National Trust for Historic Preservation
Save the past. Enrich the future.

Addendum No. 1

PROJECT: BUILDING SYSTEMS IMPROVEMENTS AT THE PRESIDENT WOODROW WILSON HOUSE

DATE: JULY 8, 2026

RE: ADDENDUM NO. 1 TO REQUEST FOR PROPOSALS, ISSUED JULY 6, 2026

TO: ALL BIDDERS

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated July 6, 2026, and shall be included in the relevant scopes of work and bids submitted. It is the bidder's responsibility to determine if their work is affected by this addendum. Failure to acknowledge receipt of this Addendum on bid submission may subject the Bidder to disqualification.

The Following is AMENDED:

GENERAL NOTES AND CLARIFICATIONS: None

SPECIFICATIONS: Please find attached drawings incorporated into Exhibit A of RFP 2026-9.

END OF ADDENDUM NO. 1

600 14th Street NW Suite 500 Washington, DC 20005
E info@savingplaces.org P 202.588.6000 F 202.588.6038 **SavingPlaces.org**

President Woodrow Wilson House
Mechanical Systems Improvements

Washington, DC



National Trust *for* Historic Preservation

BID DOCUMENTS

JULY 6, 2026

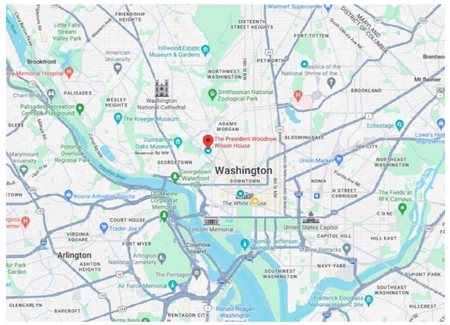
Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
mstoner@savingplaces.org
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500



N D4 G-002 **PROJECT LOCATION**

N.T.S.

DRAWING INDEX

Sheet #	Sheet Name
GENERAL	
G-001	COVERSHEET
G-002	SHEET INDEX, PROJ LOCATION, SITE PLAN, AND GENERAL NOTES
G-100	ORIGINAL DRAWINGS - BASEMENT FLOOR PLAN
G-101	ORIGINAL DRAWINGS - FIRST FLOOR PLAN
G-102	ORIGINAL DRAWINGS - SECOND FLOOR PLAN
G-103	ORIGINAL DRAWINGS - THIRD FLOOR PLAN
G-104	ORIGINAL DRAWINGS - FOURTH FLOOR PLAN
G-105	ORIGINAL DRAWINGS - ELEVATIONS
G-106	ORIGINAL DRAWINGS - OVERALL SECTION
G-107	ORIGINAL DRAWINGS - WALL SECTIONS
ARCHITECTURAL	
A-001	GENERAL ARCHITECTURAL NOTES & EXISTING DETAILS
A-100	BASEMENT ARCHITECTURAL PLAN
A-101	FIRST FLOOR ARCHITECTURAL PLAN
A-102	SECOND FLOOR ARCHITECTURAL PLAN
A-103	THIRD FLOOR ARCHITECTURAL PLAN
A-104	FOURTH FLOOR ARCHITECTURAL PLAN
A-301	OVERALL BUILDING SECTION
MECHANICAL	
M-001	MECHANICAL COVER SHEET
M-002	MECHANICAL COVER SHEET
M-003	MECHANICAL COVER SHEET
MD-100	BASEMENT - MECHANICAL - DEMOLITION
MD-101	FIRST FLOOR - MECHANICAL - DEMOLITION
MD-102	SECOND FLOOR - MECHANICAL - DEMOLITION
MD-103	THIRD FLOOR - MECHANICAL - DEMOLITION
MD-104	FOURTH FLOOR - MECHANICAL - DEMOLITION
MD-200	BASEMENT - MECHANICAL PIPING - DEMOLITION
M-100	BASEMENT - MECHANICAL - NEW YORK
M-101	FIRST FLOOR - MECHANICAL - NEW YORK
M-102	SECOND FLOOR - MECHANICAL - NEW YORK
M-103	THIRD FLOOR - MECHANICAL - NEW YORK
M-104	FOURTH FLOOR - MECHANICAL - NEW YORK
M-501	MECHANICAL DETAILS
M-601	CONDENSATE RISER DIAGRAMS
M-602	CONDENSATE RIDER DIAGRAMS
M-701	MECHANICAL CONTROLS
M-801	MECHANICAL SCHEDULES
ELECTRICAL	
E-001	ELECTRICAL COVER SHEET
ED-100	BASEMENT - POWER - DEMOLITION
ED-101	FIRST FLOOR - POWER - DEMOLITION
ED-102	SECOND FLOOR - POWER - DEMOLITION
ED-103	THIRD FLOOR - POWER - DEMOLITION
ED-104	FOURTH FLOOR - POWER - DEMOLITION
E-100	BASEMENT - POWER - NEW YORK
E-101	FIRST FLOOR - POWER - NEW YORK
E-102	SECOND FLOOR - POWER - NEW YORK
E-103	THIRD FLOOR - POWER - NEW YORK
E-104	FOURTH FLOOR - POWER - NEW YORK
E-200	ELECTRICAL ELEVATION
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL ONE - LINE DIAGRAM - DEMOLITION
E-602	ELECTRICAL ONE - LINE DIAGRAM - NEW YORK
E-603	ELECTRICAL ONE - LINE DIAGRAM - NEW YORK ALTERNATE
E-801	ELECTRICAL SCHEDULES
E-802	PANELBOARD SCHEDULES
E-803	PANELBOARD SCHEDULES

GENERAL PROJECT NOTES

01 THE FOLLOWING GENERAL NOTES APPLY TO THESE CONTRACT DOCUMENTS AND ARE NOT SPECIFIC TO ANY ONE DISCIPLINE.

02 IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.

03 PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR.

04 THE CONSTRUCTION DOCUMENTS ESTABLISH DETAILED MINIMUM REQUIREMENTS FOR THE CONSTRUCTION OF THE PROJECT.

05 THE GENERAL NOTES, SYMBOLS AND DEFINITIONS APPLICABLE ONLY TO EACH DISCIPLINE CAN BE FOUND AT THE FRONT OF EACH DISCIPLINES PORTION OF THE SET OF DRAWINGS AND IS LISTED AS PART OF THE OVERALL PROJECT INDEX OF DRAWINGS.

06 NOT USED

07 THE ARCHITECTURAL DRAWINGS ESTABLISH, COORDINATE AS WELL AS TAKE PRECEDENCE FOR THE FINISH APPEARANCE OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES.

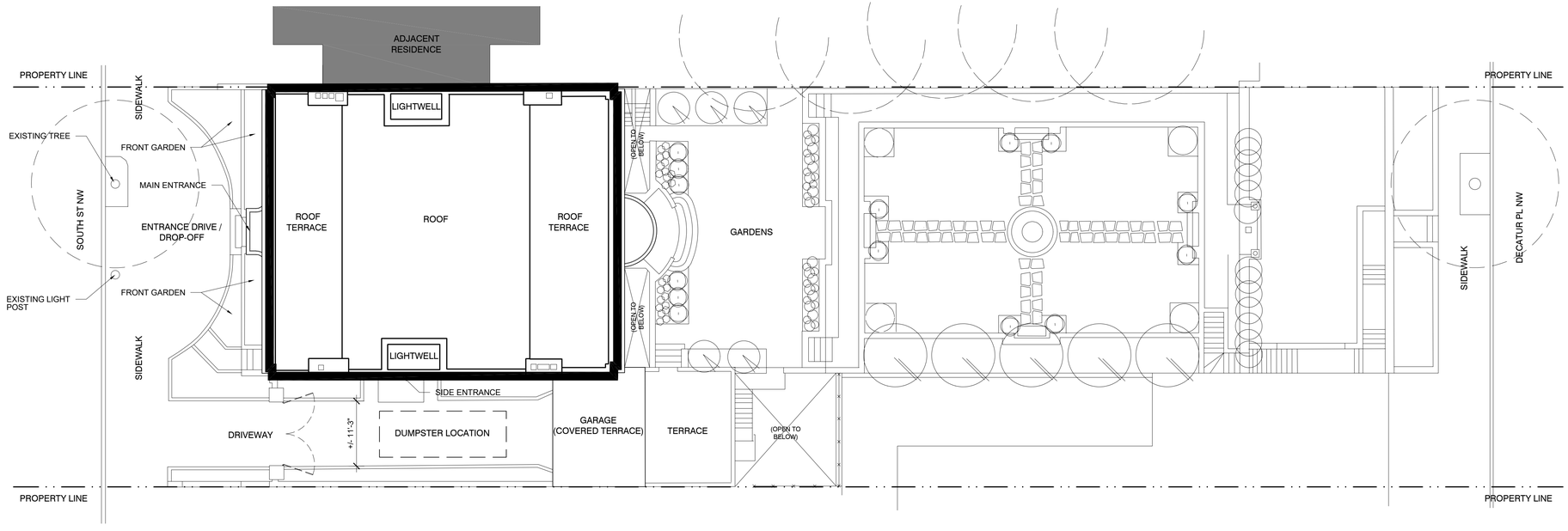
08 THE DRAWINGS MAY MAKE REFERENCE TO AND/OR ILLUSTRATE ITEMS WHICH ARE NOT PART OF THE WORK OF THE CONTRACT. THESE "NOT IN CONTRACT" ITEMS ARE REFERENCED AND/OR ILLUSTRATED FOR THE CONTRACTORS REFERENCE, INFORMATION AND COORDINATION ONLY.

09 THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES OF THE PLACE (WASHINGTON, DISTRICT OF COLUMBIA) WHERE THE PROJECT IS LOCATED - ALTHOUGH SUCH REQUIREMENTS MAY NOT BE REFLECTED BY THESE CONTRACT DOCUMENTS.

10 EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND OR VISUAL FIELD SURVEYS. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES.

11 THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES REQUIRED FOR THE CONSTRUCTION AND OCCUPANCY OF THE PROJECT. THE CONTRACTOR SHALL FURNISH COPIES OF ALL SUCH ITEMS TO THE OWNER WITHIN 10 DAYS OF RECEIPT OF SUCH IF PERMITS ARE ISSUED SUBJECT TO CERTAIN CONDITIONS OR REVISIONS TO THE WORK OR IF PERMITS ARE DELAYED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER.

12 THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN AND PROTECT NEW WORK AS WELL AS EXISTING SYSTEMS AND ELEMENTS WHICH ARE TO REMAIN. ANY DAMAGE TO SUCH SYSTEMS AND ELEMENTS SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE OWNER. IF SATISFACTORY REPAIRS CANNOT BE MADE, THE CONTRACTOR SHALL REPLACE SYSTEMS AND ELEMENTS WITH "LIKE NEW" QUALITY ACCEPTABLE TO THE OWNER. ALL REPAIRS AND REPLACEMENT COST SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.



N A1 G-002 **SITE PLAN**

Scale: 3/32" = 1'-0"

0 5 10 20

FEET SCALE: 3/32"=1'-0"

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/26/26

DRAWN BY: MDS

PROJ. NO.:

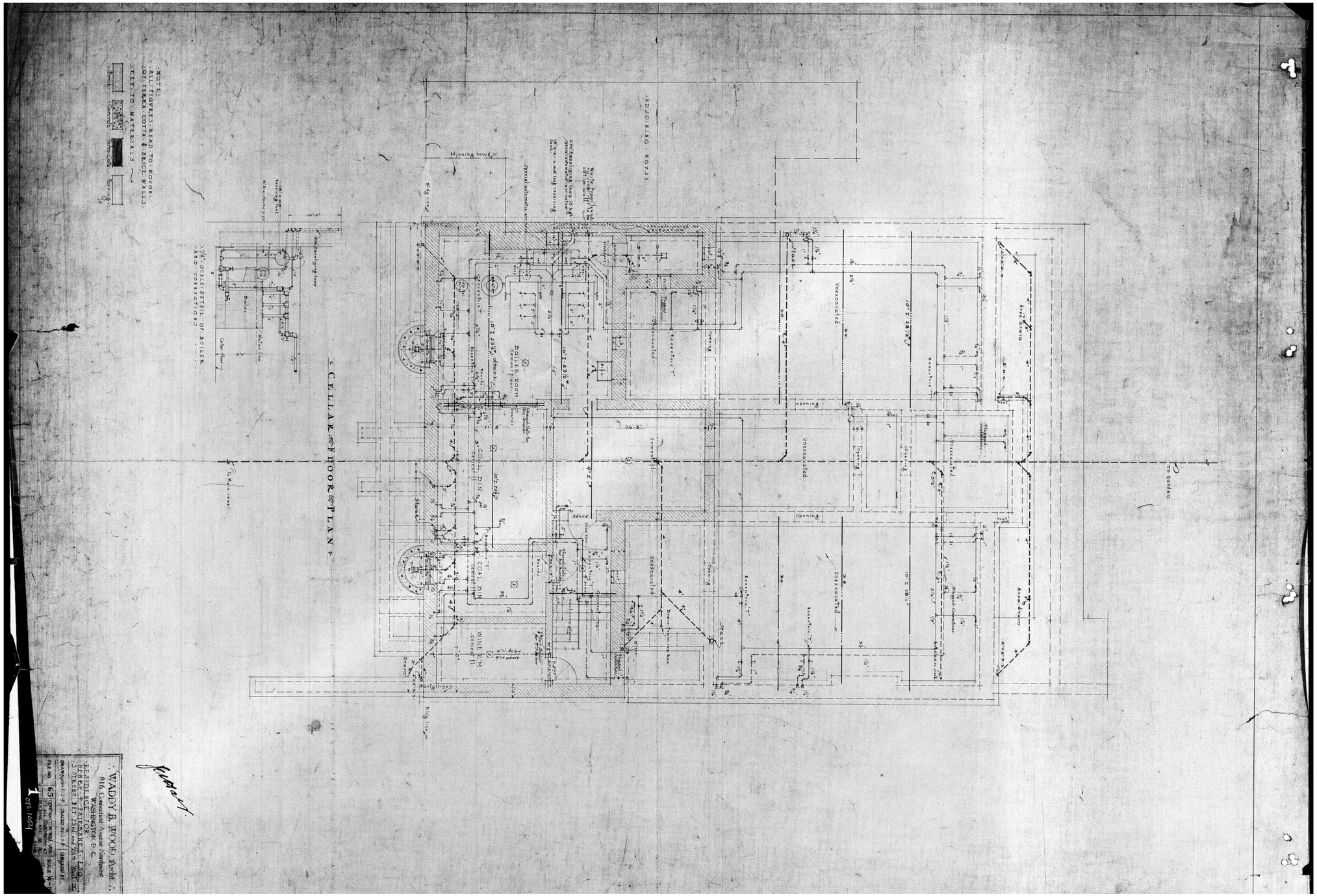
APPROVED BY: MDS

SHEET TITLE

SHEET INDEX, PROJ LOCATION, SITE PLAN, AND GENERAL NOTES

SHEET NO.

G-002



N

A1
G-100

ORIGINAL DRAWING - BASEMENT PLAN

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/26/26

DRAWN BY: MDS

PROJ. NO.:

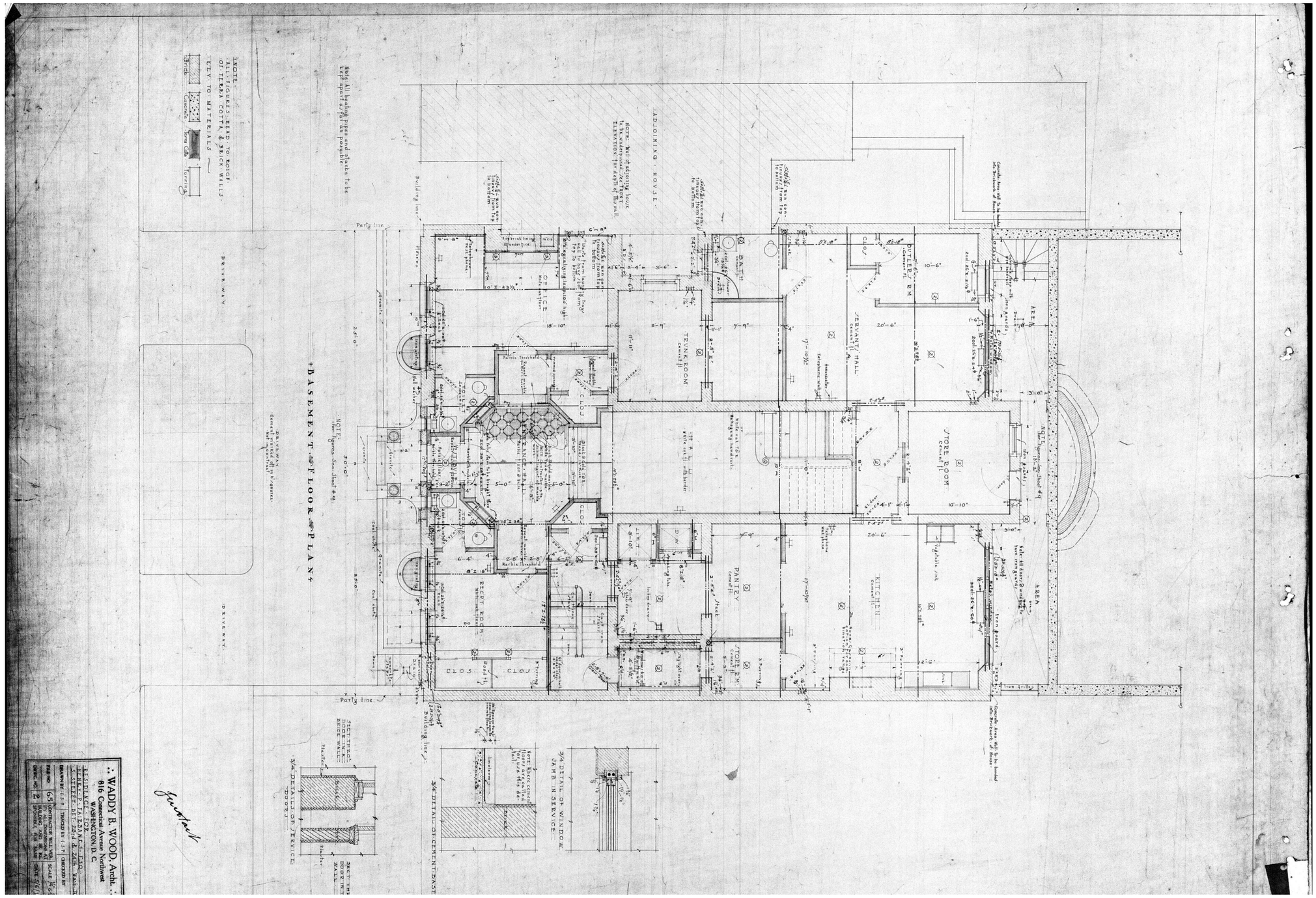
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
BASEMENT PLAN
(FOR REFERENCE)

SHEET NO.

G-100



N

A1
G-101

ORIGINAL DRAWING - FIRST FLOOR PLAN

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

⚠	ISSUED FOR BID	07/06/26

DRAWN BY: MDS

PROJ. NO.:

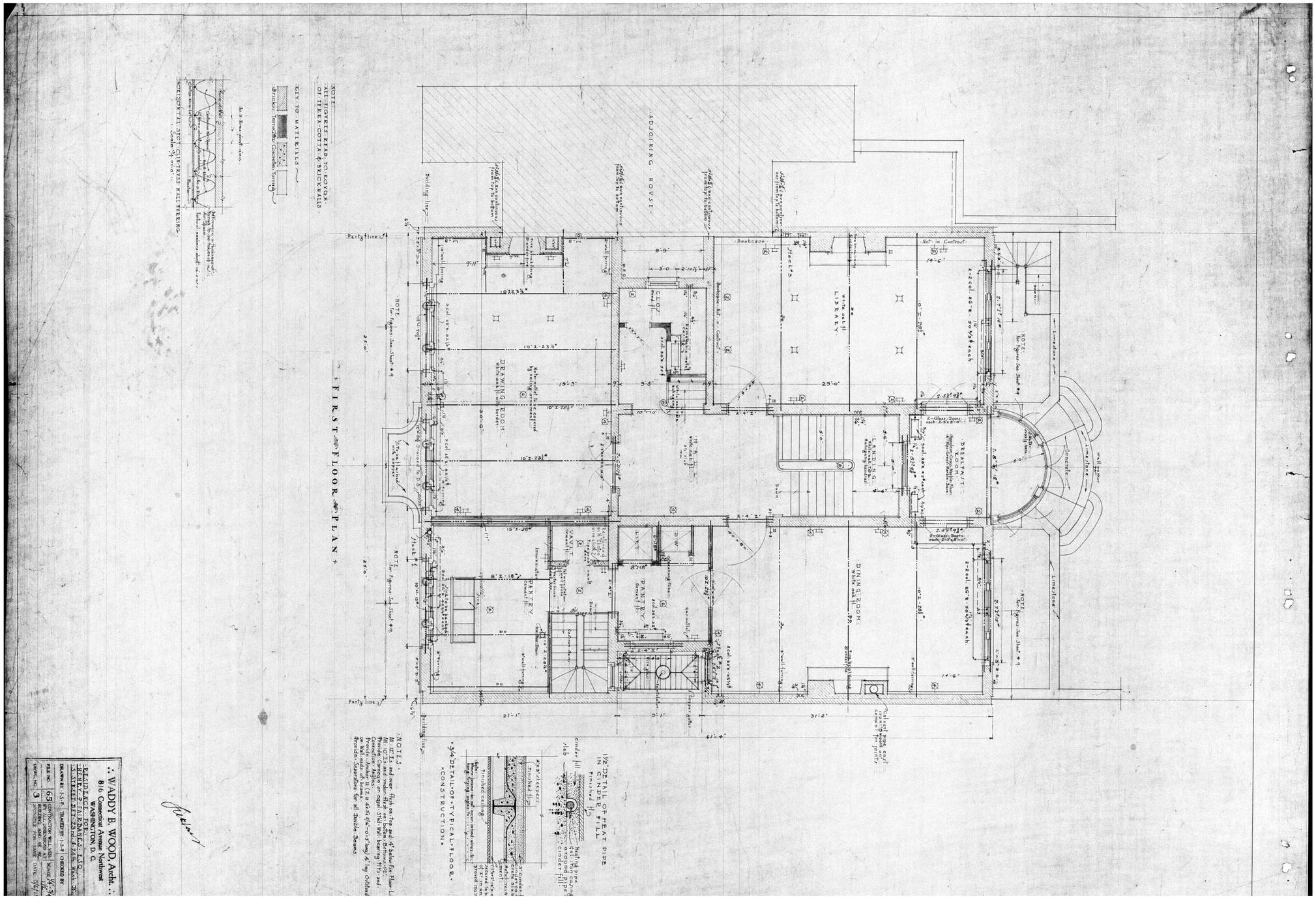
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
FIRST FLOOR PLAN
(FOR REFERENCE)

SHEET NO.

G-101



N

A1
G-102

ORIGINAL DRAWING - SECOND FLOOR PLAN

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

⚠	ISSUED FOR BID	07/06/26

DRAWN BY: MDS

PROJ. NO.:

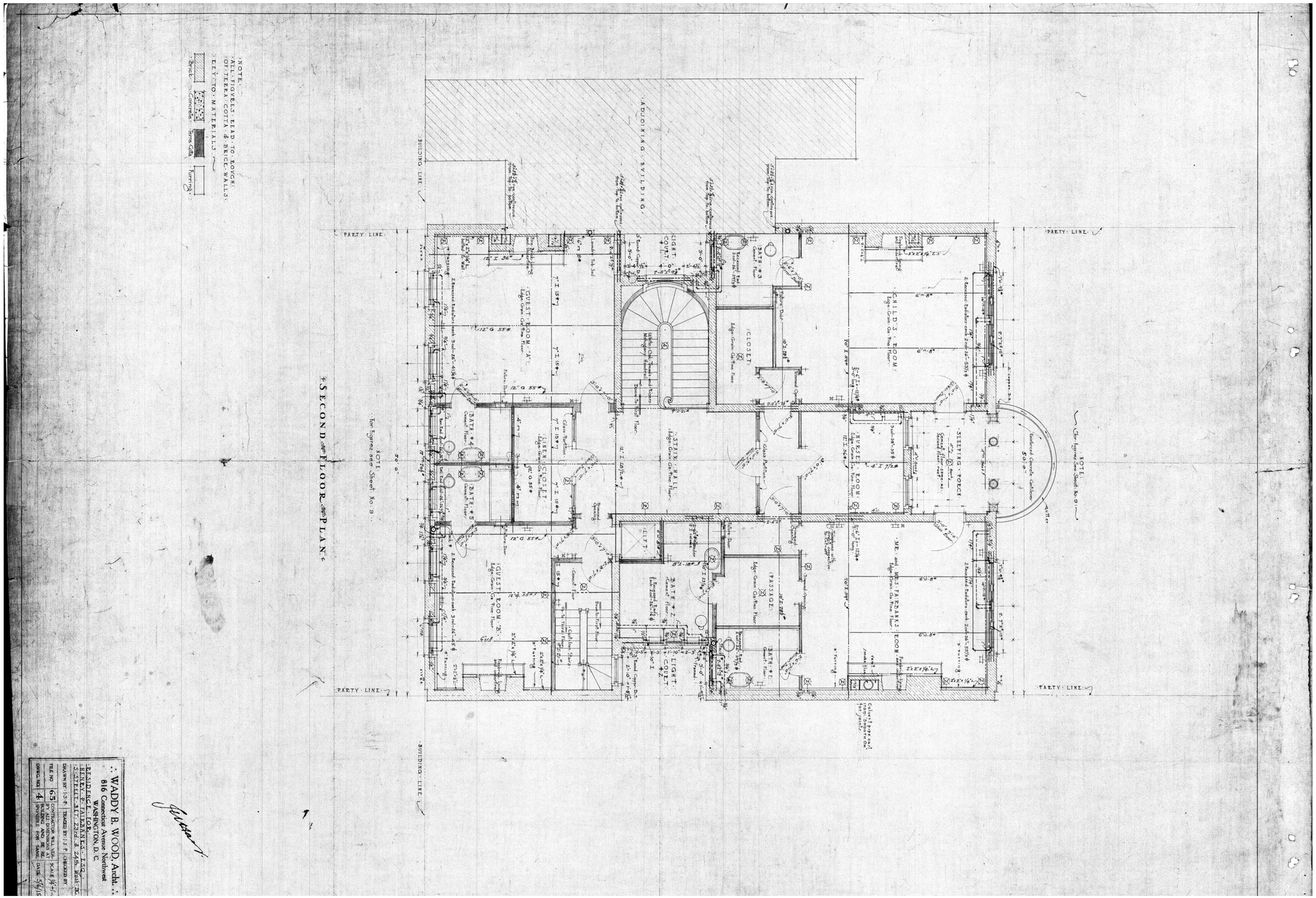
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
SECOND FLOOR PLAN
(FOR REFERENCE)

SHEET NO.

G-102



N

A1
G-103

ORIGINAL DRAWING - THIRD FLOOR PLAN

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

DRAWN BY: MDS

PROJ. NO.:

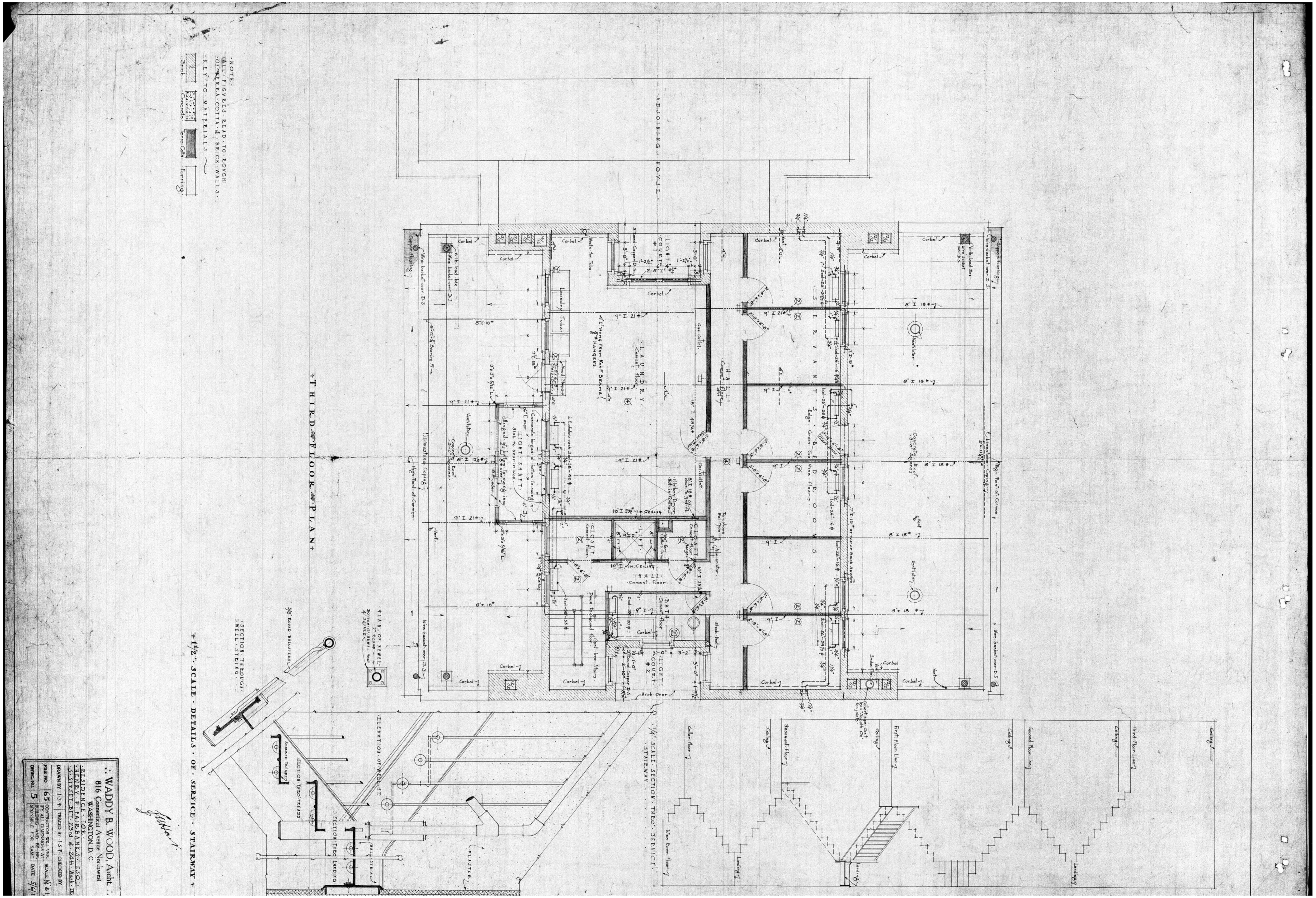
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
THIRD FLOOR PLAN
(FOR REFERENCE)

SHEET NO.

G-103



A1
G-104

ORIGINAL DRAWING FOURTH FLOOR PLAN

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

DRAWN BY: MDS

PROJ. NO.:

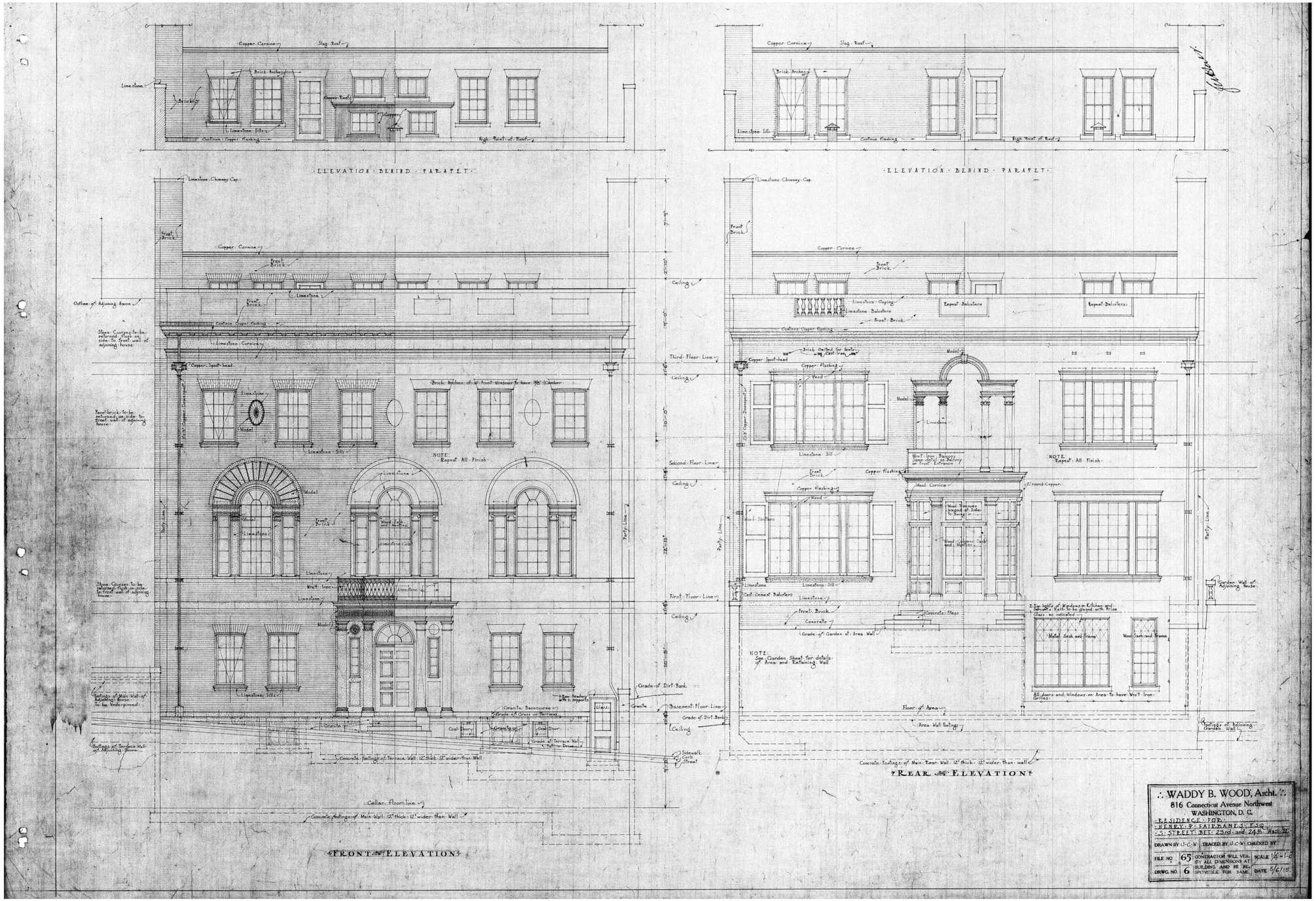
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
FOURTH FLOOR PLAN
(FOR REFERENCE)

SHEET NO.

G-104



N

A1
G-105

ORIGINAL DRAWING - ELEVATIONS

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

DRAWN BY: MDS

PROJ. NO.:

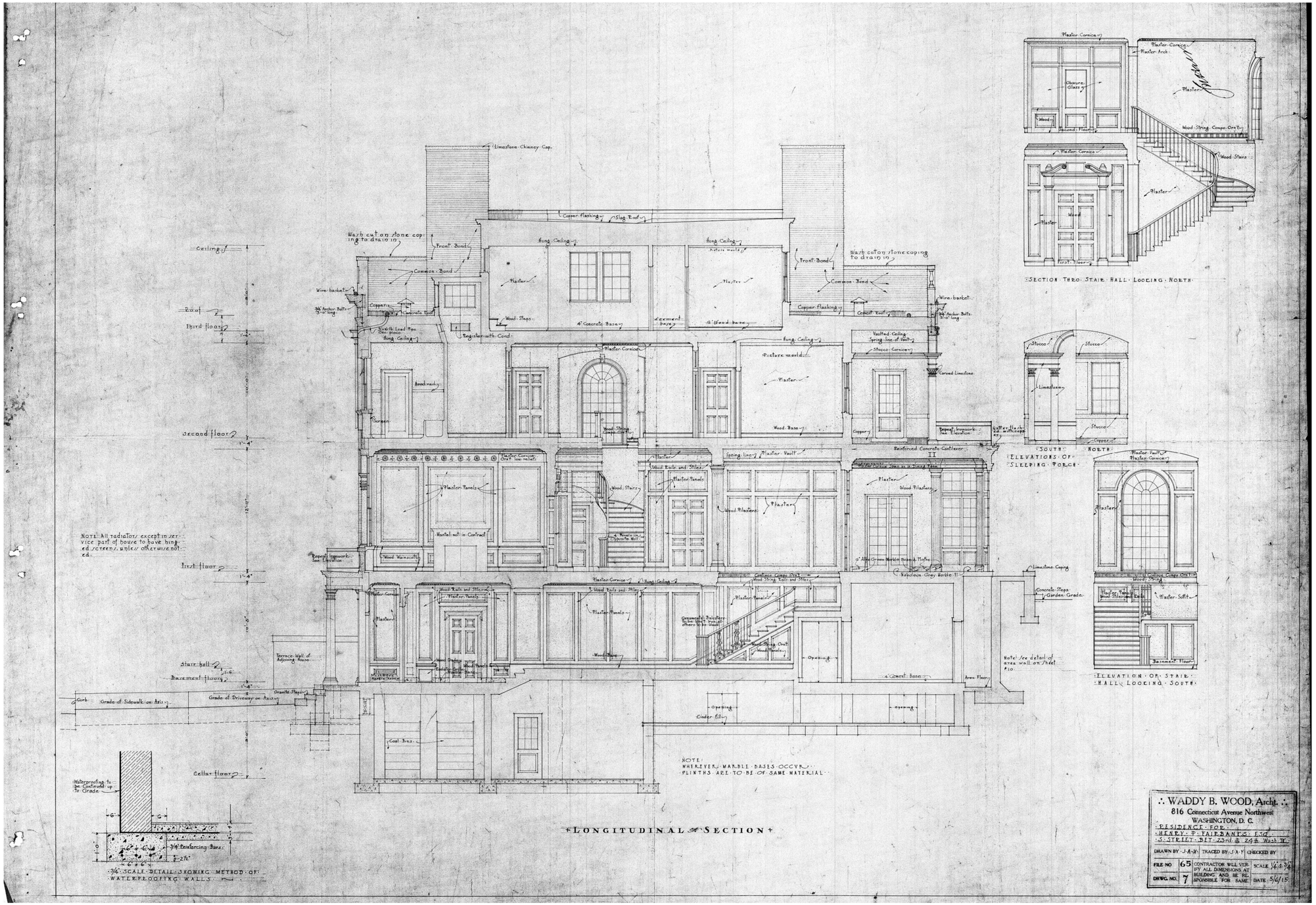
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
ELEVATIONS
(FOR REFERENCE)

SHEET NO.

G-105



N

A1
G-106

ORIGINAL DRAWING - LONGITUDINAL SECTION

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

	ISSUED FOR BID	07/06/26

DRAWN BY: MDS

PROJ. NO.:

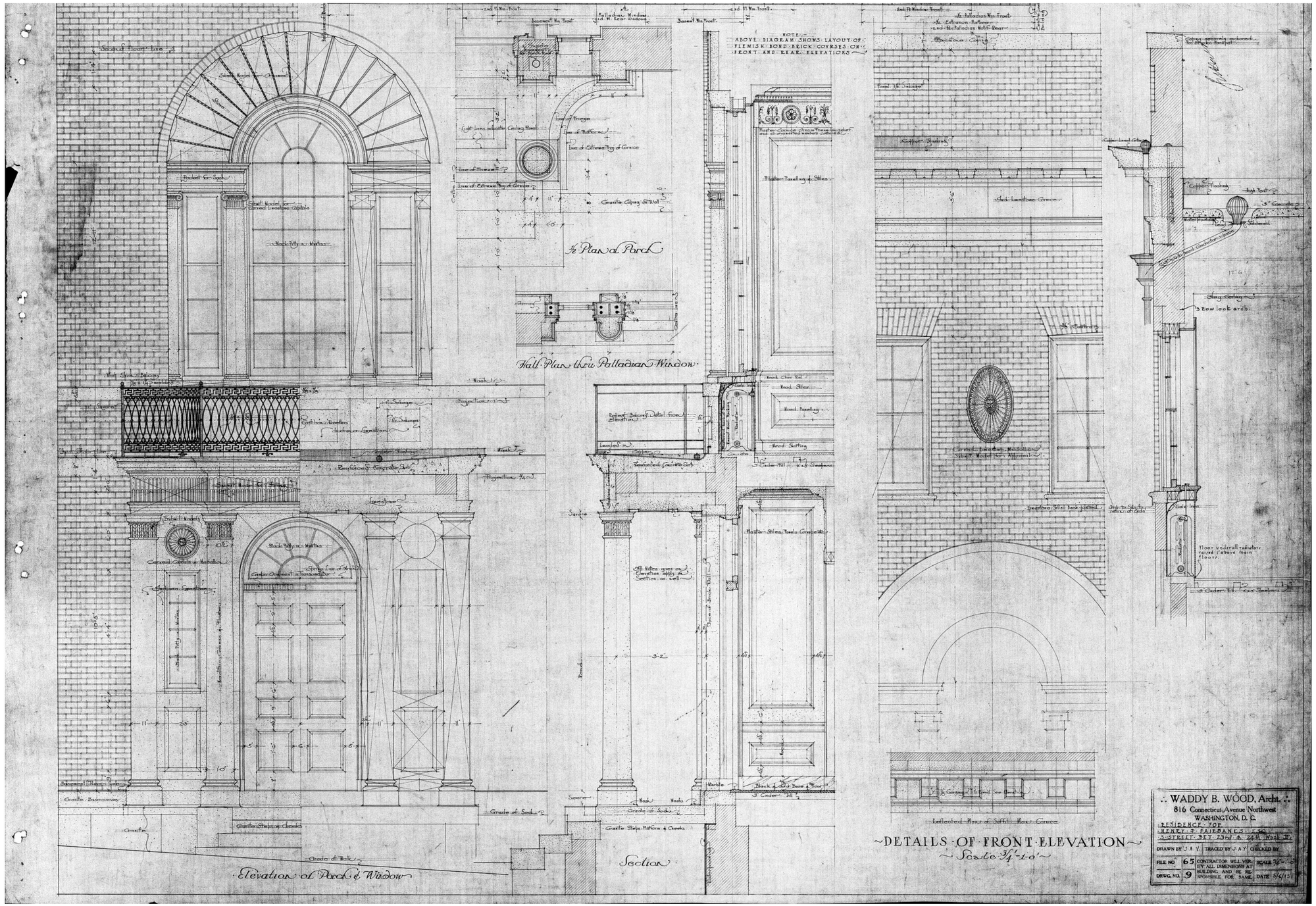
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
OVERALL SECTION
(FOR REFERENCE)

SHEET NO.

G-106



N

A1
G-107

ORIGINAL DRAWING - FRONT ELEVATION DETAILS

N.T.S.

