

# GUNBOAT PHILADELPHIA TEMPORARY CONSERVATION SPACE

NATIONAL MUSEUM OF AMERICAN HISTORY  
1300 CONSTITUTION AVE NW  
WASHINGTON DC 20560

SF PROJECT NUMBER 2003106

**ARCHITECTURE:**

architrave pc architects  
420 10th Street SE  
Washington DC 20003  
202.544.1640

**STRUCTURAL:**

McMullan & Associates  
11800 Sunrise Valley Drive, Suite 430  
Reston, VA 20191  
703.556.0651

**MEP ENGINEERING:**

James Posey Associates  
11155 Red Run Boulevard, Suite 310  
Owings Mills, MD 21117  
410.265.6100

**LIFE SAFETY:**

GHD  
14585 Avion Pkwy #150  
Chantilly, VA 20151  
703.488.9990

**SECURITY:**

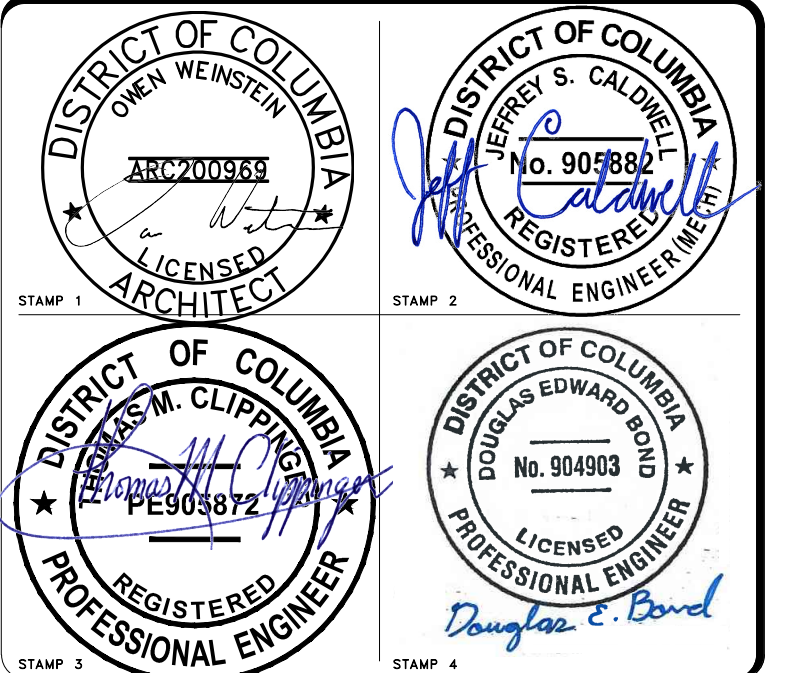
M2H Protection  
5100 Buckeystown Pike  
Frederick, MD 21704  
301.371.6047

**COST ESTIMATING:**

RIB US Cost  
241 Garrisonville Road, Suite 202  
Stafford, VA 22554  
703.415.0835

**NMAH**  
GUNBOAT  
PHILADELPHIA TEMP.  
CONSERVATION  
SPACE

FOR  
CONSTRUCTION



SMITHSONIAN FACILITIES  
APPROVAL BLOCK

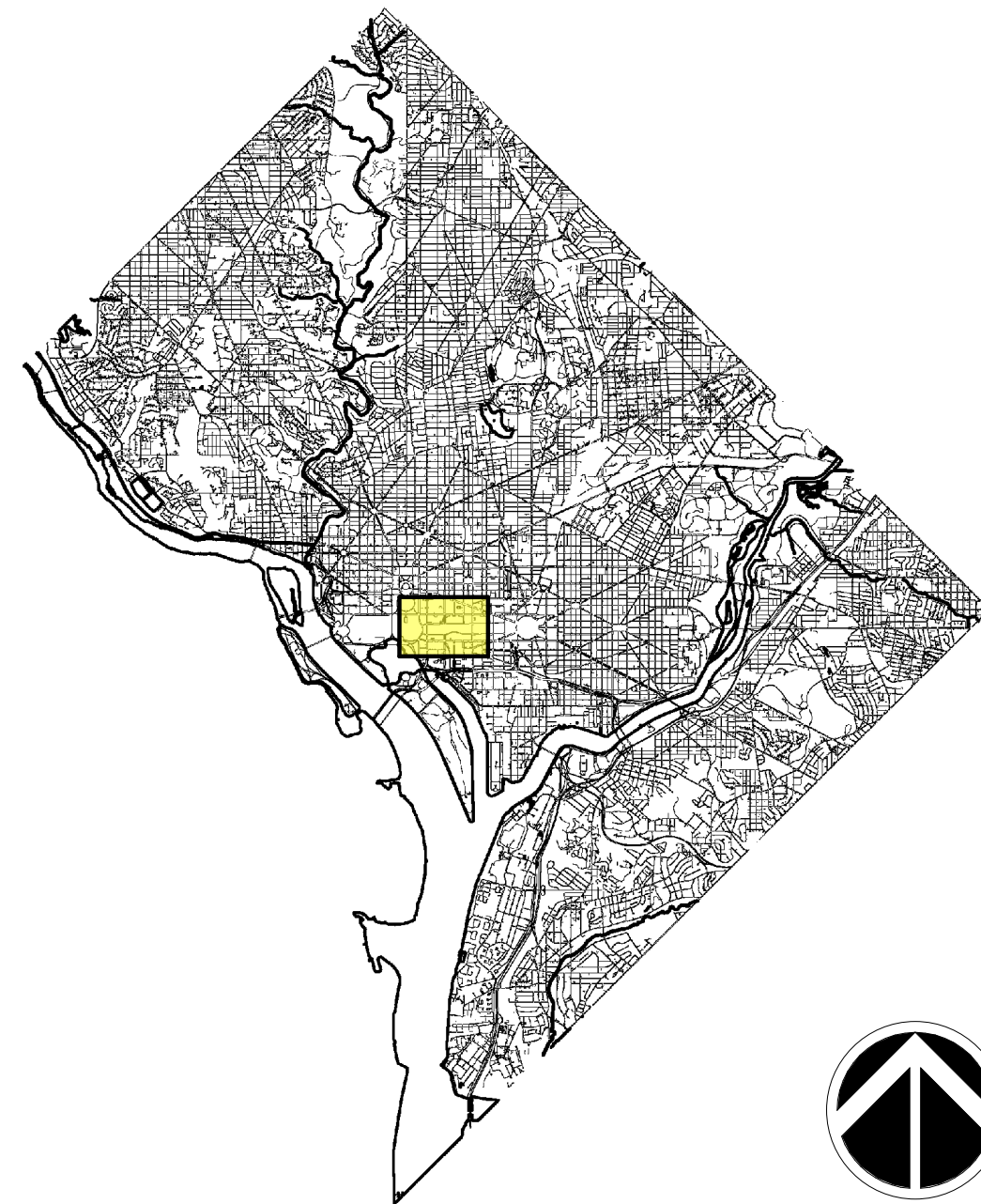
DM: \_\_\_\_\_  
DESIGN CHIEF: \_\_\_\_\_  
R.E.: \_\_\_\_\_  
OPPM: \_\_\_\_\_  
OFM&R: \_\_\_\_\_  
OSHEM: \_\_\_\_\_  
OPS: \_\_\_\_\_

THIS PROJECT IS APPROVED AS BEING IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF SMITHSONIAN INSTITUTION DIRECTIVE 410.

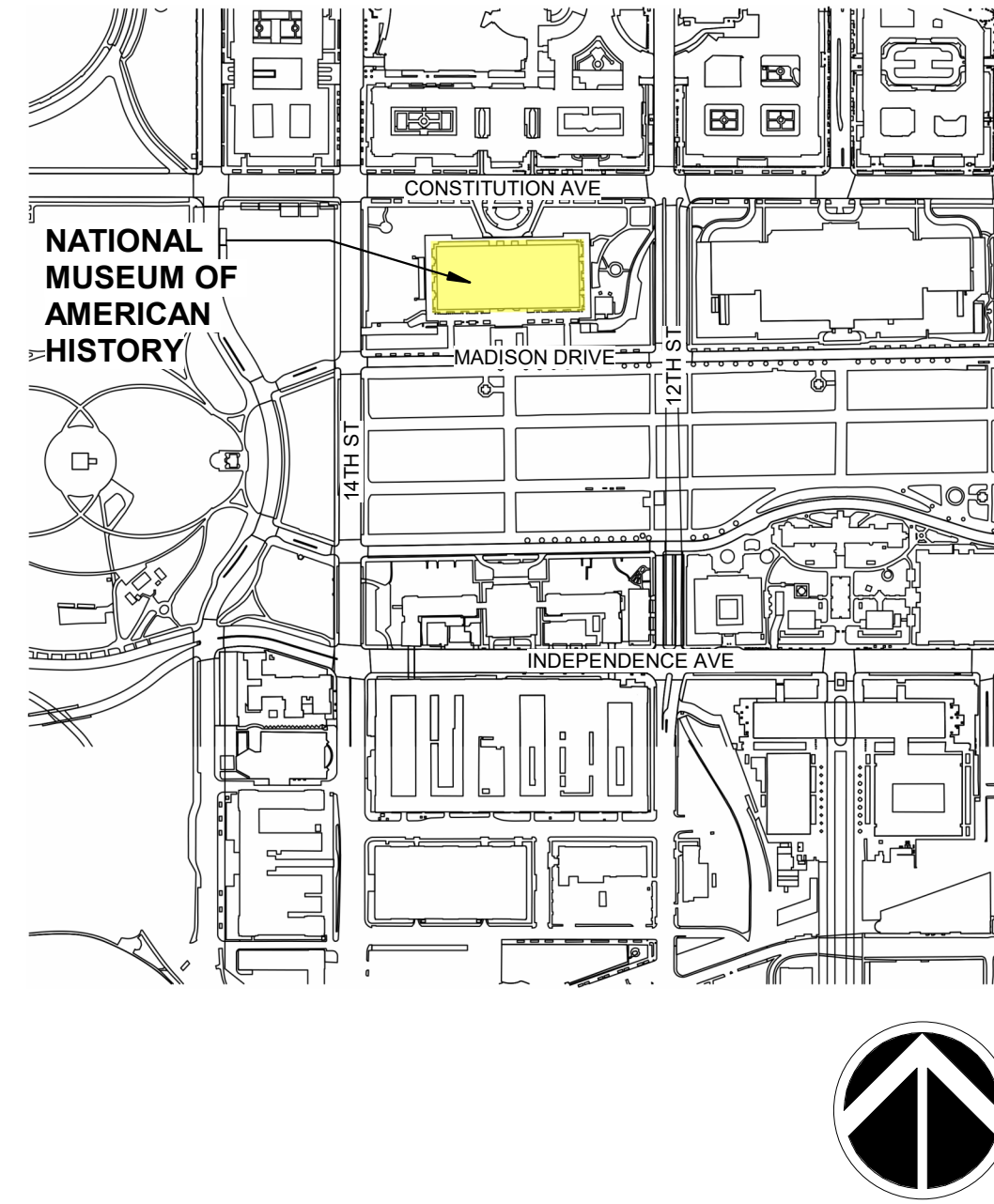
MICHAEL J. CARRANCHO, P.E., ASSOCIATE DIRECTOR, OEDC

DATE	07/12/24	REVISION	FINAL SUBMISSION
REVISION #	DATE	DESCRIPTION	

VICINITY MAP

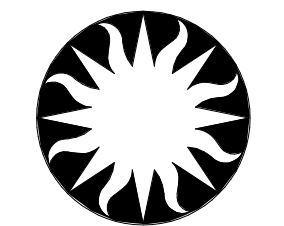


LOCATION MAP



**INDEX OF DRAWINGS**

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AL101FP	THIRD FLOOR PLAN - LIFE SAFETY	E-001	ELECTRICAL SYMBOLS AND ABBREVIATIONS
A-001	NOTES AND ABBREVIATIONS	ED101DP	THIRD FLOOR PLAN - ELECTRICAL DEMOLITION
AD101FP	FLOOR PLAN - DEMOLITION	EL101LP	THIRD FLOOR PLAN - LIGHTING
AD102CP	REFLECTED CEILING PLAN - DEMOLITION	EP101PP	THIRD FLOOR PLAN - POWER
A-101FP	FLOOR PLAN - NEW WORK	EP401EL	ELECTRICAL ELEVATIONS & DETAIL
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A-201EL	INTERIOR ELEVATIONS	E-602SH	ELECTRICAL SCHEDULES
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A-502DT	DETAILS	TY102FP	SECURITY NEW FLOOR PLAN
A-601SH	SCHEDULES	TY501DT	SECURITY DETAILS
S-100	STRUCTURAL NOTES AND DETAILS	TY502DT	SECURITY DETAILS
M-001	MECHANICAL SYMBOLS AND ABBREVIATIONS	TY601	SECURITY ONELINE DIAGRAM
M-101FP	THIRD FLOOR PLAN - HVAC - DEMOLITION		
M-102FP	THIRD FLOOR PLAN - HVAC - NEW WORK		
M-103FP	THIRD FLOOR PLAN - HVAC PIPING - NEW WORK		
M-104FP	FOURTH FLOOR PLAN - HVAC PIPING - NEW WORK		
M-500	DETAILS & DIAGRAMS		
M-600	SCHEDULES		
M-700	ATC SEQUENCE		



