WALL. ALL ACCESS PORTS TO BE PROPERLY LABELED NUMERICALLY BY RESPECTIVE AIR SYSTEM & ROOM DAMPER SERVES. COORDINATE WITH MECHANICAL ENGINEER PRIOR TO LABELING & COORDINATE LOCATION WITH MECHANICAL ENGINEER & ARCHITECT PRIOR TO INSTALLING ANY ACCESS PORT ABOVE ACCESSIBLE CEILINGS. PROVIDE TILE IDENTIFICATION WHERE LOCATED ABOVE CEILING, PROVIDE DRAWING IDENTIFYING PORT LOCATION & PORT SCHEDULE AS PART OF CLOSE OUT DOCUMENTS.
31. PROVIDE U.L. LISTED SMOKE DETECTORS IN THE MAIN SUPPLY DUCT AND RETURN ON THE DOWNSTREAM SIDE OF THE FILTERS IN ALL RECIRCULATING AIR SYSTEMS HANDLING OVER 2000 C.F.M. NOTE: SMOKE DETECTORS TO BE WIRED TO BUILDING FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR, FIRE ALARM CONTRACTOR IS TO PROVIDE AND INSTALL ALL WIRING, TERMINATIONS, ETC. TO PROVIDE A COMPLETE, PROPERLY FUNCTIONING AND OPERATING SYSTEM.
32. PROVIDE SMOKE DAMPER IN THE MAIN SUPPLY & RETURN DUCT IN ALL AIR HANDLING UNITS HANDLING OVER 15,000 CFM. SMOKE DAMPERS TO BE INTERCONNECTED TO SMOKE DETECTORS.
33. PROVIDE ACCESS PANELS FOR EQUIPMENT,VALVES, DAMPER, ETC. LOCATED ABOVE A NON ACCESSIBLE CEILING. ACCESS PANELS SHALL BE LARGE ENOUGH FOR ALL REQUIRED MAINTENANCE, ADJUSTMENT, ECT. PROVIDE MULTIPLE ACCESS PANELS AS REQUIRED. COORDINATE COLOR AND LOCATIONS WITH ARCHITECT. PROVIDE FIRE AND/ OR SMOKE RATED ACCESS PANELS WHERE REQUIRED IN RATED CEILINGS. REFERENCE ARCHITECTURAL DRAWINGS FOR RATED CEILING LOCATIONS. WHERE ACCESS PANELS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN, COORDINATE EXACT LOCATION OF EQUIPMENT, DEVICES, ETC. WITH ACCESS PANEL LOCATIONS.
34. PROVIDE TEMPORARY CAPS/PLUGS/COVERING ON ALL OPEN ENDED PIPING & DUCT DURING CONSTRUCTION TO PREVENT DIRT/DEBRIS FROM ENTERING PIPE/DUCT SYSTEMS.
35. PROVIDE PROTECTIVE LOCKABLE THERMOSTAT COVERS FOR THERMOSTATS. COORDINATE WITH OWNER.
36. MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR ON LOCATION OF ALL FLOOR DRAINS & HUB DRAINS AS NOT TO INTERFERE WITH EQUIPMENT & EQUIPMENT PADS. COORDINATE NEW FLOOR DRAIN & HUB LOCATION WHERE EQUIPMENT DOES NOT ALLOW FOR THE INSTALLATION SHOWN FOR DRAIN. COORDINATE HEIGHT OF HUB DRAINS FOR FAN COIL UNITS & CEILING CASSETTES.
37. PROVIDE TRANSITIONS FROM REAR OF ALL GRILLES TO BRANCH DUCTS AND TO ALL EQUIPMENT AS REQUIRED. REFER TO CONSTRUCTION DOCUMENTS FOR SIZES OF GRILLES AND DUCTS.
38. PRESSURE TEST ALL REUSED/REROUTED PIPING SYSTEMS. TESTING SHALL BE PERFORMED AT NORMAL SYSTEM OPERATING PRESSURE UNLESS INDICATED/SPECIFIED OTHERWISE. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS ARE PROVEN TIGHT WITHOUT LEAKS.
39. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
40. LOCATE ALL TEMPERATURE PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER.
41. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI318, PART ENTITLED “CONSTRUCTION REQUIREMENTS.” COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
42. COORDINATE ALL EQUIPMENT CONNECTION WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
43. MINIMUM CONCRETE PAD THICKNESS SHALL BE 4 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS 15 LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.