NOTE:
THESE ORIGINAL 1915 DRAWINGS ARE PROVIDED FOR REFERENCE ONLY AND MAY NOT ACCURATELY REPRESENT ACTUAL AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF WORK.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

DRAWN BY: MDS

PROJ. NO.:

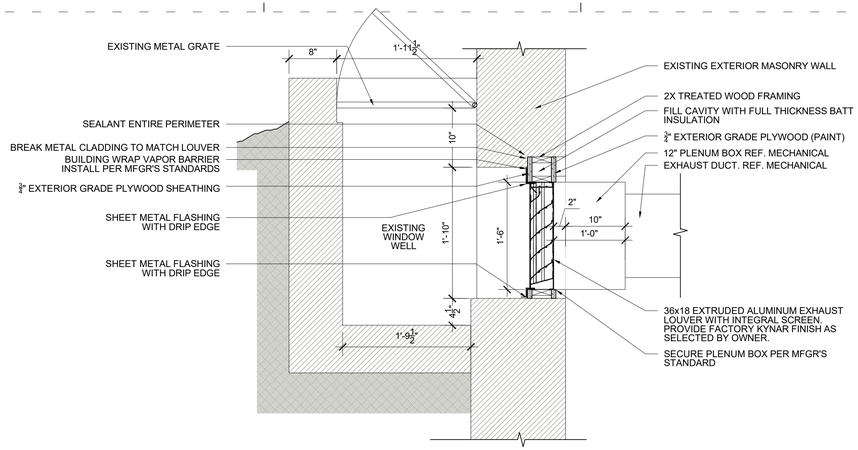
APPROVED BY: MDS

SHEET TITLE

ORIGINAL DRAWINGS
WALL SECTIONS
(FOR REFERENCE)

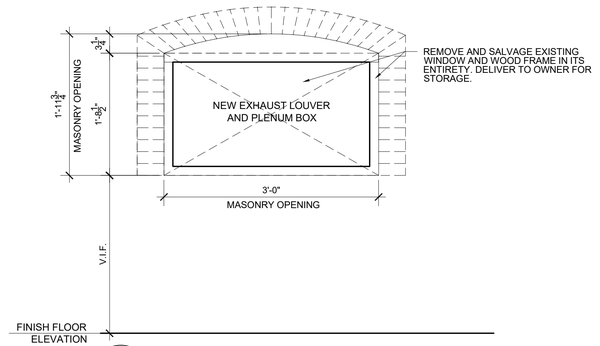
SHEET NO.

G-107



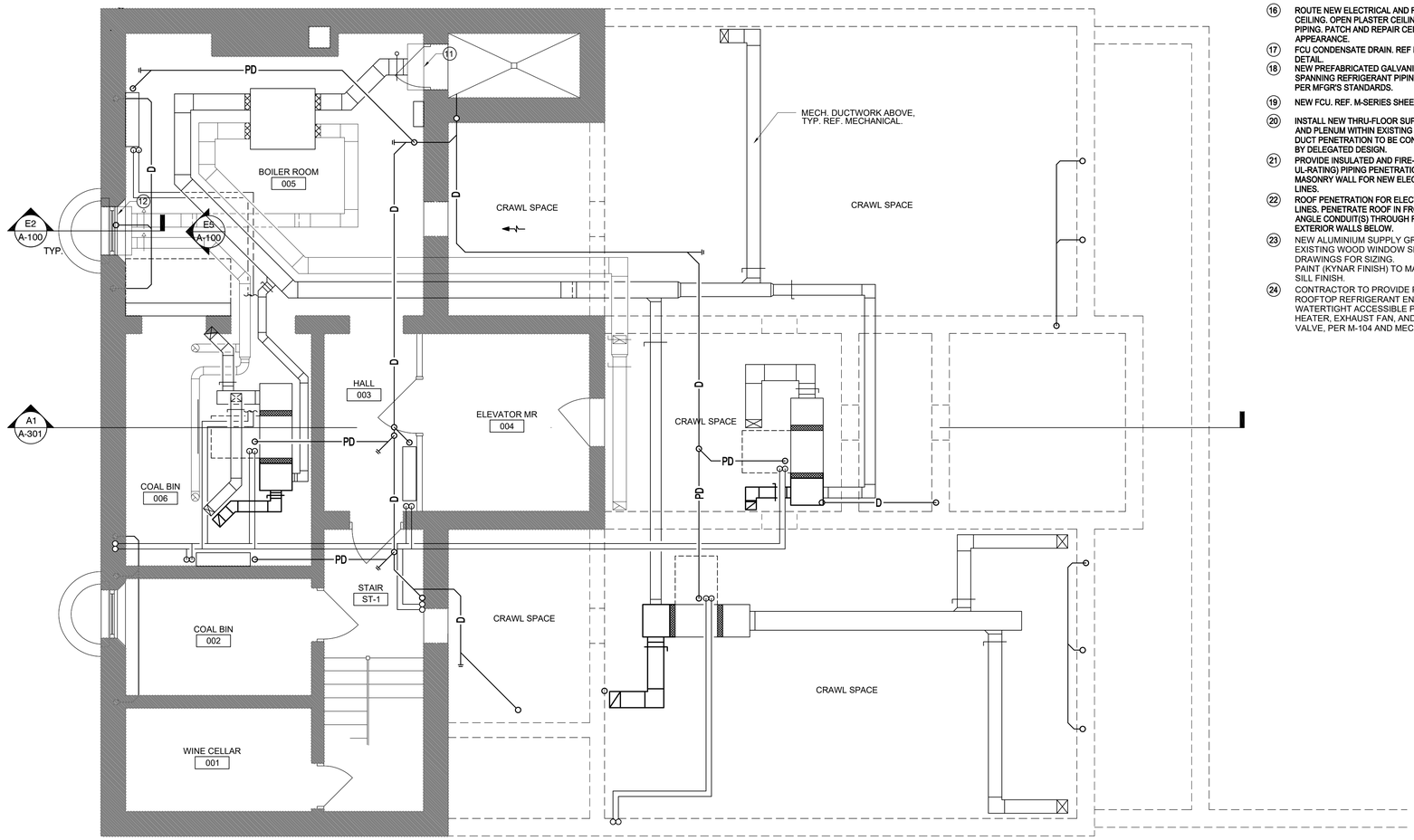
E2 / A-100 EXHAUST LOUVER DETAIL

Scale: 1" = 1'-0"



E5 / A-100 EXHAUST LOUVER ELEVATION

Scale: 1" = 1'-0"



N / A1 / A-100 BASEMENT FLOOR PLAN

Scale: 1/4" = 1'-0"

PLAN KEYNOTES

01
01 EXISTING RADIATOR TO REMAIN. DISCONNECT AND CAP EXISTING STEAM SUPPLY PIPING.
02 REMOVE EXISTING RADIATOR IN ITS ENTIRETY. CAP EXISTING PIPING.
03 INSTALL NEW FCU IN EXISTING RADIATOR ENCLOSURE AND/OR IN PLACE OF EXISTING RADIATOR. REF. DETAIL A6/A-102 AND M-SERIES SHEETS FOR EQUIPMENT INFORMATION AND INSTALLATION DETAILS.
04 NEW MECHANICAL SUPPLY AND RETURN REGISTER. PAINT TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
05 NEW WALL-MOUNTED SUPPLY/RETURN REGISTER. PAINT (OR APPROVED PRE-FINISH) TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
06 NEW FLOOR SUPPLY/RETURN REGISTER.
07 OPEN PLASTER WALL AND/OR CEILING AREA AS REQUIRED TO INSTALL NEW ELECTRICAL WIRING, CONDENSATE DRAINAGE, AND REFRIGERANT PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
08 NEW WIRELESS THERMOSTAT. REFERENCE MECH FOR CONNECTION INFORMATION. CONTRACTOR TO REVIEW AND CONFIRM ALL.
09 NEW CEILING-MOUNTED FCU. REF. M-SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
10 NEW SUPPLY/RETURN PLENUM INSTALLED WITHIN EXISTING RADIATOR ENCLOSURE.
11 NEW INTAKE LOUVER ABOVE EXISTING LIGHTWELL ACCESS DOOR. PENETRATION THROUGH EXISTING MASONRY WALL TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
12 NEW EXHAUST LOUVER IN EXISTING LIGHTWELL WINDOW OPENING. REF. DETAIL E2/A-100.
13 NEW EXPOSED REFRIGERANT LINES AND ELECTRICAL SUPPLY CONDUIT IN LIGHTWELL. WALL SUPPORT TO BE ANCHORED TO WALL WITH EXPANSION ANCHORS INTO MORTAR JOINTS. PAINT CONDUIT TO MATCH LIGHTWELL FINISH.
14 NEW ELECTRICAL PANEL REF. E-SERIES SHEET.
15 EXISTING EXHAUST VENT WITH CAP.
16 ROUTE NEW ELECTRICAL AND REFRIGERANT PIPING ABOVE CEILING. OPEN PLASTER CEILING AS REQUIRED TO INSTALL PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
17 FCU CONDENSATE DRAIN. REF M-SERIES DRAWING FOR DETAIL.
18 NEW PREFABRICATED GALVANIZED STEEL PLATFORM SPANNING REFRIGERANT PIPING. INSTALL AND SUPPORT PER MFGR'S STANDARDS.
19 NEW FCU. REF. M-SERIES SHEETS AND DETAILS.
20 INSTALL NEW THRU-FLOOR SUPPLY/RETURN DUCTWORK AND PLENUM WITHIN EXISTING RADIATOR ENCLOSURE. DUCT PENETRATION TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
21 PROVIDE INSULATED AND FIRE-RATED (MIN. 1 HR UL-RATING) PIPING PENETRATION THROUGH EXTERIOR MASONRY WALL FOR NEW ELECTRICAL AND REFRIGERANT LINES.
22 ROOF PENETRATION FOR ELECTRICAL AND REFRIGERANT LINES. PENETRATE ROOF IN FRONT OF PARAPET AND ANGLE CONDUIT(S) THROUGH ROOF ASSEMBLY INTO EXTERIOR WALLS BELOW.
23 NEW ALUMINIUM SUPPLY GRILLE INSTALLED IN EXISTING WOOD WINDOW SILL. REF. M-SERIES DRAWINGS FOR SIZING.
PAINT (KYNAR FINISH) TO MATCH EXISTING WINDOW SILL FINISH.
24 CONTRACTOR TO PROVIDE PREFABRICATED ROOFTOP REFRIGERANT ENCLOSURE WITH WATERTIGHT ACCESSIBLE PANEL TO HOUSE UNIT HEATER, EXHAUST FAN, AND REFRIGERANT SHUT-OFF VALVE, PER M-104 AND MECH. SPECIFICATIONS.

GENERAL ARCH. NOTES

01 THESE GENERAL NOTES APPLY TO ARCHITECTURAL DRAWINGS.
02 WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.
03 FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS WITH EXISTING UNLESS NOTED OTHERWISE.
04 DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR TO FACE OF FINISH UNLESS NOTED OTHERWISE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
05 DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO OWNER FOR INTERPRETATION.
06 CONTRACTOR SHALL PROVIDE FLOOR AND WALL PROTECTION IN ALL AREAS OF WORK TO ENSURE NO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
07 CONTRACTOR SHALL PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.
08 PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW CONDITION" AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PRIOR TO INSTALLING NEW FINISHES. AREAS NOTED TO BE PATCHED OR REPAIRED ON THE DRAWINGS ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
09 INSTALL FIRESTOPPING AT ALL PENETRATIONS THROUGH FLOORS AND EXTERNAL WALLS.
10 ALL PAINTED SURFACES SHALL BE CLEANED, REPAIRED, AND REPAINTED TO MATCH EXISTING PAINT COLOR AND SHEEN. CONTRACTOR TO PROVIDE PAINT SAMPLES TO OWNER FOR SELECTION AND VERIFICATION PRIOR TO REPAINTING.

GENERAL DEMOLITION NOTES

01 THESE GENERAL NOTES APPLY TO WORK NOTED AS DEMOLITION OF BUILDING ELEMENTS AND/OR MATERIALS AND REMOVAL OF EXISTING EQUIPMENT.
02 FIELD VERIFY CONDITIONS AND COORDINATE DEMOLITION OR REMOVAL WORK WITH CORRESPONDING NEW CONSTRUCTION AND WITH APPROPRIATE TRADES PRIOR TO STARTING DEMOLITION WORK. IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY.
03 DEMOLISHED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE PROMPTLY DISPOSED OF OFF-SITE.
04 REMOVE ITEMS IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. DESCRIPTION OF PRIMARY ITEMS TO BE REMOVED IS GENERAL IN NATURE, AND REMOVAL OF SECONDARY COMPONENTS SUCH AS BLOCKING, SUPPORTS, ANCHORS, TRIM, ADHESIVE, PIPING, WIRING, ETC., RELATED TO PRIMARY ITEMS SHALL BE INCLUDED.
05 PROTECT EXISTING SURFACES TO REMAIN IN AREAS ADJACENT TO DEMOLITION WORK.
06 REPAIR FINISHES AND SURFACES LEFT EXPOSED BY DEMOLITION OR REMOVAL OF EQUIPMENT, USING NEW MATERIALS TO MATCH SURROUNDING SURFACES. REPAIR EXISTING FLOOR, BASE, WAINSCOT, WALL AND CEILING FINISHES TO CORRECT DEFECTS EITHER CAUSED OR EXPOSED BY DEMOLITION WORK OR EQUIPMENT REMOVAL. REPAIRED SURFACES SHALL BE SMOOTH AND UNDETECTABLE UNDER FINAL FINISHES. AREAS NOTED ON THE DRAWINGS TO BE REPAIRED OR PATCHED ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
07 SELECTIVE DEMOLITION FOR INSTALLATION OF NEW MECHANICAL OR ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE REQUIRING THE DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOOR SLAB AND PAVEMENT CUTTING FOR UNDERGROUND PIPING, CORING FOR WALL AND FLOOR PENETRATIONS, ROOF PENETRATIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
08 IF EXISTING ITEMS TO BE REMOVED OR DISTURBED ARE SUSPECTED OR DISCOVERED TO CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS, STOP DEMOLITION AND NOTIFY OWNER AND ENGINEER IMMEDIATELY.
09 PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST ALL DRAINS FOR PROPER FUNCTION. ALL DRAINS SHALL BE PROTECTED DURING CONSTRUCTION AND TESTED FOR CORRECT DRAINING AFTER PROJECT COMPLETION.
10 CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH OWNER PRIOR TO BEGINNING WORK.
11 CONTRACTOR SHALL ISOLATE AREAS OF WORK FROM ADJACENT AREAS AND ROOMS TO PREVENT MOVEMENT OF DUST AND DEBRIS.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

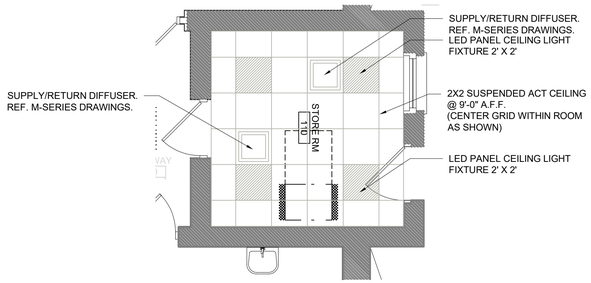
DRAWN BY: MDS
PROJ. NO.:
APPROVED BY: MDS

SHEET TITLE

BASEMENT ARCHITECTURAL PLAN

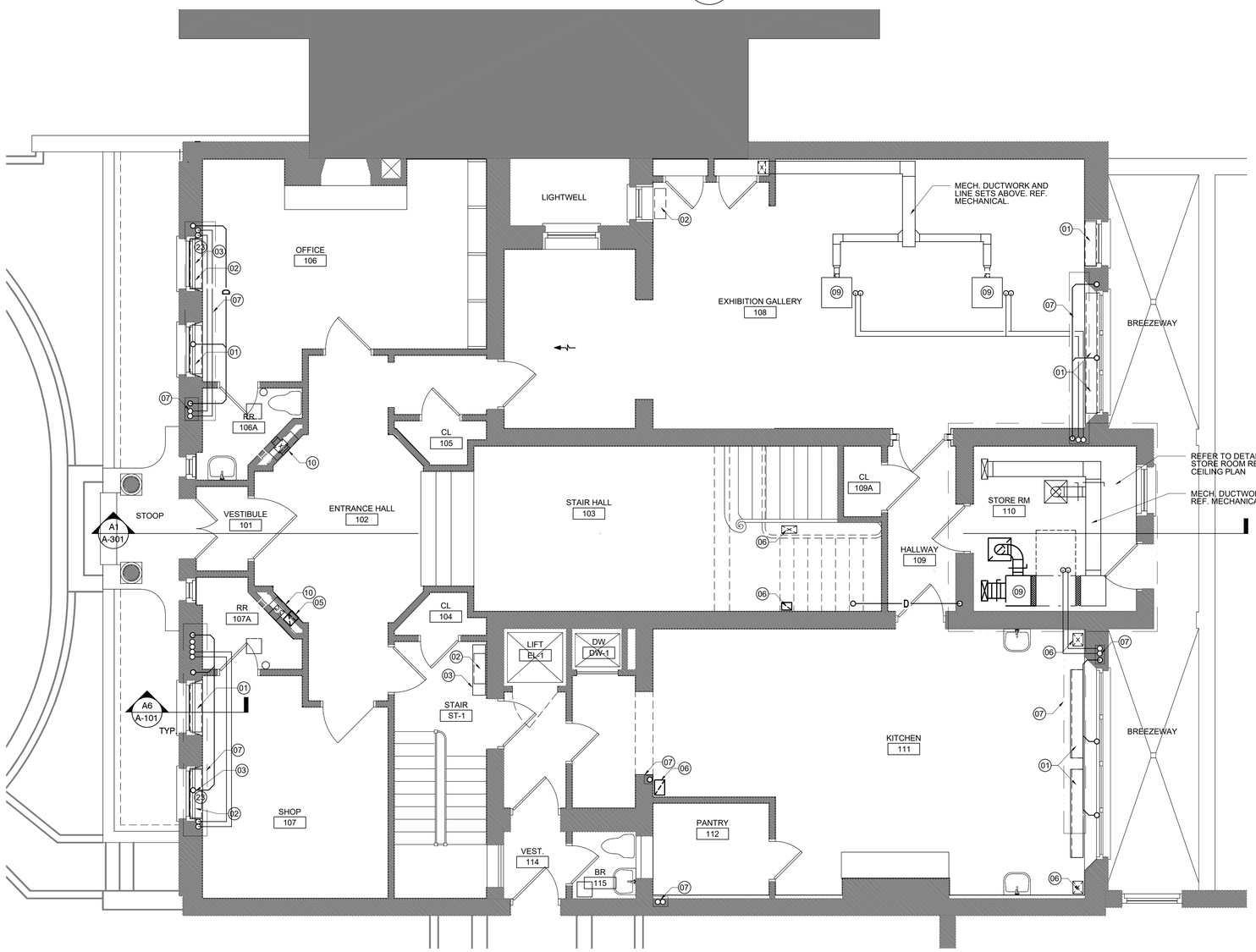
SHEET NO.

A-100



E4 / A-101 STORE ROOM CEILING PLAN

Scale: 1/4" = 1'-0"



N

A1 / A-101 GROUND FLOOR PLAN

Scale: 1/4" = 1'-0"

PLAN KEYNOTES

01 EXISTING RADIATOR TO REMAIN. DISCONNECT AND CAP EXISTING STEAM SUPPLY PIPING.
02 REMOVE EXISTING RADIATOR IN ITS ENTIRETY. CAP EXISTING PIPING.
03 INSTALL NEW FCU IN EXISTING RADIATOR ENCLOSURE AND/OR IN PLACE OF EXISTING RADIATOR. REF. DETAIL A6/A-102 AND M-SERIES SHEETS FOR EQUIPMENT INFORMATION AND INSTALLATION DETAILS.
04 NEW MECHANICAL SUPPLY AND RETURN REGISTER. PAINT TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
05 NEW WALL-MOUNTED SUPPLY/RETURN REGISTER. PAINT (OR APPROVED PRE-FINISH) TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
06 NEW FLOOR SUPPLY/RETURN REGISTER.
07 OPEN PLASTER WALL AND/OR CEILING AREA AS REQUIRED TO INSTALL NEW ELECTRICAL WIRING, CONDENSATE DRAINAGE, AND REFRIGERANT PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
08 NEW WIRELESS THERMOSTAT. REFERENCE MECH FOR CONNECTION INFORMATION. CONTRACTOR TO REVIEW AND CONFIRM ALL.
09 NEW CEILING-MOUNTED FCU. REF. M-SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
10 NEW SUPPLY/RETURN PLENUM INSTALLED WITHIN EXISTING RADIATOR ENCLOSURE.
11 NEW INTAKE LOUVER ABOVE EXISTING LIGHTWELL ACCESS DOOR. PENETRATION THROUGH EXISTING MASONRY WALL TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
12 NEW EXHAUST LOUVER IN EXISTING LIGHTWELL WINDOW OPENING. REF. DETAIL E2/A-100.
13 NEW EXPOSED REFRIGERANT LINES AND ELECTRICAL SUPPLY CONDUIT IN LIGHTWELL. WALL SUPPORT TO BE ANCHORED TO WALL WITH EXPANSION ANCHORS INTO MORTAR JOINTS. PAINT CONDUIT TO MATCH LIGHTWELL FINISH.
14 NEW ELECTRICAL PANEL REF. E-SERIES SHEET.
15 EXISTING EXHAUST VENT WITH CAP.
16 ROUTE NEW ELECTRICAL AND REFRIGERANT PIPING ABOVE CEILING. OPEN PLASTER CEILING AS REQUIRED TO INSTALL PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
17 FCU CONDENSATE DRAIN. REF M-SERIES DRAWING FOR DETAIL.
18 NEW PREFABRICATED GALVANIZED STEEL PLATFORM SPANNING REFRIGERANT PIPING. INSTALL AND SUPPORT PER MFGR'S STANDARDS.
19 NEW FCU. REF. M-SERIES SHEETS AND DETAILS.
20 INSTALL NEW THRU-FLOOR SUPPLY/RETURN DUCTWORK AND PLENUM WITHIN EXISTING RADIATOR ENCLOSURE. DUCT PENETRATION TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
21 PROVIDE INSULATED AND FIRE-RATED (MIN. 1 HR UL-RATING) PIPING PENETRATION THROUGH EXTERIOR MASONRY WALL FOR NEW ELECTRICAL AND REFRIGERANT LINES.
22 ROOF PENETRATION FOR ELECTRICAL AND REFRIGERANT LINES. PENETRATE ROOF IN FRONT OF PARAPET AND ANGLE CONDUIT(S) THROUGH ROOF ASSEMBLY INTO EXTERIOR WALLS BELOW.
23 NEW ALUMINIUM SUPPLY GRILLE INSTALLED IN EXISTING WOOD WINDOW SILL. REF. M-SERIES DRAWINGS FOR SIZING.
PAINT (KYNAR FINISH) TO MATCH EXISTING WINDOW SILL FINISH.
24 CONTRACTOR TO PROVIDE PREFABRICATED ROOFTOP REFRIGERANT ENCLOSURE WITH WATERTIGHT ACCESSIBLE PANEL TO HOUSE UNIT HEATER, EXHAUST FAN, AND REFRIGERANT SHUT-OFF VALVE, PER M-104 AND MECH. SPECIFICATIONS.

GENERAL ARCH. NOTES

01 THESE GENERAL NOTES APPLY TO ARCHITECTURAL DRAWINGS.
02 WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.
03 FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS WITH EXISTING UNLESS NOTED OTHERWISE.
04 DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR TO FACE OF FINISH UNLESS NOTED OTHERWISE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
05 DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO OWNER FOR INTERPRETATION.
06 CONTRACTOR SHALL PROVIDE FLOOR AND WALL PROTECTION IN ALL AREAS OF WORK TO ENSURE NO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
07 CONTRACTOR SHALL PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.
08 PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW CONDITION" AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PRIOR TO INSTALLING NEW FINISHES. AREAS NOTED TO BE PATCHED OR REPAIRED ON THE DRAWINGS ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
09 INSTALL FIRESTOPPING AT ALL PENETRATIONS THROUGH FLOORS AND EXTERNAL WALLS.
10 ALL PAINTED SURFACES SHALL BE CLEANED, REPAIRED, AND REPAINTED TO MATCH EXISTING PAINT COLOR AND SHEEN. CONTRACTOR TO PROVIDE PAINT SAMPLES TO OWNER FOR SELECTION AND VERIFICATION PRIOR TO REPAINTING.

GENERAL DEMOLITION NOTES

01 THESE GENERAL NOTES APPLY TO WORK NOTED AS DEMOLITION OF BUILDING ELEMENTS AND/OR MATERIALS AND REMOVAL OF EXISTING EQUIPMENT.
02 FIELD VERIFY CONDITIONS AND COORDINATE DEMOLITION OR REMOVAL WORK WITH CORRESPONDING NEW CONSTRUCTION AND WITH APPROPRIATE TRADES PRIOR TO STARTING DEMOLITION WORK. IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY.
03 DEMOLISHED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE PROMPTLY DISPOSED OF OFF-SITE.
04 REMOVE ITEMS IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. DESCRIPTION OF PRIMARY ITEMS TO BE REMOVED IS GENERAL IN NATURE, AND REMOVAL OF SECONDARY COMPONENTS SUCH AS BLOCKING, SUPPORTS, ANCHORS, TRIM, ADHESIVE, PIPING, WIRING, ETC., RELATED TO PRIMARY ITEMS SHALL BE INCLUDED.
05 PROTECT EXISTING SURFACES TO REMAIN IN AREAS ADJACENT TO DEMOLITION WORK.
06 REPAIR FINISHES AND SURFACES LEFT EXPOSED BY DEMOLITION OR REMOVAL OF EQUIPMENT, USING NEW MATERIALS TO MATCH SURROUNDING SURFACES. REPAIR EXISTING FLOOR, BASE, WAINSCOT, WALL AND CEILING FINISHES TO CORRECT DEFECTS EITHER CAUSED OR EXPOSED BY DEMOLITION WORK OR EQUIPMENT REMOVAL. REPAIRED SURFACES SHALL BE SMOOTH AND UNDETECTABLE UNDER FINAL FINISHES. AREAS NOTED ON THE DRAWINGS TO BE REPAIRED OR PATCHED ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
07 SELECTIVE DEMOLITION FOR INSTALLATION OF NEW MECHANICAL OR ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE REQUIRING THE DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOOR SLAB AND PAVEMENT CUTTING FOR UNDERGROUND PIPING, CORING FOR WALL AND FLOOR PENETRATIONS, ROOF PENETRATIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
08 IF EXISTING ITEMS TO BE REMOVED OR DISTURBED ARE SUSPECTED OR DISCOVERED TO CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS, STOP DEMOLITION AND NOTIFY OWNER AND ENGINEER IMMEDIATELY.
09 PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST ALL DRAINS FOR PROPER FUNCTION. ALL DRAINS SHALL BE PROTECTED DURING CONSTRUCTION AND TESTED FOR CORRECT DRAINING AFTER PROJECT COMPLETION.
10 CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH OWNER PRIOR TO BEGINNING WORK.
11 CONTRACTOR SHALL ISOLATE AREAS OF WORK FROM ADJACENT AREAS AND ROOMS TO PREVENT MOVEMENT OF DUST AND DEBRIS.

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

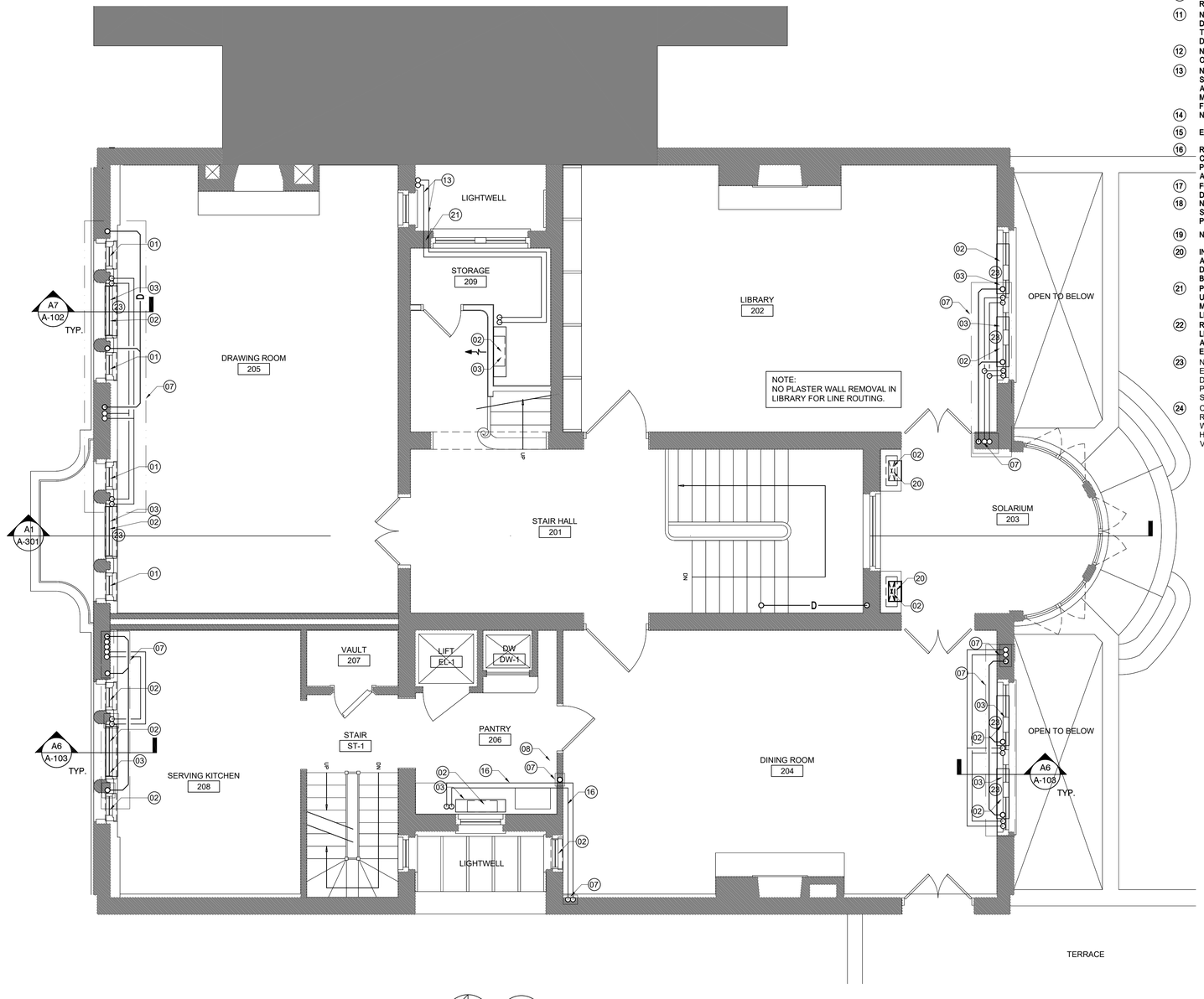
DRAWN BY: MDS
PROJ. NO.:
APPROVED BY: MDS

SHEET TITLE

GROUND FLOOR ARCHITECTURAL PLAN

SHEET NO.

A-101



N

A1
A-102

SECOND FLOOR PLAN

Scale: 1/4" = 1'-0"

PLAN KEYNOTES

01

(01) EXISTING RADIATOR TO REMAIN. DISCONNECT AND CAP EXISTING STEAM SUPPLY PIPING.
(02) REMOVE EXISTING RADIATOR IN ITS ENTIRETY. CAP EXISTING PIPING.
(03) INSTALL NEW FCU IN EXISTING RADIATOR ENCLOSURE AND/OR IN PLACE OF EXISTING RADIATOR. REF. DETAIL A6/A-102 AND M-SERIES SHEETS FOR EQUIPMENT INFORMATION AND INSTALLATION DETAILS.
(04) NEW MECHANICAL SUPPLY AND RETURN REGISTER. PAINT TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
(05) NEW WALL-MOUNTED SUPPLY/RETURN REGISTER. PAINT (OR APPROVED PRE-FINISH) TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
(06) NEW FLOOR SUPPLY/RETURN REGISTER.
(07) OPEN PLASTER WALL AND/OR CEILING AREA AS REQUIRED TO INSTALL NEW ELECTRICAL WIRING, CONDENSATE DRAINAGE, AND REFRIGERANT PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
(08) NEW WIRELESS THERMOSTAT. REFERENCE MECH FOR CONNECTION INFORMATION. CONTRACTOR TO REVIEW AND CONFIRM ALL.
(09) NEW CEILING-MOUNTED FCU. REF. M-SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
(10) NEW SUPPLY/RETURN PLENUM INSTALLED WITHIN EXISTING RADIATOR ENCLOSURE.
(11) NEW INTAKE LOUVER ABOVE EXISTING LIGHTWELL ACCESS DOOR. PENETRATION THROUGH EXISTING MASONRY WALL TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
(12) NEW EXHAUST LOUVER IN EXISTING LIGHTWELL WINDOW OPENING. REF. DETAIL E2/A-100.
(13) NEW EXPOSED REFRIGERANT LINES AND ELECTRICAL SUPPLY CONDUIT IN LIGHTWELL. WALL SUPPORT TO BE ANCHORED TO WALL WITH EXPANSION ANCHORS INTO MORTAR JOINTS. PAINT CONDUIT TO MATCH LIGHTWELL FINISH.
(14) NEW ELECTRICAL PANEL REF. E-SERIES SHEET.
(15) EXISTING EXHAUST VENT WITH CAP.
(16) ROUTE NEW ELECTRICAL AND REFRIGERANT PIPING ABOVE CEILING. OPEN PLASTER CEILING AS REQUIRED TO INSTALL PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
(17) FCU CONDENSATE DRAIN. REF M-SERIES DRAWING FOR DETAIL.
(18) NEW PREFABRICATED GALVANIZED STEEL PLATFORM SPANNING REFRIGERANT PIPING. INSTALL AND SUPPORT PER MFGR'S STANDARDS.
(19) NEW FCU. REF. M-SERIES SHEETS AND DETAILS.
(20) INSTALL NEW THRU-FLOOR SUPPLY/RETURN DUCTWORK AND PLENUM WITHIN EXISTING RADIATOR ENCLOSURE. DUCT PENETRATION TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
(21) PROVIDE INSULATED AND FIRE-RATED (MIN. 1 HR UL-RATING) PIPING PENETRATION THROUGH EXTERIOR MASONRY WALL FOR NEW ELECTRICAL AND REFRIGERANT LINES.
(22) ROOF PENETRATION FOR ELECTRICAL AND REFRIGERANT LINES. PENETRATE ROOF IN FRONT OF PARAPET AND ANGLE CONDUIT(S) THROUGH ROOF ASSEMBLY INTO EXTERIOR WALLS BELOW.
(23) NEW ALUMINIUM SUPPLY GRILLE INSTALLED IN EXISTING WOOD WINDOW SILL. REF. M-SERIES DRAWINGS FOR SIZING.
PAINT (KYNAR FINISH) TO MATCH EXISTING WINDOW SILL FINISH.
(24) CONTRACTOR TO PROVIDE PREFABRICATED ROOFTOP REFRIGERANT ENCLOSURE WITH WATERTIGHT ACCESSIBLE PANEL TO HOUSE UNIT HEATER, EXHAUST FAN, AND REFRIGERANT SHUT-OFF VALVE, PER M-104 AND MECH. SPECIFICATIONS.

GENERAL ARCH. NOTES

01 THESE GENERAL NOTES APPLY TO ARCHITECTURAL DRAWINGS.
02 WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.
03 FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS WITH EXISTING UNLESS NOTED OTHERWISE.
04 DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR TO FACE OF FINISH UNLESS NOTED OTHERWISE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
05 DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO OWNER FOR INTERPRETATION.
06 CONTRACTOR SHALL PROVIDE FLOOR AND WALL PROTECTION IN ALL AREAS OF WORK TO ENSURE NO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
07 CONTRACTOR SHALL PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.
08 PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW CONDITION" AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PRIOR TO INSTALLING NEW FINISHES. AREAS NOTED TO BE PATCHED OR REPAIRED ON THE DRAWINGS ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
09 INSTALL FIRESTOPPING AT ALL PENETRATIONS THROUGH FLOORS AND EXTERNAL WALLS.
10 ALL PAINTED SURFACES SHALL BE CLEANED, REPAIRED, AND REPAINTED TO MATCH EXISTING PAINT COLOR AND SHEEN. CONTRACTOR TO PROVIDE PAINT SAMPLES TO OWNER FOR SELECTION AND VERIFICATION PRIOR TO REPAINTING.

GENERAL DEMOLITION NOTES

01 THESE GENERAL NOTES APPLY TO WORK NOTED AS DEMOLITION OF BUILDING ELEMENTS AND/OR MATERIALS AND REMOVAL OF EXISTING EQUIPMENT.
02 FIELD VERIFY CONDITIONS AND COORDINATE DEMOLITION OR REMOVAL WORK WITH CORRESPONDING NEW CONSTRUCTION AND WITH APPROPRIATE TRADES PRIOR TO STARTING DEMOLITION WORK. IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY.
03 DEMOLISHED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE PROMPTLY DISPOSED OF OFF-SITE.
04 REMOVE ITEMS IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. DESCRIPTION OF PRIMARY ITEMS TO BE REMOVED IS GENERAL IN NATURE, AND REMOVAL OF SECONDARY COMPONENTS SUCH AS BLOCKING, SUPPORTS, ANCHORS, TRIM, ADHESIVE, PIPING, WIRING, ETC., RELATED TO PRIMARY ITEMS SHALL BE INCLUDED.
PROTECT EXISTING SURFACES TO REMAIN IN AREAS ADJACENT TO DEMOLITION WORK.
06 REPAIR FINISHES AND SURFACES LEFT EXPOSED BY DEMOLITION OR REMOVAL OF EQUIPMENT, USING NEW MATERIALS TO MATCH SURROUNDING SURFACES. REPAIR EXISTING FLOOR, BASE, WAINSCOT, WALL AND CEILING FINISHES TO CORRECT DEFECTS EITHER CAUSED OR EXPOSED BY DEMOLITION WORK OR EQUIPMENT REMOVAL. REPAIRED SURFACES SHALL BE SMOOTH AND UNDETECTABLE UNDER FINAL FINISHES. AREAS NOTED ON THE DRAWINGS TO BE REPAIRED OR PATCHED ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
07 SELECTIVE DEMOLITION FOR INSTALLATION OF NEW MECHANICAL OR ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE REQUIRING THE DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOOR SLAB AND PAVEMENT CUTTING FOR UNDERGROUND PIPING, CORING FOR WALL AND FLOOR PENETRATIONS, ROOF PENETRATIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
08 IF EXISTING ITEMS TO BE REMOVED OR DISTURBED ARE SUSPECTED OR DISCOVERED TO CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS, STOP DEMOLITION AND NOTIFY OWNER AND ENGINEER IMMEDIATELY.
09 PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST ALL DRAINS FOR PROPER FUNCTION. ALL DRAINS SHALL BE PROTECTED DURING CONSTRUCTION AND TESTED FOR CORRECT DRAINING AFTER PROJECT COMPLETION.
10 CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH OWNER PRIOR TO BEGINNING WORK.
11 CONTRACTOR SHALL ISOLATE AREAS OF WORK FROM ADJACENT AREAS AND ROOMS TO PREVENT MOVEMENT OF DUST AND DEBRIS.

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

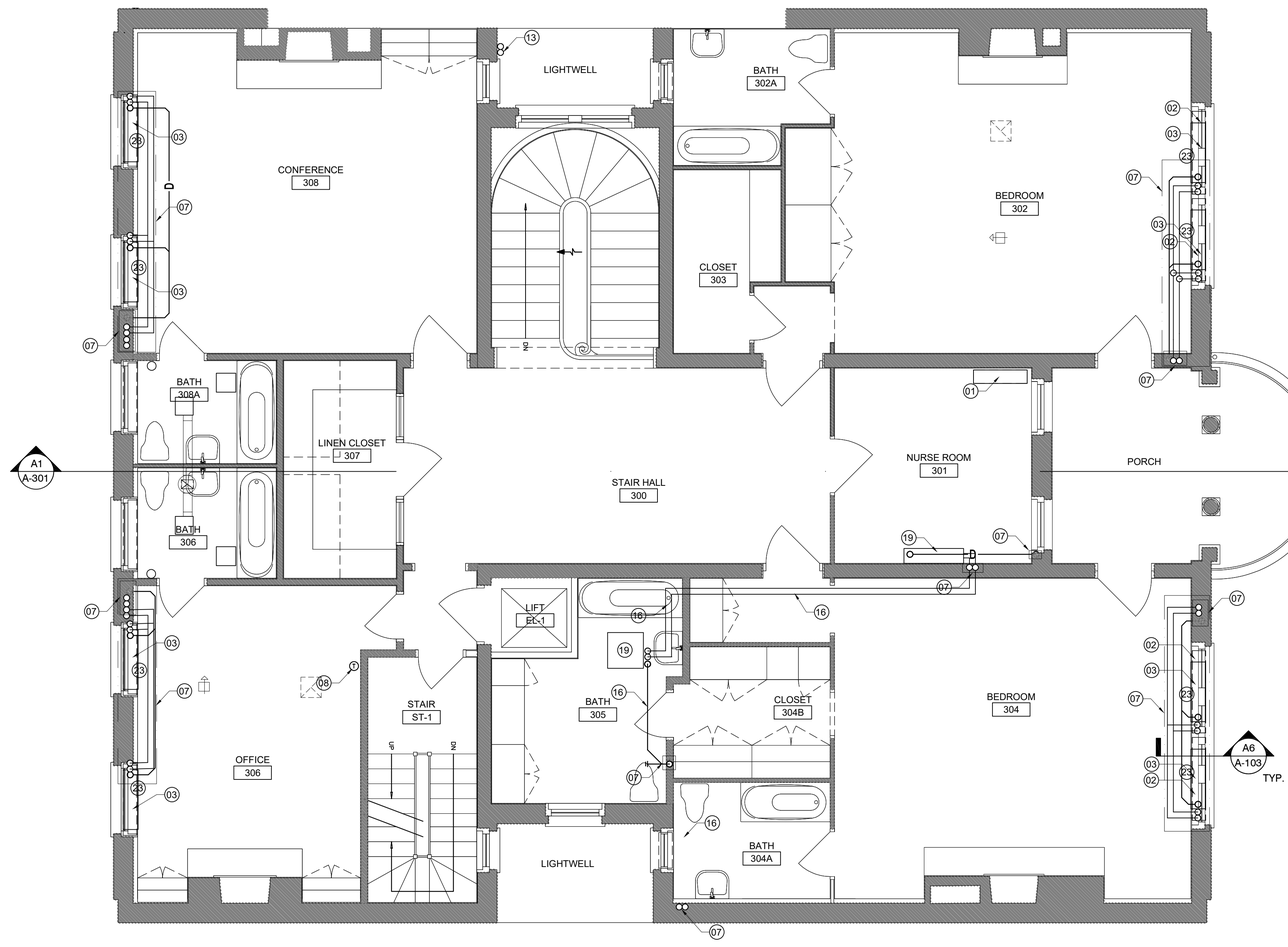
DRAWN BY: MDS
PROJ. NO.:
APPROVED BY: MDS

SHEET TITLE

SECOND FLOOR
ARCHITECTURAL PLAN

SHEET NO.