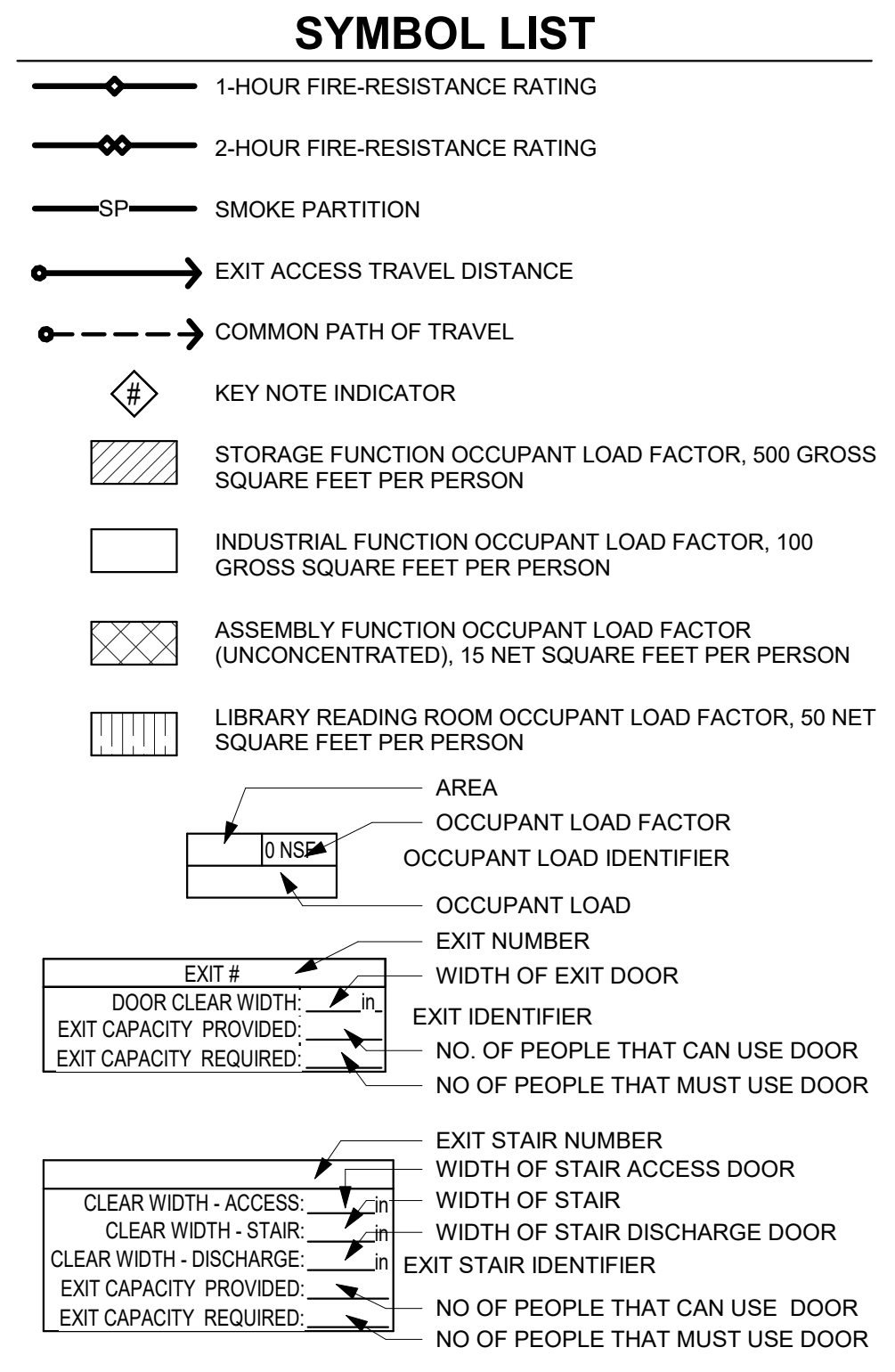
**Smithsonian Institution**

Smithsonian Facilities  
600 Maryland Avenue S.W., Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	COVER SHEET
WORKING STAFF	MM AH TS MM DESIGNED BY DRAWN BY CHECKED BY
SHEET NO.	G-001CS
1 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

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 AL001SH By Approver Enter Issue Date 100% FINAL SUBMISSION

ABBREVIATION	
ABBREVIATIONS	ABBREVIATION DESCRIPTION
ACTUAL	ACTUAL SEAT COUNT
ASSM	ASSEMBLY FUNCTION
BENCH	BENCH SEATING
CLASS	CLASSROOM FUNCTION
CP	COMMON PATH
DE	DEAD END CORRIDOR
ETR	EXISTING TO REMAIN
FIXED	FIXED SEATING FUNCTION
FT	FOOT
GSF	GROSS SQUARE FEET
IN	INCHES
INDS	INDUSTRIAL FUNCTION
LIB	LIBRARY READING ROOM FUNCTION
NA	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NUMBER
NSF	NET SQUARE FEET
OSHEM	OFFICE OF SAFETY, HEALTH, AND ENVIRONMENTAL MANAGEMENT
SF	SQUARE FOOT
STOR	STORAGE FUNCTION
TD	TRAVEL DISTANCE
VCC	VIRGINIA CONSTRUCTION CODE
WORK	WORKSHOP/VOCATIONAL FUNCTION

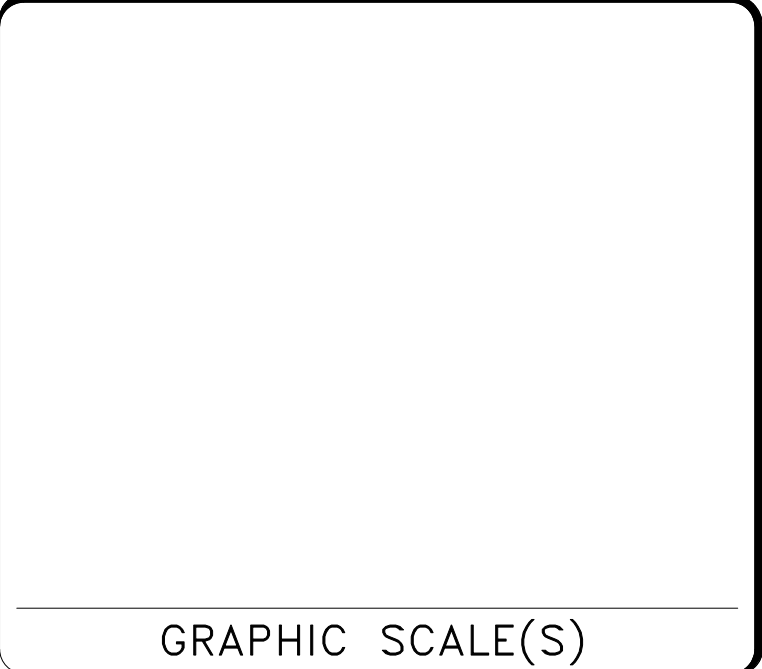
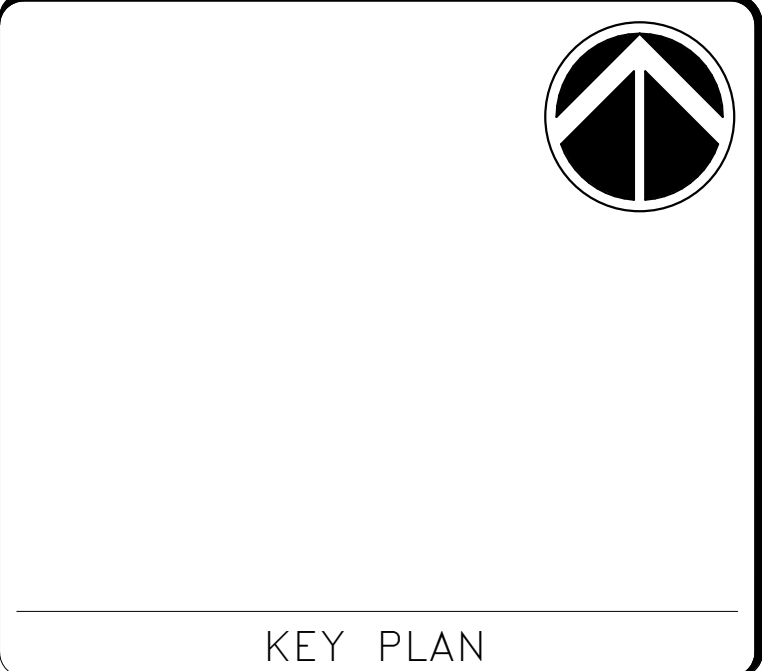


- ### CODE SUMMARY
- APPLICABLE CODES AND STANDARDS
    - SMITHSONIAN INSTITUTION FIRE PROTECTION AND LIFE SAFETY DESIGN MANUAL (FPLSDM), MAY 2018
    - SI SAFETY MANUAL, OCTOBER 2010
    - 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
    - 2018 INTERNATIONAL BUILDING CODE (IBC)
    - 2018 INTERNATIONAL FIRE CODE (IFC)
    - 2018 NFPA 101, LIFE SAFETY CODE
    - 2018 NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS
    - 2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
    - 2019 NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
    - 2021 NFPA 30, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE
    - 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
    - 2018 NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
    - 2019 NFPA 652, STANDARD ON THE FUNDAMENTALS OF COMBUSTIBLE DUST
    - NFPA 909, CODE FOR THE PROTECTION OF CULTURAL RESOURCE PROPERTIES – MUSEUMS, LIBRARIES, AND PLACES OF WORSHIP
    - 2019 NFPA 914, CODE FOR FIRE PROTECTION OF HISTORIC STRUCTURES
  - CLASSIFICATION OF WORK - ALTERATION LEVEL 2 (IEBC 404) AND (TEMPORARY) CHANGE OF OCCUPANCY (IEBC 603 AND 605)
  - OCCUPANCY CLASSIFICATION
    - MIXED, NON-SEPARATED (IBC 508)
    - GROUP A-3 (ASSEMBLY) - MUSEUM
    - GROUP F-1 (INDUSTRIAL, GENERAL) - CONSERVATION SPACE
    - GROUP S-1 (STORAGE) - COLLECTIONS STORAGE, MECHANICAL AND ELECTRICAL SPACES
  - TYPE OF CONSTRUCTION
    - TYPE 1B (EXISTING TO REMAIN) (IBC CHAPTER 6)
    - CHANGE IN USE IS TO A LOWER-HAZARD CATEGORY (FROM 2 TO 3). HEIGHT AND AREA OF EXISTING BUILDING IS DEMED ACCEPTABLE. (IEBC 1011.5.2)
  - INTERIOR FINISH
    - WALL AND CEILING MATERIALS, PANELING, AND ACOUSTICAL TILE IS REQUIRED TO BE CLASS A OR B, WITH A MAXIMUM FLAME SPREAD INDEX OF 75, AND MAXIMUM SMOKE DEVELOPED INDEX OF 450, AS TESTED IN ACCORDANCE WITH ASTM E-84. (FPLSDM 2.5).
    - INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS ARE REQUIRED TO COMPLY WITH DOCFF-1 "PILL TEST". (CPSC 16 CFR, PART 1630).
  - SPRINKLER PROTECTION (IBC 903)
    - FULLY SPRINKLERED
  - OCCUPANT LOAD FACTORS (NFPA 101, 7.3.1.2)
    - ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED (TABLES AND CHAIRS) - 15 NET
    - INDUSTRIAL (GENERAL) - 100 GROSS
    - STORAGE USE - 500 GROSS
  - MEANS OF EGRESS SIZING
    - COMPONENTS OTHER THAN STAIRWAYS - 0.20 INCHES PER OCCUPANT (NFPA 101, 7.3)
  - MINIMUM WIDTH OF EGRESS COMPONENTS
    - DOORS - 32 INCHES (NFPA 101, 7.2.1.2.3)
    - PATHWAYS IN GALLERIES - 60 INCHES (FPLSDM 3.3)
  - COMMON PATH OF EGRESS TRAVEL
    - GROUP A (ASSEMBLY) - 75 FEET WHERE SERVING NOT MORE THAN 50 PEOPLE, 20 FEET WHERE SERVING MORE THAN 50 PEOPLE
    - GROUP F-1 (INDUSTRIAL, GENERAL) AND GROUP S-1 (STORAGE) - 100 FEET
  - EXIT ACCESS TRAVEL DISTANCE
    - GROUP A (ASSEMBLY) - 250 FEET
    - GROUP F-1 (INDUSTRIAL, GENERAL) - 250 FEET
    - GROUP S-1 (STORAGE) - 400 FEET

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

architrave p.c., architects  
 420 10th street s.e.  
 washington, d.c. 20003  
 GHD Inc.  
 14501 George Carter Way Suite 102  
 Chantilly VA USA 20151  
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 W www.ghd.com