44. INSTALL TRANSITION DUCT FROM INLET AND OUTLET OF EQUIPMENT TO DUCT SIZE SHOWN ON PLANS; CONSULT EQUIPMENT MANUFACTURER FOR INLET AND OUTLET SIZE.
45. ALL DUCT ELBOWS, BENDS, AND TEES SHALL BE PROVIDED WITH DOUBLE THICKNESS TURNING VANES OR RADIUS ELBOWS UNLESS SHOWN OR NOTED OTHERWISE. ELBOWS IN DISHWASHER, KITCHEN, AND LAUNDRY EXHAUST SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS OF 1.5 TIMES THE WIDTH OF THE DUCT.
46. PROVIDE ESCUTCHEONS AT ALL EXPOSED LOCATIONS WHERE PIPE PENETRATES WALL.
47. THE CONDENSATE DRAIN LINE SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE FLOOR DRAIN; ELEVATE UNIT TO ACCOMMODATE P-TRAP.
48. ALL EQUIPMENT AND DEVICES TO BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF CONTRACT DRAWINGS, SPECIFICATIONS, MANUFACTURERS RECOMMENDATIONS, AND ACCORDING TO CODE.
49. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE DIRECTED IN THESE DOCUMENTS.
50. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION.
51. ALL ROOF CURBS SHALL BE INSTALLED TO THE ROOFING STRUCTURE AND FINISH A MINIMUM 12" ABOVE THE FINISHED ROOF FOR COUNTER FLASH ENDORSED BY ROOF MANUFACTURER. ROOF CURBS SHALL BE PITCHED WHERE REQUIRED TO ENSURE EQUIPMENT IS INSTALLED LEVEL.
52. ALL MISCELLANEOUS ROOFTOP EQUIPMENT SUPPORTS SHALL BE ENDORSED BY BOTH THE RESPECTIVE EQUIPMENT MANUFACTURER AND ROOF SYSTEM MANUFACTURER.
53. ALL WALL APPLIED ITEMS SHALL BE INSTALLED PLUMB, LEVEL AND IN LOCATIONS DESIGNATED IN CONTRACT DOCUMENTS. ALL DEVICE COVERS AND TRIM SHALL FIT TIGHT TO WALL SURFACE ON ALL SIDES. WHERE SPECIFIC LOCATIONS FOR ITEMS NOT SHOWN OR CLEAR, CONTRACTOR SHALL OBTAIN CLARIFICATION AND DIRECTION FROM ARCHITECT AND MECHANICAL ENGINEER PRIOR TO INSTALLATION.
54. ALL FLEX DUCT SERVING DIFFUSERS SHALL BE LIMITED TO RUNS OF 6'. FLEX DUCT SHALL BE FLEXMASTER 1M-R6 OR APPROVED EQUAL AND USE STAINLESS STEEL (OR NYLON IF APPROVED BY MECHANICAL ENGINEER) TO CONNECT FLEX TO DUCT AND GRILLES.
55. FLEXIBLE DUCT NOT ACCEPTABLE FOR EXHAUST, RETURN AND FRESH AIR SYSTEMS UNLESS SPECIFIED OR NOTED OTHERWISE. FLEX DUCT SHALL NOT PENETRATE ANY WALLS UNLESS SUBMITTED AND APPROVED ON TO BOTH THE ARCHITECT AND MECHANICAL ENGINEER.
56. PROVIDE ADDITIONAL SUSPENDED SUPPORTS AS REQUIRED TO PREVENT FLEXIBLE DUCT FROM CONTACTING THE CEILING MATERIAL AND/OR CEILING FRAME/GRID ASSEMBLY.
57. ALL ROUND TAPS OFF RECTANGULAR DUCTWORK TO DIFFUSERS SHALL BE MADE WITH HIGH EFFICIENCY SIDE TAKEOFFS WITH 2" INSULATION STANDOFF BRACKETS AND LOCKING QUADRANT, FLEXMASTER MODEL STOD-BO3 OR APPROVED EQUAL.
58. ALL GRILLES LOCATED IN LAY-IN CEILINGS SHALL HAVE 24x24 FRAMES, STYLES TO FIT THE GRID TYPE, EITHER 15/16" OR 9/16" GRID, VERIFY GRID WITH ARCHITECTURAL DRAWINGS. PROVIDE PLASTER FRAMES FOR SURFACE MOUNT APPLICATIONS, PRICE MODEL AMF OR APPROVED EQUAL.
59. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCT CONNECTIONS TO LOW PRESSURE MAIN DUCTS.
60. ALL EQUIPMENTS SUPPLIED TO THE PROJECT SHALL BE PER SPECIFICATIONS. OBTAINING APPROVED SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR/SUPPLIER OF PROVIDING ALL FEATURES, OPTIONS AND ACCESSORIES INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS.