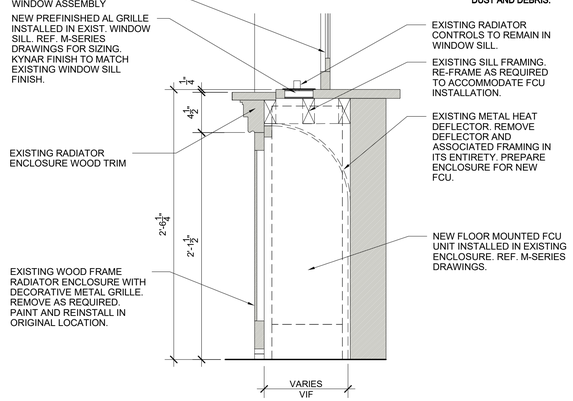
A-102



N

A1 / A-103 THIRD FLOOR PLAN

Scale: 1/4" = 1'-0"



A6 / A-103 RADIATOR ENCLOSURE DETAIL

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

PLAN KEYNOTES

01 EXISTING RADIATOR TO REMAIN. DISCONNECT AND CAP EXISTING STEAM SUPPLY PIPING.
02 REMOVE EXISTING RADIATOR IN ITS ENTIRETY. CAP EXISTING PIPING.
03 INSTALL NEW FCU IN EXISTING RADIATOR ENCLOSURE AND/OR IN PLACE OF EXISTING RADIATOR. REF. DETAIL A6/A-102 AND M-SERIES SHEETS FOR EQUIPMENT INFORMATION AND INSTALLATION DETAILS.
04 NEW MECHANICAL SUPPLY AND RETURN REGISTER. PAINT TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
05 NEW WALL-MOUNTED SUPPLY/RETURN REGISTER. PAINT (OR APPROVED PRE-FINISH) TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
06 NEW FLOOR SUPPLY/RETURN REGISTER.
07 OPEN PLASTER WALL AND/OR CEILING AREA AS REQUIRED TO INSTALL NEW ELECTRICAL WIRING, CONDENSATE DRAINAGE, AND REFRIGERANT PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
08 NEW WIRELESS THERMOSTAT. REFERENCE MECH FOR CONNECTION INFORMATION. CONTRACTOR TO REVIEW AND CONFIRM ALL.
09 NEW CEILING-MOUNTED FCU. REF. M-SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
10 NEW SUPPLY/RETURN PLENUM INSTALLED WITHIN EXISTING RADIATOR ENCLOSURE.
11 NEW INTAKE LOUVER ABOVE EXISTING LIGHTWELL ACCESS DOOR. PENETRATION THROUGH EXISTING MASONRY WALL TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
12 NEW EXHAUST LOUVER IN EXISTING LIGHTWELL WINDOW OPENING. REF. DETAIL E2/A-100.
13 NEW EXPOSED REFRIGERANT LINES AND ELECTRICAL SUPPLY CONDUIT IN LIGHTWELL. WALL SUPPORT TO BE ANCHORED TO WALL WITH EXPANSION ANCHORS INTO MORTAR JOINTS. PAINT CONDUIT TO MATCH LIGHTWELL FINISH.
14 NEW ELECTRICAL PANEL REF. E-SERIES SHEET.
15 EXISTING EXHAUST VENT WITH CAP.
16 ROUTE NEW ELECTRICAL AND REFRIGERANT PIPING ABOVE CEILING. OPEN PLASTER CEILING AS REQUIRED TO INSTALL PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
17 FCU CONDENSATE DRAIN. REF M-SERIES DRAWING FOR DETAIL.
18 NEW PREFABRICATED GALVANIZED STEEL PLATFORM SPANNING REFRIGERANT PIPING. INSTALL AND SUPPORT PER MFGR'S STANDARDS.
19 NEW FCU. REF. M-SERIES SHEETS AND DETAILS.
20 INSTALL NEW THRU-FLOOR SUPPLY/RETURN DUCTWORK AND PLENUM WITHIN EXISTING RADIATOR ENCLOSURE. DUCT PENETRATION TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
21 PROVIDE INSULATED AND FIRE-RATED (MIN. 1 HR UL-RATING) PIPING PENETRATION THROUGH EXTERIOR MASONRY WALL FOR NEW ELECTRICAL AND REFRIGERANT LINES.
22 ROOF PENETRATION FOR ELECTRICAL AND REFRIGERANT LINES. PENETRATE ROOF IN FRONT OF PARAPET AND ANGLE CONDUIT(S) THROUGH ROOF ASSEMBLY INTO EXTERIOR WALLS BELOW.
23 NEW ALUMINIUM SUPPLY GRILLE INSTALLED IN EXISTING WOOD WINDOW SILL. REF. M-SERIES DRAWINGS FOR SIZING.
PAINT (KYNAR FINISH) TO MATCH EXISTING WINDOW SILL FINISH.
24 CONTRACTOR TO PROVIDE PREFABRICATED ROOFTOP REFRIGERANT ENCLOSURE WITH WATERTIGHT ACCESSIBLE PANEL TO HOUSE UNIT HEATER, EXHAUST FAN, AND REFRIGERANT SHUT-OFF VALVE, PER M-104 AND MECH. SPECIFICATIONS.

GENERAL ARCH. NOTES

01 THESE GENERAL NOTES APPLY TO ARCHITECTURAL DRAWINGS.
02 WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.
03 FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS WITH EXISTING UNLESS NOTED OTHERWISE.
04 DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR TO FACE OF FINISH UNLESS NOTED OTHERWISE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
05 DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO OWNER FOR INTERPRETATION.
06 CONTRACTOR SHALL PROVIDE FLOOR AND WALL PROTECTION IN ALL AREAS OF WORK TO ENSURE NO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
07 CONTRACTOR SHALL PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.
08 PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW CONDITION" AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PRIOR TO INSTALLING NEW FINISHES. AREAS NOTED TO BE PATCHED OR REPAIRED ON THE DRAWINGS ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
09 INSTALL FIRESTOPPING AT ALL PENETRATIONS THROUGH FLOORS AND EXTERNAL WALLS.
10 ALL PAINTED SURFACES SHALL BE CLEANED, REPAIRED, AND REPAINTED TO MATCH EXISTING PAINT COLOR AND SHEEN. CONTRACTOR TO PROVIDE PAINT SAMPLES TO OWNER FOR SELECTION AND VERIFICATION PRIOR TO REPAINTING.

GENERAL DEMOLITION NOTES

01 THESE GENERAL NOTES APPLY TO WORK NOTED AS DEMOLITION OF BUILDING ELEMENTS AND/OR MATERIALS AND REMOVAL OF EXISTING EQUIPMENT.
02 FIELD VERIFY CONDITIONS AND COORDINATE DEMOLITION OR REMOVAL WORK WITH CORRESPONDING NEW CONSTRUCTION AND WITH APPROPRIATE TRADES PRIOR TO STARTING DEMOLITION WORK. IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY.
03 DEMOLISHED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE PROMPTLY DISPOSED OF OFF-SITE.
04 REMOVE ITEMS IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. DESCRIPTION OF PRIMARY ITEMS TO BE REMOVED IS GENERAL IN NATURE, AND REMOVAL OF SECONDARY COMPONENTS SUCH AS BLOCKING, SUPPORTS, ANCHORS, TRIM, ADHESIVE, PIPING, WIRING, ETC., RELATED TO PRIMARY ITEMS SHALL BE INCLUDED.
PROTECT EXISTING SURFACES TO REMAIN IN AREAS ADJACENT TO DEMOLITION WORK.
06 REPAIR FINISHES AND SURFACES LEFT EXPOSED BY DEMOLITION OR REMOVAL OF EQUIPMENT, USING NEW MATERIALS TO MATCH SURROUNDING SURFACES. REPAIR EXISTING FLOOR, BASE, WAINSCOT, WALL AND CEILING FINISHES TO CORRECT DEFECTS EITHER CAUSED OR EXPOSED BY DEMOLITION WORK OR EQUIPMENT REMOVAL. REPAIRED SURFACES SHALL BE SMOOTH AND UNDETECTABLE UNDER FINAL FINISHES. AREAS NOTED ON THE DRAWINGS TO BE REPAIRED OR PATCHED ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
07 SELECTIVE DEMOLITION FOR INSTALLATION OF NEW MECHANICAL OR ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE REQUIRING THE DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOOR SLAB AND PAVEMENT CUTTING FOR UNDERGROUND PIPING, CORING FOR WALL AND FLOOR PENETRATIONS, ROOF PENETRATIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
08 IF EXISTING ITEMS TO BE REMOVED OR DISTURBED ARE SUSPECTED OR DISCOVERED TO CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS, STOP DEMOLITION AND NOTIFY OWNER AND ENGINEER IMMEDIATELY.
09 PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST ALL DRAINS FOR PROPER FUNCTION. ALL DRAINS SHALL BE PROTECTED DURING CONSTRUCTION AND TESTED FOR CORRECT DRAINING AFTER PROJECT COMPLETION.
10 CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH OWNER PRIOR TO BEGINNING WORK.
11 CONTRACTOR SHALL ISOLATE AREAS OF WORK FROM ADJACENT AREAS AND ROOMS TO PREVENT MOVEMENT OF DUST AND DEBRIS.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

	ISSUED FOR BID	07/06/26

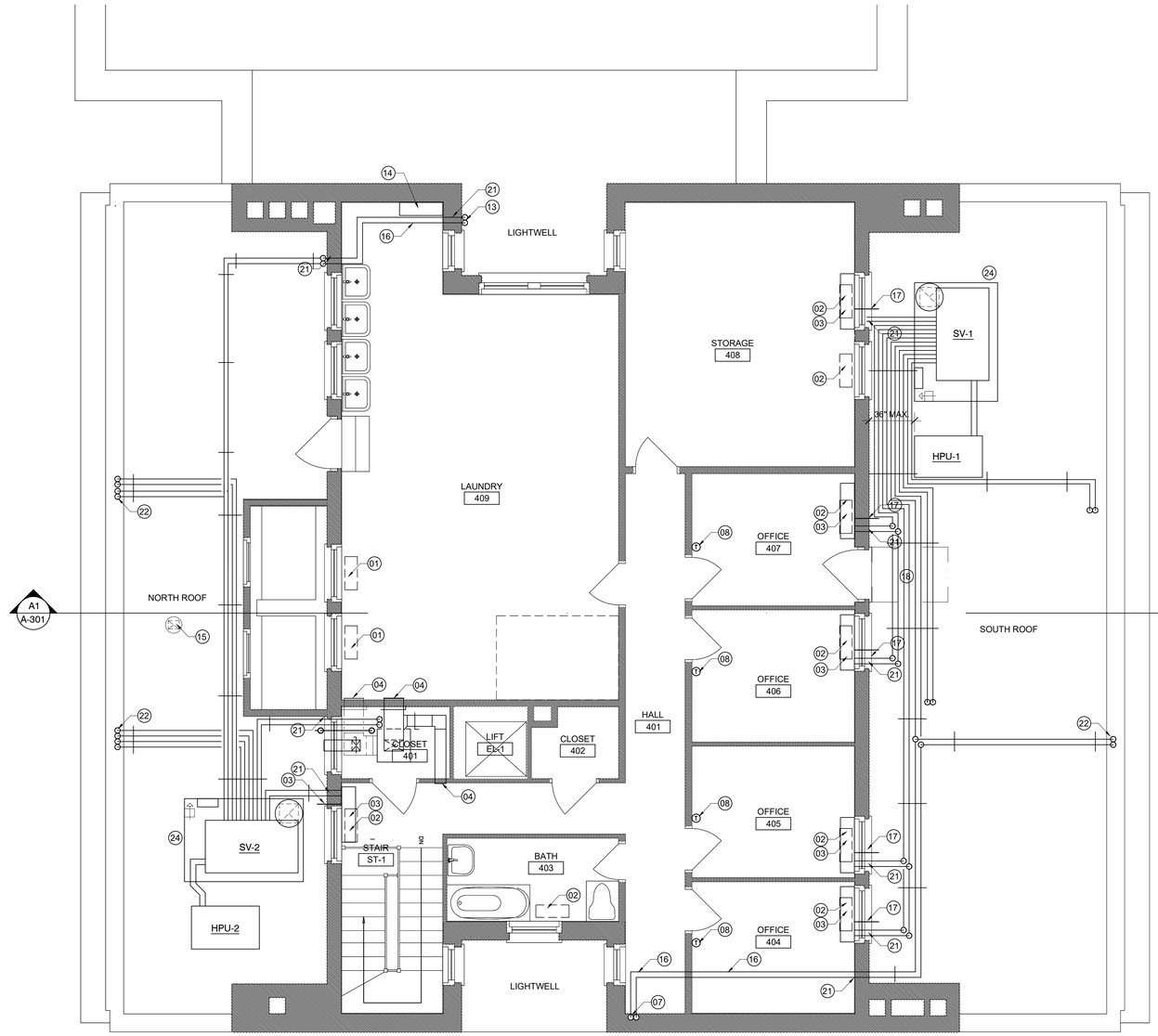
DRAWN BY: MDS
PROJ. NO.:
APPROVED BY: MDS

SHEET TITLE

THIRD FLOOR ARCHITECTURAL PLAN

SHEET NO.

A-103



N

A1
A-104

FOURTH FLOOR PLAN

Scale: 1/4" = 1'-0"

PLAN KEYNOTES

01 EXISTING RADIATOR TO REMAIN. DISCONNECT AND CAP EXISTING STEAM SUPPLY PIPING.
02 REMOVE EXISTING RADIATOR IN ITS ENTIRETY. CAP EXISTING PIPING.
03 INSTALL NEW FCU IN EXISTING RADIATOR ENCLOSURE AND/OR IN PLACE OF EXISTING RADIATOR. REF. DETAIL A6/A-102 AND M-SERIES SHEETS FOR EQUIPMENT INFORMATION AND INSTALLATION DETAILS.
04 NEW MECHANICAL SUPPLY AND RETURN REGISTER. PAINT TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
05 NEW WALL-MOUNTED SUPPLY/RETURN REGISTER. PAINT (OR APPROVED PRE-FINISH) TO MATCH ADJACENT WALL FINISH. PAINT TO BE PROVIDED BY OWNER.
06 NEW FLOOR SUPPLY/RETURN REGISTER.
07 OPEN PLASTER WALL AND/OR CEILING AREA AS REQUIRED TO INSTALL NEW ELECTRICAL WIRING, CONDENSATE DRAINAGE, AND REFRIGERANT PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
08 NEW WIRELESS THERMOSTAT. REFERENCE MECH FOR CONNECTION INFORMATION. CONTRACTOR TO REVIEW AND CONFIRM ALL.
09 NEW CEILING-MOUNTED FCU. REF. M-SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
10 NEW SUPPLY/RETURN PLENUM INSTALLED WITHIN EXISTING RADIATOR ENCLOSURE.
11 NEW INTAKE LOUVER ABOVE EXISTING LIGHTWELL ACCESS DOOR. PENETRATION THROUGH EXISTING MASONRY WALL TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
12 NEW EXHAUST LOUVER IN EXISTING LIGHTWELL WINDOW OPENING. REF. DETAIL E2/A-100.
13 NEW EXPOSED REFRIGERANT LINES AND ELECTRICAL SUPPLY CONDUIT IN LIGHTWELL. WALL SUPPORT TO BE ANCHORED TO WALL WITH EXPANSION ANCHORS INTO MORTAR JOINTS. PAINT CONDUIT TO MATCH LIGHTWELL FINISH.
14 NEW ELECTRICAL PANEL REF. E-SERIES SHEET.
15 EXISTING EXHAUST VENT WITH CAP.
16 ROUTE NEW ELECTRICAL AND REFRIGERANT PIPING ABOVE CEILING. OPEN PLASTER CEILING AS REQUIRED TO INSTALL PIPING. PATCH AND REPAIR CEILING TO MATCH ORIGINAL APPEARANCE.
17 FCU CONDENSATE DRAIN. REF M-SERIES DRAWING FOR DETAIL.
18 NEW PREFABRICATED GALVANIZED STEEL PLATFORM SPANNING REFRIGERANT PIPING. INSTALL AND SUPPORT PER MFGR'S STANDARDS.
19 NEW FCU. REF. M-SERIES SHEETS AND DETAILS.
20 INSTALL NEW THRU-FLOOR SUPPLY/RETURN DUCTWORK AND PLENUM WITHIN EXISTING RADIATOR ENCLOSURE. DUCT PENETRATION TO BE CONTRACTOR'S RESPONSIBILITY BY DELEGATED DESIGN.
21 PROVIDE INSULATED AND FIRE-RATED (MIN. 1 HR UL-RATING) PIPING PENETRATION THROUGH EXTERIOR MASONRY WALL FOR NEW ELECTRICAL AND REFRIGERANT LINES.
22 ROOF PENETRATION FOR ELECTRICAL AND REFRIGERANT LINES. PENETRATE ROOF IN FRONT OF PARAPET AND ANGLE CONDUIT(S) THROUGH ROOF ASSEMBLY INTO EXTERIOR WALLS BELOW.
23 NEW ALUMINIUM SUPPLY GRILLE INSTALLED IN EXISTING WOOD WINDOW SILL. REF. M-SERIES DRAWINGS FOR SIZING.
PAINT (KYNAR FINISH) TO MATCH EXISTING WINDOW SILL FINISH.
24 CONTRACTOR TO PROVIDE PREFABRICATED ROOFTOP REFRIGERANT ENCLOSURE WITH WATERTIGHT ACCESSIBLE PANEL TO HOUSE UNIT HEATER, EXHAUST FAN, AND REFRIGERANT SHUT-OFF VALVE, PER M-104 AND MECH. SPECIFICATIONS.

GENERAL ARCH. NOTES

01 THESE GENERAL NOTES APPLY TO ARCHITECTURAL DRAWINGS.
02 WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.
03 FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS WITH EXISTING UNLESS NOTED OTHERWISE.
04 DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR TO FACE OF FINISH UNLESS NOTED OTHERWISE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
05 DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO OWNER FOR INTERPRETATION.
06 CONTRACTOR SHALL PROVIDE FLOOR AND WALL PROTECTION IN ALL AREAS OF WORK TO ENSURE NO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
07 CONTRACTOR SHALL PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.
08 PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW CONDITION" AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PRIOR TO INSTALLING NEW FINISHES. AREAS NOTED TO BE PATCHED OR REPAIRED ON THE DRAWINGS ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
09 INSTALL FIRESTOPPING AT ALL PENETRATIONS THROUGH FLOORS AND EXTERNAL WALLS.
10 ALL PAINTED SURFACES SHALL BE CLEANED, REPAIRED, AND REPAINTED TO MATCH EXISTING PAINT COLOR AND SHEEN. CONTRACTOR TO PROVIDE PAINT SAMPLES TO OWNER FOR SELECTION AND VERIFICATION PRIOR TO REPAINTING.

GENERAL DEMOLITION NOTES

01 THESE GENERAL NOTES APPLY TO WORK NOTED AS DEMOLITION OF BUILDING ELEMENTS AND/OR MATERIALS AND REMOVAL OF EXISTING EQUIPMENT.
02 FIELD VERIFY CONDITIONS AND COORDINATE DEMOLITION OR REMOVAL WORK WITH CORRESPONDING NEW CONSTRUCTION AND WITH APPROPRIATE TRADES PRIOR TO STARTING DEMOLITION WORK. IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY.
03 DEMOLISHED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE PROMPTLY DISPOSED OF OFF-SITE.
04 REMOVE ITEMS IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. DESCRIPTION OF PRIMARY ITEMS TO BE REMOVED IS GENERAL IN NATURE, AND REMOVAL OF SECONDARY COMPONENTS SUCH AS BLOCKING, SUPPORTS, ANCHORS, TRIM, ADHESIVE, PIPING, WIRING, ETC., RELATED TO PRIMARY ITEMS SHALL BE INCLUDED.
05 PROTECT EXISTING SURFACES TO REMAIN IN AREAS ADJACENT TO DEMOLITION WORK.
06 REPAIR FINISHES AND SURFACES LEFT EXPOSED BY DEMOLITION OR REMOVAL OF EQUIPMENT, USING NEW MATERIALS TO MATCH SURROUNDING SURFACES. REPAIR EXISTING FLOOR, BASE, WAINSCOT, WALL AND CEILING FINISHES TO CORRECT DEFECTS EITHER CAUSED OR EXPOSED BY DEMOLITION WORK OR EQUIPMENT REMOVAL. REPAIRED SURFACES SHALL BE SMOOTH AND UNDETECTABLE UNDER FINAL FINISHES. AREAS NOTED ON THE DRAWINGS TO BE REPAIRED OR PATCHED ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
07 SELECTIVE DEMOLITION FOR INSTALLATION OF NEW MECHANICAL OR ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE REQUIRING THE DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOOR SLAB AND PAVEMENT CUTTING FOR UNDERGROUND PIPING, CORING FOR WALL AND FLOOR PENETRATIONS, ROOF PENETRATIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
08 IF EXISTING ITEMS TO BE REMOVED OR DISTURBED ARE SUSPECTED OR DISCOVERED TO CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS, STOP DEMOLITION AND NOTIFY OWNER AND ENGINEER IMMEDIATELY.
09 PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST ALL DRAINS FOR PROPER FUNCTION. ALL DRAINS SHALL BE PROTECTED DURING CONSTRUCTION AND TESTED FOR CORRECT DRAINING AFTER PROJECT COMPLETION.
10 CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH OWNER PRIOR TO BEGINNING WORK.
11 CONTRACTOR SHALL ISOLATE AREAS OF WORK FROM ADJACENT AREAS AND ROOMS TO PREVENT MOVEMENT OF DUST AND DEBRIS.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/06/26

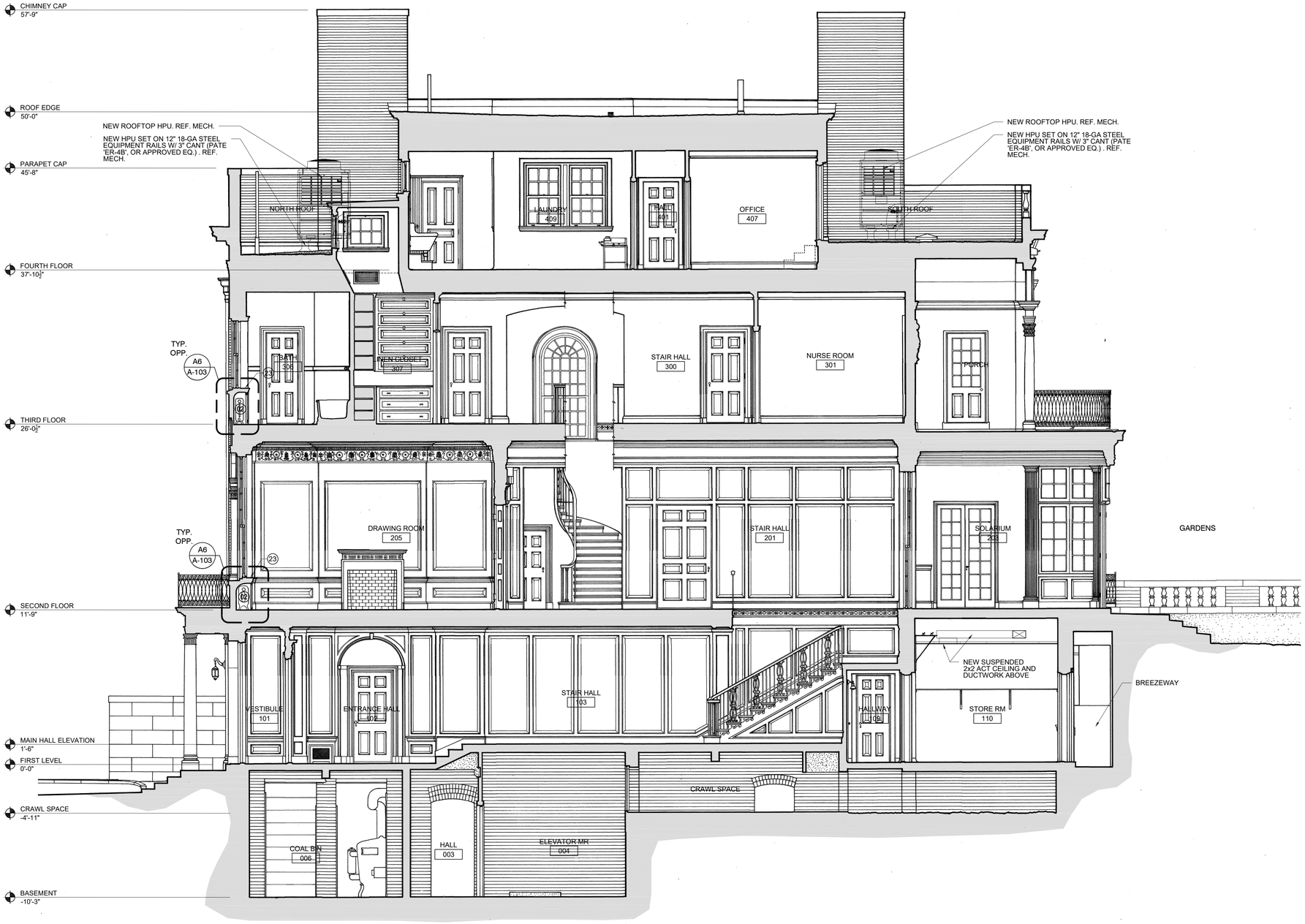
DRAWN BY: MDS
PROJ. NO.:
APPROVED BY: MDS

SHEET TITLE

FOURTH FLOOR ARCHITECTURAL PLAN

SHEET NO.

A-104



A1
A-301
OVERALL BUILDING SECTION
Scale: 1/4" = 1'-0"

GENERAL ARCH. NOTES

01 THESE GENERAL NOTES APPLY TO ARCHITECTURAL DRAWINGS.
02 WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.
03 FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS WITH EXISTING UNLESS NOTED OTHERWISE.
04 DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, OR TO FACE OF FINISH UNLESS NOTED OTHERWISE. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
05 DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO OWNER FOR INTERPRETATION.
06 CONTRACTOR SHALL PROVIDE FLOOR AND WALL PROTECTION IN ALL AREAS OF WORK TO ENSURE NO DAMAGE TO FINISHES DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.
07 CONTRACTOR SHALL PROTECT EXISTING SURFACES TO REMAIN THAT ARE NOT INCLUDED IN SCOPE OF WORK BUT THAT ARE WITHIN AREAS OF CONSTRUCTION ACTIVITY.
08 PATCH, REPAIR AND RESTORE EXISTING FINISHES AND SURFACES TO "AS NEW CONDITION" AS REQUIRED TO MATCH SURROUNDING MATERIALS OR TO PROVIDE APPROPRIATE SUBSTRATE PRIOR TO INSTALLING NEW FINISHES. AREAS NOTED TO BE PATCHED OR REPAIRED ON THE DRAWINGS ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
09 INSTALL FIRESTOPPING AT ALL PENETRATIONS THROUGH FLOORS AND EXTERNAL WALLS.
10 ALL PAINTED SURFACES SHALL BE CLEANED, REPAIRED, AND REPAINTED TO MATCH EXISTING PAINT COLOR AND SHEEN. CONTRACTOR TO PROVIDE PAINT SAMPLES TO OWNER FOR SELECTION AND VERIFICATION PRIOR TO REPAINTING.

GENERAL DEMOLITION NOTES

01 THESE GENERAL NOTES APPLY TO WORK NOTED AS DEMOLITION OF BUILDING ELEMENTS AND/OR MATERIALS AND REMOVAL OF EXISTING EQUIPMENT.
02 FIELD VERIFY CONDITIONS AND COORDINATE DEMOLITION OR REMOVAL WORK WITH CORRESPONDING NEW CONSTRUCTION AND WITH APPROPRIATE TRADES PRIOR TO STARTING DEMOLITION WORK. IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY.
03 DEMOLISHED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE PROMPTLY DISPOSED OF OFF-SITE.
04 REMOVE ITEMS IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. DESCRIPTION OF PRIMARY ITEMS TO BE REMOVED IS GENERAL IN NATURE, AND REMOVAL OF SECONDARY COMPONENTS SUCH AS BLOCKING, SUPPORTS, ANCHORS, TRIM, ADHESIVE, PIPING, WIRING, ETC., RELATED TO PRIMARY ITEMS SHALL BE INCLUDED.
05 PROTECT EXISTING SURFACES TO REMAIN IN AREAS ADJACENT TO DEMOLITION WORK.
06 REPAIR FINISHES AND SURFACES LEFT EXPOSED BY DEMOLITION OR REMOVAL OF EQUIPMENT, USING NEW MATERIALS TO MATCH SURROUNDING SURFACES. REPAIR EXISTING FLOOR, BASE, WAINSCOT, WALL AND CEILING FINISHES TO CORRECT DEFECTS EITHER CAUSED OR EXPOSED BY DEMOLITION WORK OR EQUIPMENT REMOVAL. REPAIRED SURFACES SHALL BE SMOOTH AND UNDETECTABLE UNDER FINAL FINISHES. AREAS NOTED ON THE DRAWINGS TO BE REPAIRED OR PATCHED ARE GIVEN FOR REFERENCE AND SHALL NOT BE INTERPRETED TO LIMIT THE SCOPE OF WORK.
07 SELECTIVE DEMOLITION FOR INSTALLATION OF NEW MECHANICAL OR ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE REQUIRING THE DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOOR SLAB AND PAVEMENT CUTTING FOR UNDERGROUND PIPING, CORING FOR WALL AND FLOOR PENETRATIONS, ROOF PENETRATIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
08 IF EXISTING ITEMS TO BE REMOVED OR DISTURBED ARE SUSPECTED OR DISCOVERED TO CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS, STOP DEMOLITION AND NOTIFY OWNER AND ENGINEER IMMEDIATELY.
09 PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST ALL DRAINS FOR PROPER FUNCTION. ALL DRAINS SHALL BE PROTECTED DURING CONSTRUCTION AND TESTED FOR CORRECT DRAINING AFTER PROJECT COMPLETION.
10 CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH OWNER PRIOR TO BEGINNING WORK.
11 CONTRACTOR SHALL ISOLATE AREAS OF WORK FROM ADJACENT AREAS AND ROOMS TO PREVENT MOVEMENT OF DUST AND DEBRIS.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	ISSUED FOR BID	07/08/26

DRAWN BY: MDS
PROJ. NO.:
APPROVED BY: MDS

SHEET TITLE
OVERALL BUILDING SECTION

SHEET NO.
A-301

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
LPS	LOW PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE STEAM RETURN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
	VOLUME DAMPER
T	THERMOSTAT
OS	OCCUPANCY SENSOR / SWITCH
	OUTDOOR AIR OR SUPPLY AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	END POINT OF REMOVAL
	CONNECT TO EXISTING
1 / M-301	CALLOUT DESIGNATION TOP - VIEW REFERENCE BOTTOM - REFERENCED DRAWING
	MOTOR OPERATED DAMPER
	BAROMETRIC BACKDRAFT DAMPER
	SHUTOFF VALVE
	UNION
	CAP (PIPE OR DUCT)
	CHECK VALVE

MECHANICAL ABBREVIATIONS

(APPLICABLE TO ALL MECHANICAL DRAWINGS)

AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROLS
BDD	BACKDRAFT DAMPER
BLR	BOILER
CFM	CUBIC FEET PER MINUTE
CX	CONNECT TO EXISTING
D	DAMPER / DEPTH / DIAMETER / DRAIN
DB	DRY BULB / DECIBEL
DIA	DIAMETER
DN	DOWN
DWH	DOMESTIC WATER HEATER
EA	EXHAUST AIR
EF	EXHAUST FAN
ELEC	ELECTRICAL
ERV	ENERGY RECOVERY VENTILATOR
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
FCU	FAN COIL UNIT
FPD	FLUID PRESSURE DROP
FT	FEET / FOOT
GPM	GALLONS PER MINUTE
H	HEIGHT / HUMIDISTAT / HUMIDITY SENSOR
HP	HORSEPOWER
HPU	HEAT PUMP UNIT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HZ	HERTZ
IN	INCH
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE SUPPLY
LWT	LEAVING WATER TEMPERATURE
M	MECHANICAL
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MD	MECHANICAL DEMOLITION
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
N	NORTH
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OS	OCCUPANCY SENSOR
P	PRESSURE
PH	PHASE
RA	RETURN AIR
RAD	RADIATOR
RLD	REFRIGERANT LEAK DETECTOR
RPM	ROTATIONS PER MINUTE
RX	REMOVE EXISTING
S	SMOKE DETECTOR / SWITCH
SA	SUPPLY AIR
SENS	SENSIBLE
SP	STATIC PRESSURE
T	THERMOSTAT / TEMPERATURE SENSOR
TYP	TYPICAL
UH	UNIT HEATER
V	VALVE / VOLTS
VD	VOLUME DAMPER
VFMC	VARIABLE FREQUENCY MOTOR CONTROLLERS
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS / WIDE / WIDTH
WB	WET BULB
WG	WATER GAGE

GENERAL MECHANICAL NOTES

(APPLICABLE TO ALL MECHANICAL DRAWINGS)

1. PRIOR TO SUBMITTING SHOP DRAWINGS TO ENGINEER FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, COORDINATE ELECTRICAL REQUIREMENTS BETWEEN CONTRACTORS OF ALL TRADES ASSOCIATED WITH THE INSTALLATION. THE GENERAL CONTRACTOR'S STAMP ON THE SUBMITTAL MUST STATE THAT COORDINATION BETWEEN ALL TRADES HAS BEEN VERIFIED AND THAT THE SUBMITTAL HAS BEEN APPROVED FOR ENGINEER'S REVIEW. IF CONTRACTOR SUBMITS EQUIPMENT WITH POWER REQUIREMENTS THAT ARE DIFFERENT FROM POWER CONNECTION INDICATED ON THE CONTRACT DOCUMENTS, CONTRACTOR MUST PROVIDE A REASON FOR THE CHANGE AND WRITTEN CONFIRMATION THAT THE CHANGE HAS BEEN FULLY COORDINATED WITH ALL ASSOCIATED TRADES. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO ELECTRICAL CONNECTION, COORDINATE AND MAKE REQUIRED CHANGES TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED DUE TO CONTRACTOR'S FAILURE TO COORDINATE WITH ALL ASSOCIATED TRADES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE EQUIPMENT SUBMITTALS AMONG THE SUBCONTRACTORS, NOT THE ENGINEER'S.
2. ALL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS SHOWN "LIGHT" (————) ARE EXISTING TO REMAIN. DEMOLISH ALL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS SHOWN "HEAVY AND DASHED" (– – – –) ON DEMOLITION DRAWINGS. PROVIDE ALL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS SHOWN "HEAVY AND SOLID" (————) ON NEW WORK DRAWINGS.
3. COORDINATE ALL MECHANICAL WORK WITH PLUMBING WORK, ELECTRICAL WORK, AND WORK OF OTHER TRADES SHOWN ON OTHER DRAWINGS.
4. RUN ALL DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED.
5. INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE PER INTERNATIONAL MECHANICAL CODE SECTION 306.
6. UNLESS OTHERWISE NOTED, ROUTE ALL PIPING AND DUCTWORK OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
7. MAINTAIN MINIMUM 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS.
8. CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN DUCTWORK AND PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
9. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., CHECK FOR THE PRESENCE OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION. EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. TEMPORARILY DISCONNECT SERVICES DURING THE CUTTING OPERATION. SCHEDULE SERVICE OUTAGES IN ADVANCE WITH THE OWNER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR RESEARCHING ALL SYSTEMS THAT A PARTICULAR OUTAGE WILL AFFECT AS WELL AS LOCATING ALL SHUTOFF POINTS. INCLUDE THIS INFORMATION IN THE OUTAGE PLAN AND SUBMIT TO OWNER FOR APPROVAL.
11. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS.
12. PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTORS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
13. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
14. FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPTS AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT. VALVES, PRESSURE GAUGES, ETC. ARE INDICATED FOR THIS PURPOSE. ADDITIONAL VALVES, PRESSURE GAUGES, ETC. SHALL BE PROVIDED AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULES AND RISER DIAGRAMS.
15. INFORMATION SHOWN ON THE MECHANICAL DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO DEMOLITION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
16. REMOVE ALL EXISTING PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE). ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO REMAIN THE PROPERTY OF OWNER SHALL BE DELIVERED BY THE CONTRACTOR WHERE DIRECTED BY THE OWNER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
17. DISCONNECT EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) AND REMOVE PIPING BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC. CAP, PLUG, OR SEAL EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE. NO EXISTING PIPING SHALL BE LEFT UNSEALED VALVE ALL TERMINATED PRESSURE PIPE.
18. EXISTING MECHANICAL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE RE-INSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER AND AT NO ADDITIONAL CONTRACT COST.
19. REMOVE ALL ACCESSORIES, CONTROLS, ENCLOSURES, SUPPORTS, HANGERS, PADS, ETC. ASSOCIATED WITH ALL EQUIPMENT SHOWN TO BE REMOVED. REPAIR AND PAINT DAMAGED SURFACES AND ALL SURFACES BEHIND ALL EQUIPMENT SHOWN TO BE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACES.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ	PROJ. NO.:
APPROVED BY: CEL	22-N005

SHEET TITLE

MECHANICAL COVER SHEET

SHEET NO.

M-001

REFRIGERANT PIPING INSTALLATION REQUIREMENTS

1. CODE COMPLIANCE: ASHRAE 15-2022.

2. INSTALL PER MANUFACTURER'S REQUIREMENTS. EQUIPMENT MANUFACTURERS SHALL SIZE ALL PIPING.

3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF SYSTEMS; INDICATED LOCATIONS AND. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON SHOP DRAWINGS.

4. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ASHRAE 15-2022.

5. PIPE PROTECTION. THE EXTERIOR OF THE PIPE SHALL BE PROTECTED FROM CORROSION, DEGRADATION, GALVANIC CORROSION AND ABRASION. REFRIGERANT PIPE SHALL NOT BE IN CONTACT WITH BUILDING MATERIALS THAT CAN ABRADE THE PIPE. REFRIGERANT PIPE SHALL BE INSTALLED AS FOLLOWS IN ACCORDANCE WITH ASHRAE 15-2022:

   A. PIPING INSTALLED IN A WALL OR FLOOR SPACE OR WITHIN A PROTECTIVE ENCLOSURE SHALL BE PROTECTED AS FOLLOWS:

      1) IN CONCEALED LOCATIONS WHERE COPPER TUBE IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS OR SIMILAR MEMBER LESS THAN 1.5 INCHES FROM THE NEAREST EDGE OF THE MEMBER, THE TUBE SHALL BE PROTECTED BY STEEL SHIELD PLATES WITH A MINIMUM THICKNESS OF 0.0575 INCH.

      2) PROTECTIVE STEEL SHIELD PLATES SHALL COVER THE AREA OF THE TUBE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.

   B. PIPING EXPOSED INSIDE OF A BUILDING SHALL BE INSTALLED AT AN ELEVATION THAT IS MORE THAN 7 FEET 3 INCHES ABOVE THE FINISHED FLOOR OR WHEN THE PIPING IS WITHIN 6 FEET OF THE APPLIANCE TO WHICH IT CONNECTS. OTHERWISE INSTALL REFRIGERANT PIPING IN RIGID OR FLEXIBLE CONDUIT AND IN LOCATIONS WHERE EXPOSED TO MECHANICAL INJURY.

   C. PIPING IN AN ATTIC OR CRAWL SPACE, PROVIDED THAT COPPER TUBE IS INSTALLED 1.5 INCHES FROM THE NEAREST EDGE OF THE MEMBER, THE TUBE SHALL BE PROTECTED BY STEEL SHIELD PLATES HAVING A MINIMUM THICKNESS OF 0.0575 INCH (NO. 16 GAGE). PROTECTIVE STEEL PLATES ARE NOT REQUIRED IN LOCATIONS WHERE THE REFRIGERANT PIPING IS EXPOSED.

   D. PIPING OUTSIDE THE BUILDING SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:

      1) PROTECTED FROM DAMAGE FROM THE WEATHER, INCLUDING BUT NOT LIMITED TO HAIL, ICE AND SNOW LOADS.

      2) PROTECTED FROM DAMAGE WHERE LOCATED IN AN EXPECTED FOOT OR TRAFFIC PATH.

      3) UNDERGROUND BELOW THE FROST LINE AND NOT LESS THAN 8 INCHES BELOW FINISH GRADE.

7. REFRIGERANT PIPING SHALL NOT BE INSTALLED IN ANY OF THE FOLLOWING LOCATIONS:

   A. EXPOSED WITHIN A FIRE-RESISTANCE-RATED EXIT ACCESS CORRIDOR.

   B. EXPOSED WITHIN AN INTERIOR EXIT STAIRWAY.

   C. WITHIN AN INTERIOR EXIT RAMP ENCLOSURE.

   D. WITHIN AN EXIT PASSAGEWAY.

   E. WITHIN AN ELEVATOR, DUMBWAITER OR OTHER SHAFT CONTAINING A MOVING OBJECT.

   F. INSIDE AN AIR DUCT OR AIR DUCT PLENUM.

8. REFRIGERANT PIPING INSTALLED IN CONCRETE FLOORS SHALL BE ENCASED IN PIPE, CONDUIT OR DUCTS. THE REFRIGERANT PIPING SHALL BE PROTECTED TO PREVENT DAMAGE FROM VIBRATION, STRESS AND CORROSION.

9. INSTALL REFRIGERANT PIPING IN PROTECTIVE CONDUIT WERE INSTALLED BELOW GROUND. THE PIPING SHALL BE PROTECTED TO PREVENT DAMAGE FROM VIBRATION, STRESS AND CORROSION.

10. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE. INSTALL PIPING AS SHORT AND DIRECT AS POSSIBLE, WITH A MINIMUM NUMBER OF JOINTS, ELBOWS, AND FITTINGS. REFRIGERANT PIPING SHALL BE INSTALLED SO AS TO PREVENT STRAINS AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE.

11. INSULATE ALL REFRIGERANT PIPING IN ACCORDANCE WITH SPECIFICATION SECTION 232300 "REFRIGERANT PIPING".

12. INSTALL PIPING WITH ADEQUATE CLEARANCE BETWEEN PIPE AND ADJACENT WALLS AND HANGERS OR BETWEEN PIPES FOR INSULATION INSTALLATION.

13. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.

14. INSTALL PIPING ADJACENT TO EQUIPMENT TO ALLOW SERVICE AND MAINTENANCE.

15. INSTALL PIPING FREE OF SAGS AND BENDS.

16. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

17. SELECT SYSTEM COMPONENTS WITH PRESSURE RATING EQUAL TO OR GREATER THAN SYSTEM OPERATING PRESSURE.

18. ARRANGE PIPING TO ALLOW INSPECTION AND SERVICE OF REFRIGERATION EQUIPMENT. INSTALL VALVES AND SPECIALTIES IN ACCESSIBLE LOCATIONS TO ALLOW FOR SERVICE AND INSPECTION. INSTALL ACCESS DOORS OR PANELS AS SPECIFIED IN SECTION 083113 "ACCESS DOORS AND FRAMES" IF VALVES OR EQUIPMENT REQUIRING MAINTENANCE IS CONCEALED BEHIND FINISHED SURFACES.