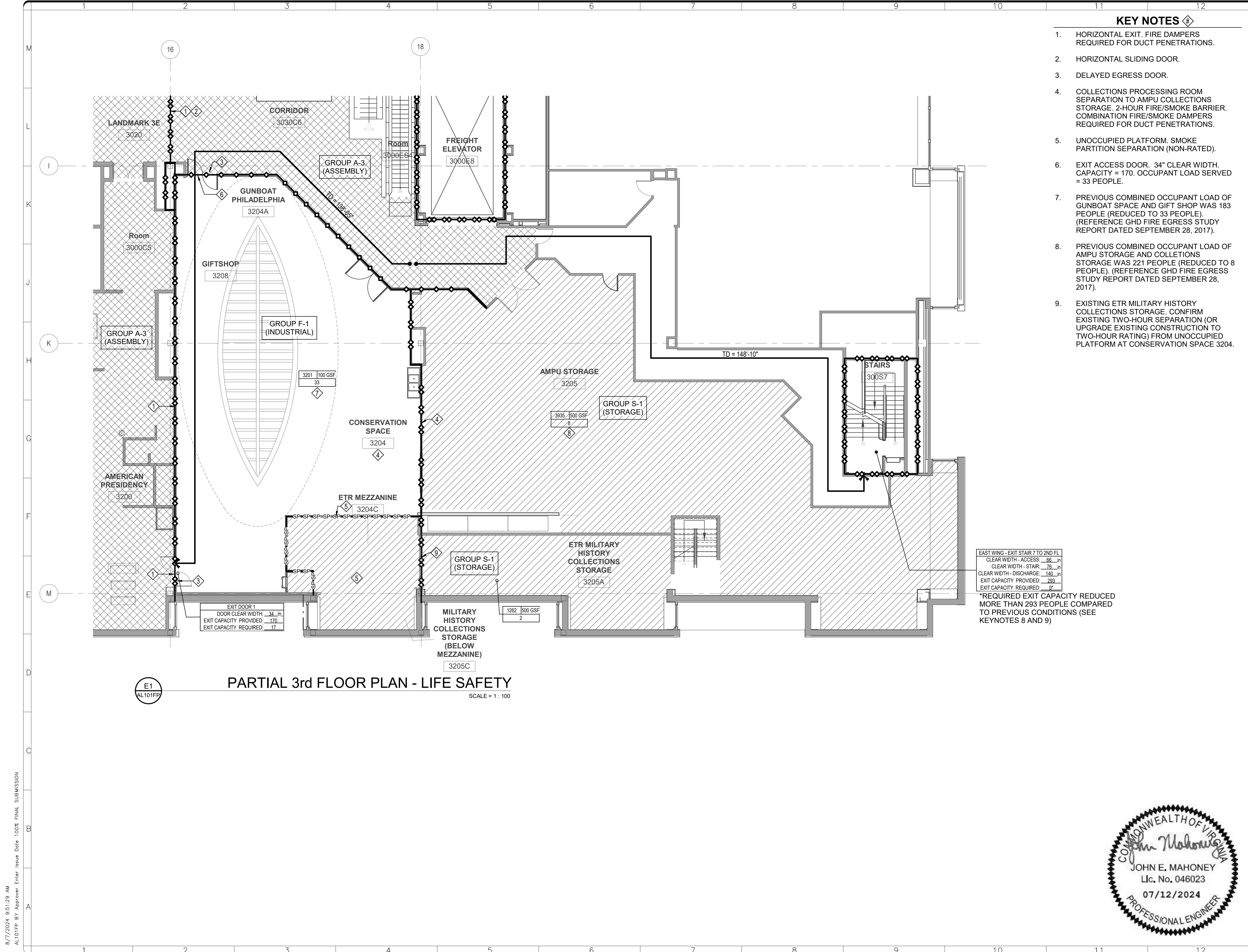
DATE	07/12/24	Revision	100% FINAL SUBMISSION
Revision #	DATE	Revision Description	

**Smithsonian Institution**  
 Smithsonian Facilities  
 600 Maryland Avenue S.W. Suite 5001  
 Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
QPED PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	REFERENCE SHEET -- LIFE SAFETY
WORKING STAFF	DESIGNED BY: JEM    DRAWN BY: LDB    CHECKED BY: JEM



SHEET NO.	AL001SH
2 of 41	DISCIPLINE    TYPE    SEQUENCE    DRAWING TYPE



**PARTIAL 3rd FLOOR PLAN - LIFE SAFETY**  
SCALE = 1 : 100

**KEY NOTES**

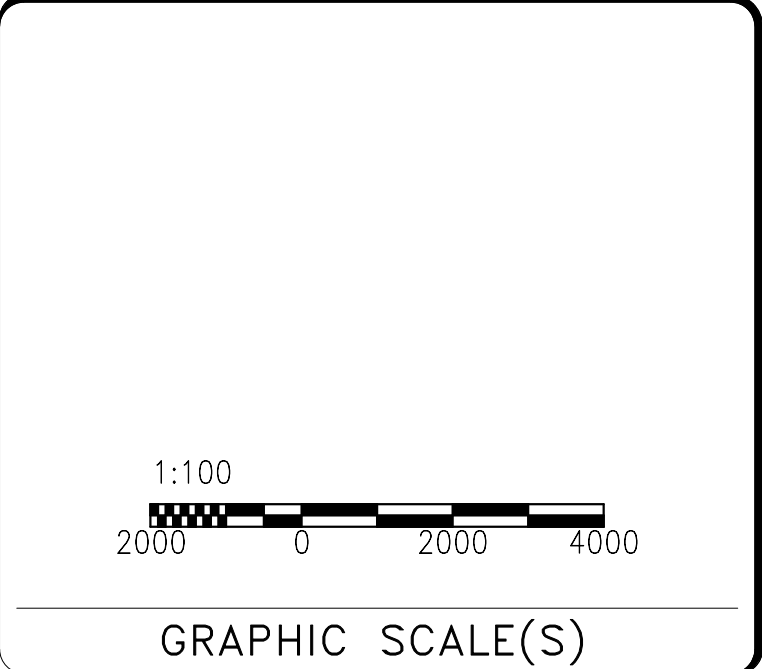
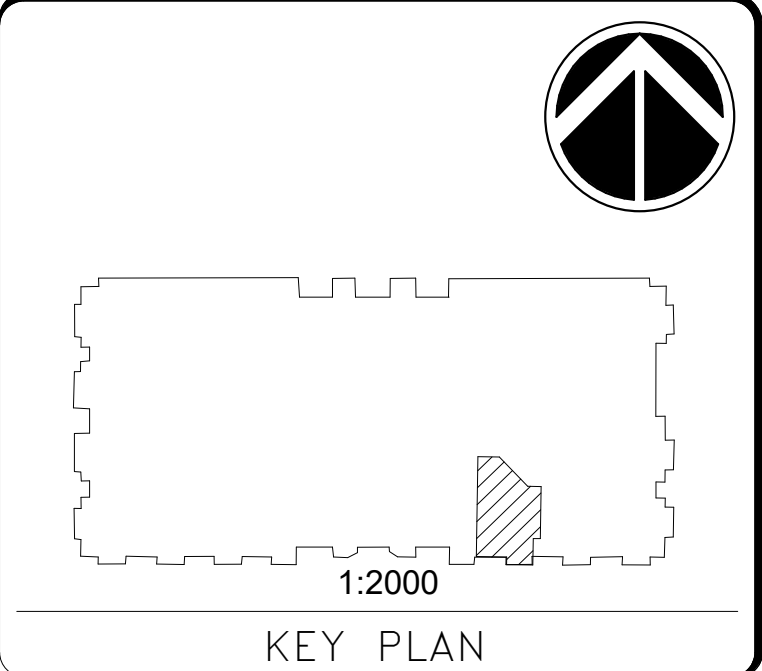
1. HORIZONTAL EXIT. FIRE DAMPERS REQUIRED FOR DUCT PENETRATIONS.
2. HORIZONTAL SLIDING DOOR.
3. DELAYED EGRESS DOOR.
4. COLLECTIONS PROCESSING ROOM SEPARATION TO AMPU COLLECTIONS STORAGE. 2-HOUR FIRE/SMOKE BARRIER. COMBINATION FIRE/SMOKE DAMPERS REQUIRED FOR DUCT PENETRATIONS.
5. UNOCCUPIED PLATFORM. SMOKE PARTITION SEPARATION (NON-RATED).
6. EXIT ACCESS DOOR. 34" CLEAR WIDTH. CAPACITY = 170. OCCUPANT LOAD SERVED = 33 PEOPLE.
7. PREVIOUS COMBINED OCCUPANT LOAD OF GUNBOAT SPACE AND GIFT SHOP WAS 183 PEOPLE (REDUCED TO 33 PEOPLE). (REFERENCE GHD FIRE EGRESS STUDY REPORT DATED SEPTEMBER 28, 2017).
8. PREVIOUS COMBINED OCCUPANT LOAD OF AMPU STORAGE AND COLLECTIONS STORAGE WAS 221 PEOPLE (REDUCED TO 8 PEOPLE). (REFERENCE GHD FIRE EGRESS STUDY REPORT DATED SEPTEMBER 28, 2017).
9. EXISTING ETR MILITARY HISTORY COLLECTIONS STORAGE. CONFIRM EXISTING TWO-HOUR SEPARATION (OR UPGRADE EXISTING CONSTRUCTION TO TWO-HOUR RATING) FROM UNOCCUPIED PLATFORM AT CONSERVATION SPACE 3204.

EAST WING - EXIT STAIR 7 TO 2ND FL  
 CLEAR WIDTH - ACCESS: 66 in  
 CLEAR WIDTH - STAIR: 76 in  
 CLEAR WIDTH - DISCHARGE: 140 in  
 EXIT CAPACITY PROVIDED: 293  
 EXIT CAPACITY REQUIRED: 0\*

\*REQUIRED EXIT CAPACITY REDUCED MORE THAN 293 PEOPLE COMPARED TO PREVIOUS CONDITIONS (SEE KEYNOTES 8 AND 9)

**NMAH  
GUNBOAT  
PHILADELPHIA TEMP.  
CONSERVATION  
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DATE	07/12/24	REVISION	100% FINAL SUBMISSION
DESIGNER		DESIGNER	
CHECKER		CHECKER	

  
**Smithsonian  
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BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
Q/ED PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	THIRD FLOOR - LIFE SAFETY
WORKING STAFF	JEM LDB JEM
SHEET NO.	AL101FP
3 of 41	

8/7/2024 9:51:29 AM AL101FP BY Approver Enter Issue Date 100% FINAL SUBMISSION

### DRAWING ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	LDG	LANDING
ABV	ABOVE	LF	LINEAR FEET (FOOT)
ACC	ACCESSIBLE	LOC	LOCATION
AD	ACCESS DOOR	LT	LIGHT
ADA	AMERICANS WITH DISABILITIES ACT	LVR	LOUVER
AFF	ABOVE FINISHED FLOOR	M	MAXIMUM
AHU	AIR HANDLING UNIT	MECH	MECHANICAL
AMPU	A MORE PERFECT UNION (STORAGE)	MECH RM	MECHANICAL ROOM
APC	ACOUSTICAL PANEL CEILING	MIN	MINIMUM
B		MINUTE	
BH	BEAM HEIGHT	MISC	MISCELLANEOUS
BLDG	BUILDING	MM	MILLIMETER
BOT	BOTTOM	MOD	MODIFY
C		MORT	MORTICED BOTTOM SEAL
CD	CONSTRUCTION DOCUMENTS	MTL	METAL
CFM	CUBIC FEET PER MINUTE	MEZZ	MEZZANINE
CH	CEILING HEIGHT	MPE	MECHANICAL PLUMBING ELECTRICAL
CLG	CEILING	N	NORTH
CMU	CONCRETE MASONRY UNIT	NA	NORTH NOT APPLICABLE
COMM CONC	COMMUNICATION CONCRETE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
COORD	COORDINATE	NMAH	NATIONAL MUSEUM OF AMERICAN HISTORY
CORR	CORRIDOR	NO	NUMBER
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE	NP	NO PAINT
CTR	CENTER	NTS	NOT TO SCALE
CU FT	CUBIC FEET	O	ON CENTER
D		OC	
D	DEPTH	P	PRECAST
DEMO	DEMOLITION	PCC	CONCRETE
DEPT	DEPARTMENT	PERIM	PERIMETER
DET	DETAIL	PH	PHASE
DIA	DIAMETER	PLAS	PLASTER
DIR	DIRECTION	PNL	PANEL
DIST	DISTANCE	PR	PAIR
DN	DOWN	PSF	POUNDS PER SQUARE FOOT
DOC	DOCUMENT	PSI	POUNDS PER SQUARE INCH
DR	DOOR	PT	PAINT
E		PWR	POWER
EA	EACH	POLY	POLYETHYLENE
EF	EACH FACE	R	REFLECTED
EL	ELEVATION	RCP	CEILING PLAN
ELEV	ELEVATOR	REC	RECESSED
ETR	EXISTING TO REMAIN	REF	REFERENCE
EXP	EXPOSED	REM	REMOVABLE
EX	EXTERIOR	RESIL	RESILIENT
EXST	EXISTING	RTF	RESILIENT TILE FLOORING
EXT	EXTINGUISHER	RM	ROOM
F		RO	ROUGH
FA	FIRE ALARM	R&R	REMOVE AND REINSTAL
FE	FIRE EXTINGUISHER	S	SCHEDULE
FIN	FINISH	SD	SMOKE DETECTOR
FIXT	FIXTURE	SF	SQUARE FOOT (FEET)
FLEX	FLEXIBLE	SIM	SIMILAR
FLR	FLOOR	SI	SMITHSONIAN INSTITUTION
FR	FIRE RESISTANT	SMM	SQUARE MILLIMETER
FRTW	FIRE RETARDANT TREATED WOOD FEET	SPEC	SPECIFICATION
FT		SQ	SQUARE
G		S/S	STAINLESS STEEL
GC	GENERAL CONTRACTOR	ST	STAIRS
GP	GUNBOAT PHILADELPHIA	STL	STEEL
GWB	GYPSTUM WALL BOARD	STOR	STORAGE
H		T	TREAD
HDW	HARDWARE	TEMP	TEMPORARY
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)	TS	TRANSITION STRIP
HORIZ	HORIZONTAL	UL	TYPICAL
HR	HOUR	U	UNDERWRITER'S LABORATORY UNLESS NOTED OTHERWISE
HT	HEIGHT	UL	
I		U.N.O.	
IBC	INTERNATIONAL BUILDING CODE	V	VERTICAL
INSUL	INSULATION	VIF	VERIFY IN FIELD
INT	INTERIOR	W	WITH
ILO	IN LIEU OF	W/	
K			
kPa	KILOPASCAL		