SCHEDULE - WATER COOLED CENTRIFUGAL CHILLERS

MARK	COOLING CAPACITY	STARTER TYPE	AMBIENT TEMP	REFRIGERANT	REF CHARGE	EVAPORATOR EWT	EVAPORATOR LWT	EVAPORATOR WATER FLOW DESIGN	EVAPORATOR WATER FLOW MINIMUM	EVAPORATOR WATER FLOW MAXIMUM	EVAPORATOR PRESSURE DROP DESIGN	CONDENSER EWT	CONDENSER LWT	CONDENSER WATER FLOW DESIGN	CONDENSER WATER FLOW MINIMUM	CONDENSER WATER FLOW MAXIMUM	CONDENSER PRESSURE DROP DESIGN	ELECTRICAL SERVICE VOLTS	PH	HZ	MCA	MOCP	FLA	MAX LRA	FULL LOAD EFFICIENCY	NPILV	WEIGHT	MANUFACTURER / MODEL
CH-3(E)	780.0 ton	VFD	95 °F	R-513A	1484 lb	55 °F	45 °F	1872 GPM	963 GPM	3323 GPM	15.90 psi	85 °F	94 °F	2340 GPM	2096.00 psi	7381 GPM	14.70 psi	480 V	3	60	710 A	1200 A	568 A	4400 A	0.5741 kW/ton	0.3475 kW/ton	30000 lb	YORK YKKGKLP9-EVH OR APPROVED EQUAL

SCHEDULE - EXISTING COOLING TOWER

MARK	WATER GPM	EWT	WATER TEMP DROP	AMBIENT WB TEMP	STARTER TYPE	STARTER LOCATION	FAN MOTOR HP	FAN MOTOR VOLTS	FAN MOTOR PH	NO. OF CELLS	TYPE	COMMENTS
CT-3(E)	2340	95°F	85°F	80°F	VFD	MECH ROOM	60	480 V	3	1	CROSSFLOW	EXISTING COOLING TOWER TO REMAIN

SCHEDULE - EXISTING PUMPS

MARK	GPM	DISC. HEAD FT. WATER	RPM	TYPE	ELECTRICAL DATA HP	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PH	TYPE	LOCATION	COMMENTS
CHP-3(E)	1872	125	1150	DOUBLE SUCTION	100	480 V	3	VFD	NEAR PUMP	EXISTING PUMP TO REMAIN
CP-3(E)	2340	50	1150	DOUBLE SUCTION	40	480 V	3	COMB	NEAR PUMP	EXISTING PUMP TO REMAIN

MECHANICAL SYMBOL LEGEND

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS)

GENERAL

- NEW WORK
- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW EQUIPMENT OR FIXTURE
- MATCHLINE (MATCHLINE 1 / M101)
- GRID LINE
- SECTION SYMBOL (1 / M101 — SECTION, SHEET NUMBER)
- DETAIL SYMBOL (1 / M101 — DETAIL, SHEET NUMBER)
- DIFFUSER TAG (A-500 — CFM, MARK)
- SHEET REFERENCE TAG (RE: 1 / M101 — SHEET NUMBER, VIEW NUMBER)
- GENERAL NOTE
- DEMO NOTE
- REVISION TAG
- TIE INTO
- THERMOSTAT SYMBOL