19. SLOPE REFRIGERANT PIPING IN ACCORDANCE WITH EQUIPMENT MANUFACTURER REQUIREMENTS.

20. WHEN BRAZING OR SOLDERING, REMOVE SOLENOID-VALVE COILS AND SIGHT GLASSES; ALSO REMOVE VALVE STEMS, SEATS, PACKING, AND ACCESSIBLE INTERNAL PARTS OF REFRIGERANT SPECIALTIES. DO NOT APPLY HEAT NEAR EXPANSION-VALVE BULB.

21. IDENTIFY REFRIGERANT PIPING AND VALVES IN ACCORDANCE WITH SECTION 230553 "IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT." FOR GROUP A2L REFRIGERANTS, THE IDENTIFICATION SHALL ALSO INCLUDE THE FOLLOWING STATEMENT: "WARNING-RISK OF FIRE. FLAMMABLE REFRIGERANT."

22. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS. COMPLY WITH REQUIREMENTS FOR SLEEVES SPECIFIED IN SECTION 230500 "COMMON WORK RESULTS FOR HVAC."

23. INSTALL SLEEVE SEALS FOR PIPING PENETRATIONS OF CONCRETE WALLS AND SLABS. COMPLY WITH REQUIREMENTS FOR SLEEVE SEALS SPECIFIED IN SECTION 230500 "COMMON WORK RESULTS FOR HVAC."

24. INSTALL ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS. COMPLY WITH REQUIREMENTS FOR ESCUTCHEONS SPECIFIED IN SECTION 230500 "COMMON WORK RESULTS FOR HVAC."

25. PIPE JOINT CONSTRUCTION

   A. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS.

   B. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.

   C. SOLDERED JOINTS: CONSTRUCT JOINTS IN ACCORDANCE WITH ASTM B828 OR CDA'S "COPPER TUBE HANDBOOK."

   D. BRAZED JOINTS: CONSTRUCT JOINTS IN ACCORDANCE WITH AWS BRH, "BRAZING HANDBOOK," CH. 35, "PIPE AND TUBING."

      1) USE TYPE BCUP (COPPER-PHOSPHORUS) ALLOY FOR JOINING COPPER SOCKET FITTINGS WITH COPPER PIPE.

      2) USE TYPE BAG (CADMIUM-FREE SILVER) ALLOY FOR JOINING COPPER WITH BRONZE OR STEEL.

27. INSTALLATION OF HANGERS AND SUPPORTS

   A. COMPLY WITH SECTION 230529 "HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT" FOR HANGERS, SUPPORTS, AND ANCHOR DEVICES.

   B. INSTALL THE FOLLOWING PIPE ATTACHMENTS:

      1) ADJUSTABLE STEEL CLEVIS HANGERS FOR INDIVIDUAL HORIZONTAL RUNS LESS THAN 20 FT. (6 M) LONG.

      2) ROLLER HANGERS AND SPRING HANGERS FOR INDIVIDUAL HORIZONTAL RUNS 20 FT. (6 M) OR LONGER.

      3) PIPE ROLLER: MSS SP-58, TYPE 44 FOR MULTIPLE HORIZONTAL PIPING 20 FT. (6 M) OR LONGER, SUPPORTED ON A TRAPEZE.

      4) SPRING HANGERS TO SUPPORT VERTICAL RUNS.

      5) COPPER-CLAD HANGERS AND SUPPORTS FOR HANGERS AND SUPPORTS IN DIRECT CONTACT WITH COPPER PIPE.

   D. INSTALL HANGERS FOR COPPER TUBING, WITH MAXIMUM SPACING IN ACCORDANCE WITH ASHRAE 15-2022, MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS, TO COMPLY WITH MSS SP-58, LOCALLY ENFORCED CODES, AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS, WHICHEVER ARE MOST STRINGENT.

   E. SUPPORT HORIZONTAL PIPING WITHIN 12 INCHES (300 MM) OF EACH FITTING.

   F. SUPPORT VERTICAL RUNS OF COPPER TUBING TO COMPLY WITH MSS SP-58, LOCALLY ENFORCED CODES, AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS, WHICHEVER ARE MOST STRINGENT.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ | PROJ. NO.: 22-N005

APPROVED BY: CEL

SHEET TITLE

MECHANICAL COVER SHEET

SHEET NO.

M-002

REFRIGERANT EQUIPMENT INSTALLATION REQUIREMENTS

1. CODE COMPLIANCE: ASHRAE 15-2022.

2. REFRIGERATION SYSTEMS SHALL BE LISTED IN ACCORDANCE WITH UL 484 OR UL 60335-2-40/CSA C22.2 NO. 60335-2-40.

3. THE REFRIGERATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE 15-2022, THE LISTING, THE MANUFACTURER'S INSTRUCTIONS AND ANY MARKINGS ON THE EQUIPMENT RESTRICTING THE INSTALLATION.

   A. THE ASHRAE 15-2022 REQUIRED NAME PLATE, SHALL INCLUDE A SYMBOL INDICATING THAT A FLAMMABLE REFRIGERANT IS USED.

   B. A LABEL INDICATING A FLAMMABLE REFRIGERANT IS INSTALLED, SHALL BE PLACED ADJACENT TO SERVICE PORTS AND OTHER LOCATIONS WHERE SERVICE INVOLVING COMPONENTS CONTAINING REFRIGERANT IS PERFORMED.

4. EQUIPMENT SHALL HAVE A FACTORY INSTALLED REFRIGERANT DETECTION SYSTEM IN ACCORDANCE WITH/ASHRAE 15-2022.

5. EQUIPMENT PRESSURE RELIEF DEVICES

   A. DIFFERENT REFRIGERANTS SHALL NOT BE VENTED INTO A COMMON RELIEF PIPING SYSTEM.

   B. PRESSURE RELIEF DEVICES DESIGNED TO DISCHARGE EXTERNAL TO THE REFRIGERATION SYSTEM SHALL BE ARRANGED TO DISCHARGE OUTSIDE OF THE BUILDING AND COMPLY WITH ALL OF THE FOLLOWING:

      1) THE POINT OF VENT DISCHARGE SHALL BE LOCATED NOT LESS THAN 15 FEET ABOVE THE ADJOINING GROUND LEVEL.

      2) THE POINT OF VENT DISCHARGE SHALL BE LOCATED NOT LESS THAN 20 FEET FROM WINDOWS, BUILDING VENTILATION OPENINGS, PEDESTRIAN WALKWAYS ABOVE OR BELOW GRADE, PITS, RAMPS OR BUILDING EXITS. THE RELIEF VENT SHALL NOT DISCHARGE INTO AN ENCLOSED OUTDOOR SPACE SUCH AS A COURTYARD.

      3) THE TERMINATION POINT OF A VENT DISCHARGE LINE SHALL BE MADE IN A MANNER THAT PREVENTS FOREIGN MATERIAL OR DEBRIS.

6. INSTALL VALVE AND SPECIALTY APPLICATIONS AS REQUIRED BY EQUIPMENT LISTING AND, MANUFACTURERS REQUIREMENTS AS FOLLOWS:

   A. STOP VALVES SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

      1) REFRIGERATION SYSTEM CONTAINING MORE THAN 6.6 POUNDS OF REFRIGERANT.

         - THE SUCTION INLET OF EACH COMPRESSOR, COMPRESSOR UNIT OR CONDENSING UNIT.
         - THE DISCHARGE OUTLET OF EACH COMPRESSOR, COMPRESSOR UNIT OR CONDENSING UNIT.
         - THE OUTLET OF EACH LIQUID RECEIVER.

      2) REFRIGERATION SYSTEMS CONTAINING MORE THAN 100 POUNDS OF REFRIGERANT.

         - THE SUCTION INLET OF EACH COMPRESSOR, COMPRESSOR UNIT OR CONDENSING UNIT.
         - THE DISCHARGE OUTLET OF EACH COMPRESSOR, COMPRESSOR UNIT OR CONDENSING UNIT.
         - THE OUTLET OF EACH LIQUID RECEIVER.
         - EACH INLET OF EACH LIQUID RECEIVER.
         - EACH INLET AND EACH OUTLET OF EACH CONDENSER WHERE MORE THAN ON CONDENSER IS USED IN PARALLEL.

   B. STOP VALVES SHALL BE SUPPORTED TO PREVENT STRESS AND STRAIN ON THE REFRIGERANT PIPING SYSTEM. THE PIPING SYSTEM SHALL NOT BE UTILIZED TO SUPPORT STOP VALVES ON COPPER TUBING 1-INCH OUTSIDE DIAMETER OR LARGER.

   C. STOP VALVES SHALL BE IDENTIFIED WHERE THEIR INTENDED PURPOSE IS NOT OBVIOUS. WHERE VALVES ARE IDENTIFIED BY A NUMBERING OR LETTERING SYSTEM, LEGEND(S) OR KEY(S) FOR THE VALVE IDENTIFICATION SHALL BE LOCATED IN THE ROOM CONTAINING THE INDOOR REFRIGERATION EQUIPMENT. THE MINIMUM HEIGHT OF LETTERING OF THE IDENTIFICATION SHALL BE ½-INCH.

7. LIQUID-LEVEL-GAGE GLASS COLUMNS SHALL HAVE AUTOMATIC CLOSING SHUTOFF VALVES. ALL SUCH GLASS COLUMNS SHALL BE PROTECTED AGAINST EXTERNAL DAMAGE AND PROPERLY SUPPORTED.

   A. EXCEPTION: LIQUID-LEVEL-GAGE GLASSES OF THE BULL'S-EYE TYPE.

8. WHEN A PRESSURE GAGE IS PERMANENTLY INSTALLED ON THE HIGH SIDE OF A REFRIGERATING SYSTEM, ITS DIAL SHALL BE GRADUATED TO AT LEAST 1.2 TIMES THE DESIGN PRESSURE.

9. LIQUID RECEIVERS, OR PARTS OF A SYSTEM DESIGNED TO RECEIVE THE REFRIGERANT CHARGE DURING PUMP DOWN SHALL HAVE SUFFICIENT CAPACITY TO RECEIVE THE PUMP DOWN CHARGE. THE LIQUID SHALL NOT OCCUPY MORE THAN 90 PERCENT OF THE VOLUME WHEN TEMPERATURE OF THE REFRIGERANT IS 90 DEG F.

10. SERVICE PROVISIONS

    A. ALL SERVICEABLE COMPONENTS OF REFRIGERATING SYSTEMS SHALL BE PROVIDED WITH SAFE ACCESS.

    B. CONDENSING UNITS OR COMPRESSOR UNITS WITH ENCLOSURES SHALL BE PROVIDED WITH SAFE ACCESS WITHOUT THE NEED TO CLIMB OVER OR REMOVE ANY OBSTACLES OR TO USE PORTABLE ACCESS DEVICES TO GET TO THE EQUIPMENT.

    C. ALL SYSTEMS SHALL HAVE PROVISIONS TO HANDLE THE REFRIGERANT CHARGE FOR SERVICE PURPOSES. WHEN REQUIRED, THERE SHALL BE LIQUID AND VAPOR TRANSFER VALVES, A TRANSFER COMPRESSOR OR PUMP AND REFRIGERANT STORAGE TANKS OR APPROPRIATE VALVED CONNECTIONS FOR REMOVAL BY A RECLAIM, RECYCLE OR RECOVERY DEVICE.

11. SYSTEM CHARGING IN ACCORDANCE WITH ASHRAE 15-2022.

12. SYSTEM ADJUSTING IN ACCORDANCE WITH ASHRAE 15-2022.

REFRIGERANT DUCTWORK INSTALLATION REQUIREMENTS

1. CODE COMPLIANCE: ASHRAE 15-2022.

2. UNCLASSIFIED ELECTRICAL DEVICES SHALL NOT BE LOCATED WITHIN DUCTWORK.

3. DEVICES CONTAINING HOT SURFACES EXCEEDING 1290 DEGREES F SHALL NOT BE LOCATED IN DUCTWORK UNLESS THERE IS AN AVERAGE AIRFLOW VELOCITY NOT LESS THAN 200 FEET/MIN ACROSS THE HEATING DEVICE(S) AND THERE IS PROOF OF AIRFLOW BEFORE THE HEATING DEVICE(S) IS ENERGIZED. AVERAGE AIRFLOW VELOCITY SHALL BE DETERMINED BY VOLUMETRIC AIRFLOW RATE DIVIDED BY DUCT FLOW RATE.

4. DUCT HEATERS SHALL BE SHUT DOWN BY A REFRIGERANT DETECTION SYSTEM. CONTRACTOR SHALL PROVIDE A REFRIGERANT DETECTION SYSTEM TO SHUTDOWN DUCT MOUNTED HEATERS WHEN A REFRIGERANT LEAK IS SENSED.

REFRIGERANT PIPING TEST AND INSPECTIONS

1. CODE COMPLIANCE: PIPING SHALL BE TESTED IN ACCORDANCE WITH ASHRAE 15-2022.

2. TESTING AGENCY: ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.

3. TESTS AND INSPECTIONS:

   A. GENERAL. REFRIGERATING SYSTEMS FABRICATED, ASSEMBLED, OR ERECTED ON THE PREMISES SHALL BE TESTED TO THE APPLICABLE REQUIREMENTS OF THIS SECTION. TESTS SHALL INCLUDE BOTH THE HIGH SIDES AND LOW SIDES OF EACH SYSTEM. SYSTEM COMPONENTS THAT HAVE BEEN STRENGTH TESTED UNDER PRESSURE BY THE COMPONENT MANUFACTURER, FABRICATOR, OR ASSEMBLER ARE NOT REQUIRED TO BE STRENGTH TESTED AGAIN ON THE PREMISES UNLESS MODIFIED OR REPAIRED. LISTED EQUIPMENT NOT MODIFIED OR REPAIRED SHALL NOT BE REQUIRED TO BE STRENGTH TESTED ON THE PREMISES. AFTER INSTALLATION AND BEFORE BEING PLACED IN OPERATION, SYSTEM COMPONENTS NOT PREVIOUSLY STRENGTH TESTED SHALL BE STRENGTH TESTED UNDER PRESSURE IN ACCORDANCE WITH PIPING SYSTEM STRENGTH TEST BELOW. AFTER SUCCESSFUL COMPLETION OF THE REQUIRED STRENGTH TESTS AND BEFORE BEING PLACED IN OPERATION, SYSTEM COMPONENTS AND FIELD INSTALLED CONNECTIONS SHALL BE LEAK TESTED FOR TIGHTNESS IN ACCORDANCE WITH LEAKAGE TEST BELOW.

   B. REFRIGERANT PIPE AND JOINTS INSTALLED IN THE FIELD SHALL BE EXPOSED FOR VISUAL INSPECTION AND TESTING PRIOR TO BEING COVERED OR ENCLOSED.

   C. TEST GASES. THE MEDIUM USED FOR FIELD PRESSURE TESTING THE REFRIGERANT SYSTEM SHALL BE ONE OF THE FOLLOWING INERT GASES: OXYGEN-FREE NITROGEN, HELIUM, ARGON OR PREMIXED NONFLAMMABLE OXYGEN-FREE NITROGEN WITH A TRACER GAS OF HYDROGEN OR HELIUM.

      1) TEST GASES NOT PERMITTED. OXYGEN, AIR, REFRIGERANTS OTHER THAN THOSE IDENTIFIED ABOVE, COMBUSTIBLE GASES AND MIXTURES CONTAINING SUCH GASES SHALL NOT BE USED AS THE TEST MEDIUM.

   D. FIELD TEST APPARATUS. THE MEANS USED TO PRESSURIZE THE REFRIGERANT PIPING SYSTEM SHALL HAVE EITHER A PRESSURE-LIMITING DEVICE OR A PRESSURE-REDUCING DEVICE AND A TEST PRESSURE MEASURING DEVICE ON THE OUTLET SIDE. THE TESTS PRESSURE MEASURING DEVICE SHALL HAVE AN ACCURACY OF +/-3 PERCENT OR LESS OF THE TEST PRESSURE AND SHALL HAVE A RESOLUTION OF 3 PERCENT OR LESS OF THE TEST PRESSURE.

   E. PIPING SYSTEM STRENGTH TEST. REFRIGERATING SYSTEM COMPONENTS AND REFRIGERANT PIPING SHALL BE TESTED IN ACCORDANCE WITH ASME B31.5 OR THIS SECTION. SEPARATE TESTS FOR ISOLATED PORTIONS OF THE SYSTEM ARE PERMITTED, PROVIDED THAT ALL REQUIRED PORTIONS ARE TESTED AT LEAST ONCE. PRESSURIZE WITH TEST GAS FOR A MINIMUM OF 10 MINUTES TO NOT LESS THAN THE LOWER OF (A) THE LOWEST DESIGN PRESSURE FOR ANY SYSTEM COMPONENT OR (B) THE LOWEST VALUE OF SET PRESSURE FOR ANY PRESSURE RELIEF DEVICES IN THE SYSTEM. THE DESIGN PRESSURES FOR DETERMINATION OF TEST PRESSURE SHALL BE THE PRESSURE IDENTIFIED ON THE LABEL NAMEPLATE OF THE CONDENSING UNIT, COMPRESSOR, COMPRESSOR UNIT, PRESSURE VESSEL OR OTHER SYSTEM COMPONENT WITH A NAMEPLATE. A PASSING TEST RESULT SHALL HAVE NO RUPTURE OR STRUCTURAL FAILURE OF ANY SYSTEM COMPONENT OR REFRIGERANT PIPING. PRESSURE RELIEF DEVICES MAY NEED TO BE TEMPORARILY REMOVED AND REPLACED WITH PLUGS DURING THE STRENGTH TEST.

   F. LEAKAGE TEST. THE LEAK TEST SHALL BE IN ACCORDANCE WITH ASHRAE STANDARD 147, ASME B31.5, OR THIS SECTION.

      1) LEAK TESTING PROTOCOL. AFTER THE TIME TO COMPLETE THE STRENGTH TEST, CONTINUE TO PRESSURE TEST IN ACCORDANCE WITH PIPING SYSTEM STRENGTH TEST ABOVE FOR A MINIMUM PERIOD AS SPECIFIED IN THE FOLLOWING TABLE, DURATION OF LEAK TEST. THE SYSTEM SHALL SHOW NO LOSS IN PRESSURE ON THE PRESSURE MEASURING DEVICE DURING THE PRESSURE TEST. CALCULATION OF THE PRESSURE DIFFERENTIAL BASED ON A CHANGE IN AMBIENT TEMPERATURE SHALL BE PERMITTED. A VACUUM OF 0.0097 PSI ABSOLUTE OR LOWER SHALL BE ACHIEVED. AFTER ACHIEVING A VACUUM, THE SYSTEM SHALL BE ISOLATED FROM THE VACUUM PUMP. THE SYSTEM PRESSURE SHALL NOT RISE ABOVE 0.029 PSI ABSOLUTE FOR A MINIMUM PERIOD AS SPECIFIED IN THE FOLLOWING TABLE, DURATION OF LEAK TEST. THE VACUUM PUMP SHOULD GRADUALLY CREATE A VACUUM TO AVOID FREEZING OF ANY MOISTURE IN THE PIPING SYSTEM.

      DURATION OF LEAK TEST

LEAK TEST	PIPE LENGTH, L (FEET)	MAXIMUM PIPE SIZE (INCH)	MINIMUM PERIOD OF TEST (HOURS)
PRESSURE TEST	L <= 100	¾ OR LESS	0.25
		1 TO 3	1
		GREATER THAN 3	24
	100 < L <= 200	3 OR LESS	1
		GREATER THAN 3	24
	200 < L	ANY	24
VACUUM TEST	L <= 100	¾ OR LESS	1
		1 TO 3	8
		GREATER THAN 3	24
	100 < L <= 200	3 OR LESS	8
		GREATER THAN 3	24
	200 < L	ANY	24

NOTE: THE MAXIMUM PIPE SIZE IS THE LARGEST INTERCONNECTING FIELD PIPING INSTALLED.

   G. CONTRACTOR DECLARATION. THE INSTALLING CONTRACTOR SHALL ISSUE A CERTIFICATE OF TEST, VERIFYING STRENGTH TEST IN ACCORDANCE WITH PIPING SYSTEM STRENGTH TEST, AND LEAKAGE TEST IN ACCORDANCE WITH LEAKAGE TEST, TO THE AHJ FOR ALL SYSTEMS CONTAINING 55 LB OR MORE OF REFRIGERANT. THE CERTIFICATE SHALL GIVE THE TEST DATE, PHOTOGRAPH OF THE PRESSURE GAGE AT THE TEST PRESSURE, REFRIGERANT DESIGNATION, TEST MEDIUM, AND THE FIELD TEST PRESSURE APPLIED TO THE HIGH SIDE AND THE LOW SIDE OF THE SYSTEM. THE CERTIFICATION OF TEST SHALL BE SIGNED BY THE INSTALLING CONTRACTOR AND SHALL BE MADE PART OF THE PUBLIC RECORD.

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ

PROJ. NO.: 22-N005

APPROVED BY: CEL

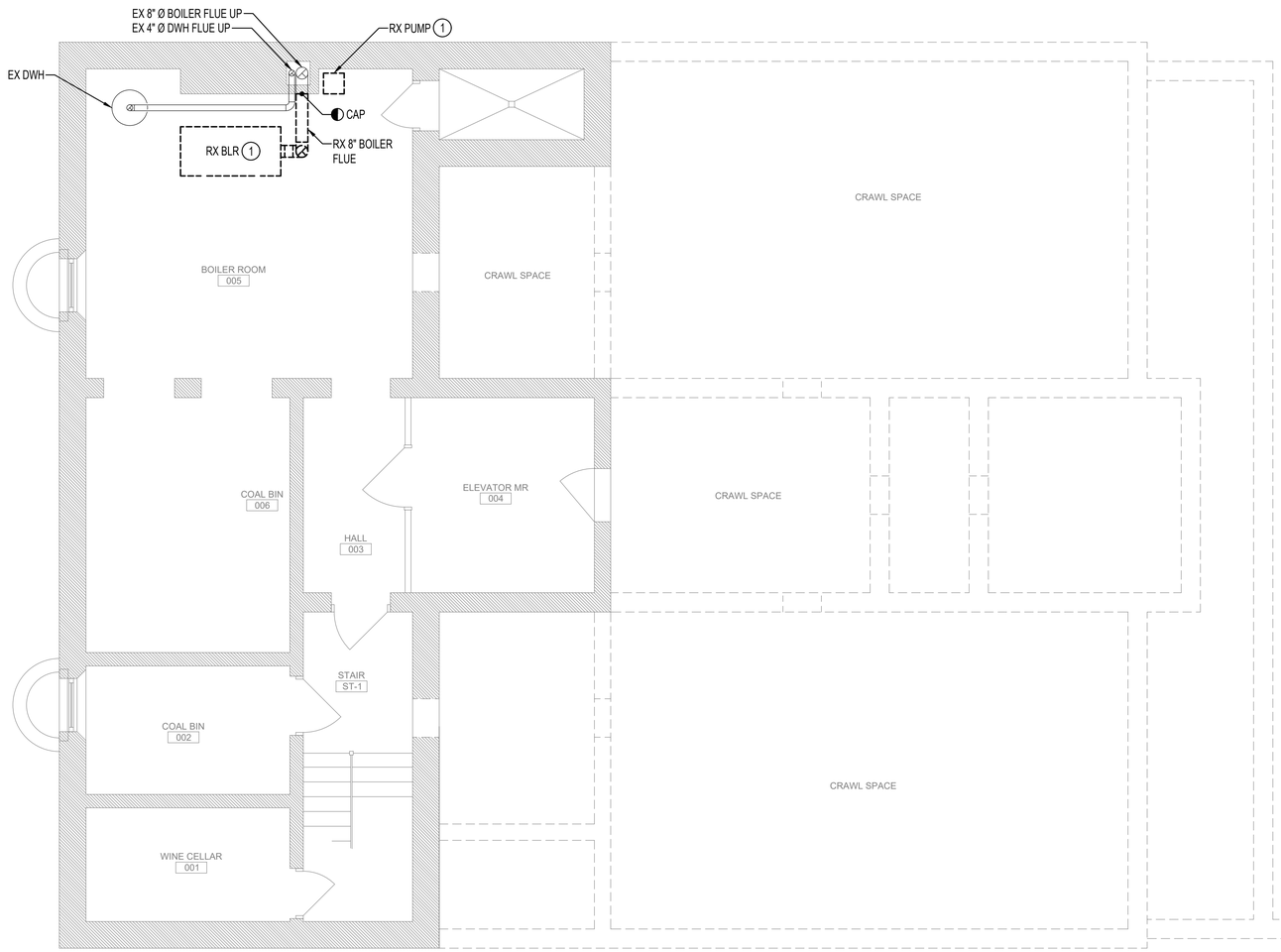
SHEET TITLE

MECHANICAL COVER SHEET

SHEET NO.

M-003

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) REMOVE EXISTING ASSOCIATED PIPING, WIRING, CONTROLS, ETC.
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - - -	



1 BASEMENT - MECHANICAL - DEMOLITION PLAN
MD-100 1/4" = 1'-0"

N

0 2 4 8 12 FT
1/4" = 1'-0"

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
APPROVED BY: CEL
PROJ. NO.: 22-N005

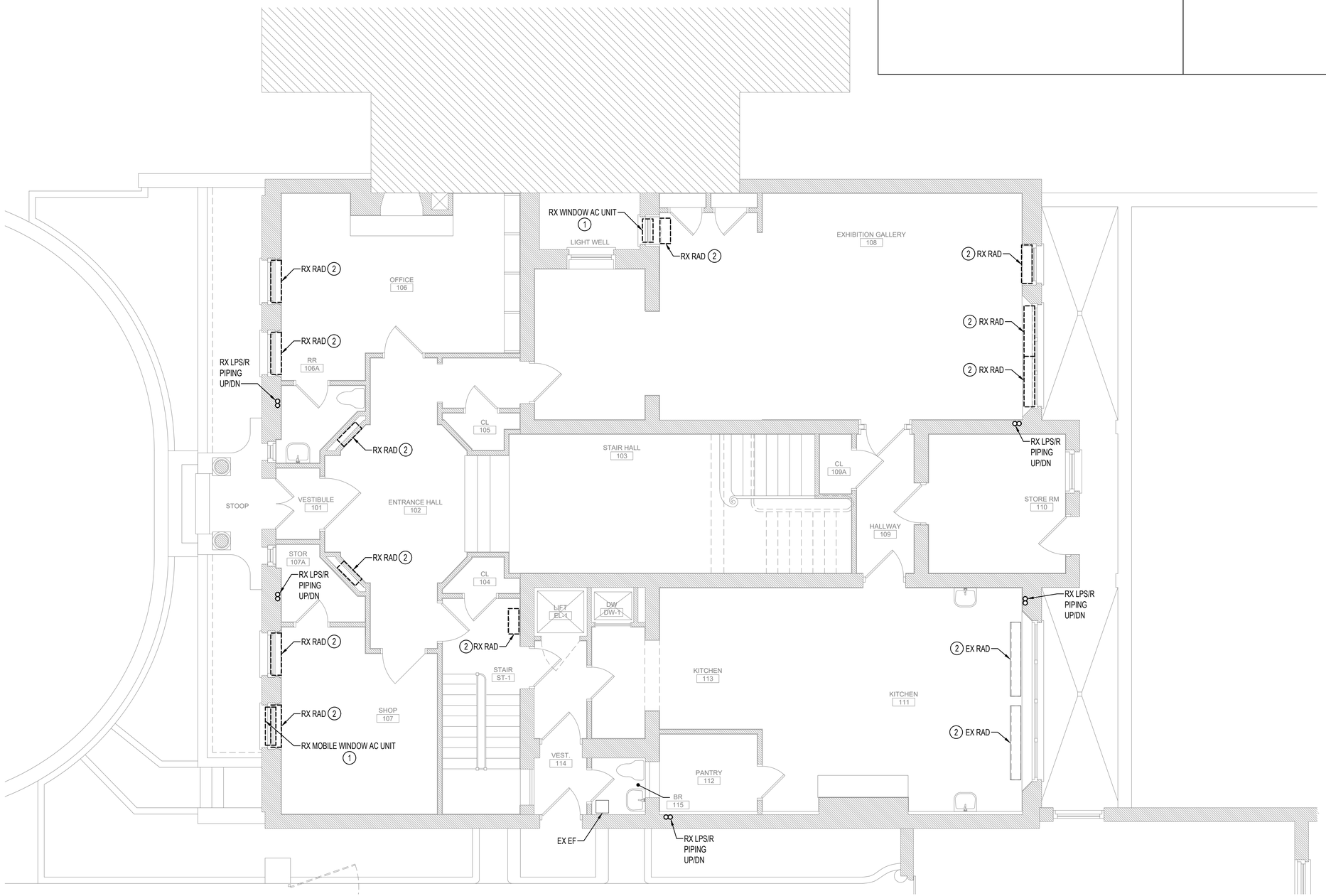
SHEET TITLE

BASEMENT - MECHANICAL - DEMOLITION

SHEET NO.

MD-100

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) REMOVE EXISTING ASSOCIATED PIPING, WIRING, CONTROLS, ETC.
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - - - -	(2) REMOVE EXISTING ASSOCIATED LPS/R PIPING DN



1 MD-101 FIRST FLOOR - MECHANICAL - DEMOLITION PLAN
1/4" = 1'-0"

N

0 2 4 8 12 FT
1/4" = 1' - 0"

Xref .\References\Henry Adams 30x42 Titleblock.dwg

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

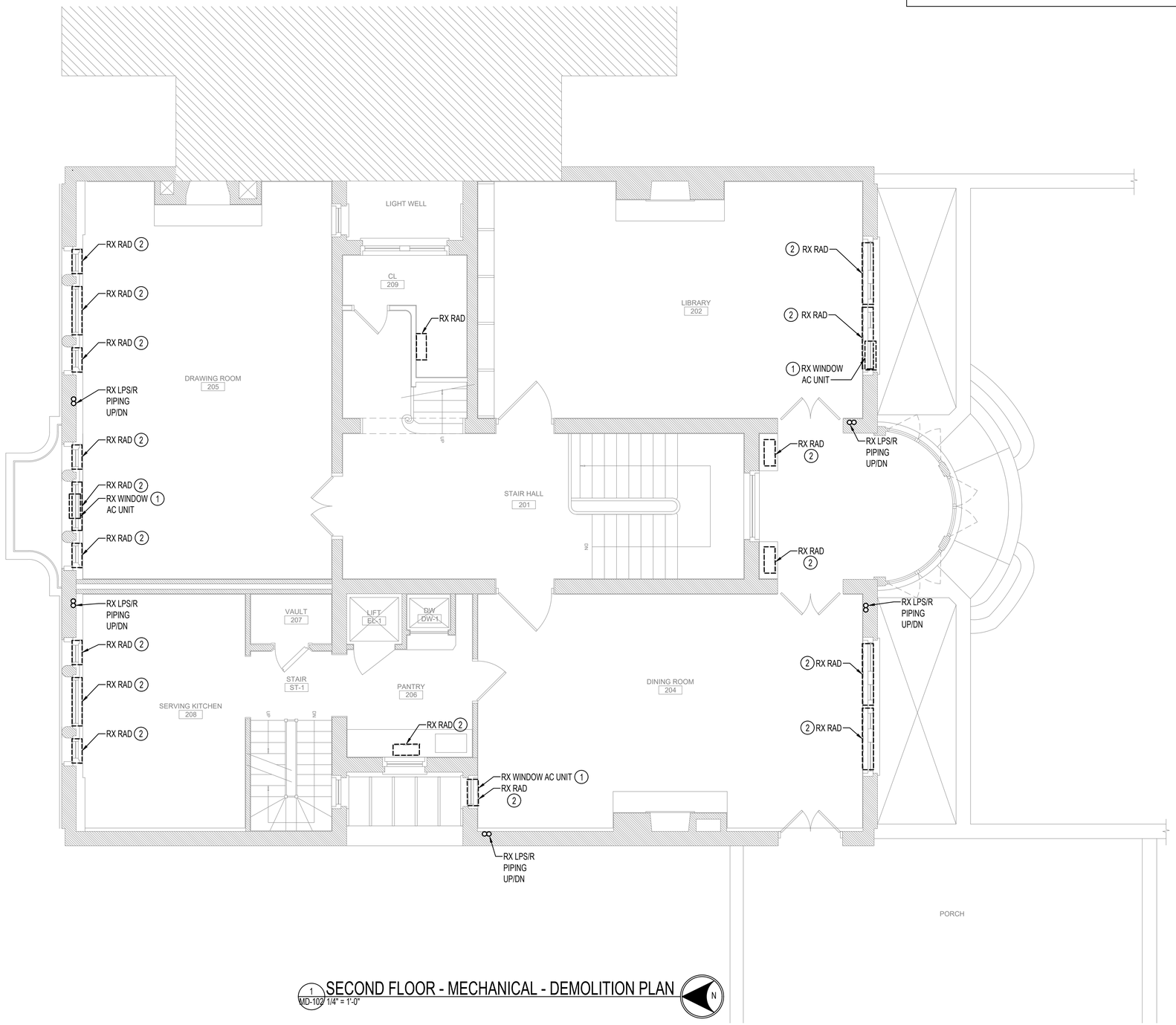
1	BID ISSUE	02/01/24
2	BID ISSUE	07/05/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

SHEET TITLE
FIRST FLOOR - MECHANICAL - DEMOLITION

SHEET NO.
MD-101

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) REMOVE EXISTING ASSOCIATED PIPING, WIRING, CONTROLS, ETC.
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - - - -	(2) CAP LPS/R PIPING BELOW FLOOR



1 MD-102 SECOND FLOOR - MECHANICAL - DEMOLITION PLAN 1/4" = 1'-0"

N

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

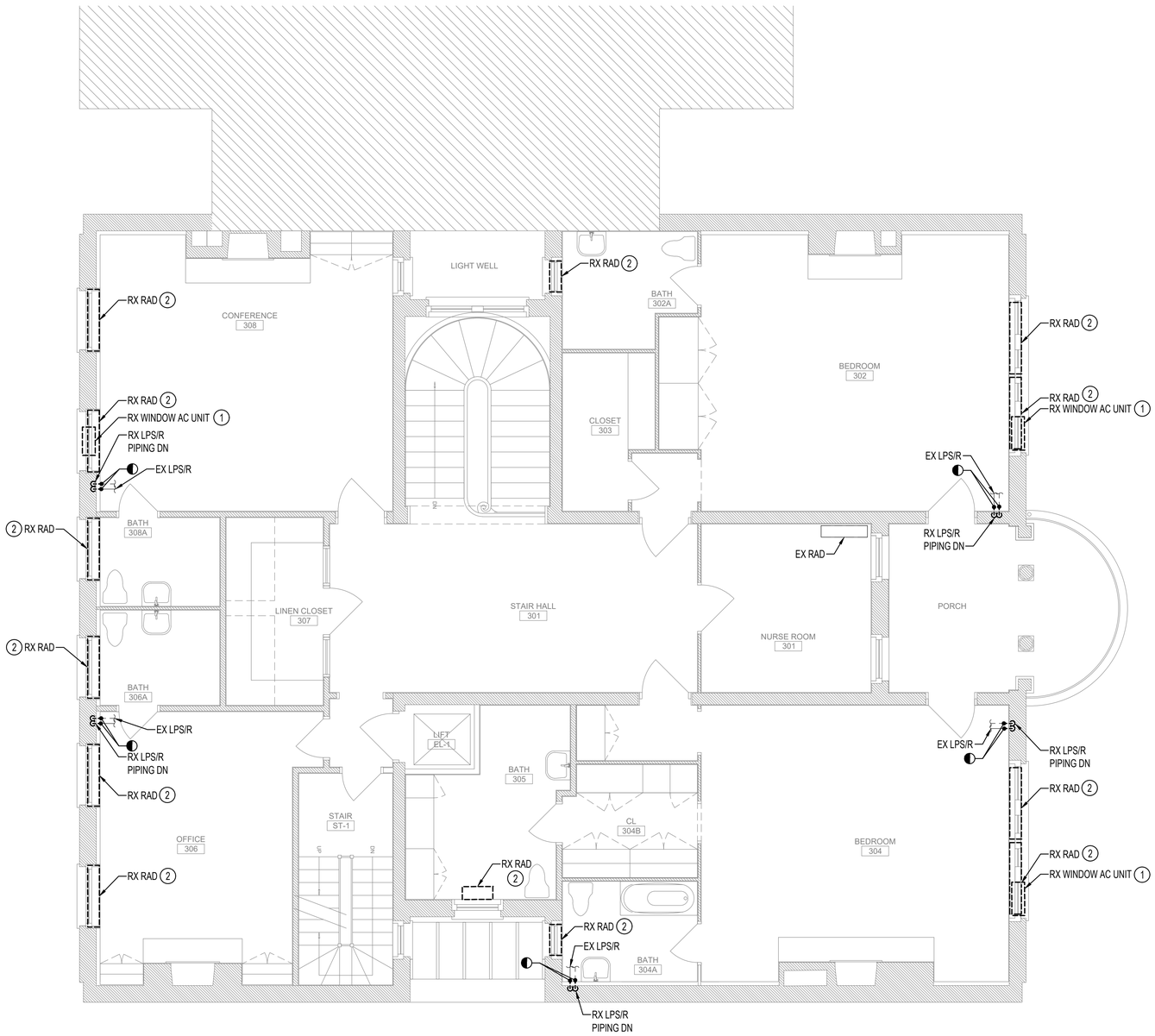
SHEET TITLE

SECOND FLOOR - MECHANICAL - DEMOLITION

SHEET NO.

MD-102

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) REMOVE EXISTING ASSOCIATED PIPING, WIRING, CONTROLS, ETC.
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - - - -	(2) CAP LPS/R PIPING BELOW FLOOR



1 MD-103 THIRD FLOOR - MECHANICAL - DEMOLITION PLAN 1/4" = 1'-0"

N

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

SHEET TITLE

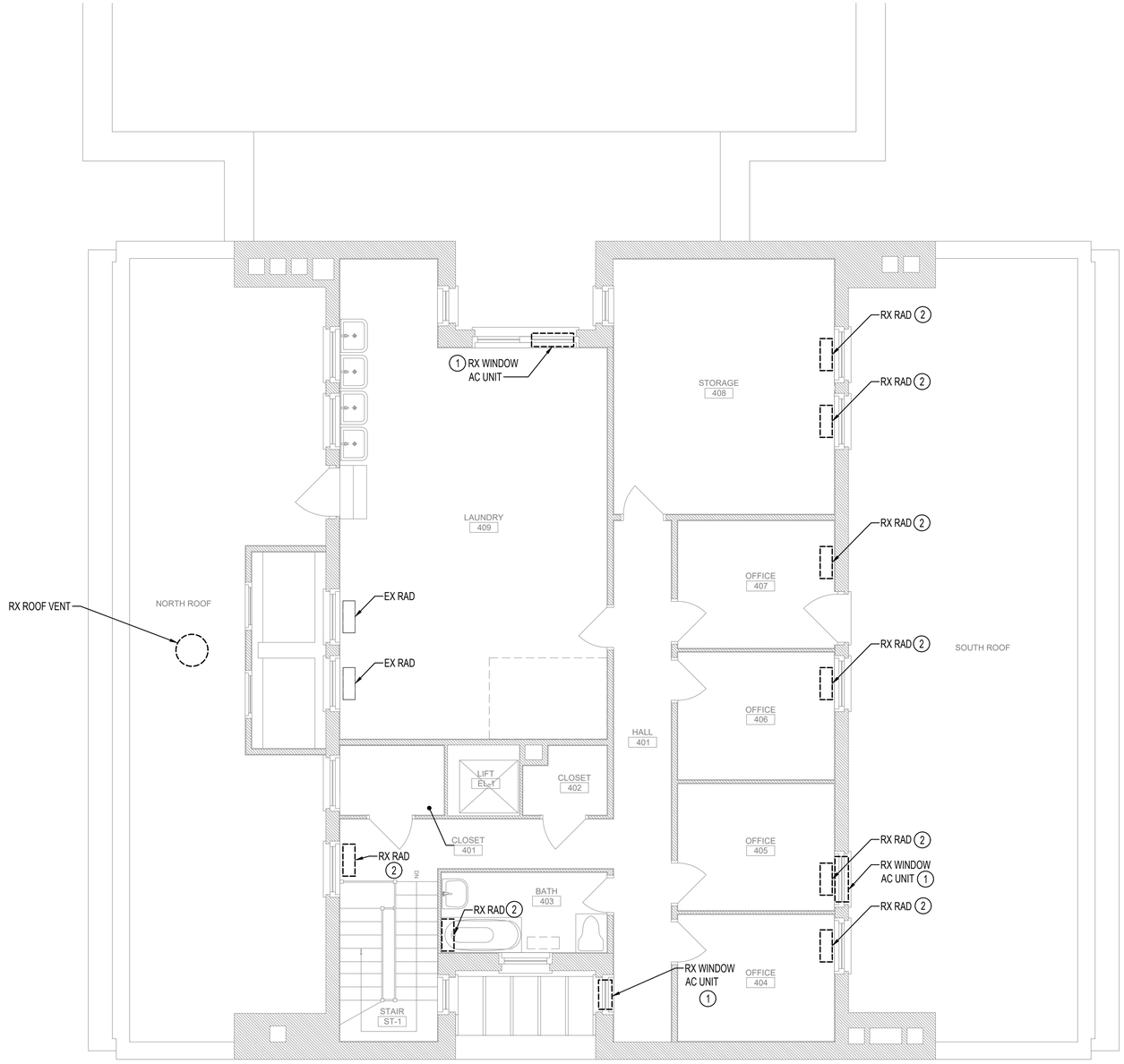
THIRD FLOOR - MECHANICAL - DEMOLITION

SHEET NO.