### NUMBERING

#### CODES

DISCIPLINE CODES (for both model and sheet files)

A - Architectural  
C - Civil  
E - Electrical  
F - Fire Protection  
G - General  
M - Mechanical  
P - Plumbing  
S - Structural

DISCIPLINE CODES (for both model and sheet files Smithsonian only)

AA - Accessibility  
EV - Elevator  
EX - Exhibits  
GR - Graphics  
HP - Historic - Preservation  
SC - Security  
SS - Special - Systems

SHEET TYPE DESIGNATORS (for sheet files only)

0 - General (Symbols, Legends, Notes)  
1 - Plans (including Reflected Ceiling Plans)  
2 - Elevations  
3 - Sections  
4 - Large Scale (plans, elevations, etc.)  
5 - Details  
6 - Schedules and Diagrams  
7 - User Defined (Elevators and Stair plans, details, sections)  
8 - User Defined (non-architecture)  
9 - 3D Views, Interior Details, Partition Types, Window Types

DRAWING TYPE CODES (for model files, specific to all disciplines)

FP - Floor Plan  
DP - Demolition Plan  
SP - Site Plan  
QP - Equipment Plan  
XP - Existing Plan  
RO - Roof Plan  
EL - Elevation  
SC - Section  
DT - Detail  
SH - Schedule  
3D - Isometric/3D  
DG - Diagrams

DRAWING TYPE CODES (discipline specific)

General  
BS - Border Sheet  
KP - Key Plan

Architectural/Interiors  
EP - Enlarged Plan  
CP - Ceiling Plan  
RP - Furniture Plan  
NP - Finish Plans

Structural  
FP - Framing Plan  
NP - Foundation Plan

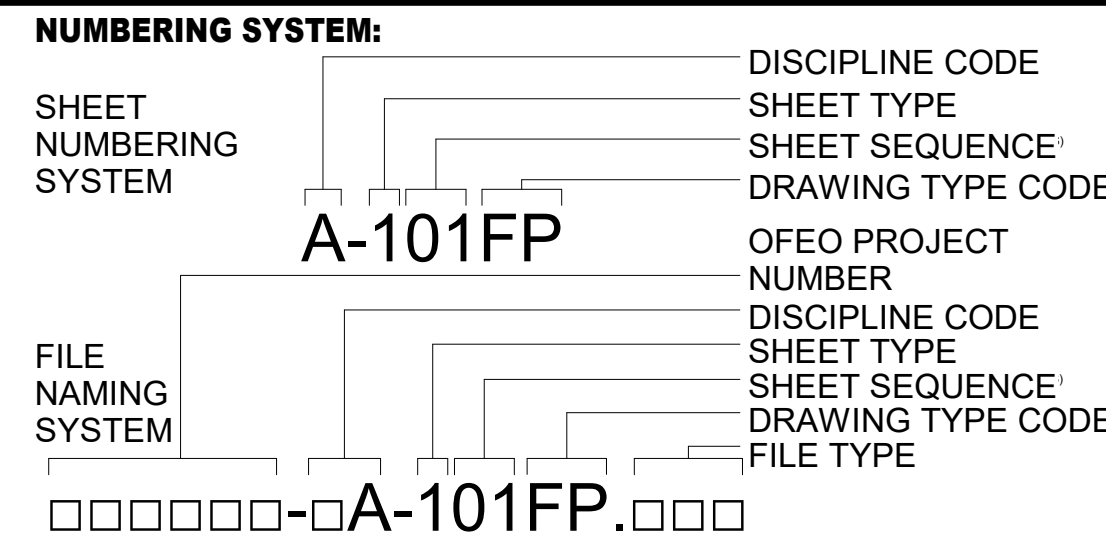
Fire - Protection  
VP - Evacuation Plan  
KP - Sprinkler Plan

Mechanical  
CP - Control Plan  
HP - HVAC - Ductwork Plan  
PP - Piping Plan

Plumbing  
PP - Plumbing Plan

Electrical  
CP - Communication  
GP - Grounding  
LP - Lighting  
PP - Power

### INDEX OF DRAWINGS

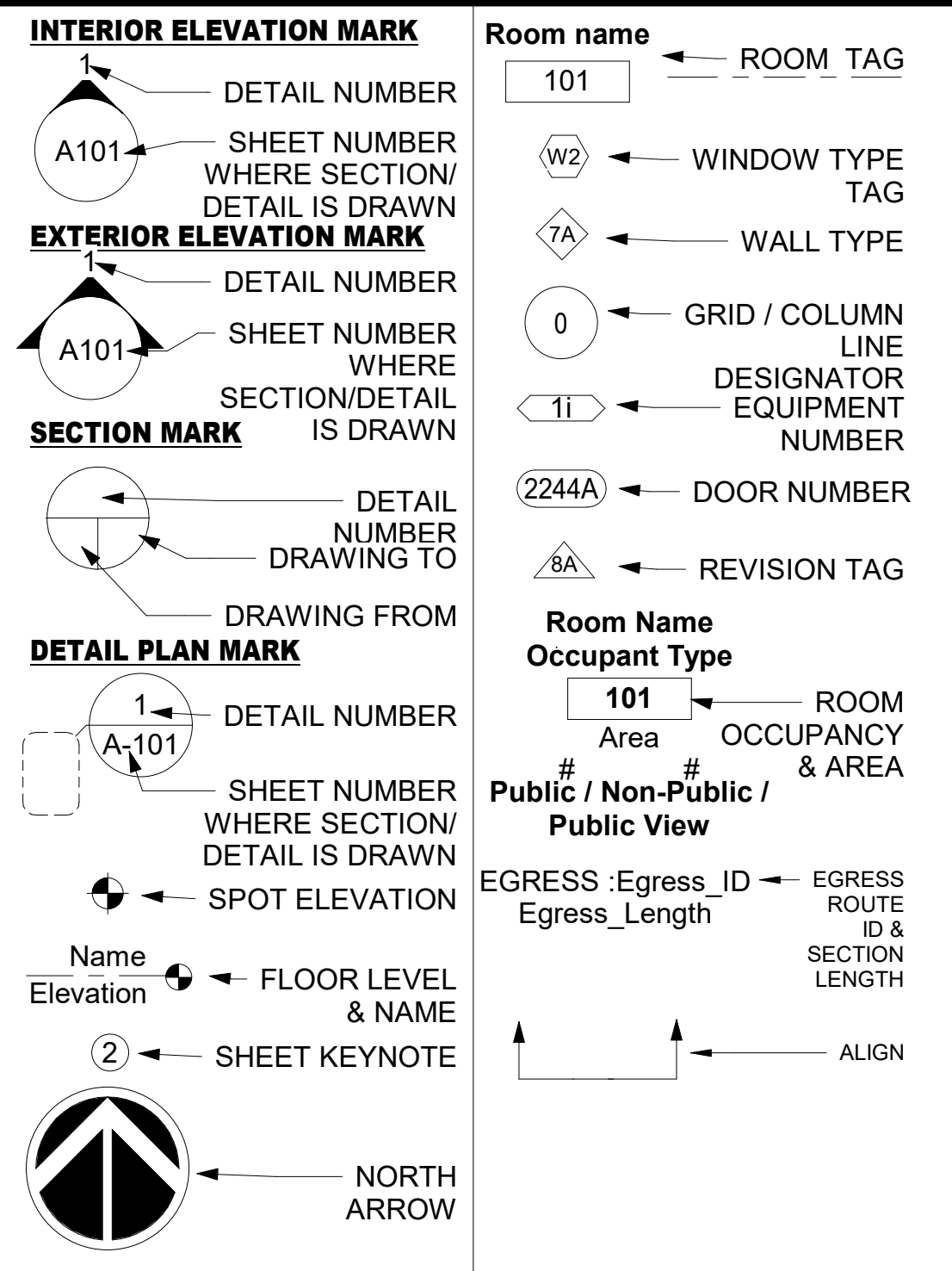


### DESCRIPTION OF PROJECT

**BASE BID**

- PROTECTION OF ARTIFACTS AND BUILDING FABRIC, INCLUDING GUNBOAT PHILADELPHIA
- DEMOLITION OF WALLS, PLATFORMS, AND ELEMENTS WITHIN NEW CONSERVATION SPACE; MAINTAIN COLLECTIONS STORAGE HOUSED IN UNDER MEZZANINE STRUCTURE
- CONSTRUCTION OF DEDICATED CONSERVATION SPACE TO SUPPORT PRESERVATION OF GUNBOAT PHILADELPHIA
- REFER TO CONSTRUCTION DRAWINGS & SPECIFICATIONS
- ALL WORK IS BASE BID UNLESS NOTED OTHERWISE.
- SI IS RESPONSIBLE FOR ALL OBJECT HANDLING AND MOVEMENT OF THE GUNBOAT.

### ANNOTATION CALLOUTS/DRAWING SYMBOLS



### GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.
- INSTALL ALL WORK ON THIS PROJECT IN ACCORDANCE WITH APPLICABLE CODE AND REGULATIONS.
- ALL ITEMS ARE NEW UNLESS OTHERWISE DESIGNATED.
- ALL DIMENSIONS ARE IN MILLIMETERS AND FEET-INCHES UNLESS OTHERWISE NOTED.
- THE DRAWINGS HAVE BEEN DEVELOPED THROUGH USE OF EXISTING BUILDING DRAWINGS AND FIELD OBSERVATION. BEFORE STARTING WORK, REVIEW EXISTING BUILDING DRAWINGS AND IMMEDIATELY BRING ANY CONDITION CHANGE OR INFORMATION FOUND TO BE DIFFERENT THAN SHOWN TO THE ATTENTION OF THE COTR.
- TO BE THAT ALL NEW CONSTRUCTION INSTALLED IN EXISTING FABRIC IS STRUCTURALLY SOUND AND ABLE TO SUPPORT ITS OWN WEIGHT AS WELL AS THE WEIGHT OF ITEMS IT IS DESIGNED TO CARRY.
- DO NOT STACK MATERIALS IN SUCH A MANNER THAT WOULD CREATE CONCENTRATED LOADS.
- FULLY COORDINATE ALL WORK BETWEEN DISCIPLINES.
- PROVIDE 2 HR. FIRE STOPPING AT ALTERED EXISTING PENETRATIONS THROUGH PARTITIONS IN AREA OF WORK, U.N.O.
- MAINTAIN EGRESS PATHS THROUGH BUILDING AT ALL TIMES THE BUILDING IS OCCUPIED. IF EGRESS MUST BE TEMPORARILY BLOCKED, PROVIDE SIGNAGE DIRECTIONS TO OTHER EXITS. COORDINATE W/ COTR.
- PERFORM NO ON-SITE DEMOLITION WORK UNTIL ALL SUBMITTAL INFORMATION HAS BEEN SUBMITTED AND APPROVED.
- IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED DURING THE WORK, STOP WORK IMMEDIATELY AND NOTIFY COTR. HAZARDOUS MATERIALS WILL BE REMOVED BY SI UNDER A SEPARATE CONTRACT.
- WHEN WORK REQUIRES DISTURBANCE OF ORIGINAL BUILDING FABRIC FINISHES OR ASSEMBLIES, PATCH, REPAIR AND/OR REPAIR ASSEMBLIES USING MATERIAL AND METHODS IDENTICAL TO THE ORIGINAL INSTALLATIONS AND CREATE A FINISH CONDITION INDISTINGUISHABLE FROM ORIGINAL CONDITION.
- SEE SPEC SECTION 022000 "PHOTOGRAPHIC DOCUMENTATION" FOR PHOTOGRAPHS OF TYPICAL EXISTING CONDITIONS
- SUBMIT PROTECTION PLAN TO COTR FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.

### BUILDING SUMMARY

**PROJECT INFORMATION**

PROJECT NAME: CONCEPT DESIGN STUDY, GUNBOAT PHILADELPHIA - EXHIBITION DEMOLITION AND TEMPORARY PRESERVATION SPACE

ADDRESS: NMAH - 1300 CONSTITUTION AVENUE NW, WASHINGTON DC 20560

PROPOSED USE: CONSERVATION SPACE

OWNER-CONTACT PERSON: LINDSEY VANDERDRAY

PHONE: 202-633-8769

**APPLICABLE CODES**

- BUILDING CODE: 2018 IBC
- MECHANICAL: 2018 IMC
- PLUMBING: 2018 IPC
- ELECTRICAL: 2018 IEC
- FIRE CODE: 2018 IFC
- LIFE SAFETY CODE: 2018 NFPA 101
- ACCESSIBILITY CODE: SGAED
- ENERGY CODE: IECC, 2018

**BUILDING PLANNING**

OCCUPANCY: GROUPS A-3, F-1, S-1

MIXED OCCUPANCY? YES

REQUIRED FIRE SEPARATION:  
1-HR @ NEW WALL, 2 HR AT COLLECTIONS STORAGE

**FIRE SEPARATION OF REQUIREMENTS**

ITEM	REQ'D RATING / HR	
- BUILDING FIRE COMPARTMENTS	2-HR	EXISTING CMU
- CONSERVATION SPACE TO COLLECTIONS/STORAGE	2-HR	UPGRADE EXISTING 1-HR WALL TO 2-HR. APPLY TYPE X GWB BOTH SIDES
- PUBLIC SPACE TO CONSERVATION SPACE	1-HR	UL #V-450 OR SIM.