DUCTWORK

- INTERNALLY INSULATED DUCT
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- RECTANGULAR SUPPLY DUCT UP
- RECTANGULAR SUPPLY DUCT DN
- RECTANGULAR RETURN DUCT UP
- RECTANGULAR RETURN DUCT DN
- RECTANGULAR EXHAUST DUCT UP
- RECTANGULAR EXHAUST DUCT DN
- ROUND SUPPLY DUCT UP
- ROUND SUPPLY DUCT DN
- ROUND RETURN DUCT UP
- ROUND RETURN DUCT DN
- ROUND EXHAUST DUCT UP
- ROUND EXHAUST DUCT DOWN
- MITERED 90º ELBOW WITH DOUBLE DEFLECTION TURNING VANES
- MITERED 45º ELBOW WITH DOUBLE DEFLECTION TURNING VANES
- RADIUS ELBOW
- RECTANGULAR TRANSITION; SYMMETRIC
- RECTANGULAR TRANSITION; ASYMMETRIC
- DUCT WITH FLEXIBLE CONNECTION
- 45º LEAD-IN WITH MANUAL VOLUME DAMPER
- 45º RECTANGULAR TAP
- CHANGE IN RECTANGULAR DUCT ELEVATION; RISE
- CHANGE IN ROUND DUCT ELEVATION; DROP
- DUCT WITH MANUAL VOLUME DAMPER
- DUCT WITH BACK DRAFT DAMPER
- DUCT WITH FIRE DAMPER
- DUCT WITH SMOKE DAMPER
- DUCT WITH COMBINATION FIRE/SMOKE DAMPER
- DUCT WITH MOTORIZED DAMPER
- DUCT WITH HUMIDIFIER
- DUCT WITH ACCESS DOOR
- R/A GRILLE; SEE SCHEDULE FOR SIZE
- E/A GRILLE; SEE SCHEDULE FOR SIZE
- 4-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
- 3-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
- 2-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE
- 1-WAY S/A DIFFUSER; SEE SCHEDULE FOR SIZE

INDEX - MECHANICAL SHEETS

ABBREVIATION LEGEND

AC	AIR CONDITIONING
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFS	AIR FLOW STATION
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AS	AIR SEPARATOR
AV	AIR VENT
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWCF	CHILLED WATER CHEMICAL FEED
CHP	CHILLED WATER PUMP
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
COMP	COMPRESSOR
CP	CIRCULATING PUMP
CU	CONDENSING UNIT
CT	COOLING TOWER
CV	CONTROL VALVE
CW	COLD WATER
CWCF	CONDENSER WATER CHEMICAL FEED
CWR	CONDENSER WATER RETURN
CWP	CONDENSER WATER PUMP
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB TEMP (DEG F)
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPS	DIFFERENTIAL PRESSURE SWITCH
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRICAL
ENT	ENTERING
ECU	ELECTRIC CONDENSING UNIT
ERU	ELECTRIC REFRIGERANT UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EX	EXHAUST
EXT	EXTERNAL
FA	FRESH AIR
FC/FCU	FAN COIL UNIT
FD	FIRE DAMPER
FT	FEET
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FV	FACE VELOCITY
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
GUH	GAS UNIT HEATER
HC	HEATING COIL
HP	HORSEPOWER
HR	HOUR
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
ID	INSIDE DIAMETER
IN	INCHES
KW	KILOWATTS
LVG	LEAVING
MA	MIXED AIR
MAX	MAXIMUM
MD	MOTORIZED DAMPER
MECH	MECHANICAL
NG	NATURAL GAS
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAU	OUTSIDE AIR UNITS
OS&Y	OUTSIDE STEM AND YOKE
OZ	OUNCES (PRESSURE)
PD	PRESSURE DROP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REF	REFERENCE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RND	ROUND
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY AIR FAN
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
TEMP	TEMPERATURE
TOD	TOP OF DUCT
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LISTED
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W /	WITH
W / O	WITHOUT
WB	WET BULB (DEG F)

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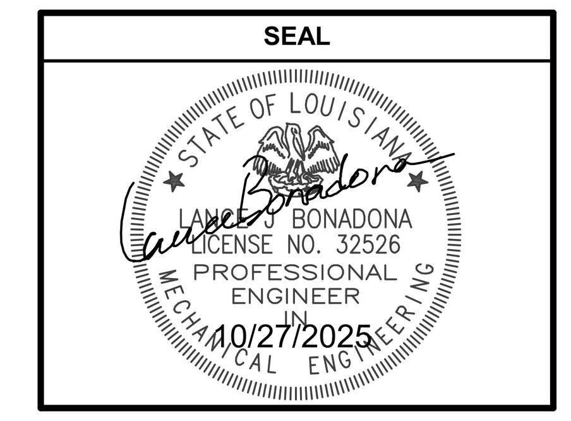
SEAL



PROJECT INFORMATION

CHILLER REPLACEMENT
CENTRAL PLANT
SUNO

NEW ORLEANS, LA

REVISIONS

1	Revision 1	10/27/25

SHEET INFORMATION

DATE:	06/13/2025
DRAWN BY:	CTD
CHECKED BY:	LJB
PROJECT #:	19-671-22-01

SHEET NAME

MECHANICAL COVER SHEET

SHEET NUMBER

M0.0