MD-103

Xref .\References\Henry Adams 30x42 Titleblock.dwg

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) REMOVE EXISTING ASSOCIATED PIPING, WIRING, CONTROLS, ETC.
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - - - -	(2) CAP LPS/R PIPING BELOW FLOOR



1 MD-104 FOURTH FLOOR - MECHANICAL - DEMOLITION PLAN 1/4" = 1'-0"

N

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

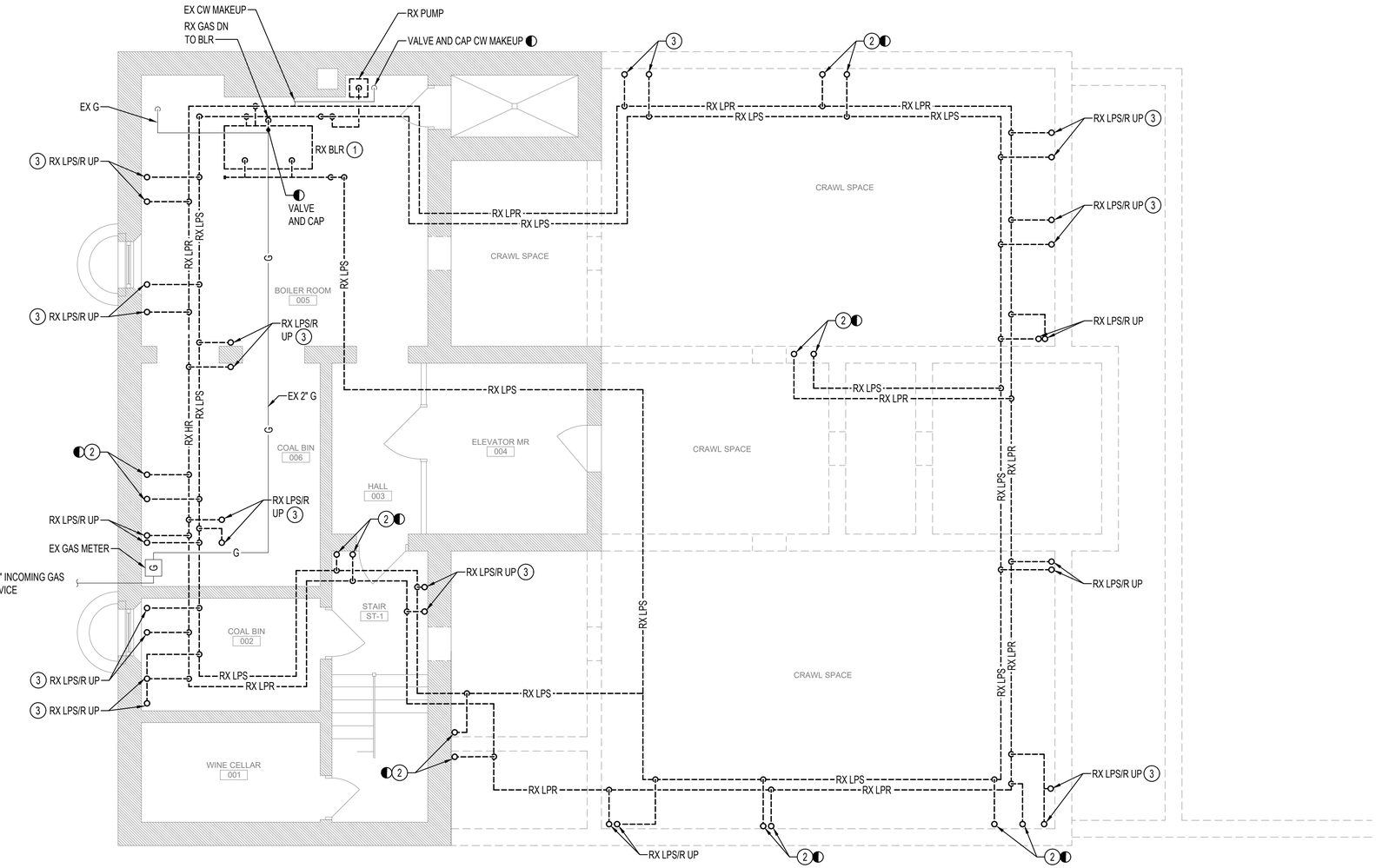
SHEET TITLE

FOURTH FLOOR - MECHANICAL - DEMOLITION

SHEET NO.

MD-104

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) REMOVE EXISTING ASSOCIATED PIPING, WIRING, CONTROLS, ETC.
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - - -	(2) CAP LPS/R 3" BELOW SLAB ABOVE.
	(3) REMOVE EXISTING LPS/R UP TO RADIATOR.



1 BASEMENT - MECHANICAL PIPING - DEMOLITION PLAN
MD-200 1/4" = 1'-0"

N

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

SHEET TITLE

BASEMENT - MECHANICAL PIPING - DEMOLITION

SHEET NO.

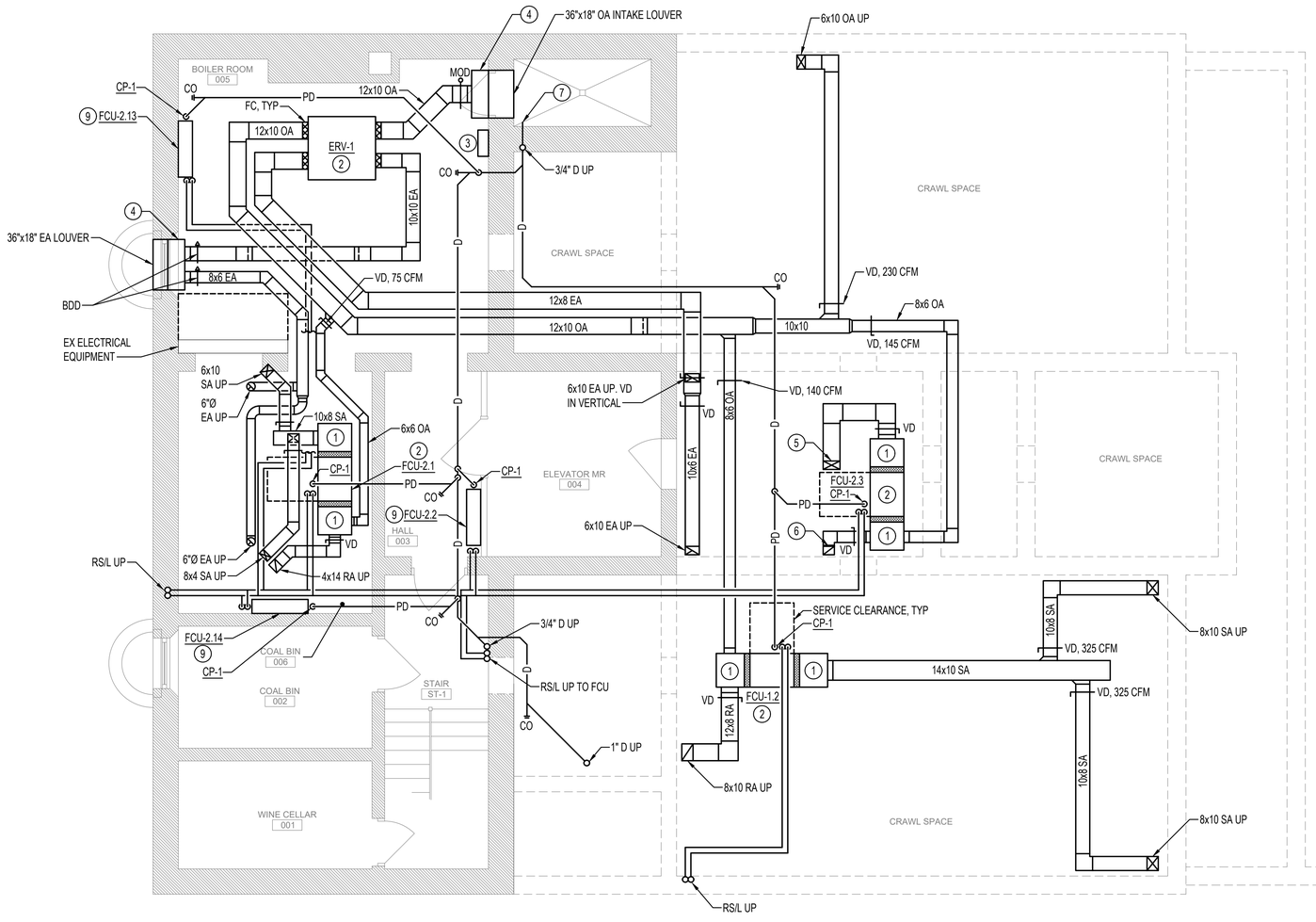
MD-200

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ——————
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ——————
3. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. 24" LONG INSULATED PLENUM. WIDTH AND HEIGHT SHALL MATCH UNIT CONNECTION SIZE.
2. INSTALL TIGHT TO CEILING. SUPPORT FROM ABOVE.
3. VRF MAIN CONTROLLER. MOUNT ON WALL WITH TOP OF UNIT APPROXIMATELY 60" AFF.
4. 12" DEEP INSULATED PLENUM. WIDTH AND HEIGHT SHALL MATCH LOUVER SIZE.
5. 12x6 SA UP.
6. 8x6 RA UP.
7. TERMINATE 2" D WITH 90 DEGREE ELBOW DOWN 1 FT ABOVE FINISHED GRADE. DISCHARGE ONTO CONCRETE SPLASH BLOCK.
8. MAINTAIN 36" CLEARANCE IN FRONT AND ABOVE ELECTRICAL EQUIPMENT.
9. FLOOR MOUNTED.



1 M-100 BASEMENT - MECHANICAL - NEW WORK PLAN
1/4" = 1'-0"

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

SHEET TITLE

BASEMENT - MECHANICAL - NEW WORK

SHEET NO.

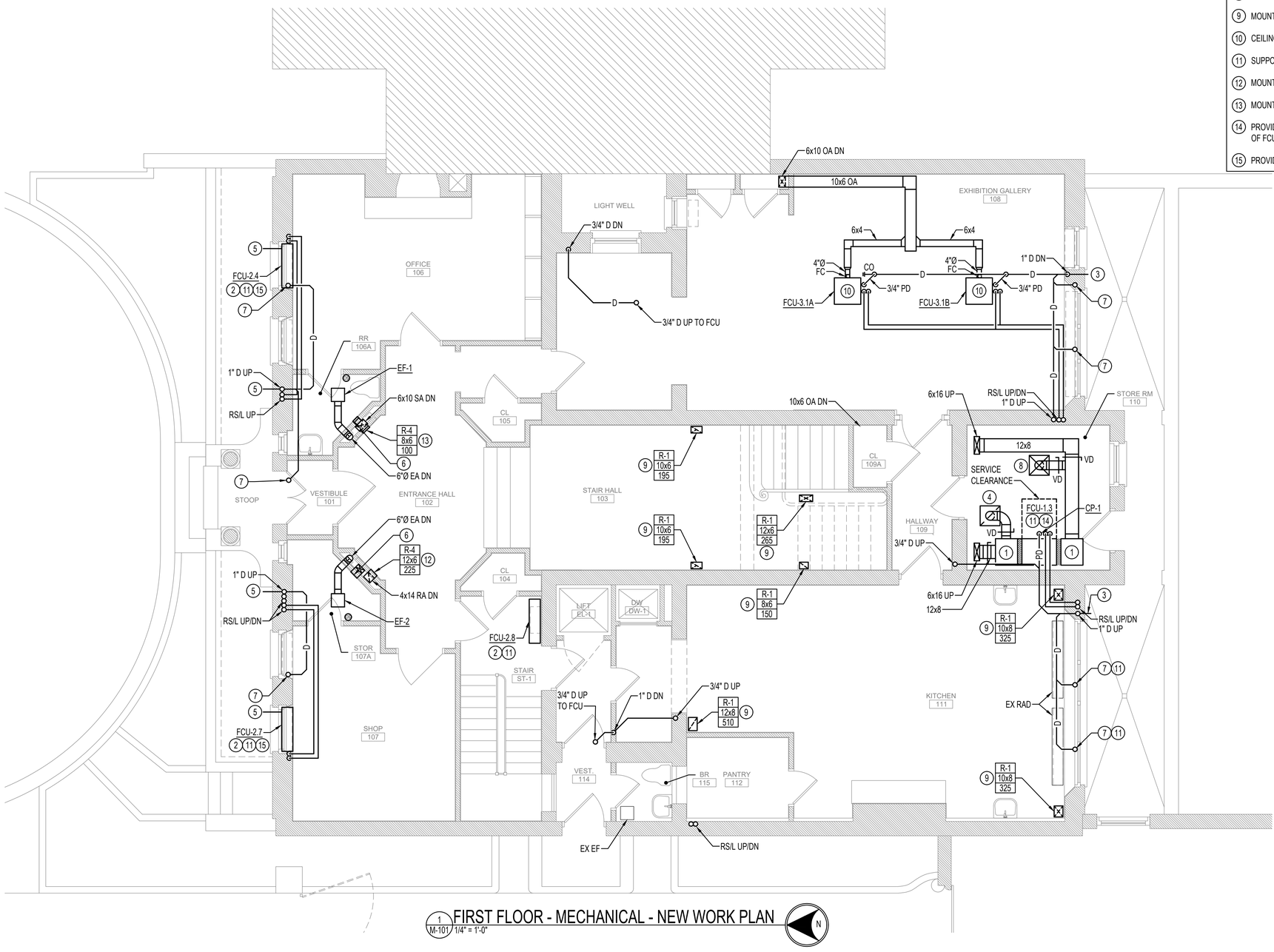
M-100

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
3. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. 24" LONG INSULATED PLENUM. WIDTH AND HEIGHT SHALL MATCH UNIT CONNECTION SIZE.
2. INSTALL FCU WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON ENCLOSURE.
3. TERMINATE 1" D WITH 90 DEGREE ELBOW DOWN 1 FT ABOVE AREAWAY. DISCHARGE ONTO CONCRETE SPLASH BLOCK.
4. 18X18 R-3, 130 CFM. 8"Ø NECK.
5. TERMINATE D WITH 90 DEGREE ELBOW DOWN 1 FT ABOVE FINISHED GRADE. DISCHARGE ONTO CONCRETE SPLASH BLOCK.
6. 6x6 R-4, 50 CFM. INSTALL IN EXISTING RADIATOR CABINET. MOUNT TOP OF REGISTER 0'-6" BELOW CEILING.
7. 3/4" D UP TO FCU.
8. 18x18 R-2, 130 CFM. 8"Ø NECK.
9. MOUNT FLUSH TO FLOOR.
10. CEILING MOUNTED. SUPPORT FROM ABOVE.
11. SUPPORT FROM ABOVE.
12. MOUNT BOTTOM OF REGISTER 0'-6" AFF.
13. MOUNT TOP OF REGISTER 0'-6" BELOW CEILING.
14. PROVIDE 4 FT X 3 FT ACCESS PANEL TO ALLOW FOR SERVICE AND FULL REMOVAL OF FCU.
15. PROVIDE 2'-0" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.



1 M-101 FIRST FLOOR - MECHANICAL - NEW WORK PLAN 1/4" = 1'-0"

N

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

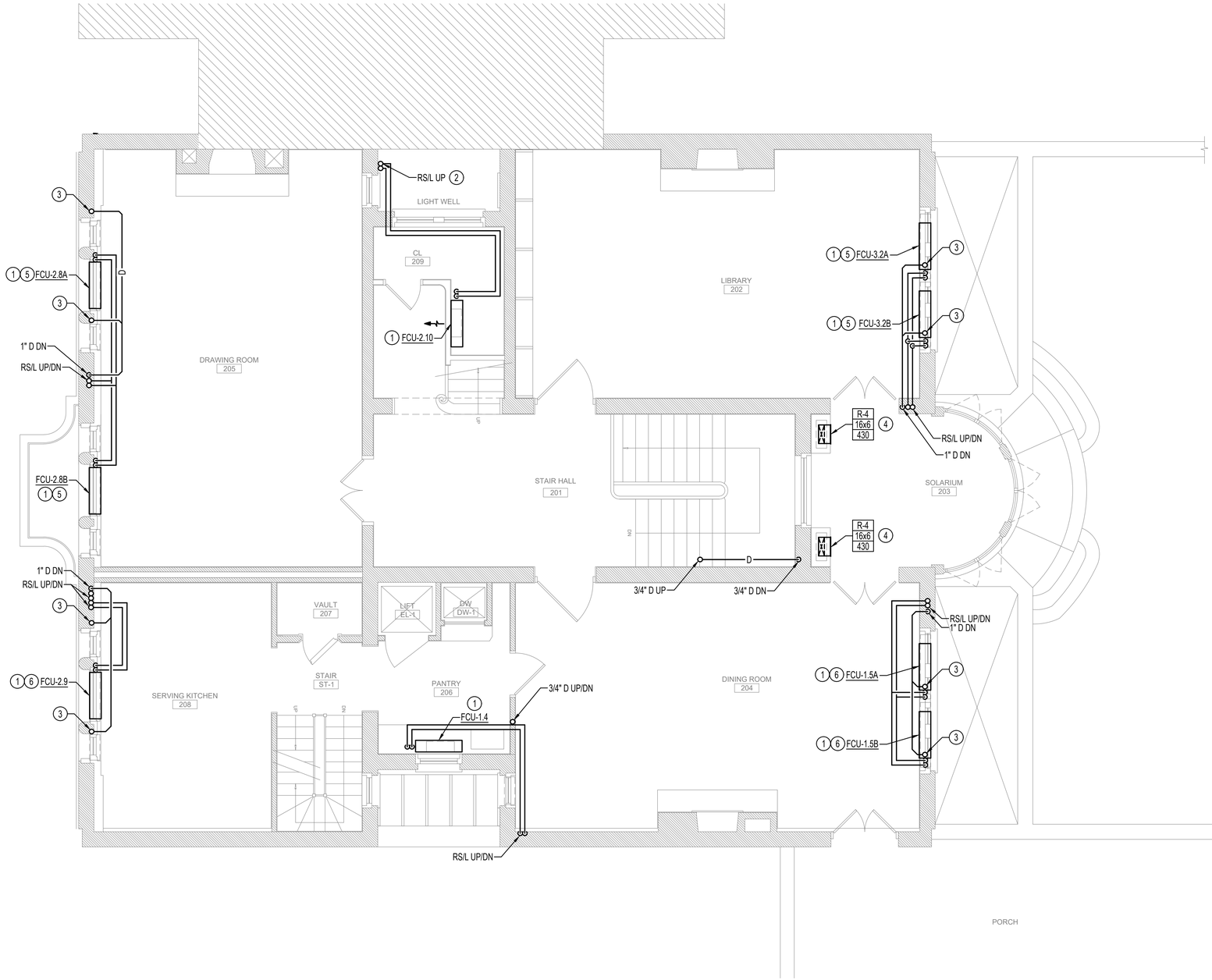
SHEET TITLE

FIRST FLOOR - MECHANICAL - NEW WORK

SHEET NO.

M-101

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) INSTALL FCU WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON ENCLOSURE.
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———	(2) SUPPORT FROM WALL.
3. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.	(3) 3/4" D UP TO FCU.
	(4) CENTER AIR DEVICE WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
	(5) PROVIDE 2'-0" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.
	(6) PROVIDE 3'-4" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.



1 M-102 SECOND FLOOR - MECHANICAL - NEW WORK PLAN
1/4" = 1'-0"

N

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

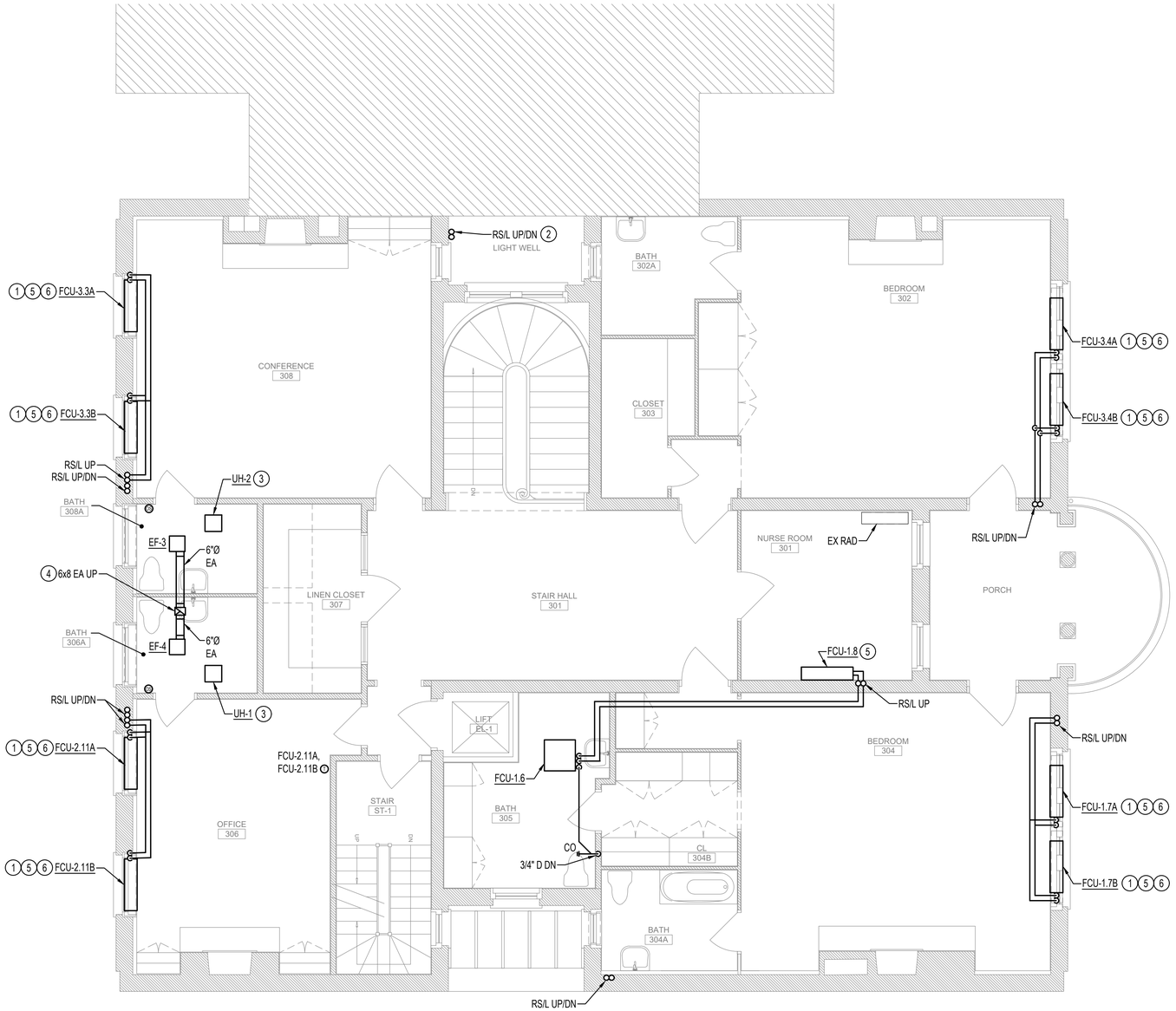
SHEET TITLE

SECOND FLOOR - MECHANICAL - NEW WORK

SHEET NO.

M-102

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———	(1) INSTALL FCU WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON ENCLOSURE.
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———	(2) SUPPORT FROM WALL
3. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.	(3) MOUNT IN CEILING
	(4) REUSE EXISTING ROOF PENETRATION.
	(5) FLOOR MOUNTED
	(6) PROVIDE 2'-0" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.



1 M-103 THIRD FLOOR - MECHANICAL - NEW WORK PLAN
1/4" = 1'-0"

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ | PROJ. NO.: 22-N005

APPROVED BY: CEL

SHEET TITLE

THIRD FLOOR - MECHANICAL - NEW WORK

SHEET NO.

M-103

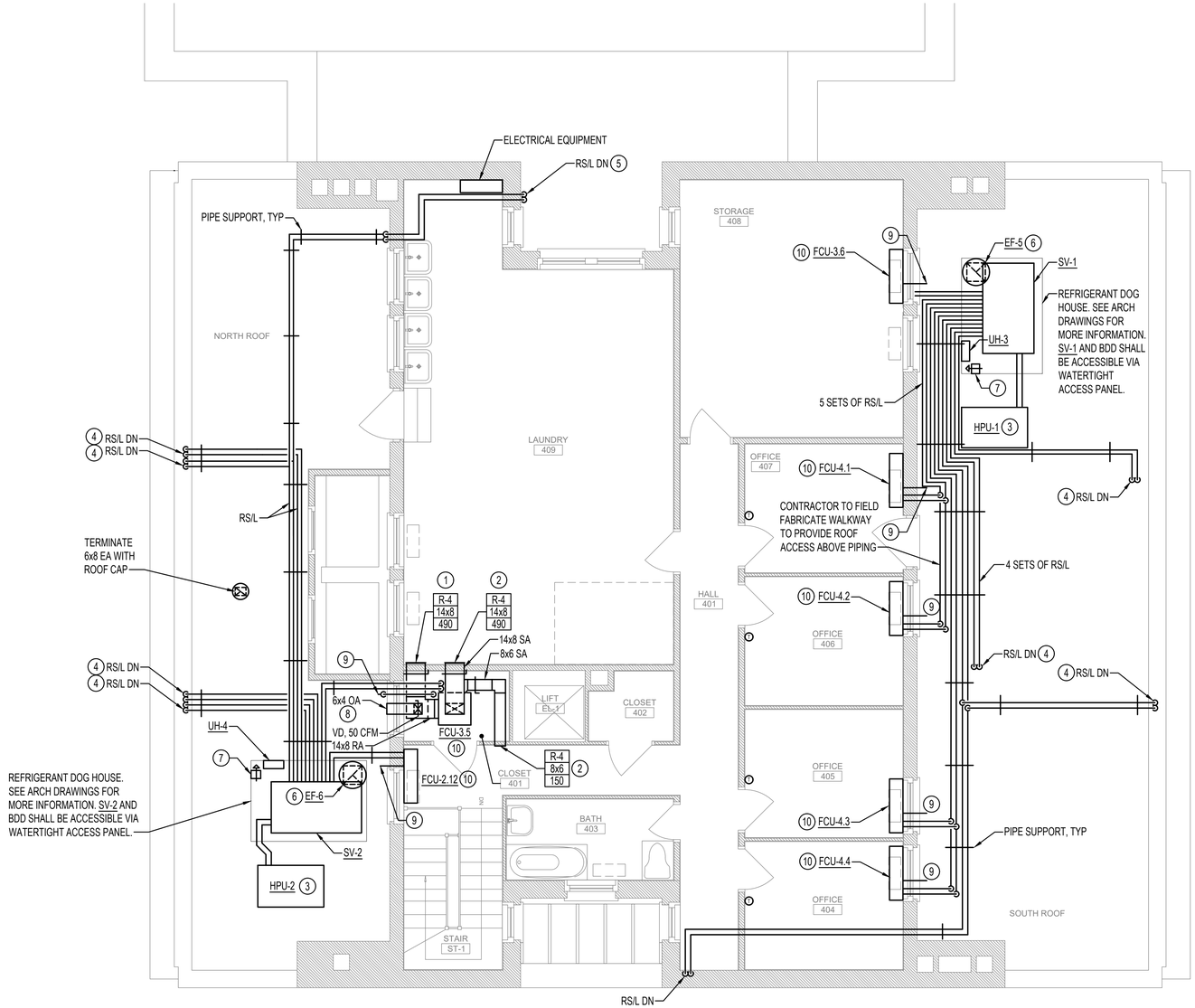
Xref .\References\Henry Adams 30x42 Titleblock.dwg

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ——————
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ——————
3. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. MOUNT BOTTOM OF REGISTER 0'-4" AFF.
2. MOUNT TOP OF REGISTER 0'-4" BELOW CEILING IN 409 LAUNDRY.
3. MOUNT ON 18" HIGH EQUIPMENT RAILS.
4. PROVIDE PIPE PORTAL.
5. SUPPORT FROM WALL.
6. MOUNT ON ROOF CURB.
7. 6x6 EA WITH BRIDSCREEN AND BDD. MOUNT HIGH IN DOG HOUSE.
8. TERMINATE WITH HOODED INTAKE WALL CAP WITH BIRDSCREEN.
9. TERMINATE 3/4" D WITH 90 DEGREE ELBOWN DOWN APPROXIMATELY 1 FT ABOVE ROOF. DISCHARGE ONTO CONCRETE SPLASH BLOCK.
10. FLOOR MOUNTED. PROVIDE DRAIN PAN BENEATH UNIT.



1 M-104 FOURTH FLOOR - MECHANICAL - NEW WORK PLAN
1/4" = 1'-0"

1/4" = 1' - 0" 0 2 4 8 12 FT

Xref .\References\Henry Adams 30x42 Titleblock.dwg

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24

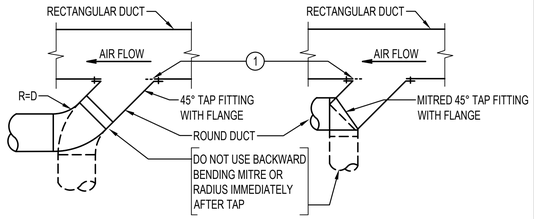
DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

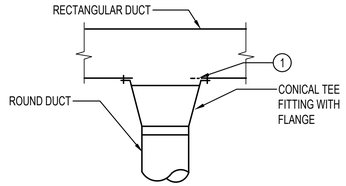
SHEET TITLE

FOURTH FLOOR - MECHANICAL - NEW WORK

SHEET NO.

M-104





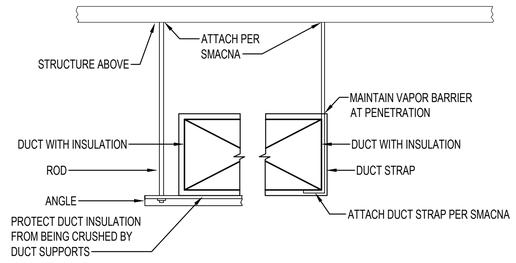
NOTE:

DO NOT USE 45° TAP FITTINGS EXCEPT WHERE TIGHT CONDITION PREVENTS USE OF OTHER FITTINGS INDICATED.

SPECIAL NOTE:

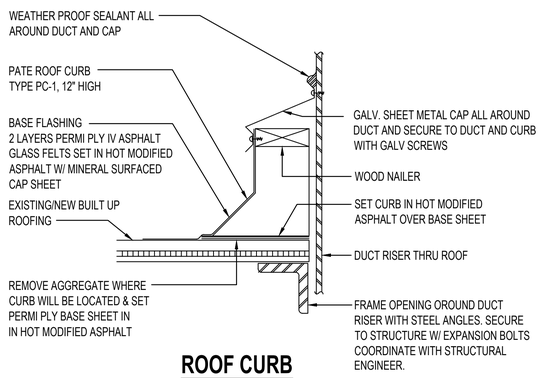
(1) CUT HOLE IN RECTANGULAR DUCT LARGE ENOUGH SO THAT ROUGH METAL EDGE DOES NOT PROJECT INTO AIR STREAM.

TAPOFF FROM RECTANGULAR DUCT TO ROUND DUCT

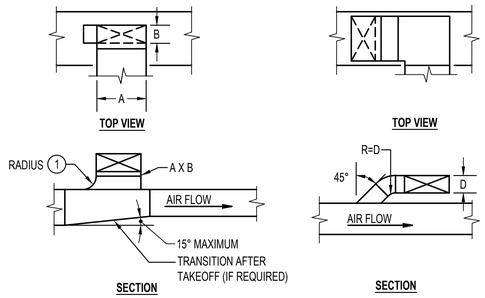


NOTE:
1. REFER TO SMACNA FOR ADDITIONAL HANGERS AND SUPPORTS

DUCT INSULATION SUPPORT DETAIL



ROOF CURB



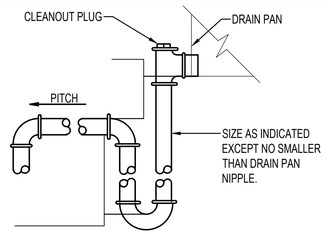
NOTES:

1. BOTTOM TAKEOFFS SIMILAR.
2. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

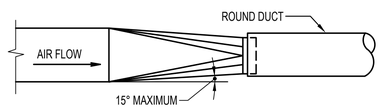
SPECIAL NOTE:

(1) 45° TAP PERMITTED FOR DUCTWORK RATED 2" W.G. OR LESS.

TAKEOFFS FROM TOP OF RECTANGULAR DUCTS



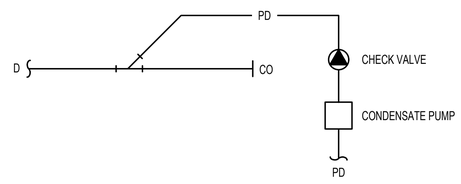
FCU CONDENSATE DRAIN TRAP



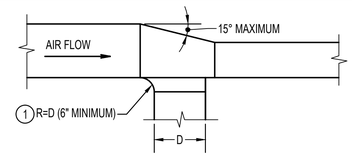
NOTE:

1. FOR AIR FLOW IN OPPOSITE DIRECTION, TRANSITION COLLAR SHALL OVERLAP EXTERIOR OF ROUND DUCT.

RECTANGULAR TO ROUND DUCT TRANSITION



CONDENSATE PUMP WITH CHECK VALVE



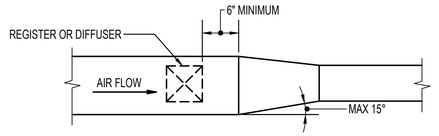
NOTES:

1. SEE SMACNA MANUAL FOR METHODS OF SECURING TAP-OFF CONNECTION TO MAIN.
2. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

SPECIAL NOTES:

(1) 45° TAP PERMITTED FOR DUCTWORK RATED 2" W.G. OR LESS.

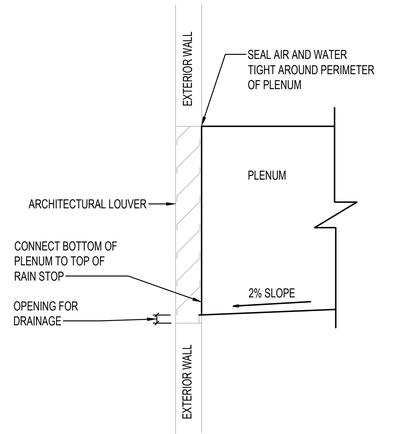
TAPOFF AND TRANSITION FROM SIDE OF DUCT



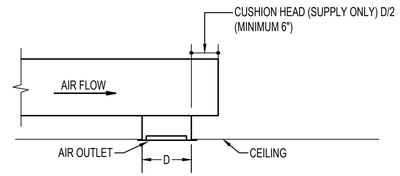
NOTE:

1. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

DIFFUSER OR REGISTER TAPOFF AND TRANSITION



PLENUM CONNECTION TO LOUVER



NOTE:

1. AIR FLOW IS REVERSED FOR RETURN AND EXHAUST.

OUTLET LOCATED AT END OF RUN

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ

PROJ. NO.: 22-N005

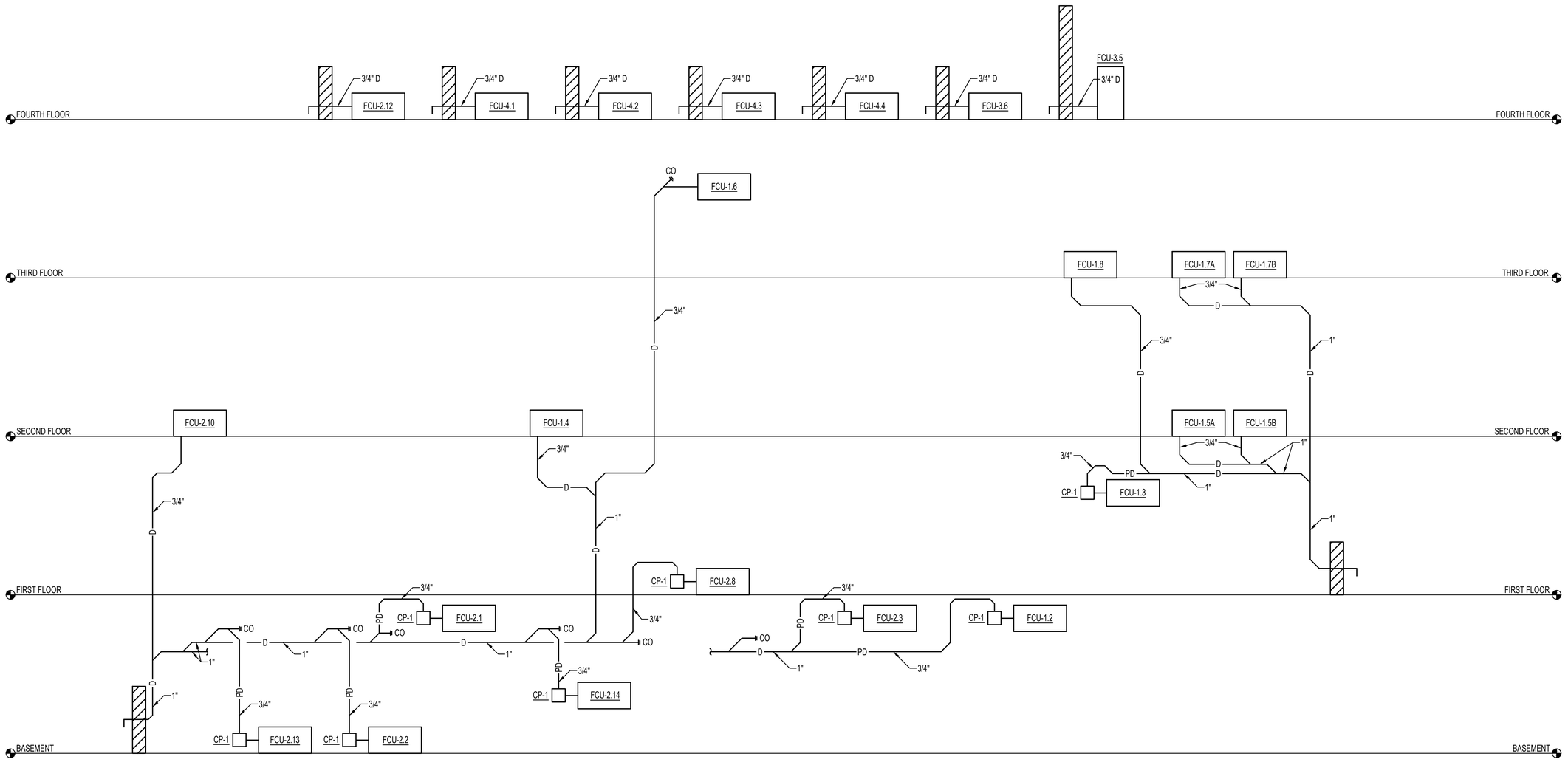
APPROVED BY: CEL

SHEET TITLE

MECHANICAL DETAILS

SHEET NO.

M-501



1 M-601 CONDENSATE RISER DIAGRAM 1
NTS

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

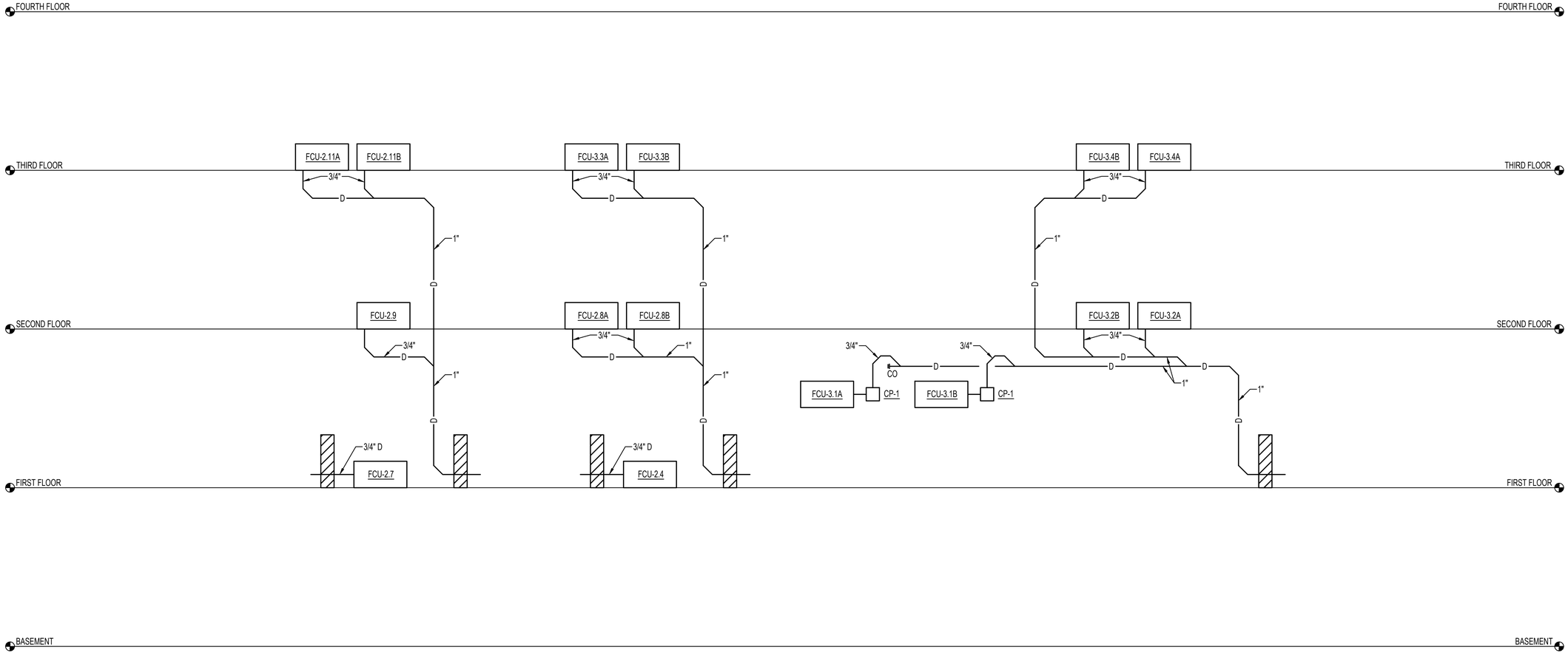
SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/05/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

SHEET TITLE
CONDENSATE RISER DIAGRAMS

SHEET NO.
M-601



1 M-602 CONDENSATE RISER DIAGRAM 2
NTS

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

SHEET TITLE

CONDENSATE RISER DIAGRAMS

SHEET NO.

M-602



ELECTRIC UNIT HEATER

UH-1, 2

1. WHEN SPACE TEMPERATURE AS SENSED BY TEMPERATURE SENSOR T-1 IS AT OR BELOW 70 DEGREES F (ADJUSTABLE), UNIT HEATER'S FAN SHALL OPERATE AND ELECTRIC COIL SHALL BE ENERGIZED.

2. WHEN SPACE TEMPERATURE RISES ABOVE 70 DEGREES F (ADJUSTABLE), UNIT HEATER'S ELECTRIC COIL IS DE-ENERGIZED AND FAN SHALL STOP AFTER 2 MINUTES (ADJUSTABLE).

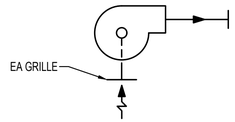
UH-3, 4

1. WHEN SPACE TEMPERATURE AS SENSED BY TEMPERATURE SENSOR T-1 IS AT OR BELOW 60 DEGREES F (ADJUSTABLE), UNIT HEATER'S FAN SHALL OPERATE AND ELECTRIC COIL SHALL BE ENERGIZED.

2. WHEN SPACE TEMPERATURE RISES ABOVE 60 DEGREES F (ADJUSTABLE), UNIT HEATER'S ELECTRIC COIL IS DE-ENERGIZED AND FAN SHALL STOP AFTER 2 MINUTES (ADJUSTABLE).

S-1 SWITCH

OS OCCUPANCY SENSOR



EXHAUST FAN (EF-1, 2, 3, 4)

1. FAN IS OPERATED MANUALLY BY S-1 OR AUTOMATICALLY BY OCCUPANCY SENSOR.

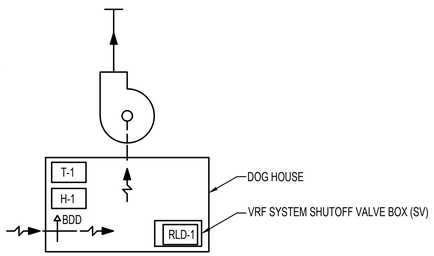
2. OCCUPANCY SENSOR SHALL STOP FAN 10 MINUTES (ADJUSTABLE) AFTER NO OCCUPANCY IS SENSED.