**TYPE OF CONSTRUCTION**

CONSTRUCTION TYPE: 1B

**ESSENTIAL FACILITY (CHAPTER 16, IBC)**

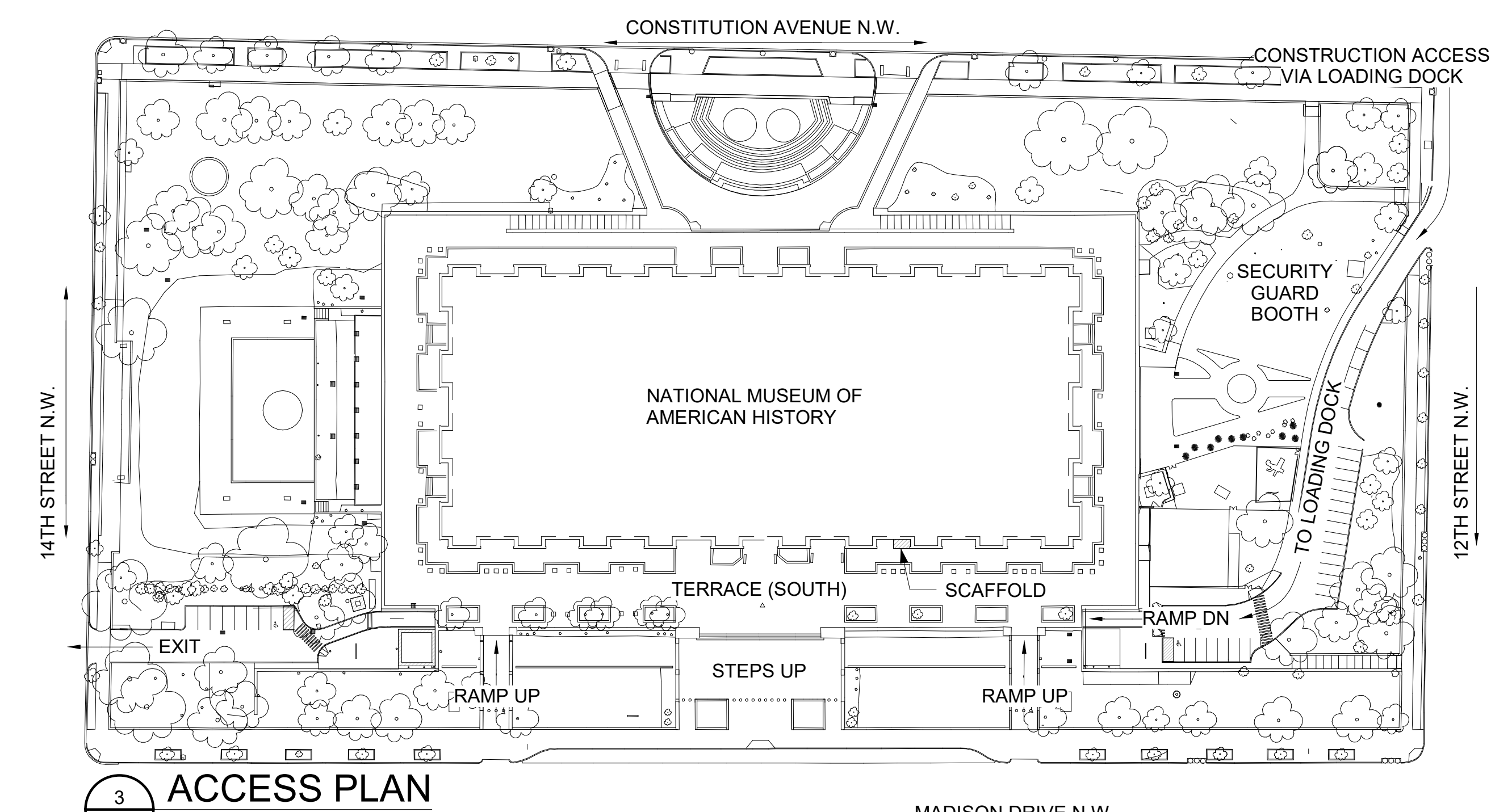
ESSENTIAL FACILITY? NO

**GENERAL BUILDING LIMITATIONS**

- HEIGHT OF BUILDING: 3.322 M (109' FROM GRADE TO HIGHEST ROOF STRUCTURE)
- NUMBER OF STORIES: 5 STORY W/ BASEMENT BELOW GRADE
- MAXIMUM SINGLE FLOOR AREA: 5,760 SM (62,101 SF) AT 5TH FLOOR
- TOTAL AREA OF BUILDING: 74,306 GSM (799,825 GSF)
- PENTHOUSE AND ROOF STRUCTURE: YES
- HIGH RISE: NO
- PARKING SPACES PROVIDED: NO (CONTRACTOR)
- PARKING SPACES REQUIRED: NONE (CONTRACTOR)
- ACCESSIBLE PARKING SPACES PROVIDED: N/A

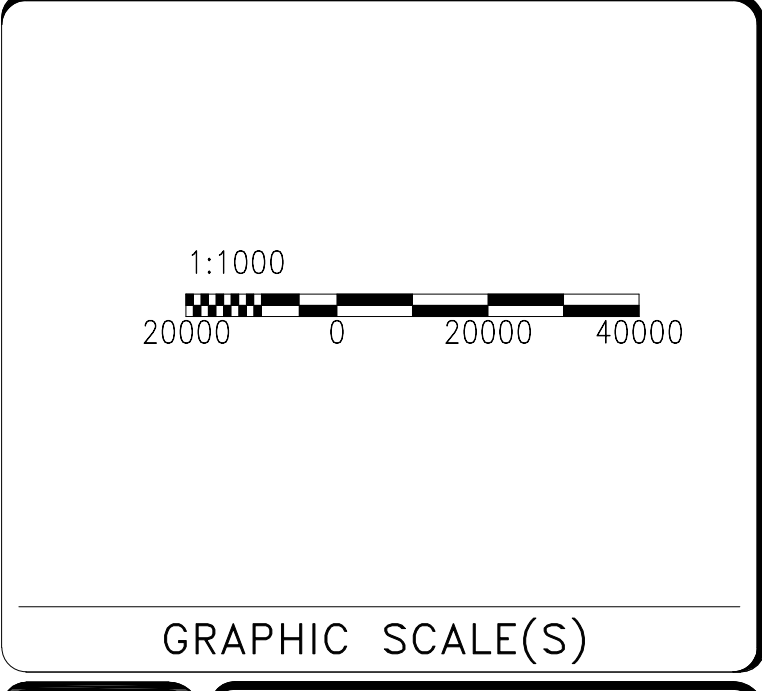
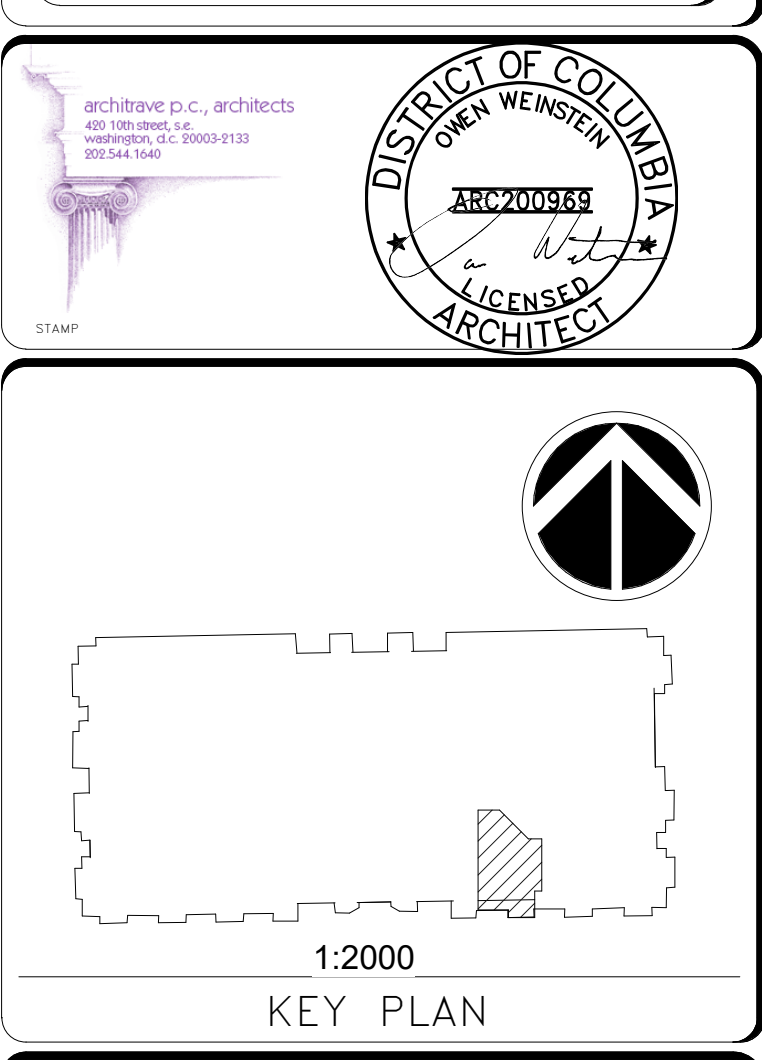
**FIRE PROTECTION SYSTEMS**

- FIRE EXTINGUISHING SYSTEM: YES
- STANDPIPE SYSTEM: YES
- TYPE: FULL SYSTEM; 2-FIRE DEPARTMENT CONNECTIONS
- SMOKE CONTROL: YES AT ATRIUM



# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

## FOR CONSTRUCTION



DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
VERSION #	DATE	DESCRIPTION	

Smithsonian Institution  
600 Maryland Avenue S.W., Suite 5001  
Washington, DC 20024-2520

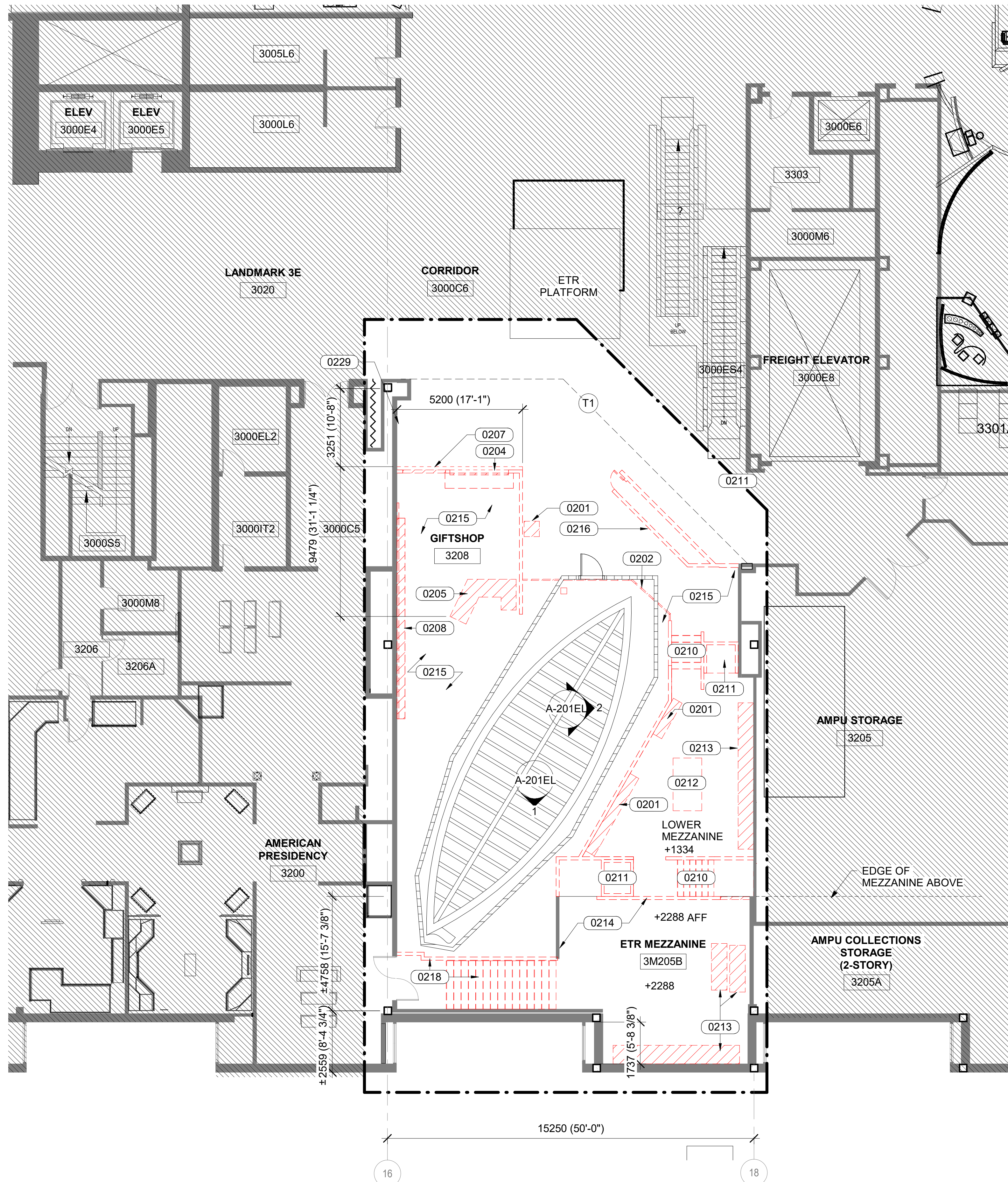
**BUILDING NAME:** NMAH  
**ADDRESS:** 1300 CONSTITUTION AVE NW WASHINGTON, DC 20560