3. SEE PLANS FOR SWITCH AND SENSOR LOCATIONS.

T-1 TEMPERATURE SENSOR

H-1 HUMIDITY SENSOR

RLD-1 REFRIGERANT LEAK DETECTOR



EXHAUST FAN (EF-5, 6)

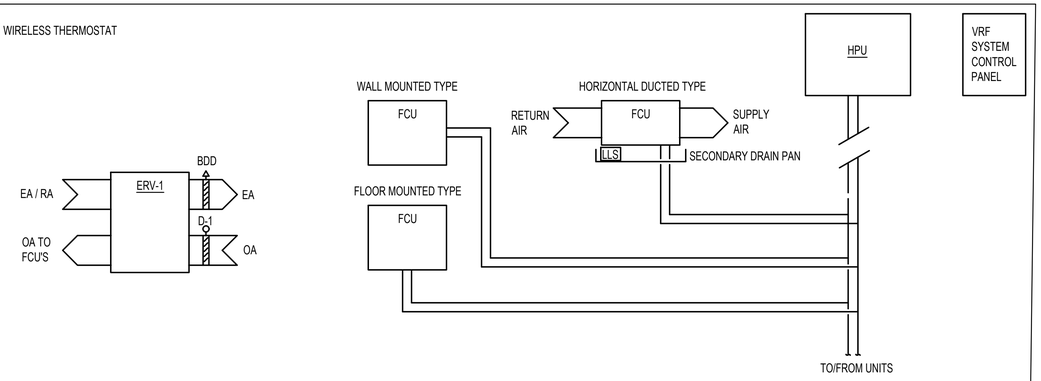
1. FAN IS OPERATED AUTOMATICALLY BY ANY OF TEMPERATURE SENSOR T-1, HUMIDITY SENSOR H-1, OR REFRIGERANT LEAK DETECTOR RLD-1. FAN SHALL OPERATE CONTINUOUSLY WHILE ANY OF THE THREE CONDITIONS BELOW ARE UNSATISFIED. FAN SHALL STOP WHEN ALL THREE CONDITIONS BELOW ARE SATISFIED.

2. TEMPERATURE CONDITION:
   - 2.1. TEMPERATURE CONDITION SHALL BE UNSATISFIED WHEN TEMPERATURE AT T-1 RISES TO 80 DEGREES F.
   - 2.2. TEMPERATURE CONDITION SHALL BE SATISFIED WHEN TEMPERATURE AT T-1 FALLS TO 75 DEGREES F.

2. HUMIDITY CONDITION:
   - 2.1. HUMIDITY CONDITION SHALL BE UNSATISFIED WHEN RELATIVE HUMIDITY AT H-1 RISES TO 80% RH.
   - 2.2. HUMIDITY CONDITION SHALL BE SATISFIED WHEN RELATIVE HUMIDITY AT H-1 FALLS TO 75% RH.

3. REFRIGERANT CONDITION:
   - 3.1. REFRIGERANT CONDITION SHALL BE UNSATISFIED WHEN REFRIGERANT LEAK DETECTOR RLD-1 IN ASSOCIATED SHUTOFF VALVE BOX ACTIVATES.
   - 2.2. REFRIGERANT CONDITION SHALL BE SATISFIED WHEN RLD-1 DEACTIVATES.

T-1 WIRELESS THERMOSTAT



VARIABLE REFRIGERANT FLOW - HEAT PUMP SYSTEM - CONTROL DIAGRAM

GENERAL:

1. THE VARIABLE REFRIGERANT SYSTEM AND ERV SHALL BE STARTED AND STOPPED THROUGH A SYSTEM CONTROL PANEL PROVIDED BY THE VRF SYSTEM MANUFACTURER.
2. ALL SAFETIES AND ASSOCIATED CONTROL INTERLOCKS SHALL REMAIN ACTIVE IN ALL HOA SWITCH POSITIONS.
3. ALL TEMPERATURE SENSORS SHALL PERMIT SYSTEM OVERRIDE DURING THE UNOCCUPIED MODE AND SHALL ALLOW SYSTEM TO OPERATE FOR ONE HOUR (ADJUSTABLE 0-4 HOURS) IN THE OCCUPIED MODE.
4. IF A HIGH WATER LEVEL IS SENSED BY THE LIQUID LEVEL SENSOR (LLS) INSTALLED IN THE FCU SECONDARY DRAIN PAN, THE UNIT SHALL SHUTDOWN.
5. IF A CONDENSATE PUMP CP-1 SENSES FAILURE THROUGH ITS SECURITY SWITCH, FCU SHALL SHUTDOWN.
6. ERV FROST CONTROL IS BY MANUFACTURER'S SUPPLIED CONTROLS.
7. EQUIPMENT SHALL HAVE A FACTORY INSTALLED REFRIGERANT DETECTION SYSTEM IN ACCORDANCE WITH ASHRAE 15-2022.

STARTING AND STOPPING:

1. THE VENTILATION UNIT, ERV-1 SHALL BE STARTED BY VRF MAIN CONTROLLER. ERV SHALL OPERATE BETWEEN 7AM AND 6PM (ADJUSTABLE).
2. WHEN THE SYSTEM IS ENERGIZED TO OPERATE, DAMPER D-1 OPENS. FAN COIL UNITS START, ERV STARTS AND IS ENERGIZED. SYSTEM OPERATES THROUGH MANUFACTURER'S SUPPLIED SYSTEM CONTROL PANEL.
3. WHEN SYSTEM IS DE-ENERGIZED, FCU(S) STOP, ERV STOPS, D-1 CLOSES AFTER 2 MINUTES DELAY (ADJUSTABLE 0-5 MINUTES), AND HEAT PUMP UNITS STOP.

OCCUPIED MODE:

1. ERV IS ON, FCU'S ARE ON, D-1 IS OPEN, AND HPU IS ENERGIZED.
2. SPACE TEMPERATURE SENSOR, T-1 CONTROLS IT'S RESPECTIVE FAN COIL UNIT THROUGH MANUFACTURER'S SUPPLIED CONTROLS TO MAINTAIN SPACE TEMPERATURE OF 75 DEGREES F IN COOLING SEASON AND 70 DEGREES F IN HEATING SEASON.
3. HEAT PUMP UNIT REJECTS/ABSORBS EXCESS HEAT THROUGH THE MANUFACTURER'S SYSTEM CONTROL PANEL.

UNOCCUPIED MODE:

1. FCU'S ARE OFF, ERV IS OFF, D-1 IS CLOSED, AND HPU IS DE-ENERGIZED.
2. WINTER NIGHT SETBACK TEMPERATURE OF 65 DEGREES F (ADJUSTABLE) SHALL BE MAINTAINED BY CYCLING THE FAN COIL UNITS AND ASSOCIATED HPU INITIATED BY THE SPACE TEMPERATURE SENSOR WITH THE GREATEST NEED, UNTIL ALL SPACE TEMPERATURE SENSORS ARE SATISFIED. ERV IS OFF AND D-1 IS CLOSED.
3. SUMMER NIGHT SETBACK TEMPERATURE OF 85 DEGREES F (ADJUSTABLE) SHALL BE MAINTAINED BY CYCLING THE FAN COIL UNITS AND ASSOCIATED HPU INITIATED BY THE SPACE TEMPERATURE SENSOR WITH THE GREATEST NEED, UNTIL ALL SPACE TEMPERATURE SENSORS ARE SATISFIED. ERV IS OFF AND D-1 IS CLOSED.

VARIABLE REFRIGERANT FLOW - HEAT PUMP SYSTEM - SEQUENCE OF OPERATION

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ

PROJ. NO.: 22-N005

APPROVED BY: CEL

SHEET TITLE

MECHANICAL CONTROLS

SHEET NO.

M-701

GENERAL NOTES: (APPLICABLE TO ALL MECHANICAL SCHEDULES)

1. UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.
2. UNIT SYMBOLS ARE INDICATED WHERE ALL UNITS ARE NOT LISTED AND NUMBERED INDIVIDUALLY.
3. UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
4. TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
5. AIR PRESSURE VALUES ARE LISTED IN INCHES OF WATER COLUMN.
6. AIR VELOCITY VALUES ARE LISTED IN FEET PER MINUTE.
7. DUCT AND PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS. SINGLE PIPE SIZE IS TYPICAL FOR SUPPLY AND RETURN.

UNIT HEATERS - ELECTRIC

UNIT NO	LOCATION	APPROX UNIT SIZE			CAPACITY MBH	EAT	ELEC KW	VOLTAGE	PHASE	BASIS OF DESIGN	NOTES
		W	H	D							
UH-1	306A BATH	15	20	6	5.0	65	1.5	208	1	TRANE MODEL UHAA	
UH-2	308A BATH	15	20	6	5.0	65	1.5	208	1	TRANE MODEL UHAA	
UH-3	ROOF	15	20	6	6.5	55	2.0	208	1	TRANE MODEL UHWA	
UH-4	ROOF	15	20	6	6.5	55	2.0	208	1	TRANE MODEL UHWA	

VARIABLE REFRIGERANT HEAT PUMP UNITS (NOTE 1, 2, 3)

UNIT NO	LOCATION	SERVICE	CAPACITY				ELECTRICAL				MIN EER	MIN COP 17	NOTES
			COOLING		HEATING								
			TOTAL COOLING (MBH)	CONDENSER EAT	TOTAL HEATING (MBH)	CONDENSER EAT	MCA	MOCP	VOLTAGE	PHASE			
HPU-1	ROOF	VRF SYSTEM 1	125.0	95	101.0	0	57.4	70	208	3	10.6	2.25	
HPU-2	ROOF	VRF SYSTEM 2	99.0	95	96.0	0	57.4	70	208	3	10.6	2.25	

NOTES FOR VARIABLE REFRIGERANT HEAT PUMP UNITS:
1. A2L REFRIGERANT. R-32 OR R-454B.
2. REFRIGERANT PIPE SIZES AND ROUTING, REFRIGERANT CHARGE, ETC., SHALL BE PROVIDED BY THE MANUFACTURER.
3. CAPACITY INDICATED IS MINIMUM REQUIRED CAPACITY AFTER CORRECTIONS FOR DESIGN CONDITIONS, REFRIGERANT PIPE SIZES AND LENGTHS, AND OTHER CORRECTIONS HAVE BEEN TAKEN INTO ACCOUNT.

VARIABLE REFRIGERANT SHUTOFF VALVE BOXES

UNIT NO	LOCATION	SERVICE	NO. OF PORTS	ELECTRICAL		NOTES
				V	PH	
SV-1	ROOF	HPU-1	6	208	1	
SV-2	ROOF	HPU-2	6	208	1	

NOTES FOR VARIABLE REFRIGERANT SHUTOFF VALVE BOXES:
1. CONTRACTOR TO NOTIFY ENGINEER OF EXACT LOCATION, PLACEMENT, AND MOUNTING HEIGH OF SHUTOFF VALVE BOX FOR FINAL ASHRAE 15-2022 COMPLIANCE CALCULATIONS.

FANS

UNIT NO	TYPE	LOCATION	SERVICE	CFM	CLASS	DRIVE	ESP	HP (WATTS)	RPM	NOTES
EF-1	L	106A RR	RESTROOM EXHAUST	75	I	DIRECT	0.68	(46)	900	
EF-2	L	107A STOR	RESTROOM EXHAUST	75	I	DIRECT	0.68	(46)	900	
EF-3	L	306A BATH	RESTROOM EXHAUST	75	I	DIRECT	0.46	(16)	775	
EF-4	L	308A BATH	RESTROOM EXHAUST	75	I	DIRECT	0.46	(16)	775	
EF-5	N	ROOF	DOGHOUSE VENTILATION	125	I	BELT	0.30	1/6	1,800	
EF-6	N	ROOF	DOGHOUSE VENTILATION	125	I	BELT	0.30	1/6	1,800	

CONDENSATE PUMPS

UNIT SYMBOL	TYPE	LOCATION	SERVICE	FLUID	GPM	FPD	HP	NOTES
CP-1	P	FCU'S	CONDENSATE	WATER	0.5	10	1/30	

ENERGY RECOVERY VENITLATOR

UNIT NO	LOCATION	OA CFM	EA CFM	FAN				WHEEL PERFORMANCE													NOTES
								SUMMER								WINTER					
								SUPPLY AIR				EXHAUST AIR				SUPPLY AIR				EXHAUST AIR				
				OA ESP	EA ESP	OA WATTS	EA WATTS	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	
ERV-1	005 BOILER ROOM	590	390	0.75	0.75	280	280	95.0	78.0	83.5	72.1	75.0	62.5	86.5	69.7	0.0	-1.0	49.3	41.6	70.0	59.0	41.9	41.1	

VARIABLE REFRIGERANT FAN COIL UNITS (NOTE 1, 2)

UNIT NO	SERVICE	ASSOCIATED HPU	UNIT TYPE	MAXIMUM RELEASEABLE REFRIGERANT CHARGE (lbs)	SUPPLY FAN		OA CFM	COOLING				HEATING		ELECTRICAL			NOTES
					CFM	ESP (IN WC)		TOTAL MBH	SENS MBH	EAT DB	EAT WB	TOTAL MBH	EAT DB	MCA	MOCP	VOLTAGE/PHASE	
FCU-1.2	111 KITCHEN	HPU-1	HORIZONTAL DUCTED	113.7	590	0.5	140	14.0	11.9	76.8	62.5	8.5	65.5	1.9	15	208/1	NOTE 3, 4
FCU-1.3	109 HALLWAY / 110 STOREROOM / 203 SOLARIUM	HPU-1	HORIZONTAL DUCTED	30.9	625	0.5	-	12.1	12.1	75.0	62.5	8.9	70.0	1.9	15	208/1	
FCU-1.4	206 PANTRY	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	40.4	270	-	-	2.5	2.1	75.0	62.5	1.9	70.0	0.4	15	208/1	
FCU-1.5A	204 DINING ROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	59.9	440	-	-	11.6	8.55	75.0	62.5	6.3	70.0	0.6	15	208/1	
FCU-1.5B	204 DINING ROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	59.9	440	-	-	11.7	8.6	75.0	62.5	6.3	70.0	0.6	15	208/1	
FCU-1.6	305 BATH	HPU-1	CASSETTE	10.1	320		-	1.4	1.4	75.0	62.5	1.5	70.0	0.4	15	208/1	
FCU-1.7A	304 MRS BEDROOM / 304B CLOSET / 304A BATHROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	47.1	270	-	-	5.6	5.55	75.0	62.5	7.2	70.0	0.4	15	208/1	
FCU-1.7B	304 MRS BEDROOM / 304B CLOSET / 304A BATHROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	47.1	270	-	-	5.6	5.6	75.0	62.5	7.2	70.0	0.4	15	208/1	
FCU-1.8	301 NURSES ROOM	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	11.3	270	-	-	1.9	1.9	75.0	62.5	2.4	70.0	0.4	15	208/1	
FCU-2.1	102 ENTRANCE HALL / 106A RR / 107A STOR	HPU-2	HORIZONTAL DUCTED	49.7	395	0.5	75	6.4	4.8	77.1	62.5	4.5	68.4	1.1	15	208/1	NOTE 3
FCU-2.2	003 CORRIDOR	HPU-2	FLOOR MOUNTED CONSOLE - EXPOSED	49.6	270	-	-	0.4	0.4	75.0	62.5	0.0	70.0	0.4	15	208/1	
FCU-2.3	103 STAIR HALL	HPU-2	HORIZONTAL DUCTED	113.7	270	0.5	145	5.7	3.6	79.5	62.5	0.0	59.1	1.1	15	208/1	NOTE 3
FCU-2.4	106 OFFICE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	24.3	270	-	-	4.1	4.1	75.0	62.5	6.9	70.0	0.4	15	208/1	
FCU-2.7	107 SHOP	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	16.5	270	-	-	5.6	5	75.0	62.5	5.6	70.0	0.4	15	208/1	
FCU-2.8	ST-1 STAIR	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	22.3	270	-	-	6.6	6.6	75.0	62.5	10.2	70.0	0.4	15	208/1	
FCU-2.8A	205 DRAWING ROOM	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	67	270	-	-	10.9	7.75	75.0	62.5	6.6	70.0	0.4	15	208/1	
FCU-2.8B	205 DRAWING ROOM	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	67	270	-	-	10.9	7.8	75.0	62.5	6.6	70.0	0.4	15	208/1	
FCU-2.9	208 SERVING KITCHEN	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	40.4	440	-	-	8.4	7.6	75.0	62.5	8.0	70.0	0.6	15	208/1	
FCU-2.10	201 STAIR HALL	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	40.9	270	-	-	1.5	1.5	75.0	62.5	0.0	70.0	0.4	15	208/1	
FCU-2.11A	306 OFFICE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	25.4	270	-	-	3.7	3.55	75.0	62.5	4.8	70.0	0.4	15	208/1	
FCU-2.11B	306 OFFICE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	25.4	270	-	-	3.7	3.55	75.0	62.5	4.8	70.0	0.4	15	208/1	
FCU-2.12	401 HALL	HPU-2	FLOOR MOUNTED CONSOLE - EXPOSED	19.9	270	-	-	3.7	3.7	75.0	62.5	4.5	70.0	0.4	15	208/1	
FCU-2.13	005 BOILER ROOM	HPU-2	FLOOR MOUNTED CONSOLE - EXPOSED	49.7	270	-	-	4.1	4.1	75.0	62.5	7.1	70.0	0.4	15	208/1	
FCU-2.14	006 COAL BIN	HPU-2	WALL MOUNTED	49.7	285	-	-	1.4	1.4	75.0	62.5	2.4	70.0	0.21	15	208/1	
FCU-3.1A	108 EXHIBIT GALLERY	HPU-1	CASSETTE	63.6	320	-	115	9.6	7.5	77.2	62.5	4.6	64.7	0.4	15	208/1	NOTE 3
FCU-3.1B	108 EXHIBIT GALLERY	HPU-1	CASSETTE	63.6	320	-	115	9.6	7.5	77.2	62.5	4.6	64.7	0.4	15	208/1	NOTE 3
FCU-3.2A	202 LIBRARY	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	60.5	270	-	-	4.9	4.94	75.0	62.5	5.9	70.0	0.4	15	208/1	
FCU-3.2B	202 LIBRARY	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	60.5	270	-	-	4.9	4.94	75.0	62.5	5.9	70.0	0.4	15	208/1	
FCU-3.3A	308 CONFERENCE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	35.6	270	-	-	5.8	5.35	75.0	62.5	5.6	70.0	0.4	15	208/1	
FCU-3.3B	308 CONFERENCE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	35.6	270	-	-	5.8	5.35	75.0	62.5	5.6	70.0	0.4	15	208/1	
FCU-3.4A	302 PRESIDENT'S ROOM / 302A BATHROOM / 303 CLOSET	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	48.1	270	-	-	5.8	5.8	75.0	62.5	6.7	70.0	0.4	15	208/1	
FCU-3.4B	302 PRESIDENT'S ROOM / 302A BATHROOM / 303 CLOSET	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	48.1	270	-	-	5.8	5.8	75.0	62.5	6.7	70.0	0.4	15	208/1	
FCU-3.5	410 CLOSET	HPU-2	VERTICAL	37	670	0.5	50	10.5	10.5	75.9	62.5	12.8	67.9	4.0	15	208/1	NOTE 3
FCU-3.6	408 STORAGE	HPU-2	FLOOR MOUNTED CONSOLE - EXPOSED	18.7	270	-	-	6.2	6.2	75.0	62.5	7.5	70.0	0.4	15	208/1	
FCU-4.1	404 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	2.5	2.3	75.0	62.5	2.0	70.0	0.4	15	208/1	
FCU-4.2	405 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	3.0	2.8	75.0	62.5	2.1	70.0	0.4	15	208/1	
FCU-4.3	406 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	3.0	2.8	75.0	62.5	2.1	70.0	0.4	15	208/1	
FCU-4.4	407 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	3.2	3.0	75.0	62.5	3.2	70.0	0.4	15	208/1	

NOTES FOR VARIABLE REFRIGERANT FAN COIL UNITS:
1. UNITS SHALL BE INTERLOCKED/CONNECTED TO ASSOCIATED OUTDOOR UNIT.
2. A2L REFRIGERANT. R-32 OR R-454B.
3. OUTDOOR AIR IS PROVIDED TO SPACE THROUGH DUCTED SUPPLY TO RETURN PLENUM.
4. TEMPERATURE CONTROL VIA VRF CENTRAL CONTROLLER AND FCU RETURN AIR THERMISTOR.
5. TEMPERATURE CONTROL VIA WIRED THERMOSTAT.
6. TEMPERATURE CONTROL VIA WIRELESS THERMOSTAT.

National Trust for Historic Preservation

PROJECT
President Woodrow Wilson House
Mechanical Systems Improvements
2340 S Street NW
Washington, DC 20008

Owner
The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer
Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: GPZ
PROJ. NO.: 22-N005
APPROVED BY: CEL

SHEET TITLE
MECHANICAL SCHEDULES

SHEET NO.
M-801

GENERAL ELECTRICAL NOTES

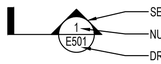
1. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, DELEGATED DESIGN AND INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
2. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION.
3. MATERIAL AND EQUIPMENT SHALL BE LISTED AND LABELED BY NATIONALLY RECOGNIZED TESTING LABORATORIES FOR INTENDED SERVICE.
4. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
5. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET SHALL BE COMPLETE, CURRENT, AND AVAILABLE UPON REQUEST.
6. SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR EQUIPMENT AND MATERIALS USED ON PROJECT. OBTAIN APPROVAL BY ENGINEER PRIOR TO PURCHASE OF EQUIPMENT AND MATERIALS.
7. REPAIR OR REPLACE DAMAGE TO FACILITIES AND EQUIPMENT AT NO ADDITIONAL EXPENSE TO OWNER.
8. PATCH AND REPAIR DISTURBED AREAS TO MATCH ADJACENT SURFACES AND FINISHES.
9. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED ON RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS, AND VICE VERSA.
10. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH OTHER TRADES. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW REQUIRED OFFSETS AND DETAILS. OBTAIN DRAWINGS AND SPECIFICATIONS FROM OTHER TRADES AND COORDINATE WITH OTHER TRADES.
11. COORDINATE ELECTRICAL INSTALLATION WITH FIELD CONDITIONS. LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY REQUIRE ADJUSTMENT IN FIELD.
12. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
13. PERMANENTLY LABEL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION.
14. PROVIDE EACH CIRCUIT WITH A DEDICATED NEUTRAL UNLESS NOTED OTHERWISE.
15. CONDUIT HOMERUNS SHOWN ON DRAWINGS WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. DO NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY UNLESS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
16. PROVIDE FIRESTOPPING FOR ELECTRICAL PENETRATIONS IN FIRE RATED ASSEMBLIES.
17. INSTALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. INSTALL RACEWAYS TIGHT TO STRUCTURAL CEILING AND AS HIGH AS POSSIBLE WITHIN CEILING SPACES TO MAINTAIN MAXIMUM AMOUNT OF CLEAR SPACE BELOW RACEWAY.
18. INSTALL RACEWAYS CONCEALED IN WALLS, UNDER FLOORS, ABOVE CEILINGS, ETC., EXCEPT AS FOLLOWS:
    A. WHERE SUSPENDED CEILINGS ARE NOT PROVIDED.
    B. IN VERTICAL SHAFTS, ELECTRICAL CLOSETS, ETC., MECHANICAL AND ELECTRICAL EQUIPMENT SPACES WHERE CONCEALMENT IS NOT PRACTICAL.
    C. AT SURFACE-MOUNT PANELBOARDS IN OTHERWISE FINISHED SPACES LIMITED TO VERTICAL RUNS ABOVE AND BELOW PANEL.
    D. WHERE REQUIRED FOR EQUIPMENT CONNECTIONS.
    E. WHERE SPECIFICALLY INDICATED ON DRAWINGS.
24. OWNER-FURNISHED EQUIPMENT: VERIFY AND COORDINATE ELECTRICAL ROUGH-IN REQUIREMENTS FOR OWNER-FURNISHED EQUIPMENT WITH OWNER PRIOR TO PULLING CONDUCTORS AND MAKING FINAL CONNECTIONS. LACK OF COORDINATION SHALL NOT JUSTIFY CHANGE ORDERS.
25. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO OVERCURRENT PROTECTION, CONDUIT, AND WIRING, COORDINATE AND MAKE CHANGE TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES.
26. PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES. COORDINATE EXACT LOCATION IN FIELD. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURER'S RECOMMENDED MAINTENANCE CLEARANCES.

GENERAL ELECTRICAL DEMOLITION/RENOVATION NOTES

1. THE FACILITY WILL REMAIN OCCUPIED DURING RENOVATIONS.
2. MINIMIZE OUTAGES. COORDINATE OUTAGES WITH OWNER. PERFORM WORK REQUIRING SUSTAINED EQUIPMENT OUTAGE CONTINUOUSLY AROUND THE CLOCK UNTIL WORK IS COMPLETE, UNLESS NOTED OTHERWISE.
3. PRIOR TO DEMOLITION, FIELD VERIFY CONDUITS, CONDUCTORS, AND CABLES THAT PASS THROUGH AND SERVE AREAS OUTSIDE THE SCOPE OF WORK. MAINTAIN CONTINUITY OF SYSTEMS. PROTECT OR RELOCATE SYSTEMS TO PREVENT DAMAGE. RESTORE SYSTEMS TO NORMAL OPERATION. COORDINATE SYSTEM OUTAGES WITH OWNER.
4. IDENTIFY NONFUNCTIONING EQUIPMENT AND DEVICES TO REMAIN AFTER DEMOLITION. NOTIFY OWNER IN WRITING PRIOR TO DEMOLITION. UPON COMPLETION OF WORK, ENSURE THAT EXISTING EQUIPMENT AND DEVICES OPERATE PROPERLY.
5. IN AREAS REQUIRING THE PERFORMANCE OF WORK OF OTHER TRADES, CAREFULLY DISCONNECT, MAKE SAFE, REMOVE AND STORE ELECTRICAL ITEMS IN PATH OF WORK. REINSTALL AND RECONNECT SAME AFTER COMPLETION OF OTHER TRADE'S WORK. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.
6. AFTER DEMOLITION VERIFY AND SUPPORT REMAINING CABLES, WIRES, AND CONDUIT IN ACCORDANCE WITH THE APPLICABLE VERSION OF THE NEC. DISCONNECT, MAKE SAFE AND REMOVE ABANDONED AND TEMPORARY WIRE WITHIN SPACE.
7. EXISTING CONDITIONS REFLECT GENERAL OBSERVATIONS AND ARE NOT INTENDED TO INDICATE DETAILS OR DIMENSIONS. NO ATTEMPT HAS BEEN MADE TO SHOW ALL ELECTRICAL EQUIPMENT. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT IN WRITING IF CONDITIONS ARE DISCOVERED THAT PREVENT EXECUTION OF WORK.
8. PROTECT REMAINING ELECTRICAL SYSTEMS AND COMPONENTS FROM DAMAGE. REMOVE PROTECTIVE MATERIALS UPON COMPLETION OF WORK.
9. IN AREAS NOTED TO REMOVE ELECTRICAL WORK, REMOVE CONDUITS AND ASSOCIATED SUPPORTS BACK TO POINT OF CONCEALMENT AND REMOVE WIRING BACK TO REMAINING ACTIVE DEVICES OR SOURCE.
10. PROVIDE OWNER WITH INVENTORY OF MAJOR ELECTRICAL ITEMS TO BE REMOVED. OWNER WILL SELECT ITEMS TO BE SALVAGED. TURN SALVAGED ITEMS OVER TO OWNER. ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE DEMOLISHED ITEMS FROM SITE.
11. UPDATE PANELBOARD DIRECTORIES TO INCLUDE MODIFICATIONS BY THIS PROJECT. TRACE CIRCUITS TO IDENTIFY UNLABELED LOADS.
12. REPAIR DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
13. PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED WHEN A REPLACEMENT DEVICE IS NOT INDICATED.
14. MAINTAIN CONTINUITY OF CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION IN PANELS INDICATED TO BE DEMOLISHED OR REPLACED. EXTEND EXISTING CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION TO NEW PANELS. CIRCUIT BREAKER, CONDUIT, AND WIRE SHALL MATCH EXISTING TYPES AND SIZES.
15. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND CHALLENGES THAT WILL AFFECT DEMOLITION AND CONSTRUCTION. REPORT DISCREPANCIES TO OWNER DURING BID PROCESS. ADDITIONAL COMPENSATION WILL NOT BE GRANTED FOR WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS.
16. WHERE CIRCUITS ARE REMOVED BACK TO PANELS, ASSOCIATED CIRCUIT BREAKERS WILL BE UTILIZED FOR NEW CIRCUITING. WHERE CIRCUITS ARE REMOVED BACK TO PANELS, TURN OFF ASSOCIATED CIRCUIT BREAKERS AND RE-LABEL AS "SPARE".

ELECTRICAL CONVENTIONS

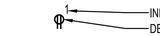
REFERENCE



SECTION DESIGNATION
NUMBER DENOTES SECTION IDENTIFICATION
DRAWING NUMBER WHERE DETAIL IS LOCATED

(1) SPECIAL NOTE (APPLIES WHERE INDICATED ON THE DRAWING)

WIRING



INDICATES PANELBOARD CIRCUIT DESIGNATION
DEVICE TYPE

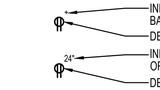
1,3,5(LP-1) BRANCH CIRCUIT HOMERUN TO PANEL "LP-1", CIRCUITS #1,3,5

CONDUIT TURNING UP

CONDUIT TURNING DOWN

GENERAL NOTE: WHERE WIRE SIZE IS INDICATED AT THE HOMERUN OR ON THE SCHEDULE TO BE LARGER THAN THE SPECIFIED MINIMUM PROVIDE THE INDICATED WIRE SIZE THROUGHOUT THE ENTIRE BRANCH CIRCUIT.

MOUNTING HEIGHTS



INDICATES DEVICE TO BE MOUNTED 8" ABOVE COUNTERTOP BACKSPLASH
DEVICE TYPE

INDICATES DEVICE MOUNTING HEIGHT ABOVE FINISHED FLOOR OR ABOVE FINISHED GRADE (AS APPROPRIATE)
DEVICE TYPE

PRESENTATION



ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAVY LINEWEIGHT INDICATES NEW WORK TO BE PROVIDED.

ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGHT LINEWEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN, UNLESS OTHERWISE INDICATED.

ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HEAVY LINEWEIGHT REPRESENTS EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED, UNLESS INDICATED TO BE REMOUNTED, RELOCATED, OR TURNED OVER TO OWNER.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	RECEPTACLE - SPECIAL NEMA CONFIGURATION AS NOTED. SHADING INDICATES CONNECTED TO EMERGENCY/STANDBY POWER CIRCUIT	18"
	JUNCTION BOX, CEILING AND WALL MOUNTED	- - / AS NOTED
	ELECTRIC MANHOLE	- -
S_M	FRACTIONAL HORSEPOWER MANUAL MOTOR SWITCH	46"
	MOTOR	- -
,	EQUIPMENT, AS NOTED	- -
CUH	UNIT HEATER, CABINET TYPE	- -
UH	UNIT HEATER, SPACE TYPE	- -
	SAFETY SWITCH	60" TO TOP
	PANELBOARD, SURFACE AND FLUSH MOUNTED	78" TO TOP
	MOLDED CASE CIRCUIT BREAKER (600V AND BELOW)	- -
	CURRENT LIMITING FUSE (600V AND BELOW)	- -
	DISCONNECT SWITCH (600V AND BELOW)	- -
KW	KILOWATT METER (KWH = KILOWATT HOURS)	- -

NOTES: (APPLICABLE TO ELECTRICAL LEGEND ONLY)

1. THE MOUNTING HEIGHTS GIVEN ON THIS SHEET IN THE ELECTRICAL LEGEND ARE GENERAL AND SHALL BE USED ONLY WHEN MOUNTING HEIGHTS CANNOT BE ESTABLISHED BY REFERENCE TO DETAILS, ELEVATIONS, AND NOTES ON THE DRAWINGS.
2. ALL MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET OR DEVICE.
3. HEIGHTS OF ALL ITEMS NOT COVERED BY THE ELECTRICAL LEGEND AND NOT SHOWN ON THE DRAWINGS SHALL BE AS DIRECTED BY THE ARCHITECT OR ENGINEER.
4. WHERE PLACING ANY ITEM AT THE HEIGHTS LISTED OR NOTED WILL CAUSE INTERFERENCE WITH THE WORK OF OTHER TRADES, OR IS NOT PHYSICALLY POSSIBLE OR DESIRABLE FOR ONE REASON OR ANOTHER, THE ITEM SHALL BE INSTALLED AT A LOCATION APPROVED BY THE ARCHITECT OR ENGINEER.

ELECTRICAL ABBREVIATIONS

A	AMPERE	FLA	FULL LOAD AMPERAGE	LRA	LOCKED ROTOR AMPS	PH	PHASE
ACCU	AIR COOLED CONDENSING UNIT	FMC	FLEXIBLE METAL CONDUIT	LTG	LIGHTING	PVC	POLYVINYL CHLORIDE
ACU	AIR CONDITIONING UNIT	FSS	FUSED SAFETY SWITCH	LTS	LIGHTS		
AF	AMPERE FRAME, AMPERE FUSE	FT	FEET	LV	LOW VOLTAGE	QTY	QUANTITY
AFCI	ARC FAULT CIRCUIT INTERRUPTER						
AFF	ABOVE FINISHED FLOOR	G	GROUND	MAX	MAXIMUM	R	RACEWAY
AFG	ABOVE FINISHED GRADE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MC	METAL CLAD, METER CENTER	REC	RECEPTACLE
AHU	AIR HANDLING UNIT			MCA	MINIMUM CIRCUIT AMPACITY	RGS	RIGID GALVANIZED STEEL
AIC	AMPERE INTERRUPTING CAPACITY	GFI	GROUND FAULT INTERRUPTER	MCB	MAIN CIRCUIT BREAKER	RLA	RATED LOAD AMPERES
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GND	GROUND	MCCB	MOLDED CASE CIRCUIT BREAKER	RM	ROOM
		GRC	GALVANIZED RIGID STEEL	MDP	MAIN DISTRIBUTION PANEL	RNC	RIGID NONMETALLIC CONDUIT
ASYM	ASYMMETRICAL	GW	GROUND WIRE	MGB	MAIN GROUND BAR	RX	REMOVE EXISTING
AT	AMPERE TRIP			MH	MANHOLE, METAL HALIDE, MOUNTING HEIGHT		
AUX	AUXILIARY	HD	HEAVY DUTY			SE	SERVICE ENTRANCE
AWG	AMERICAN WIRE GAUGE	HOA	HAND-OFF-AUTOMATIC	MIN	MINIMUM	SF	SQUARE FEET
		HP	HORSEPOWER	MLO	MAIN LUGS ONLY	SN	SOLID NEUTRAL
BOD	BASIS OF DESIGN	HPU	HEAT PUMP UNIT	MMS	MANUAL MOTOR STARTER	SPD	SURGE PROTECTION DEVICE
		HVAC	HEATING VENTILATING AIR CONDITIONING	MOCP	MAXIMUM OVERCURRENT PROTECTION	SS	SAFETY SWITCH
C	CONDUIT	HZ	HERTZ	MTD	MOUNTED	ST	SINGLE-THROW
CB	CIRCUIT BREAKER					SW	SWITCH
CKT	CIRCUIT	IBC	INTERNATIONAL BUILDING CODE	N	NEUTRAL	SWBD	SWITCHBOARD
CMS	COMBINATION MOTOR STARTER	ICCB	INSULATED CASE CIRCUIT BREAKER	NC	NORMALLY CLOSED	SYM	SYMMETRICAL
CU	COPPER			NEC	NATIONAL ELECTRICAL CODE	TA	TRIP AMPERES
CX	CONNECT TO EXISTING	IEBC	INTERNATIONAL EXISTING BUILDING CODE	NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION	TYP	TYPICAL
DOAS	DEDICATED OUTDOOR AIR SYSTEM	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	UG	UNDERGROUND
DS	DISCONNECT SWITCH	IMC	INTERMEDIATE METALLIC CONDUIT	NF	NON-FUSED	UGE	UNDERGROUND ELECTRIC
DWG	DRAWING	IN	INCH	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UH	UNIT HEATER
						UL	UNDERWRITERS LABORATORY
EBH	ELECTRIC BASEBOARD HEATER	JB	JUNCTION BOX	NFSS	NON-FUSED SAFETY SWITCH	UON	UNLESS OTHERWISE NOTED
EBU	EMERGENCY BATTERY UNIT			NM	NON-METALLIC		
ECB	ENCLOSED CIRCUIT BREAKER	K	ONE THOUSAND, KELVIN	NO	NORMALLY OPEN	V	VOLTS
EF	EXHAUST FAN	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY	NTS	NOT TO SCALE	VA	VOLT-AMPERES
EMT	ELECTRICAL METALLIC TUBING						
ENCL	ENCLOSURE	KCMIL	THOUSAND CIRCULAR MILS	OCP	OVERCURRENT PROTECTION	W	WIRE, WATTS
EQUIP	EQUIPMENT	KV	KILOVOLTS			W/	WITH
ETR	EXISTING TO REMAIN	KVA	KILOVOLT-AMPERES	P	POLE(1P, 2P, 3P)	WP	WEATHERPROOF
EX	EXISTING	KW	KILOWATTS	PEPCO	POTOMAC ELECTRIC POWER COMPANY	WR	WEATHER RESISTANT
F	FUSED, FUSIBLE, FAHRENHEIT	LC	LOAD CENTER	PF	POWER FACTOR	XFMR	TRANSFORMER
FCU	FAN COIL UNIT	LF	LINEAR FEET			Y	WYE
FDR	FEEDER						

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1 BID ISSUE	02/01/24
2 BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

ELECTRICAL COVER SHEET

SHEET NO.

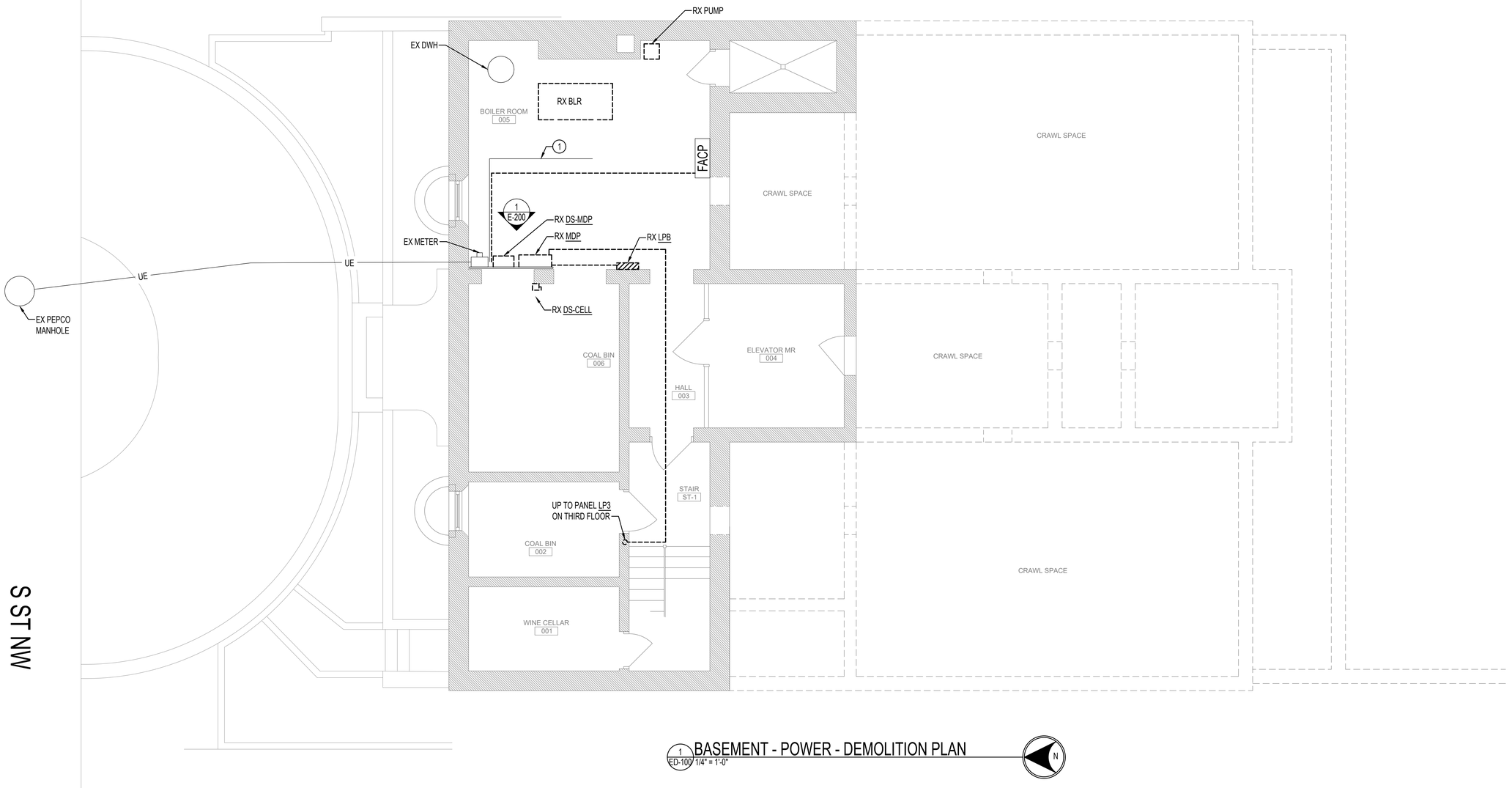
E-001

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) EXSTING EMERGENCY LIGHTING CIRCUIT TO REMAIN.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (- - -) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 ED-100 BASEMENT - POWER - DEMOLITION PLAN
1/4" = 1'-0"

N

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

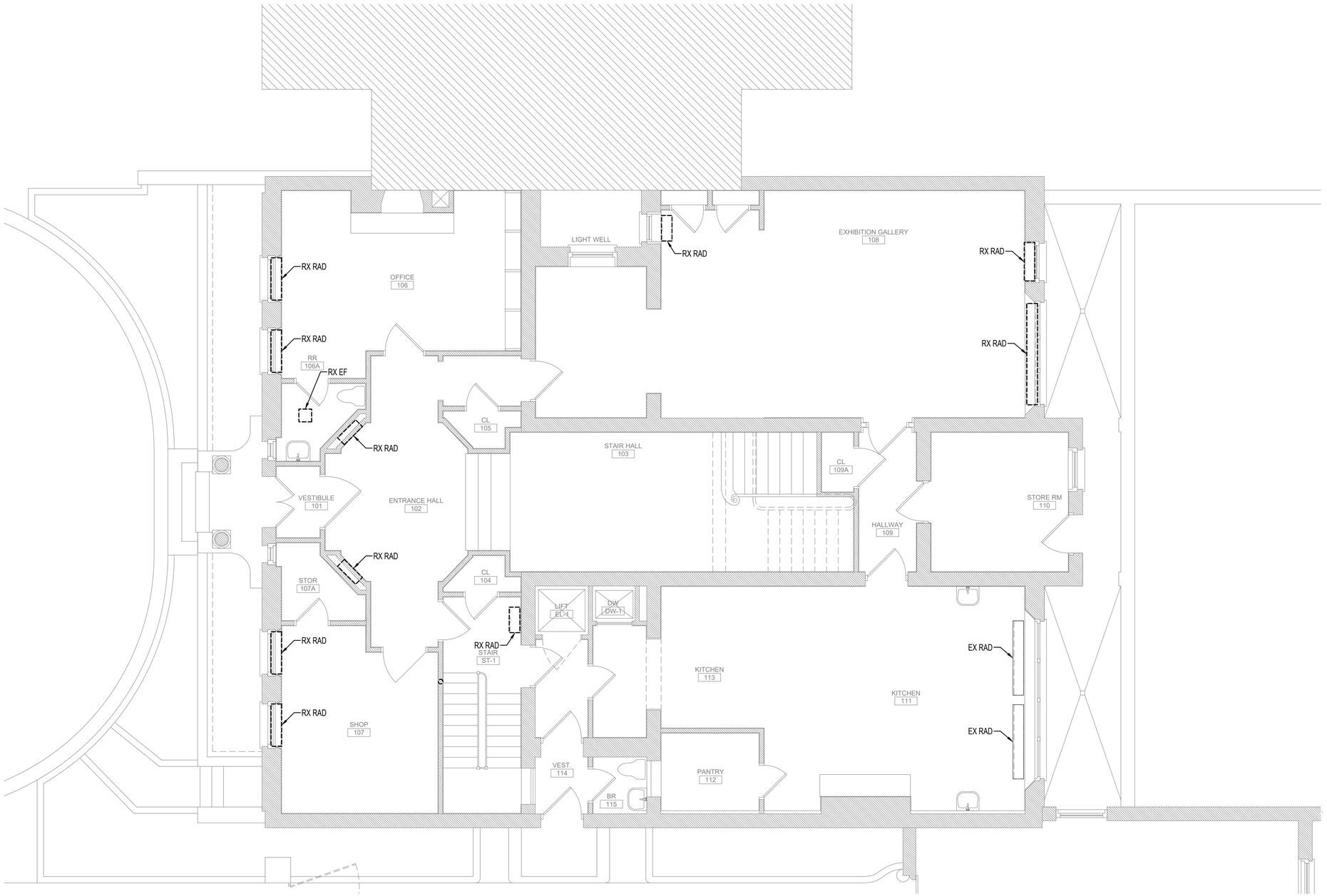
BASEMENT - POWER - DEMOLITION

SHEET NO.

ED-100

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (– – –) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 ED-101 FIRST FLOOR - POWER - DEMOLITION PLAN
1/4" = 1'-0"

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

FIRST FLOOR - POWER - DEMOLITION

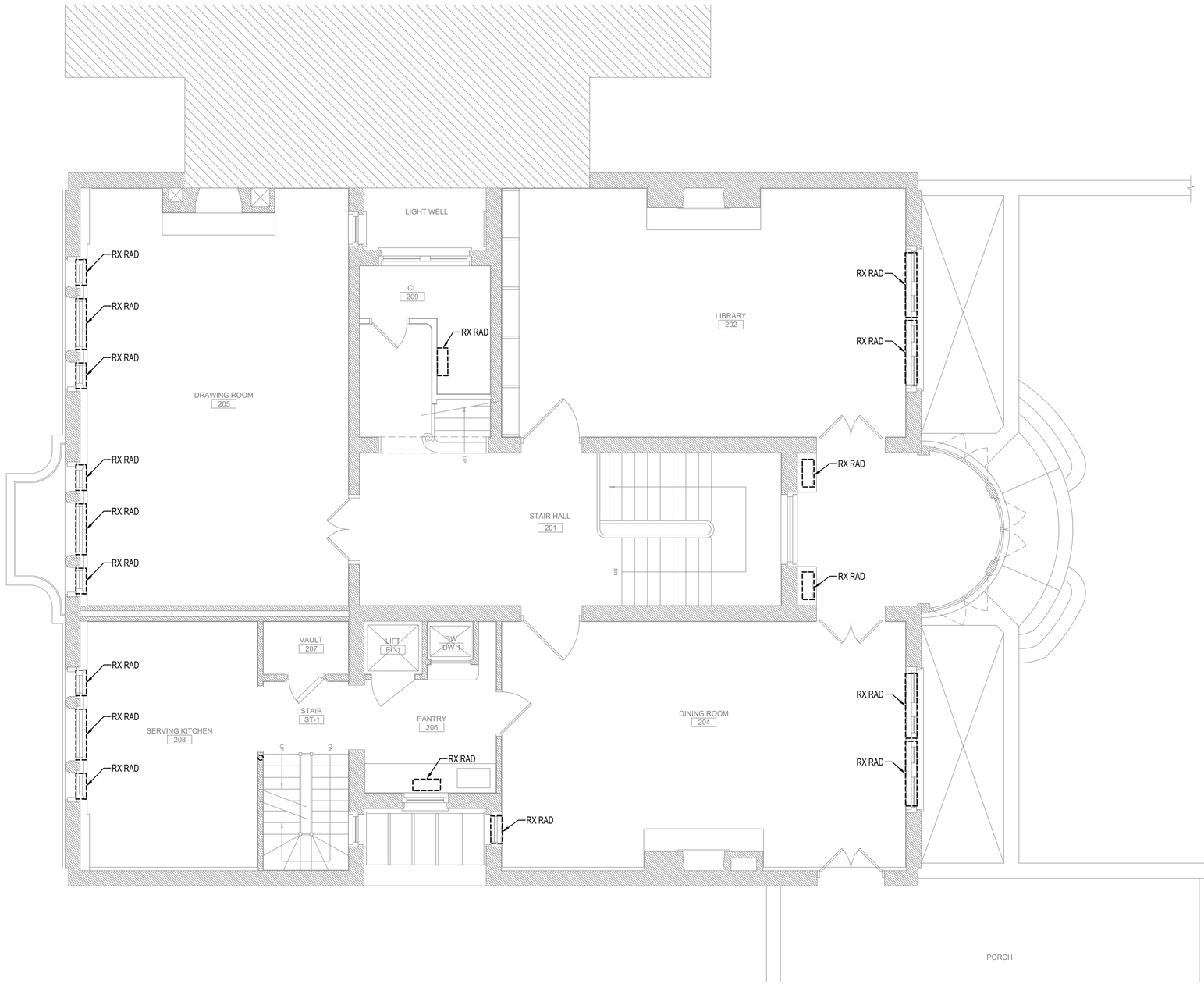
SHEET NO.

ED-101

Xref .\References\Henry Adams 30x42 Titleblock.dwg

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (– – –) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 ED-102 SECOND FLOOR - POWER - DEMOLITION PLAN
1/4" = 1'-0"

N

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

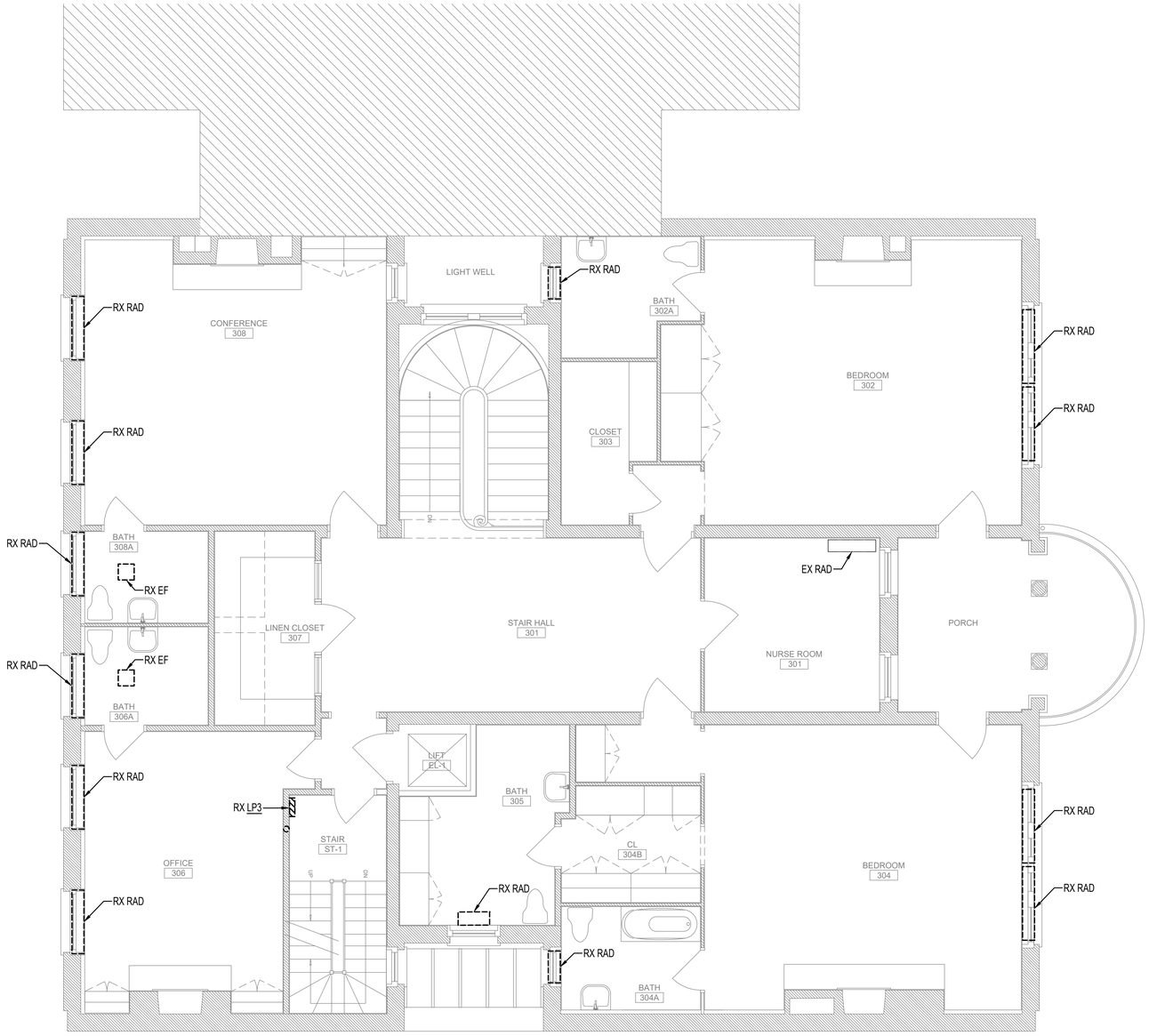
SECOND FLOOR - POWER - DEMOLITION

SHEET NO.

ED-102

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (– – –) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 ED-103 THIRD FLOOR - POWER - DEMOLITION PLAN
1/4" = 1'-0"

N

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

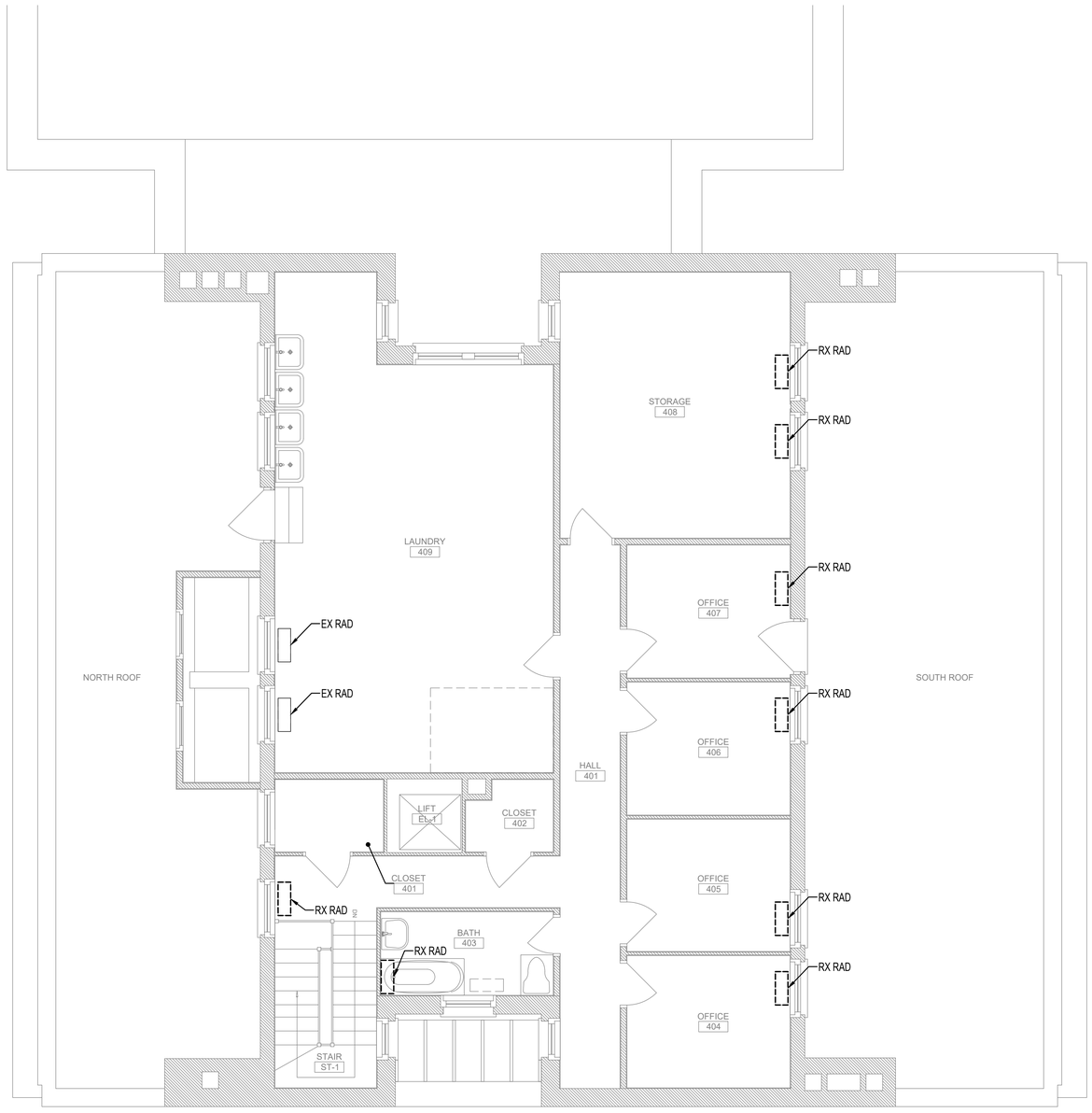
THIRD FLOOR - POWER - DEMOLITION

SHEET NO.

ED-103

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (– – –) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 ED-104 FOURTH FLOOR - POWER - DEMOLITION PLAN
1/4" = 1'-0"

N

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

FOURTH FLOOR - POWER - DEMOLITION

SHEET NO.

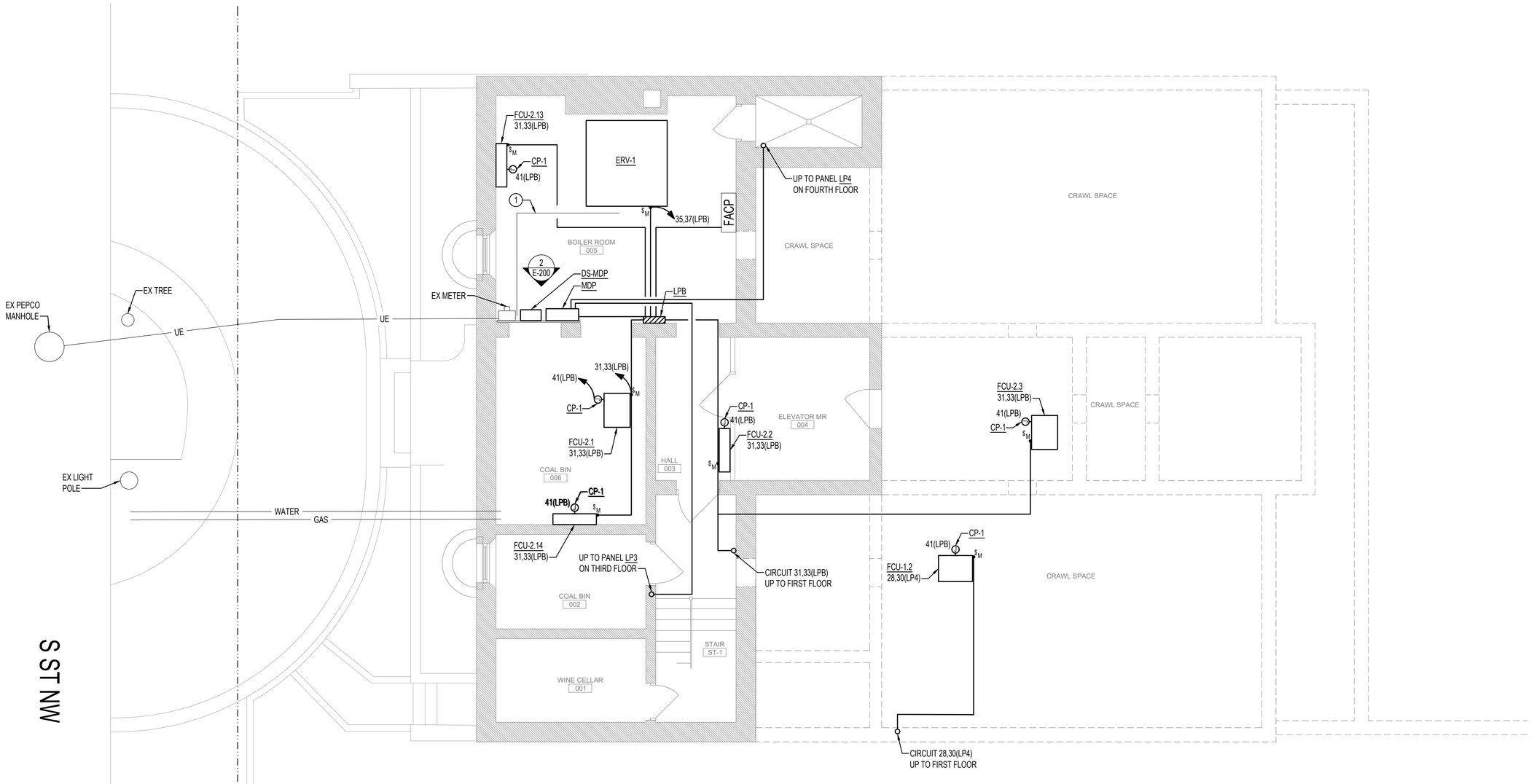
ED-104

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) EXSTING EMERGENCY LIGHTING CIRCUIT TO REMAIN. EXTEND CIRCUIT TO NEW EQUIPMENT LOCATION.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 E-100 BASEMENT - POWER - NEW WORK PLAN
1/4" = 1'-0"

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE
BASEMENT - POWER - NEW WORK

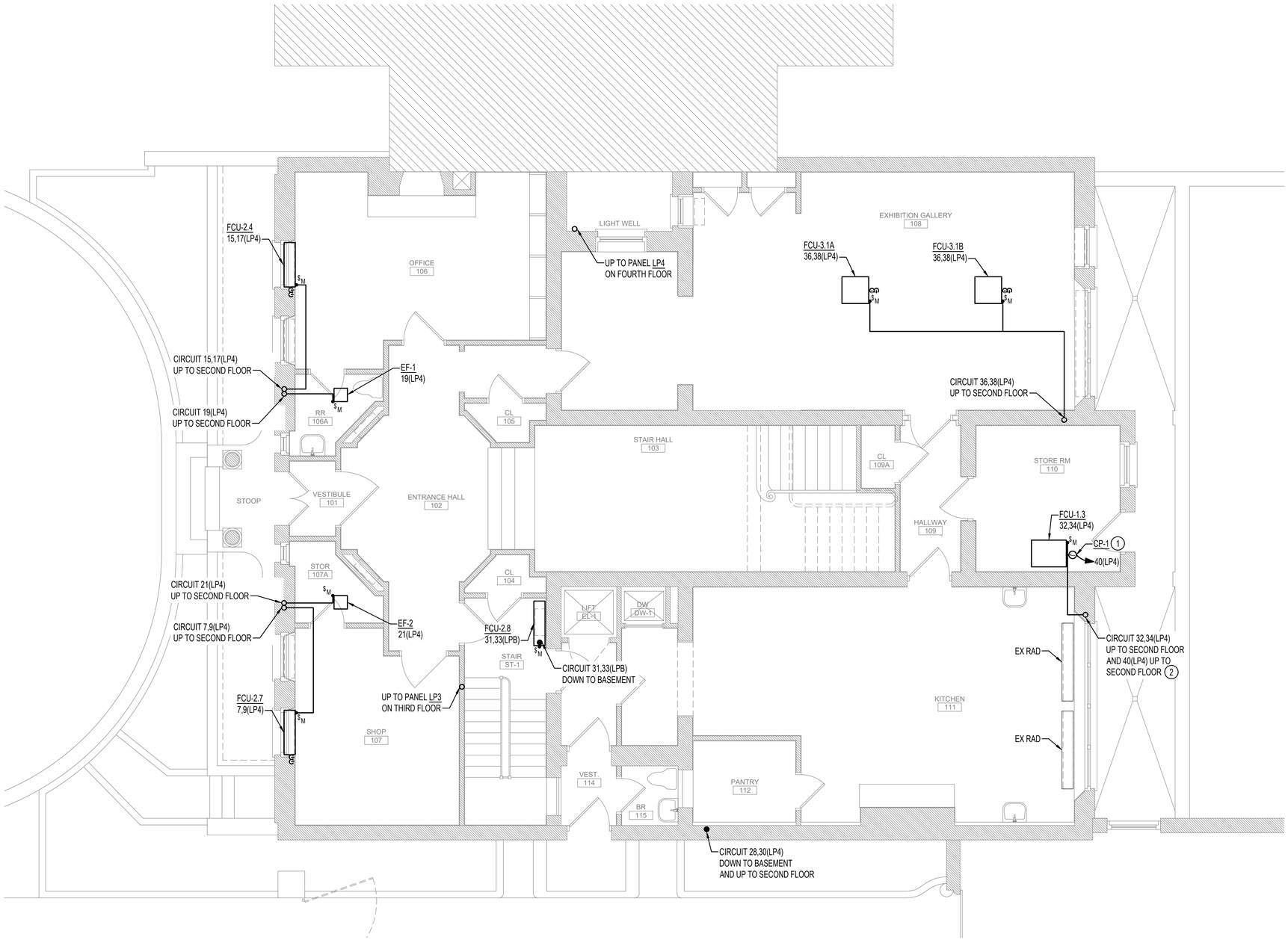
SHEET NO.
E-100

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) LOCATE IN ACCESSIBLE AREA ABOVE ACCESS PANEL.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 E-101 FIRST FLOOR - POWER - NEW WORK PLAN
1/4" = 1'-0"

N

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

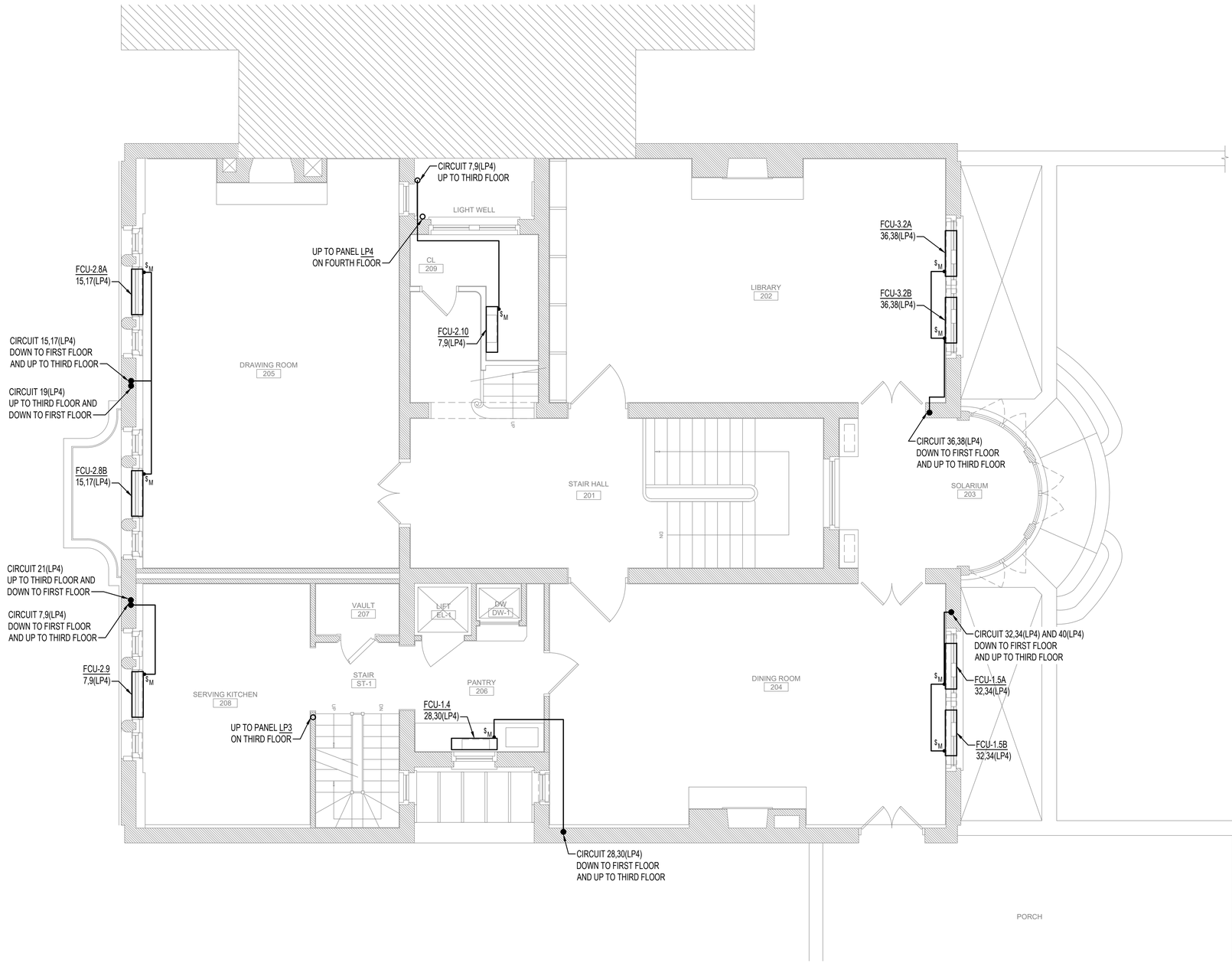
FIRST FLOOR - POWER - NEW WORK

SHEET NO.

E-101

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 E-102 SECOND FLOOR - POWER - NEW WORK PLAN
1/4" = 1'-0"

N

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

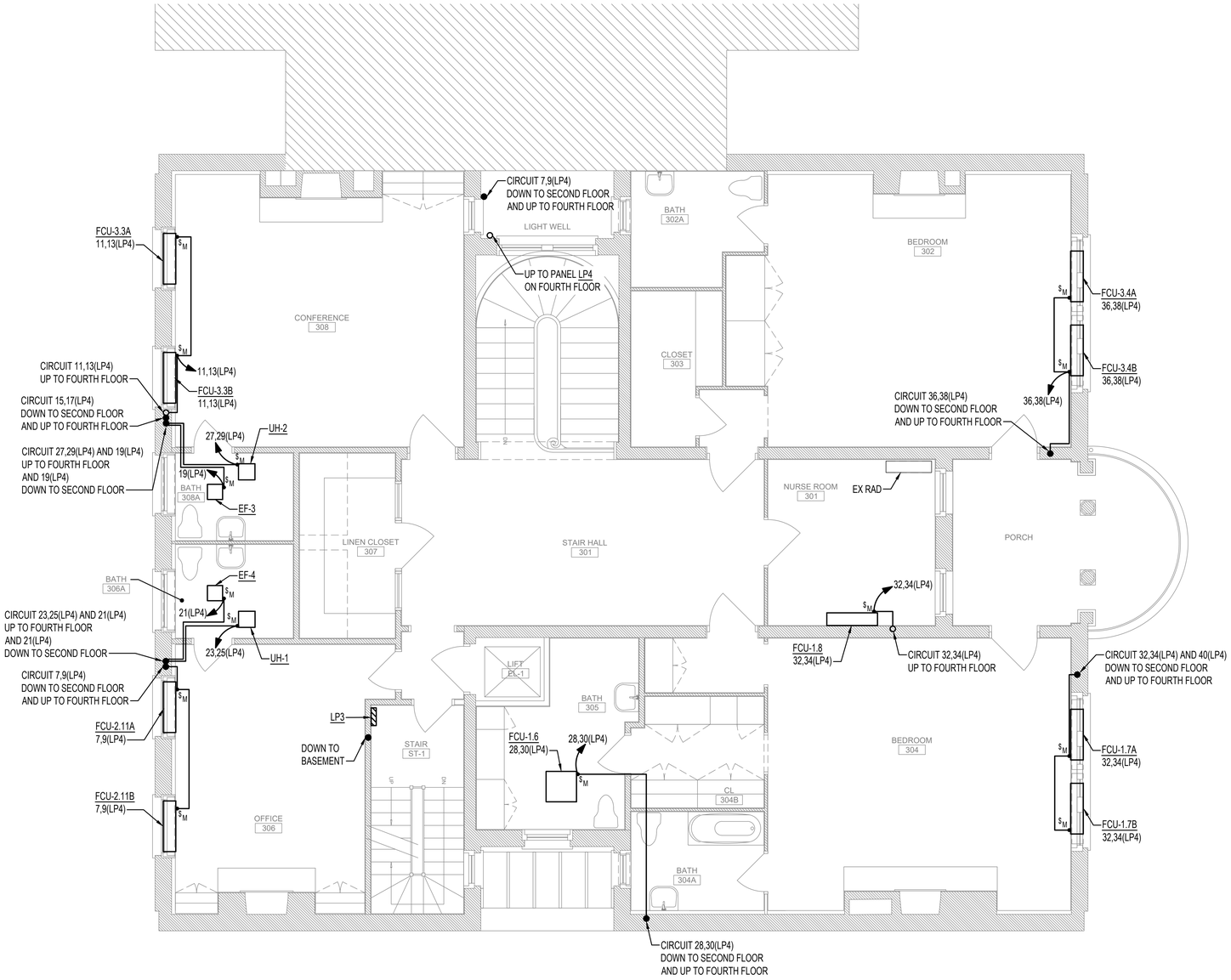
SECOND FLOOR - POWER - NEW WORK

SHEET NO.

E-102

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 E-103 THIRD FLOOR - POWER - NEW WORK PLAN
1/4" = 1'-0"

N

1/4" = 1' - 0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

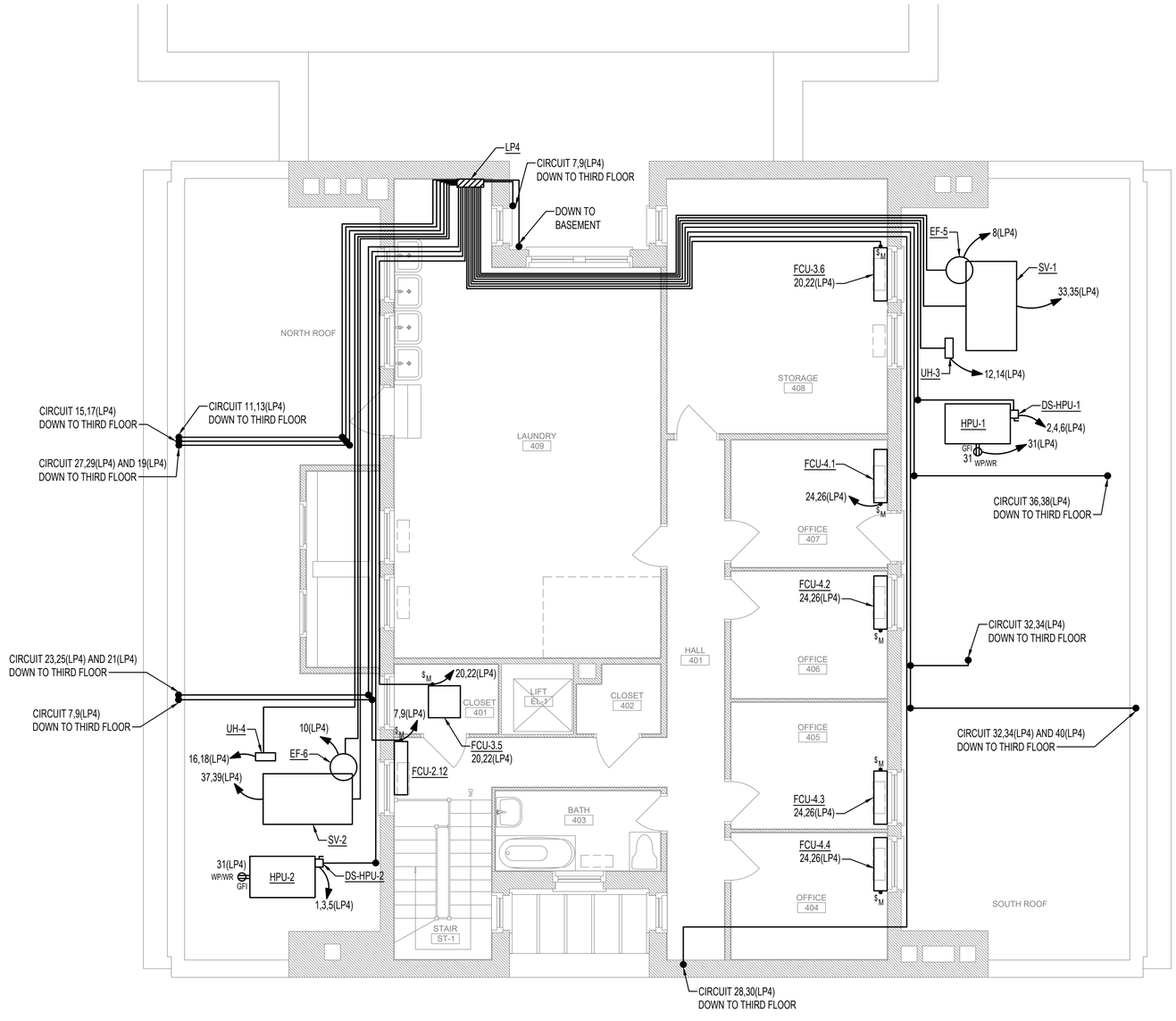
DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE
THIRD FLOOR - POWER - NEW WORK

SHEET NO.
E-103

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
3. CONDUITS ROUTED ON EXTERIOR WALL OF FOURTH FLOOR SHALL BE MOUNTED HIGH ON WALL ABOVE DOORS AND WINDOWS. SECURE PER NEC REQUIREMENTS.



1 E-104 FOURTH FLOOR - POWER - NEW WORK PLAN
1/4" = 1'-0"

N

1/4" = 1'-0" 0 2 4 8 12 FT

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

FOURTH FLOOR - POWER - NEW WORK

SHEET NO.

E-104

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (– – –) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

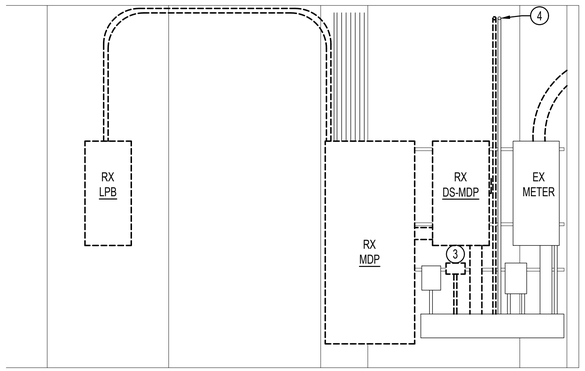
SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) RELOCATE EXISTING EMERGENCY DISCONNECT SWITCH.

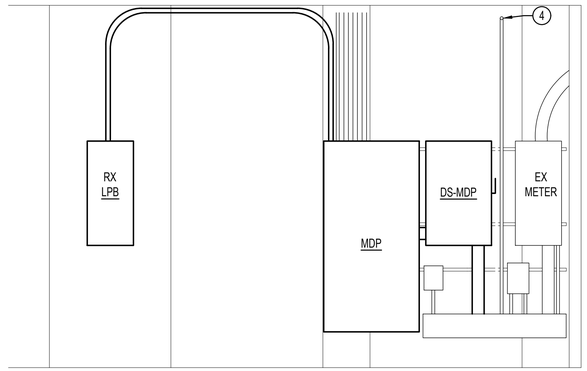
(2) RELOCATED EXISTING EMERGENCY LIGHTING CIRCUIT DISCONNECT SWITCH.

(3) REMOVE EXISTING FIRE ALARM FUSES.

(4) EXSTING EMERGENCY LIGHTING CIRCUIT TO REMAIN.



1 E-200 BASEMENT BOILER ROOM - POWER - DEMOLITION
1/2" = 1'-0"



2 E-200 BASEMENT BOILER ROOM - POWER - NEW WORK
1/2" = 1'-0"

0 1 2 4 6 FT
1/2" = 1' - 0"

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

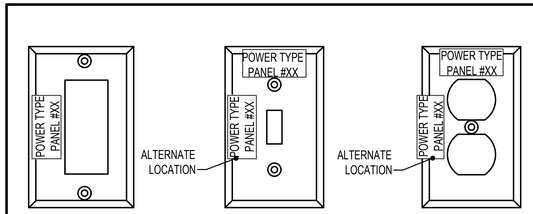
DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

ELECTRICAL ELEVATIONS

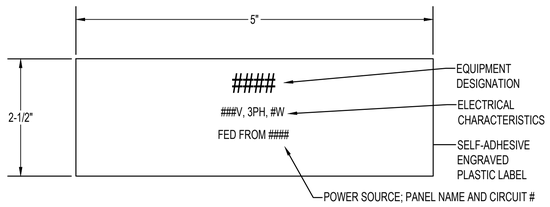
SHEET NO.

E-200



PROVIDE 0.59" WIDE POLYESTER ADHESIVE TAPE LABELS, 1.77" LONG WITH BLACK 1/8" HIGH TIMES NEW ROMAN TEXT. REPLACE POWER TYPE WITH PANEL SOURCE, EXAMPLE: "NORMAL POWER", "PANEL" WITH THE PANEL NAME, AND "XX" WITH THE CIRCUIT NUMBER OR NUMBERS SEPARATED BY COMMAS. DO NOT COVER SCREWS.

5 E-501 N.T.S. IDENTIFICATION - RECEPTACLE



GENERAL NOTES:

A. ALL NEW SAFETY SWITCHES, STARTERS, ENCLOSED CIRCUIT BREAKERS, AND VARIABLE SPEED MOTOR CONTROLLERS SHALL BE PROVIDED WITH LABELS.

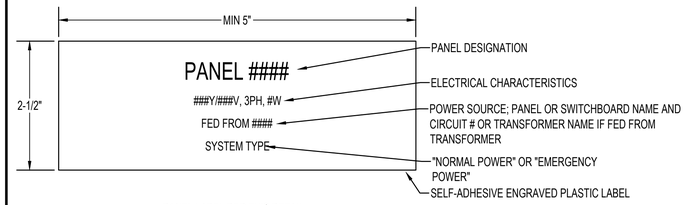
B. CENTER ALL TEXT HORIZONTALLY.

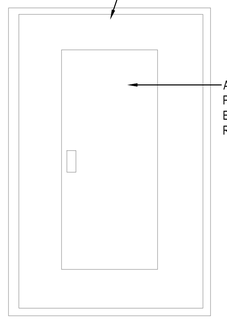
C. MODIFY TEXT AS REQUIRED.

D. EQUIPMENT CONNECTED TO NORMAL POWER SYSTEMS SHALL HAVE BLACK LETTERS ON WHITE BACKGROUND.

E. EQUIPMENT CONNECTED TO EMERGENCY POWER SYSTEMS SHALL HAVE WHITE LETTERS ON RED BACKGROUND.

2 E-501 N.T.S. IDENTIFICATION - DISCONNECT - STARTER - SWITCH - VSMC LABEL





GENERAL NOTES:

A. ALL NEW PANELBOARDS SHALL BE PROVIDED WITH LABELS.

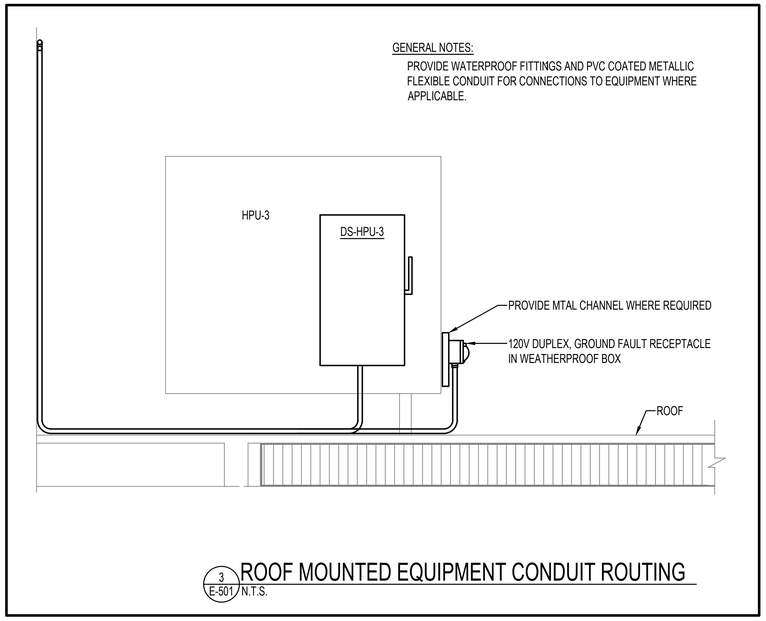
B. CENTER ALL TEXT HORIZONTALLY.

C. MODIFY TEXT AS REQUIRED.

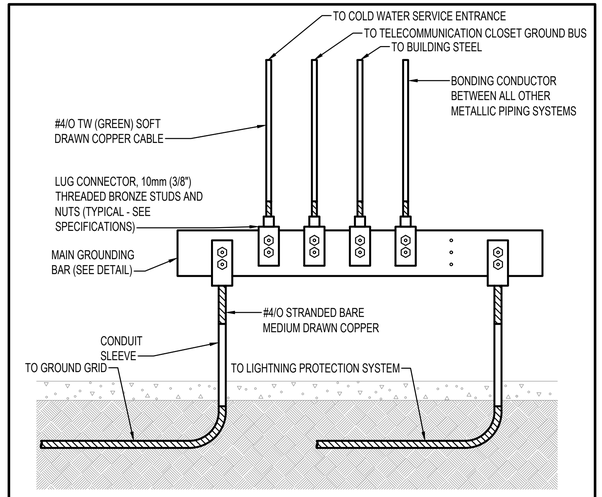
D. PANELBOARDS CONNECTED TO NORMAL POWER SYSTEMS SHALL HAVE BLACK LETTERS ON WHITE BACKGROUND.

E. PANELBOARDS CONNECTED TO EMERGENCY POWER SYSTEMS SHALL HAVE WHITE LETTERS ON RED BACKGROUND.

1 E-501 N.T.S. IDENTIFICATION-PANELBOARD LABELS



3 E-501 N.T.S. ROOF MOUNTED EQUIPMENT CONDUIT ROUTING



4 E-501 N.T.S. GROUND BAR INSTALLATION

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

ELECTRICAL DETAILS

SHEET NO.