**PROJECT TITLE:** GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE  
**SF PROJECT NUMBER:** 2003106  
**A/E PROJECT NUMBER:** 1401.35

**DRAWING TITLE:** NOTES AND ABBREVIATIONS

**WORKING STAFF:** MM AH TS MM  
DESIGNED BY: DRAWN BY: CHECKED BY:

**SHEET NO.:** A-001  
4 of 41



**1** DEMOLITION FLOOR PLAN  
 SCALE = 1 : 100

**GENERAL NOTES**

1. PRIOR TO GC COMMENCING WORK ON SITE, SMITHSONIAN STAFF WILL REMOVE ALL ARTICLES, OBJECTS, AND EXHIBITS TO BE KEPT AND STORED BY MUSEUM. ANY ITEMS LEFT IN EXHIBIT ARE TO BE REMOVED BY GC, EXCEPT FOR THE GUNBOAT PHILADELPHIA AND ITEMS NOTED TO BE SALVAGED.
2. BUILD PROTECTIVE BOX AROUND THE GUNBOAT PHILADELPHIA PRIOR TO STARTING OTHER WORK, EXCEPT FOR ARTICLES THAT MUST BE REMOVED TO BUILD THE PROTECTION. SUBMIT WORK PLAN TO COTR FOR REVIEW AND APPROVAL. REFER TO DETAILS ON A401.
3. DEMO ENTIRE LOWER MEZZANINE STRUCTURE & PARAPET. RELOCATE DUCTS, CONDUIT, AND PIPING BELOW MEZZANINE FLOOR.

**SHEET LEGEND**

- PROTECT GUNBOAT WITH FRT PLYWOOD ON FRT WOOD FRAMING & ALL SIDES AND ROOF. ROOF MUST SUPPORT 4.8 kPa (100 PSF) LIVE LOADING. PROVIDE VENTS EACH END; SEE DETAIL ON A-401EP.
- T1 PROVIDE TEMPORARY CONSTRUCTION PARTITION UNTIL NEW PERIMETER WALLS, WINDOWS, AND DOORS ARE ERECTED. BUILD CONSTRUCTION BARRIER FROM FLOOR TO CEILING. PROVIDE PAIR DOORS, 915 mm x 2134 mm (3'-0" x 7'-0"), FRAME, AND HASP WITH PADLOCK. COORDINATE LOCATION W/ COTR
- EXISTING TO REMAIN WALL
- DEMO WALL. HEIGHTS VARY
- OUTLINE OF OBJECT TO BE DEMOED
- ETR WON-DOOR - HORIZONTAL SLIDING FIRE ZONE SEPARATION
- LIMITS OF WORK (SEE MEP FOR REMOTE AREAS)
- 0201 DEMO ANNOTATION. SEE SHEET NOTES.

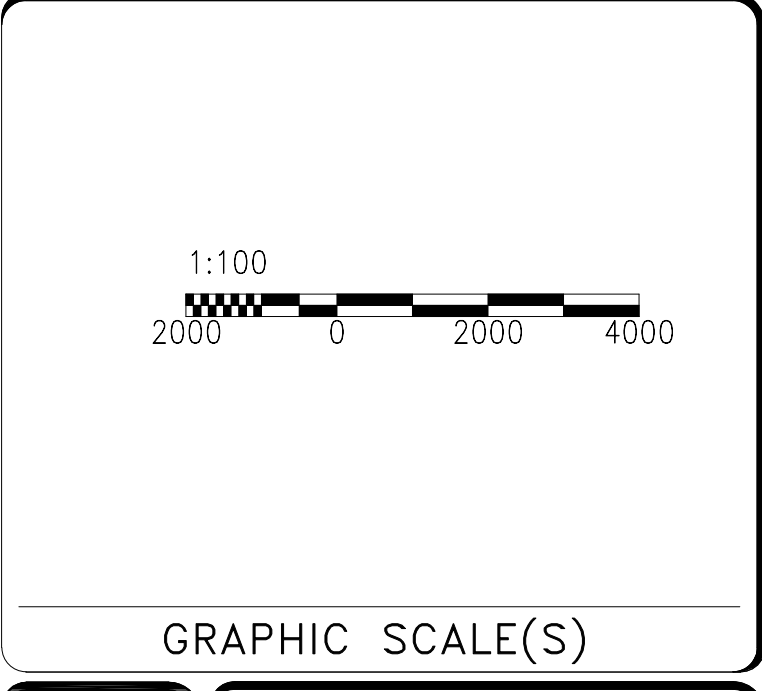
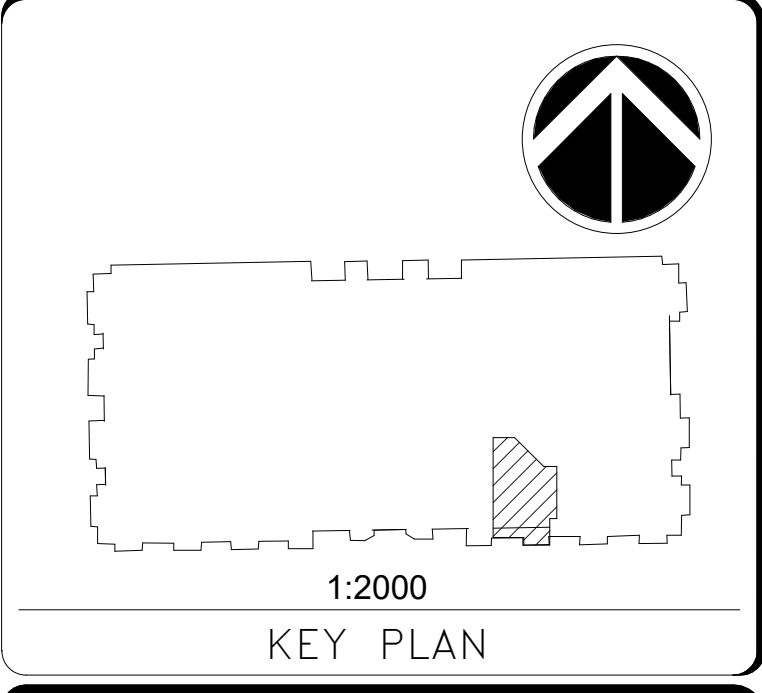
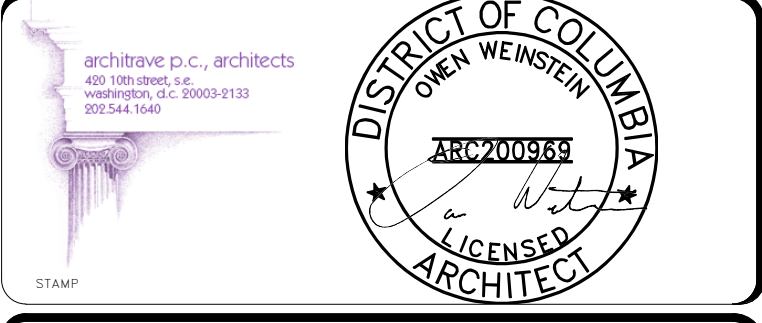
**SHEET NOTES**

- 0201 EXHIBITS REMOVED BY SMITHSONIAN IN ADVANCE OF WORK.
- 0202 DEMO RAIL SUPPORT (RAIL REMOVED) PRIOR TO BUILDING PROTECTION AROUND BOAT.
- 0204 DEMO +/- 4000 mm HIGH OVERHEAD ROLLING DOOR W/ S/S CLOSURE PLATE ABV, HT +/- 4000 mm (13'-1")
- 0205 DEMO CABINETS IN SHOP AREA.
- 0207 DEMO SCREEN WALL - GWB ONE SIDE STL STUDS, HT +/- 4000mm (13'-1")
- 0208 DEMO LIGHT SHELF & METAL SHELF SUPPORT SLATS (SHELVES REMOVED) DEMO 76mm FURRING W/ GWB FINISH
- 0210 DEMO STEPS BETWEEN MEZZANINE LEVELS. DEMO LANDINGS AT UPPER MEZZANINE.
- 0211 DEMO LIFTS BETWEEN MEZZANINE LEVELS. DEMO LANDINGS AT UPPER MEZZANINE.
- 0212 MODEL & CASE REMOVED BY SMITHSONIAN.
- 0213 REMOVE WOOD & GLASS CABINETS.
- 0214 ETR UPPER MEZZANINE & PARAPET. DEMO WOOD CAP FOR WALL EXTENSION.
- 0215 DEMO ALL CARPET FLOORING IN GIFTSHOP AND GUNBOAT PHILADELPHIA EXHIBIT. CARPET ETR AT MEZZANINE.
- 0216 DEMO WALLS AT EXHIBIT PERIMETER AND AT AV CLOSET; GWB EA SIDE STL STUDS, HT +/- 3600 mm (11'-10") CAREFULLY DEMO GWB TO UNCOVER AND REMOVE GLASS SHEET AND BARBED WIRE DISPLAY MATERIAL. DISPOSE OF MATERIALS PER SECTION 01000. DOCUMENT LOCATION OF EXHIBIT PERIMETER WALL TO BUILD AND EXTEND NEW PERIMETER WALL IN SAME LOCATION.
- 0218 DEMO CONCRETE STAIRWAY AND SIDE WALL. DO NOT REMOVE OR DAMAGE ETR WEST WALL OF 3204C BELOW MEZZANINE.
- 0229 COORDINATE TEMPORARY REMOVAL AND PROTECTION OF EXISTING VIDEO MONITOR WITH SI AV TEAM.

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

**FOR CONSTRUCTION**



DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

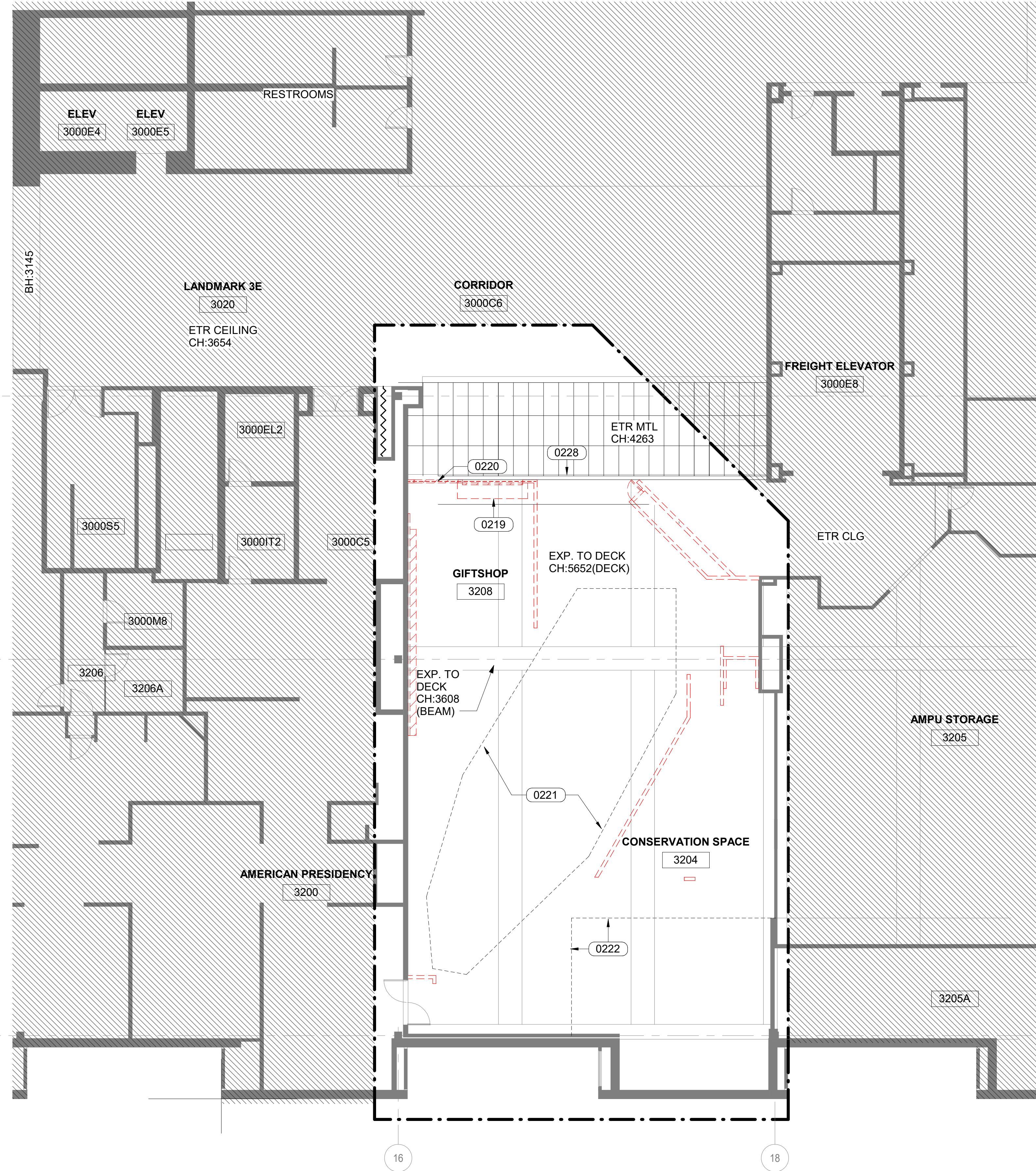
**Smithsonian Institution**

Smithsonian Facilities  
 600 Maryland Avenue S.W. Suite 5001  
 Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	FLOOR PLAN - DEMOLITION
WORKING STAFF	MM PS MM
SHEET NO.	AD101FP
	5 of 41

8/18/2024 4:12:41 PM AD101FP BY Approver 08/01/24 FINAL SUBMISSION

7/31/2024 4:54:53 PM  
AD102CP BY Approver 08/01/24 FINAL SUBMISSION



**1** DEMOLITION REFLECTED CEILING PLAN- 3RD FLOOR  
SCALE = 1 : 100

**GENERAL NOTES**

- REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND SECURITY FOR CEILING DEVICES TO BE DEMOED OR ETR.