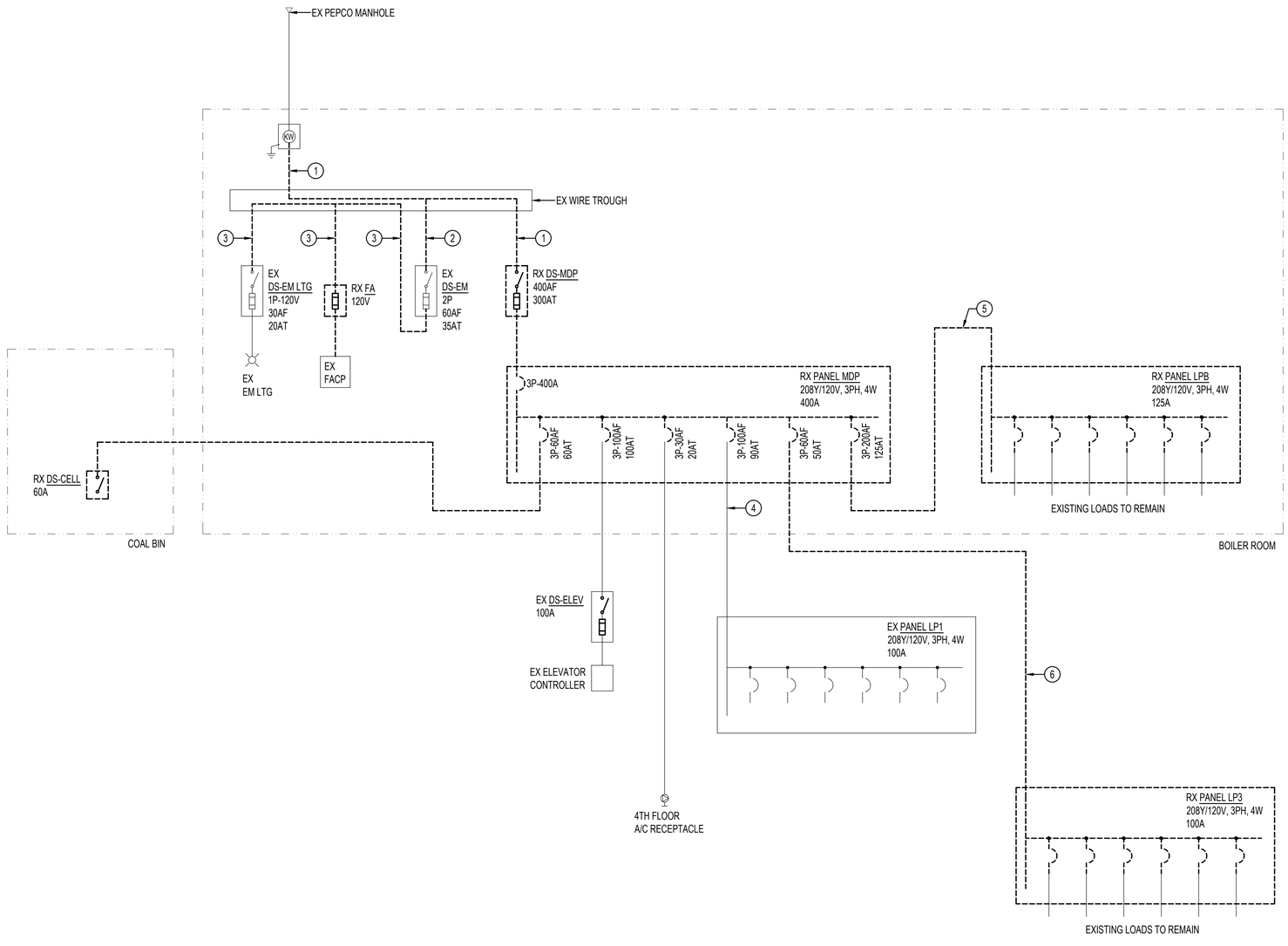
E-501

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) RX #4300 + #4GW IN 3"C.
(2) RX 3#8 + #10GW IN 3/4"C.
(3) RX 2#12 + #12GW IN 3/4"C.
(4) ETR 4#4 + #8GW IN 1-1/4"C.
(5) RX 4#2 + #8GW IN 1-1/2"C.
(6) RX 4#6 + #10GW IN 1"C.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (- - -) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 E-601 ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION
NO SCALE

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION

SHEET NO.

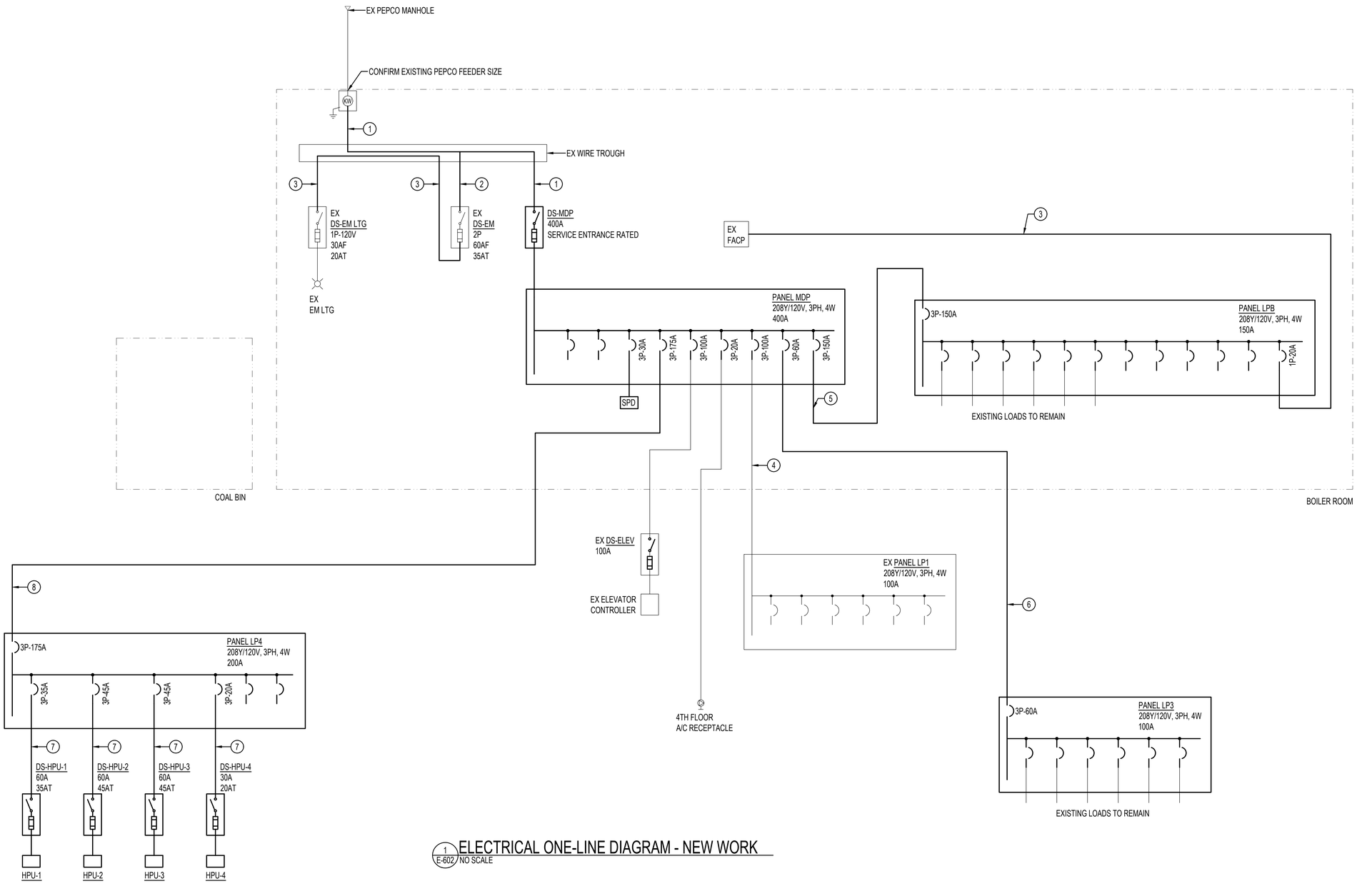
E-601

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) 2 SETS OF 3#3/0+ #3GW IN 3"C.
(2) 3#8 + #10GW IN 3/4"C.
(3) 2#12 + #12GW IN 3/4"C.
(4) EX 4#4 + #8GW IN 1-1/4"C.
(5) 4#1/0 + #6GW IN 2"C.
(6) 4#4 + #10GW IN 1-1/4"C.
(7) REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ON E-801.
(8) 4#2/0 + #6GW IN 2"C.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 / E-602 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
NO SCALE

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM - NEW WORK

SHEET NO.

E-602

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) 2 SETS OF 3#3/0+ #3GW IN 3"C.

(2) 3#8 + #10GW IN 3/4"C.

(3) 2#12 + #12GW IN 3/4"C.

(4) EX 4#4 + #8GW IN 1-1/4"C.

(5) 4#1/0 + #6GW IN 2"C.

(6) 4#4 + #10GW IN 1-1/4"C.

(7) 4#4 + #8GW IN 1-1/4"C.

(8) 3#12 + #12GW IN 3/4"C.

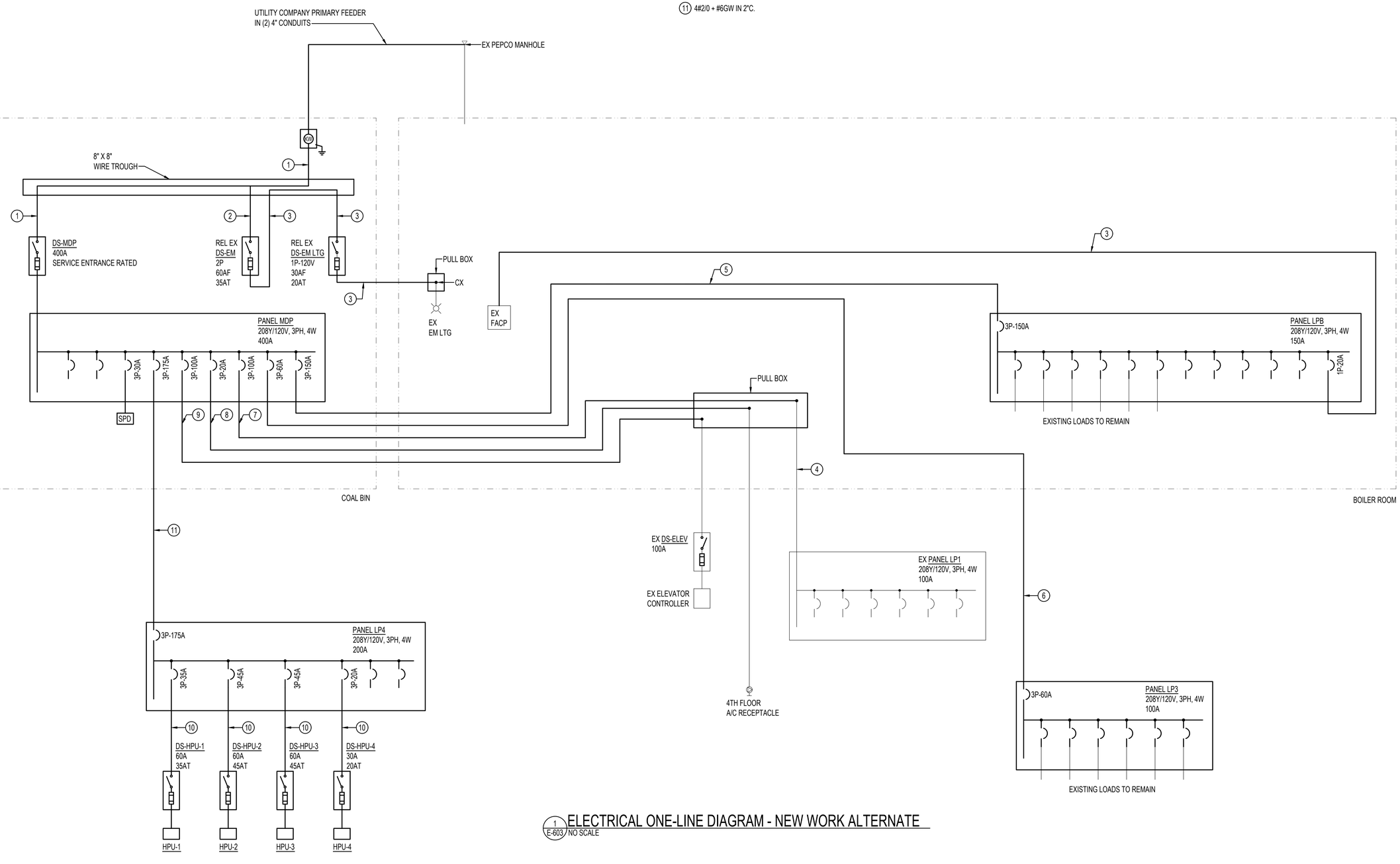
(9) FIELD COORDINATE SIZE OF FEEDER AND GROUND CONDUCTORS IN ACCORDANCE WITH ELEVATOR MANUFACTURER'S PUBLISHED CURRENT CHARACTERISTICS. CONDUCTORS SHALL COPPER. SIZE TO COMPLY WITH NEXT 620.13.

(10) REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ON E-801.

(11) 4#2/0 + #6GW IN 2"C.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



1 E-603 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK ALTERNATE
NO SCALE

National Trust *for* Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM - NEW WORK ALTERNATE

SHEET NO.

E-603

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT DESIGNATION	KW	HP	MCA	MOCP	FLA	VOLTAGE	PHASE	LOAD (kVA)	WIRING & CONDUIT	DISCONNECTING MEANS	CONTROL MEANS	NOTES
FCU-1.2	-	-	1.91	15	1.53	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.3	-	-	1.91	15	1.53	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.4	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.5A	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.5B	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.6	-	-	0.41	15	0.33	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.7A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.7B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-1.8	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.1	-	-	1.1	15	0.88	208	1	0.18	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.2	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.3	-	-	1.1	15	0.88	208	1	0.18	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.4	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.7	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.8	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.8A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.8B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.9	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.10	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.11A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.11B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.12	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.13	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-2.14	-	-	0.21	15	0.17	208	1	0.04	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.1A	-	-	0.41	15	0.33	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.1B	-	-	0.41	15	0.33	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.2A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.2B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.3A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.3B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.4A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.4B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.5	-	-	4	15	3.2	208	1	0.67	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-3.6	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-4.1	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-4.2	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-4.3	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
FCU-4.4	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
ERV-1	-	-	4.2	15	3.36	208	1	0.70	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
HPU-1	-	-	69	80	41.64	208	3	15.00	3#4 + #8GW IN 1"C	DS-HPU-1	-	-
HPU-2	-	-	69	80	41.64	208	3	15.00	3#4 + #8GW IN 1"C	DS-HPU-2	-	-
EF-1	-	-	-	15	0.38	120	1	0.05	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
EF-2	-	-	-	15	0.38	120	1	0.05	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
EF-3	-	-	-	15	0.13	120	1	0.02	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
EF-4	-	-	-	15	0.13	120	1	0.02	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
EF-5	-	1/6	5.5	15	4.4	120	1	0.53	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
EF-6	-	1/6	5.5	15	4.4	120	1	0.53	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
UH-1	1.5	-	9.01	15	7.21	208	1	1.50	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	-	-
UH-2	1.5	-	9.01	15	7.21	208	1	1.50	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	-	-
UH-3	2	-	12.03	15	9.62	208	1	2.00	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	-	-
UH-4	2	-	12.03	15	9.62	208	1	2.00	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	-	-
SV-1	-	-	1.9	15	1.52	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-
SV-2	-	-	1.9	15	1.52	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	-	-

NOTES: (APPLICABLE TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ONLY)

1. REVIEW EQUIPMENT SUBMITTALS FROM OTHER TRADES PRIOR TO ORDERING OR INSTALLING ASSOCIATED ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL MODIFY COMPONENTS OF THE ELECTRICAL CONNECTIONS AS NECESSARY TO MATCH NAMEPLATE DATA OF APPROVED EQUIPMENT AND PROVIDE A CODE COMPLIANT INSTALLATION, INCLUDING BUT NOT LIMITED TO CIRCUIT BREAKERS, WIRE, CONDUITS, CONNECTION TYPES, SWITCHES, AND FUSES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED FOR FAILURE TO COORDINATE WITH OTHER TRADES' EQUIPMENT SUBMITTALS.
2. PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES. FIELD COORDINATE EXACT LOCATIONS. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURERS' RECOMMENDED MAINTENANCE CLEARANCES. COORDINATE EXACT LOCATION OF SAFETY SWITCHES WITH MECHANICAL EQUIPMENT/CONTRACTOR.

DISCONNECT SWITCH SCHEDULE

DESIGNATION	AMP RATING	POLES	VOLT RATING	FUSE AMPS	FUSE CLASS	NEMA ENCLOSURE	NOTES
DS-HPU-1	100	3	208	80	RK5	3R	1,2,3,4
DS-HPU-2	100	3	208	80	RK5	3R	1,2,3,4

NOTES: (APPLICABLE TO DISCONNECT SWITCH SCHEDULE ONLY)

1. PROVIDE FUSE AND COORDINATE EXACT EQUIPMENT FUSE SIZE WITH MOTOR OR EQUIPMENT NAMEPLATE DATA DURING CONSTRUCTION .
2. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH GROUND LUG.
3. PROVIDE ALL FUSIBLE DISCONNECT SWITCHES WITH CLASS R FUSE KIT.
4. LABEL DISCONNECT SWITCHES WITH THE DESIGNATION IDENTIFIED IN THIS SCHEDULE AND THE CIRCUIT NUMBER AND PANELBOARD FROM WHICH IT IS FED, INCLUDING VOLTAGE AND PHASE.

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NO.

E-801

DISTRIBUTION PANEL MDP

SERVICE TYPE: NORMAL

BUS AMPACITY: 400A
MAIN TYPE: 400A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 42K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 3R
LOCATION: BASEMENT COAL BIN

CKT	LOAD DESCRIPTION	OVERCURRENT PROTECTION					KVA	NOTE
		TYPE	P	FRAME	TA	AUX		
1	PANEL LPB	MCCB	3	200	150	-	24.11	-
2	PANEL LP3	MCCB	3	100	60	-	11.94	-
3	PANEL LP1	MCCB	3	100	100	-	12.00	-
4	ELEVATOR	MCCB	3	100	100	-	12.00	-
5	4TH FLOOR RECEPTACLE	MCCB	3	20	20	-	0.36	-
6	PANEL LP4	MCCB	3	200	175	-	42.91	-
7	SPD	MCCB	3	30	30	-	-	-
8	SPARE	MCCB	3	100	-	-	-	-
9	SPACE	-	3	100	-	-	-	-
10	SPACE	-	3	100	-	-	-	-

AUXILIARIES
- a AFCI BREAKER
- b GFCI BREAKER (5mA)
- c GFEP BREAKER (30mA)
- d SHUNT TRIP BREAKER
- e HANDLE PADLOCK
- f HANDLE CLAMP
- g RED CB HANDLE

TOTAL CONNECTED LOAD	103.32
TOTAL DEMAND LOAD	87.37
DEMAND AMPS	242.5

- [X] GROUND BUS
- [ ] SERVICE ENTRANCE LABEL
- [ ] INTEGRAL SPD/TVSS
- [ ] 200% NEUTRAL BUS & LUGS
- [ ] ISOLATED GROUND BUS
- [ ] SPLIT BUS
- [ ] FEED THRU LUGS
- [ ] SUB FEED LUGS

LOAD SUMMARY NOTES

NOTE 1: FIRST 10KVA AT 100% AND REMAINDER AT 50%.
NOTE 2: COOLING CYCLE IS GREATER THAN HEATING CYCLE, THEREFORE COOLING CYCLE IS USED.
NOTE 3: DEMAND FACTOR FROM NEC TABLE FOR KITCHEN EQUIPMENT OTHER THAN DWELLING UNIT.
NOTE 4: DEMAND FACTOR FROM NEC TABLE FOR ELEVATORS.

LOAD SUMMARY (KVA)

LOAD TYPE	CONNECTED	DF	DEMAND
LIGHTING	8.20	100%	8.20
RECEPTACLE (SEE NOTE 1)	35.90	--	22.95
EQUIPMENT: CONTINUOUS	15.26	100%	15.26
EQUIPMENT: NON-CONTINUOUS	0.00	100%	0.00
MOTOR	0.00	100%	0.00
COOLING (SEE NOTE 2)	40.96	100%	40.96
HEATING (SEE NOTE 2)	3.00	0%	0.00
STANDBY	0.00	0%	0.00
OTHER	0.00	100%	0.00
KITCHEN (SEE NOTE 3)	0.00	100%	0.00
ELEVATOR (SEE NOTE 4)	0.00	100%	0.00

RX PANELBOARD LPB (EXISTING)

SERVICE TYPE: NORMAL
MANUFACTURER: SQUARE-D

BUS AMPACITY: 200A
MAIN TYPE: MLO
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC CLOSET

CKT	LOAD DESCRIPTION	NOTE	CKT BREAKER P	CKT BREAKER TA	CKT BREAKER AUX	KVA PER PHASE PHASE A	KVA PER PHASE PHASE B	KVA PER PHASE PHASE C	CKT BREAKER AUX	CKT BREAKER TA	CKT BREAKER P	NOTE	LOAD DESCRIPTION	CKT
1	LTS: COAL BIN/WINE CELLAR, BATH REC/OFFICE	-	1	20	b	0.56	0.64		-	20	1	-	REC: BUTLER PANTRY, DWG RM + LTS: SERVING	2
3	REC: SERVING KITCHEN 2ND FL	-	1	20	-			0.72	0.64		-	20	1	-	REC: BUTLER PANTRY, DWG RM + LTS: SERVING	4
5	REC: 4TH FL WIREMOLD IN DUMBWAITER SHAFT	-	1	20	-					0.72	0.20	-	20	1	-	LTS: LIBRARY	6
7	REC: LIBRARY	-	1	20	-	0.72	0.20					-	20	1	-	LTS: LIBRARY	8
9	LTS: 2ND FL DRAWING ROOM SIDE LTS	-	1	20	-			0.30	0.20			-	20	1	-	LTS: ELEV EQUIP AND BOILER RM	10
11	FURNACE	-	1	20	-					0.20	0.20	-	20	1	-	LTS: ELEV EQUIP AND BOILER RM	12
13	REC: FRONT FOYER,BATHROOM/LTS: SIDE PORCH,DUMBWAITER,NEAR ELEV 1ST FL	-	1	20	b	1.00	0.20					-	20	1	-	LTG: DINING RM EAST, SOLARIUM AND PANTRY	14
15	REC: #7 STORE RM	-	1	20	-			0.90	0.20			-	20	1	-	LTG: DINING RM EAST, SOLARIUM AND PANTRY	16
17	REC: #8 STORE RM	-	1	15	-					0.90	0.64	-	20	1	-	REC: FRONT ENTRY EAST FOYER, LTS: FOYER, OUTSIDE	18
19	REC: #6 STORE RM	-	1	20	-	0.90	0.64					-	20	1	-	REC: FRONT ENTRY EAST FOYER, LTS: FOYER, OUTSIDE	20
21	REC: MAIN HALL WEST + LTS KITCHEN	-	1	20	b			0.90	0.90			-	20	1	-	REC: RECEPTION RM, FOYER, COAL BIN	22
23	REC: ADT 1ST FL CLOSET	-	1	20	-					0.72	0.20	-	20	1	-	LTS: NEW STAIR	24
25	REC: TELE EQUIP BASEMENT	-	1	20	b	0.54	0.72					-	20	1	-	REC: DINING RM,PANTRY	26
27	LTS: W.W. OFFICE, CONF RM, HALL/REC: CONF RM, W.W. OFFICE	-	1	20	-			0.74	0.72			-	20	1	-	REC: CONF RM, COFFEE MAKER	28
29	TRANS FEED BUZZERS + FRONT DOOR BELL	-	1	20	-					0.30	0.82	-	15	1	-	REC: CONF RM LTS, ADT REC CLOSET, STORE RM, OUT LTS	30
31	FCU-2.1/2.2/2.3/2.8/2.13/2.14	-	2	15	-	0.27	0.72					-	20	1	-	REC: CONF RM, COFFEE MAKER	32
33	{ }	-	-	-	-			0.27	0.50			-	20	1	-	LTS: TRACK CONF RM	34
35	ERV-1	-	2	15	-					0.44	0.36	-	20	1	-	REC: DEDICATED KITCHEN 2ND FL	36
37	{ }	-	-	-	-	0.44	0.20					-	20	1	-	LTS: OLD STAIR, 4TH FL BATH	38
39	FIRE ALARM CONTROL PANEL	-	1	20	g			0.20	0.54			-	20	1	-	REC: CONF RM, ELEV RM, BOILER RM, 1ST FL OFFICE, CASH REGISTER	40
41	BASEMENT CONDENSATE PUMPS	-	1	20	-					0.56	0.54	-	20	1	-	REC: CONF RM, ELEV RM, BOILER RM, 1ST FL OFFICE, CASH REGISTER	42
43	SPARE	-	1	20	-	-	0.64					-	20	1	-	REC: DRAWING RM, AND END LTS	44
45	SPARE	-	1	20	-			-	0.54			-	20	1	-	REC: ELEV RM	46
47	SPARE	-	1	20	-					-	0.10	-	20	1	-	LTS: ELEV CAB	48
49	SPACE	-	1	-	-	-	0.20					-	20	1	-	LTS: CRAWL SPACE	50
51	SPACE	-	1	-	-			-	0.36			-	20	1	-	REC: KITCHEN REFRIG	52
53	SPACE	-	1	-	-					-	-	-	20	1	-	SPARE	54
						4.42	4.16	4.03	4.60	3.84	3.06						
						8.58		8.63		6.90							
						71.5A		71.9A		57.5A							

AUXILIARIES
- a AFCI BREAKER
- b GFCI BREAKER (5mA)
- c GFEP BREAKER (30mA)
- d SHUNT TRIP BREAKER
- e HANDLE PADLOCK
- f HANDLE CLAMP
- g RED CB HANDLE

- [X] GROUND BUS
- [ ] SERVICE ENTRANCE LABEL
- [ ] INTEGRAL SPD/TVSS
- [ ] 200% NEUTRAL BUS & LUGS
- [ ] ISOLATED GROUND BUS
- [ ] SPLIT BUS
- [ ] FEED THRU LUGS
- [ ] SUB FEED LUGS

TOTAL CONNECTED LOAD	24.11
TOTAL DEMAND LOAD	20.29
DEMAND AMPS	56.3

LOAD SUMMARY NOTES

NOTE 1: FIRST 10KVA AT 100% AND REMAINDER AT 50%.
NOTE 2: COOLING CYCLE IS GREATER THAN HEATING CYCLE, THEREFORE COOLING CYCLE IS USED.
NOTE 3: DEMAND FACTOR FROM NEC TABLE FOR KITCHEN EQUIPMENT OTHER THAN DWELLING UNIT.
NOTE 4: DEMAND FACTOR FROM NEC TABLE FOR ELEVATORS.

LOAD SUMMARY (KVA)

LOAD TYPE	CONNECTED	DF	DEMAND
LIGHTING	3.80	100%	3.80
RECEPTACLE (SEE NOTE 1)	17.64	--	13.82
EQUIPMENT: CONTINUOUS	1.26	100%	1.26
EQUIPMENT: NON-CONTINUOUS	0.00	100%	0.00
MOTOR	0.00	100%	0.00
COOLING (SEE NOTE 2)	1.41	100%	1.41
HEATING (SEE NOTE 2)	0.00	0%	0.00
STANDBY	0.00	0%	0.00
OTHER	0.00	100%	0.00
KITCHEN (SEE NOTE 3)	0.00	100%	0.00
ELEVATOR (SEE NOTE 4)	0.00	100%	0.00

REPLACE WITH NEW

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. AFTER DEMOLITION CONTRACTOR SHALL VERIFY ALL REMAINING LOADS CONNECTED TO PANELBOARDS. CONTRACTOR SHALL TRACE CIRCUITS AND SHALL PROVIDE NEW TYPED PANELBOARD DIRECTORIES INDICATING EXISTING LOADS.

National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

Owner

The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE

PANELBOARD SCHEDULES

SHEET NO.

E-802

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. AFTER DEMOLITION CONTRACTOR SHALL VERIFY ALL REMAINING LOADS CONNECTED TO PANELBOARDS. CONTRACTOR SHALL TRACE CIRCUITS AND SHALL PROVIDE NEW TYPED PANELBOARD DIRECTORIES INDICATING EXISTING LOADS.

RX PANELBOARD LP3 (EXISTING)

SERVICE TYPE: NORMAL
MANUFACTURER: CUTLER HAMMER
TYPE: PB

BUS AMPACITY: 100A
MAIN TYPE: MLO
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC CLOSET

CKT	LOAD DESCRIPTION	NOTE	CKT BREAKER P	CKT BREAKER TA	CKT BREAKER AUX	KVA PER PHASE PHASE A	PHASE B	PHASE C	CKT BREAKER AUX	CKT BREAKER TA	CKT BREAKER P	NOTE	LOAD DESCRIPTION	CKT
1	LTS AND REC: 4TH FL	-	1	20	-	-	-			-	20	1	-	LTS: LAUNDRY RM 4TH FL	2
3	LTS AND REC: 4TH FL	-	1	20	-			-	-	-	20	1	-	REC: GUEST RM B 3RD FL	4
5	LTS: LAUNDRY AND STORE RM 4TH FL	-	1	20	-					-	20	1	-	REC: GUEST RM A 3RD FL	6
7	LTS AND REC: GUEST RM A 3RD FL	-	1	20	-	-	-			-	20	1	-	REC: GUEST RM B 3RD FL	8
9	LTS AND REC: GUEST RM B, BATH, STORE RM	-	1	20	-			-	-	-	20	1	-	REC: QUAD 3RD FL BATH	10
11	LTS AND REC: 3RD FL	-	1	20	-					-	20	1	-	REC: QUAD 3RD FL BATH	12
13	LTS AND REC: DRESSING AND BATHROOM 3RD FL	-	1	20	-	-	-			-	20	1	-	REC: RECEPTION OFFICE 1ST FL	14
15	BEDRM/BATH, NURSE BEDRM, PORCH LTS	-	1	20	-			-	-	-	20	1	-	LTS: MAIN ST AIR 3RD FL	16
17	REC: WILSON BEDROOM	-	1	20	-					-	20	1	-	LTS: HALLWAY 3RD FL	18
19	DEDICATED A/C LOCATED IN BATH 3RD FL	-	1	20	-	-	-			-	20	1	-	REC: QUAD 3RD FL BATH	20
21	REC: QUAD NEAR MEG DESK	-	1	20	-			-	-	-	20	1	-	REC: QUAD 3RD FL BATH	22
23	REC: QUAD NEAR MEG DESK	-	1	20	-					-	-	1	-	SPACE	24
						-	-	-	-						
						-		-							
						-A		-A							

AUXILIARIES

a	AFCI BREAKER	X	GROUND BUS
b	GFCI BREAKER (5mA)		SERVICE ENTRANCE LABEL
c	GFEP BREAKER (30mA)		INTEGRAL SPD/TVSS
d	SHUNT TRIP BREAKER		200% NEUTRAL BUS & LUGS
e	HANDLE PADLOCK		ISOLATED GROUND BUS
f	HANDLE CLAMP		SPLIT BUS
g	RED CB HANDLE		FEED THRU LUGS
			SUB FEED LUGS

TOTAL CONNECTED LOAD	0.00
TOTAL DEMAND LOAD	0.00
DEMAND AMPS	0.0

LOAD SUMMARY NOTES

NOTE 1: FIRST 10KVA AT 100% AND REMAINDER AT 50%.
NOTE 2: HEATING AND COOLING CYCLES ARE EQUAL, THEREFORE HEATING CYCLE IS USED.
NOTE 3: DEMAND FACTOR FROM NEC TABLE FOR KITCHEN EQUIPMENT OTHER THAN DWELLING UNIT.
NOTE 4: DEMAND FACTOR FROM NEC TABLE FOR ELEVATORS.

LOAD SUMMARY (KVA)

LOAD TYPE	CONNECTED	DF	DEMAND
LIGHTING	0.00	100%	0.00
RECEPTACLE (SEE NOTE 1)	0.00	--	0.00
EQUIPMENT: CONTINUOUS	0.00	100%	0.00
EQUIPMENT: NON-CONTINUOUS	0.00	100%	0.00
MOTOR	0.00	100%	0.00
COOLING (SEE NOTE 2)	0.00	0%	0.00
HEATING (SEE NOTE 2)	0.00	100%	0.00
STANDBY	0.00	0%	0.00
OTHER	0.00	100%	0.00
KITCHEN (SEE NOTE 3)	0.00	100%	0.00
ELEVATOR (SEE NOTE 4)	0.00	100%	0.00

REPLACE WITH NEW

PANELBOARD LP3 (NEW)

SERVICE TYPE: NORMAL
MANUFACTURER: CUTLER HAMMER
TYPE: PB

BUS AMPACITY: 100A
MAIN TYPE: 60A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC CLOSET

CKT	LOAD DESCRIPTION	NOTE	CKT BREAKER P	CKT BREAKER TA	CKT BREAKER AUX	KVA PER PHASE PHASE A	PHASE B	PHASE C	CKT BREAKER AUX	CKT BREAKER TA	CKT BREAKER P	NOTE	LOAD DESCRIPTION	CKT
1	LTS AND REC: 4TH FL	-	1	20	-	0.74	0.20			-	20	1	-	LTS: LAUNDRY RM 4TH FL	2
3	LTS AND REC: 4TH FL	-	1	20	-			0.74	0.54	-	20	1	-	REC: GUEST RM B 3RD FL	4
5	LTS: LAUNDRY AND STORE RM 4TH FL	-	1	20	-					0.74	0.54	-	20	1	-	REC: GUEST RM A 3RD FL	6
7	LTS AND REC: GUEST RM A 3RD FL	-	1	20	-	0.74	0.54			-	20	1	-	REC: GUEST RM B 3RD FL	8
9	LTS AND REC: GUEST RM B, BATH, STORE RM	-	1	20	-			0.74	0.36	-	20	1	-	REC: QUAD 3RD FL BATH	10
11	LTS AND REC: 3RD FL	-	1	20	-					0.74	0.36	-	20	1	-	REC: QUAD 3RD FL BATH	12
13	LTS AND REC: DRESSING AND BATHROOM 3RD FL	-	1	20	-	0.74	0.72			-	20	1	-	REC: RECEPTION OFFICE 1ST FL	14
15	BEDRM/BATH, NURSE BEDRM, PORCH LTS	-	1	20	-			0.40	0.20	-	20	1	-	LTS: MAIN ST AIR 3RD FL	16
17	REC: WILSON BEDROOM	-	1	20	-					0.72	0.20	-	20	1	-	LTS: HALLWAY 3RD FL	18
19	DEDICATED A/C LOCATED IN BATH 3RD FL	-	1	20	-	0.54	0.36			-	20	1	-	REC: QUAD 3RD FL BATH	20
21	REC: QUAD NEAR MEG DESK	-	1	20	-			0.36	0.36	-	20	1	-	REC: QUAD 3RD FL BATH	22
23	REC: QUAD NEAR MEG DESK	-	1	20	-					0.36	-	-	1	-	SPACE	24
25	SPARE	-	1	20	-	-	-			-	-	1	-	SPACE	26
27	SPARE	-	1	20	-			-	-	-	-	1	-	SPACE	28
29	SPARE	-	1	20	-					-	-	1	-	SPACE	30
						2.76	1.82	2.24	1.46	2.56	1.10				
						4.58		3.70		3.66					
						38.2A		30.8A		30.5A					

AUXILIARIES

a	AFCI BREAKER	X	GROUND BUS
b	GFCI BREAKER (5mA)		SERVICE ENTRANCE LABEL
c	GFEP BREAKER (30mA)		INTEGRAL SPD/TVSS
d	SHUNT TRIP BREAKER		200% NEUTRAL BUS & LUGS
e	HANDLE PADLOCK		ISOLATED GROUND BUS
f	HANDLE CLAMP		SPLIT BUS
g	RED CB HANDLE		FEED THRU LUGS
			SUB FEED LUGS

TOTAL CONNECTED LOAD	11.94
TOTAL DEMAND LOAD	11.94
DEMAND AMPS	33.1

LOAD SUMMARY NOTES

NOTE 1: FIRST 10KVA AT 100% AND REMAINDER AT 50%.
NOTE 2: HEATING AND COOLING CYCLES ARE EQUAL, THEREFORE HEATING CYCLE IS USED.
NOTE 3: DEMAND FACTOR FROM NEC TABLE FOR KITCHEN EQUIPMENT OTHER THAN DWELLING UNIT.
NOTE 4: DEMAND FACTOR FROM NEC TABLE FOR ELEVATORS.

LOAD SUMMARY (KVA)

LOAD TYPE	CONNECTED	DF	DEMAND
LIGHTING	2.40	100%	2.40
RECEPTACLE (SEE NOTE 1)	9.54	--	9.54
EQUIPMENT: CONTINUOUS	0.00	100%	0.00
EQUIPMENT: NON-CONTINUOUS	0.00	100%	0.00
MOTOR	0.00	100%	0.00
COOLING (SEE NOTE 2)	0.00	0%	0.00
HEATING (SEE NOTE 2)	0.00	100%	0.00
STANDBY	0.00	0%	0.00
OTHER	0.00	100%	0.00
KITCHEN (SEE NOTE 3)	0.00	100%	0.00
ELEVATOR (SEE NOTE 4)	0.00	100%	0.00

PANELBOARD LP4

SERVICE TYPE: NORMAL

BUS AMPACITY: 200A
MAIN TYPE: 200A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: 4TH FLOOR

CKT	LOAD DESCRIPTION	NOTE	CKT BREAKER P	CKT BREAKER TA	CKT BREAKER AUX	KVA PER PHASE PHASE A	PHASE B	PHASE C	CKT BREAKER AUX	CKT BREAKER TA	CKT BREAKER P	NOTE	LOAD DESCRIPTION	CKT
1	MECH: HPU-2	-	3	80	-	5.00	5.00			-	80	3	-	MECH: HPU-1	2
3	{ }	-	-	-	-			5.00	5.00	-	-	-	-	{ }	4
5	{ }	-	-	-	-					5.00	5.00	-	-	{ }	6
7	MECH: FCU-2.12/2.11A/2.11B/2.9/2.7/2.10	-	2	15	-	0.21	0.53			-	15	1	-	EF-5	8
9	{ }	-	-	-	-			0.21	0.53	-	15	1	-	EF-6	10
11	MECH: FCU-3.3A/3.3B	-	2	15	-					0.07	1.00	-	15	2	-	UH-3	12
13	{ }	-	-	-	-	0.07	1.00			-	-	-	-	{ }	14
15	MECH: FCU-2.8A/2.8B/2.4	-	2	15	-			0.11	1.00	-	15	2	-	UH-4	16
17	{ }	-	-	-	-					0.11	1.00	-	-	{ }	18
19	MECH: EF-1/EF-3	-	1	15	-	0.12	0.37			-	15	2	-	MECH: FCU-3.5/3.6	20
21	MECH: EF-2/EF-4	-	1	15	-			0.12	0.37	-	-	-	-	{ }	22
23	MECH: UH-1	-	2	15	-					0.75	0.08	-	15	2	-	MECH: FCU-4.1/4.2/4.3/4.4	24
25	{ }	-	-	-	-	0.75	0.08			-	-	-	-	{ }	26
27	MECH: UH-2	-	2	15	-			0.75	0.23	-	15	2	-	MECH: FCU-1.2/1.4/1.6	28
29	{ }	-	-	-	-					0.75	0.23	-	-	{ }	30
31	REC: ROOF	-	1	20	-	0.36	0.37			-	15	2	-	MECH: FCU-1.3/1.5A/1.5B/1.7A/1.7B/1.8	32
33	SV-1	-	1	15	-			0.16	0.37	-	-	-	-	{ }	34
35	{ }	-	-	-	-					0.16	0.21	-	15	2	-	MECH: FCU-3.1A/3.1B/3.2A/3.2B/3.4A/3.4B	36
37	SV-2	-	1	15	-	0.16	0.21			-	-	-	-	{ }	38
39	{ }	-	-	-	-			0.16	0.32	-	20	1	-	REC: CP-1 (FCU-1.3)	40
41	SPACE	-	1	-	-					-	20	1	-	SPARE	42
						6.67	7.56	6.51	7.82	6.84	7.52				
						14.23		14.33		14.36					
						118.5A		119.4A		119.7A					

AUXILIARIES

a	AFCI BREAKER	X	GROUND BUS
b	GFCI BREAKER (5mA)		SERVICE ENTRANCE LABEL
c	GFEP BREAKER (30mA)		INTEGRAL SPD/TVSS
d	SHUNT TRIP BREAKER		200% NEUTRAL BUS & LUGS
e	HANDLE PADLOCK		ISOLATED GROUND BUS
f	HANDLE CLAMP		SPLIT BUS
g	RED CB HANDLE		FEED THRU LUGS
			SUB FEED LUGS

TOTAL CONNECTED LOAD	42.91
TOTAL DEMAND LOAD	39.91
DEMAND AMPS	110.8

LOAD SUMMARY NOTES

NOTE 1: FIRST 10KVA AT 100% AND REMAINDER AT 50%.
NOTE 2: COOLING CYCLE IS GREATER THAN HEATING CYCLE, THEREFORE COOLING CYCLE IS USED.
NOTE 3: DEMAND FACTOR FROM NEC TABLE FOR KITCHEN EQUIPMENT OTHER THAN DWELLING UNIT.
NOTE 4: DEMAND FACTOR FROM NEC TABLE FOR ELEVATORS.

LOAD SUMMARY (KVA)

LOAD TYPE	CONNECTED	DF	DEMAND
LIGHTING	0.00	100%	0.00
RECEPTACLE (SEE NOTE 1)	0.36	--	0.36
EQUIPMENT: CONTINUOUS	0.00	100%	0.00
EQUIPMENT: NON-CONTINUOUS	0.00	100%	0.00
MOTOR	0.00	100%	0.00
COOLING (SEE NOTE 2)	39.55	100%	39.55
HEATING (SEE NOTE 2)	3.00	0%	0.00
STANDBY	0.00	0%	0.00
OTHER	0.00	100%	0.00
KITCHEN (SEE NOTE 3)	0.00	100%	0.00
ELEVATOR (SEE NOTE 4)	0.00	100%	0.00

National Trust for Historic Preservation

PROJECT
President Woodrow Wilson House
Mechanical Systems Improvements
2340 S Street NW
Washington, DC 20008

Owner
The National Trust for Historic Preservation
600 14th Street NW Suite 500
Washington, DC 20005
(317) 574-9409

Mark Stoner, AIA NCARB
Senior Director of Preservation Architecture
(202) 588-6183

Mechanical/Electrical/Plumbing Engineer
Henry Adams
600 Baltimore Ave, Suite 400
Baltimore, MD 21204
(410) 296-6500

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26

DRAWN BY: WC
PROJ. NO.: 22-N005
APPROVED BY: NTS

SHEET TITLE
PANELBOARD SCHEDULES

SHEET NO.
E-803