**SHEET LEGEND**

OUTLINE OF OBJECT TO DEMOED

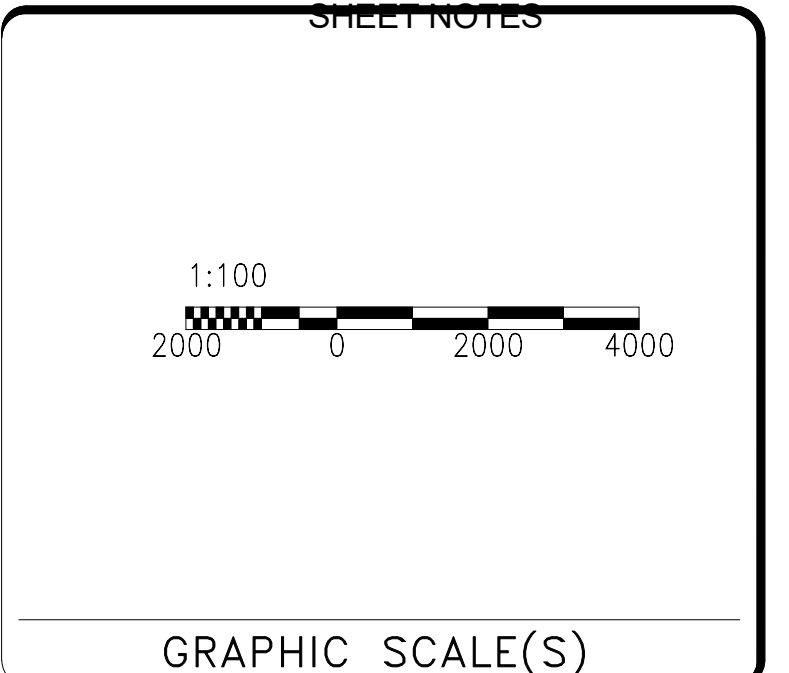
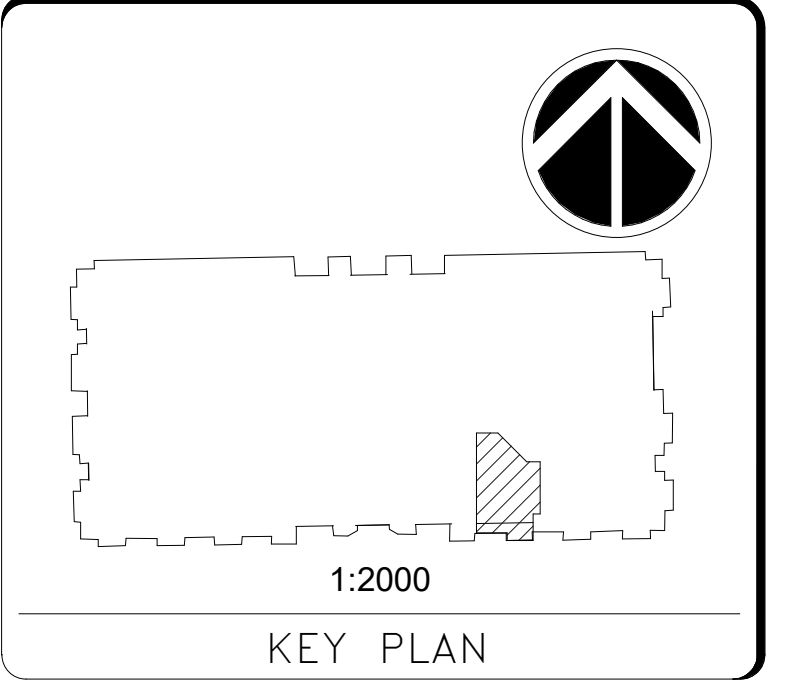
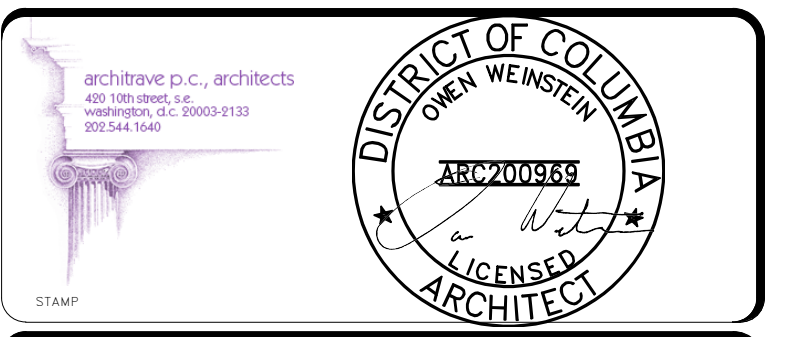
DEMO ANNOTATION. SEE SHEET NOTES.

**SHEET NOTES**

- 0219 DEMO OVERHEAD DOOR AND HOUSING (3652 AFF), DOOR, & ALL SUPPORTS.
- 0220 DEMO STAINLESS STEEL CLOSURE ABOVE DEMOED STOREFRONT AND DOOR HOUSING.
- 0221 OUTLINE OF BOAT PROTECTION CONTAINER BELOW.
- 0222 OUTLINE OF MEZZANINE EXTENTS BELOW.
- 0228 ETR LINEAR SLOT DIFFUSERS & LIGHTS ALONG EDGE OF METAL PANELS.

**NMAH  
GUNBOAT  
PHILADELPHIA TEMP.  
CONSERVATION  
SPACE**

**FOR  
CONSTRUCTION**

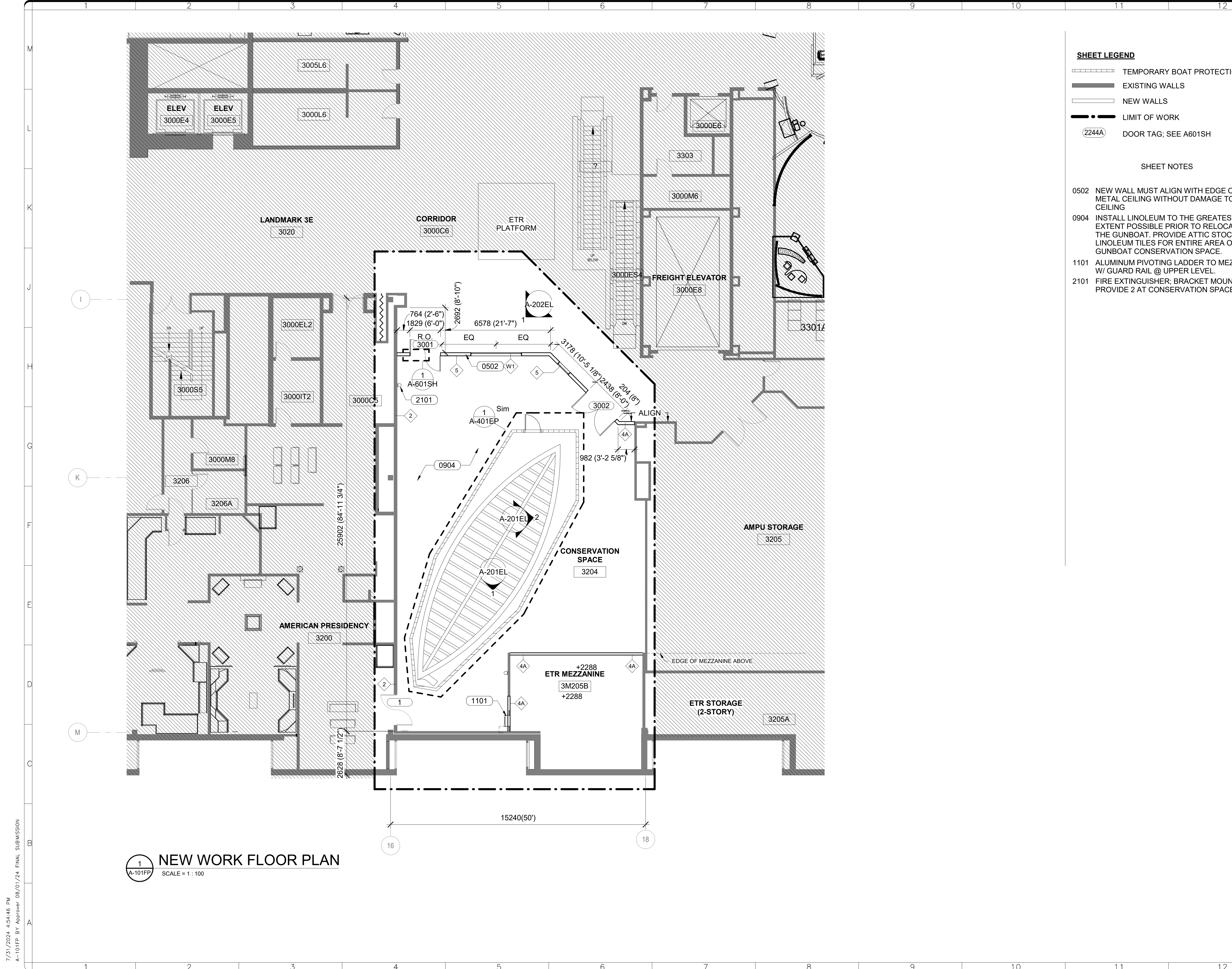


DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

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Institution**

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

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PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	REFLECTED CEILING PLAN - DEMOLITION
WORKING STAFF	MM    AH TS    MM
DESIGNED BY	MM
DRAWN BY	AH TS
CHECKED BY	MM
SHEET NO.	AD102CP
6 of 41	



**1** NEW WORK FLOOR PLAN  
 SCALE = 1 : 100

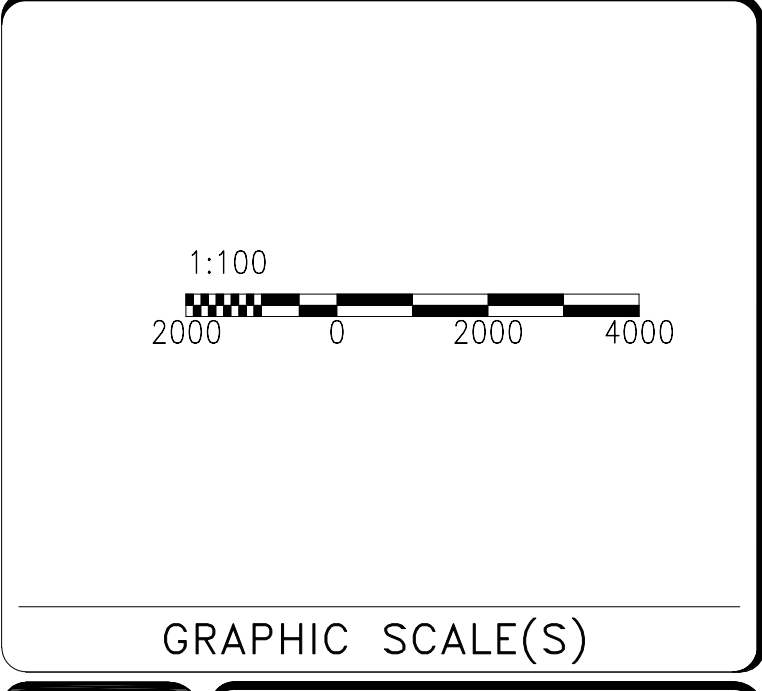
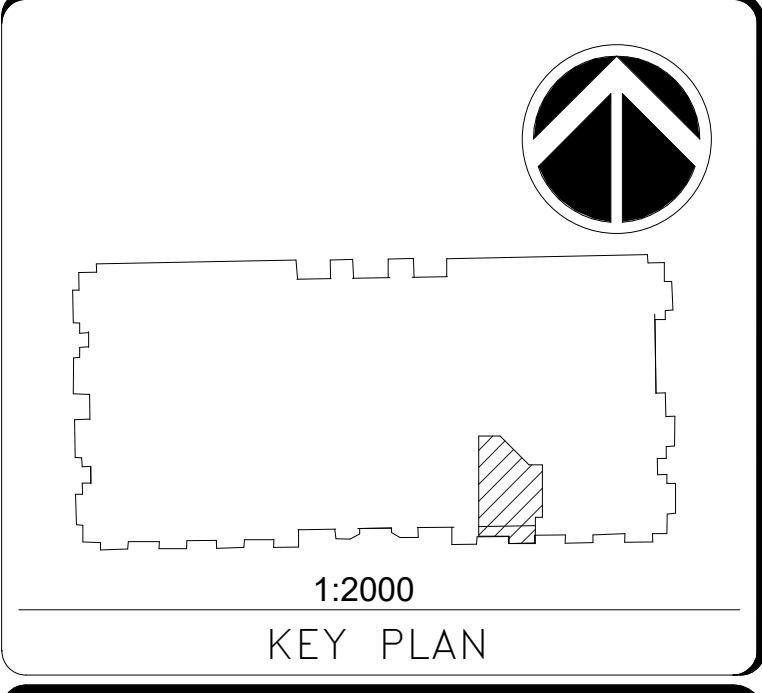
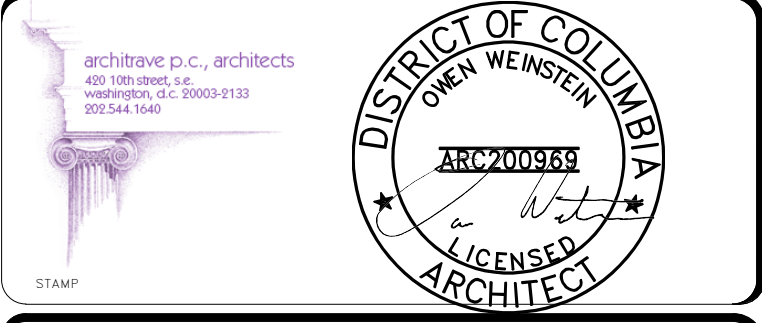
- SHEET LEGEND**
- TEMPORARY BOAT PROTECTION
  - EXISTING WALLS
  - NEW WALLS
  - LIMIT OF WORK
  - 2244A DOOR TAG; SEE A601SH

- SHEET NOTES**
- 0502 NEW WALL MUST ALIGN WITH EDGE OF ETR METAL CEILING WITHOUT DAMAGE TO CEILING
  - 0904 INSTALL LINOLEUM TO THE GREATEST EXTENT POSSIBLE PRIOR TO RELOCATION OF THE GUNBOAT. PROVIDE ATTIC STOCK OF LINOLEUM TILES FOR ENTIRE AREA OF GUNBOAT CONSERVATION SPACE.
  - 1101 ALUMINUM PIVOTING LADDER TO MEZZANINE W/ GUARD RAIL @ UPPER LEVEL.
  - 2101 FIRE EXTINGUISHER; BRACKET MOUNTED PROVIDE 2 AT CONSERVATION SPACE.

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

**FOR CONSTRUCTION**



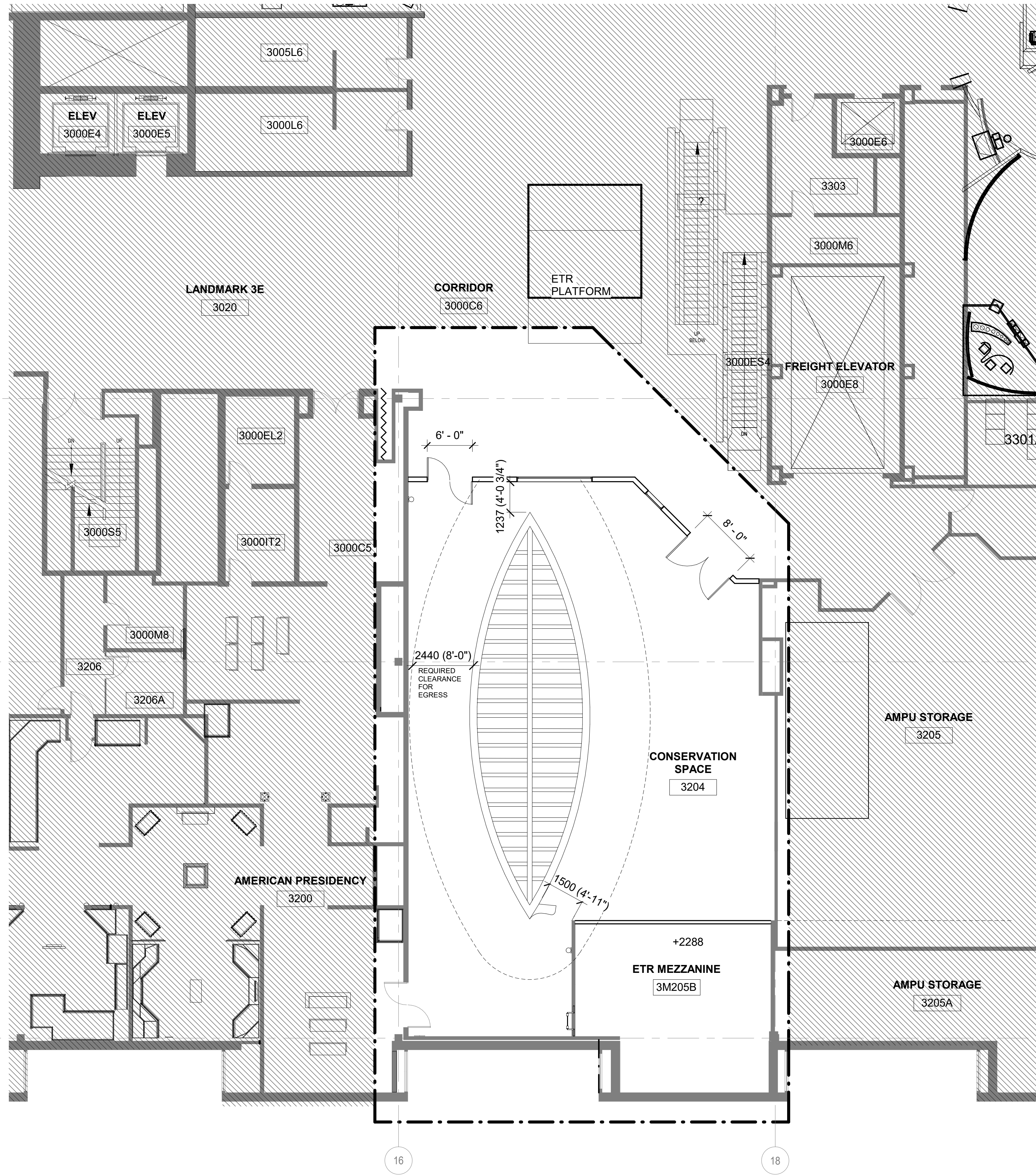
DATE	07/12/24	REVISION	FINAL SUBMISSION
REVISION #	DATE	DESCRIPTION	

**Smithsonian Institution**  
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 600 Maryland Avenue S.W. Suite 5001  
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PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	FLOOR PLAN -- NEW WORK
WORKING STAFF	MM TS JM MM
SHEET NO.	A - 101FP
7 of 41	

7/31/2024 4:54:46 PM A-101FP BY Approver 08/01/24 FINAL SUBMISSION

7/31/2024 4:54:47 PM  
A-102FP BY Approver 08/01/24 FINAL SUBMISSION



**1** TEMPORARY CONSERVATION EXHIBIT SPACE  
SCALE = 1 : 100

**GENERAL NOTES**

1. LAYOUT REPRESENTS SPACE AS WILL BE USED BY CONSERVATORS, AND INCLUDES ACTIONS AND FURNITURE NOT IN THIS CONTRACT.
2. SMITHSONIAN INSTITUTION WILL UNDER SEPARATE CONTRACT:
  - A. ROTATE GUNBOAT BY SPECIALTY CONTRACT
  - B. PROVIDE AND INSTALL FURNISHINGS SHOWN FOR ILLUSTRATION, INCLUDING DESKS, TABLES, CHEMICAL STORAGE CABINET, RACKS, AND MOVEABLE SCREEN.
3. FURNITURE LAYOUT SHOWN REPRESENTS AN EXERCISE TO VERIFY ALL REQUIRED FURNITURE WILL FIT

**FIRE SAFETY NOTES**

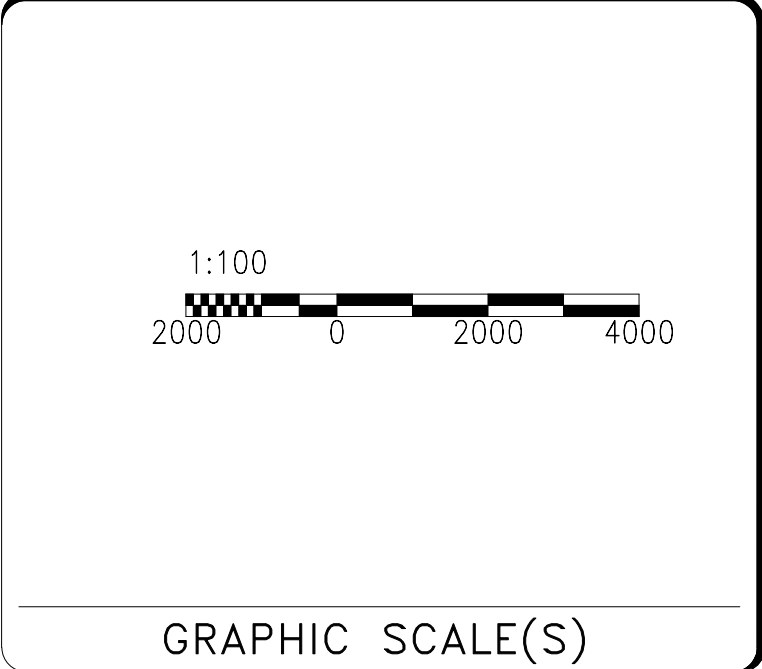
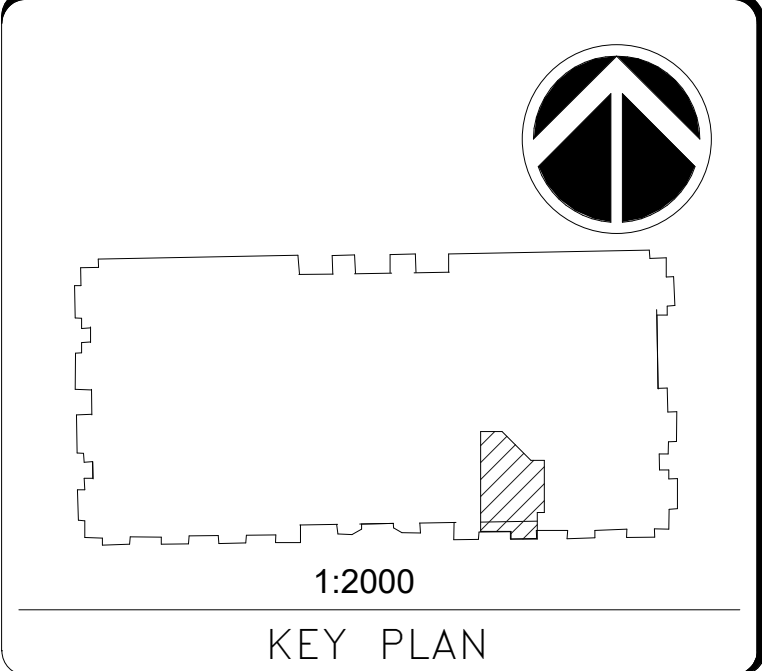
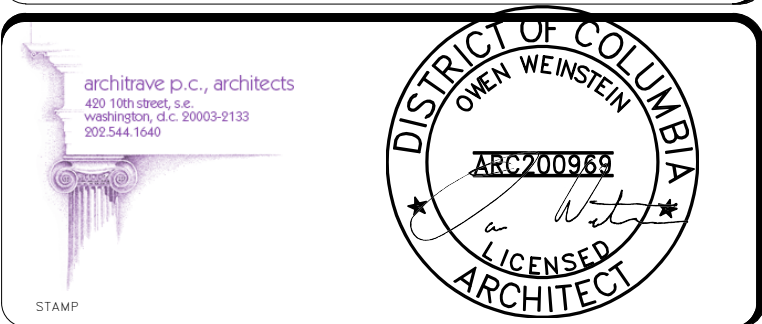
1. ALL WALLS ARE BUILT FROM FLOOR TO DECK ABOVE. REFER TO DRAWINGS AL 101 FP FOR RATINGS
2. WALL BETWEEN GUNBOAT CONSERVATION SPACE AND AMERICAN PRESIDENCY EXHIBIT IS A FIRE ZONE COMPARTMENT WALL AND ALIGNS WITH WON-DOOR
3. WINDOWS INTO GUNBOAT PHILADELPHIA CONSERVATION SPACE ARE 60 MINUTE FRAMES AND GLASS
4. SEE LIFE SAFETY DRAWING FOR EGRESS PATTERNS AND ADDITIONAL INFORMATION

**LEGEND**

----- 2440 (8'-0") CLEARANCE REQUIRED FOR GUNBOAT U.O.N.

**NMAH  
GUNBOAT  
PHILADELPHIA TEMP.  
CONSERVATION  
SPACE**

**FOR  
CONSTRUCTION**



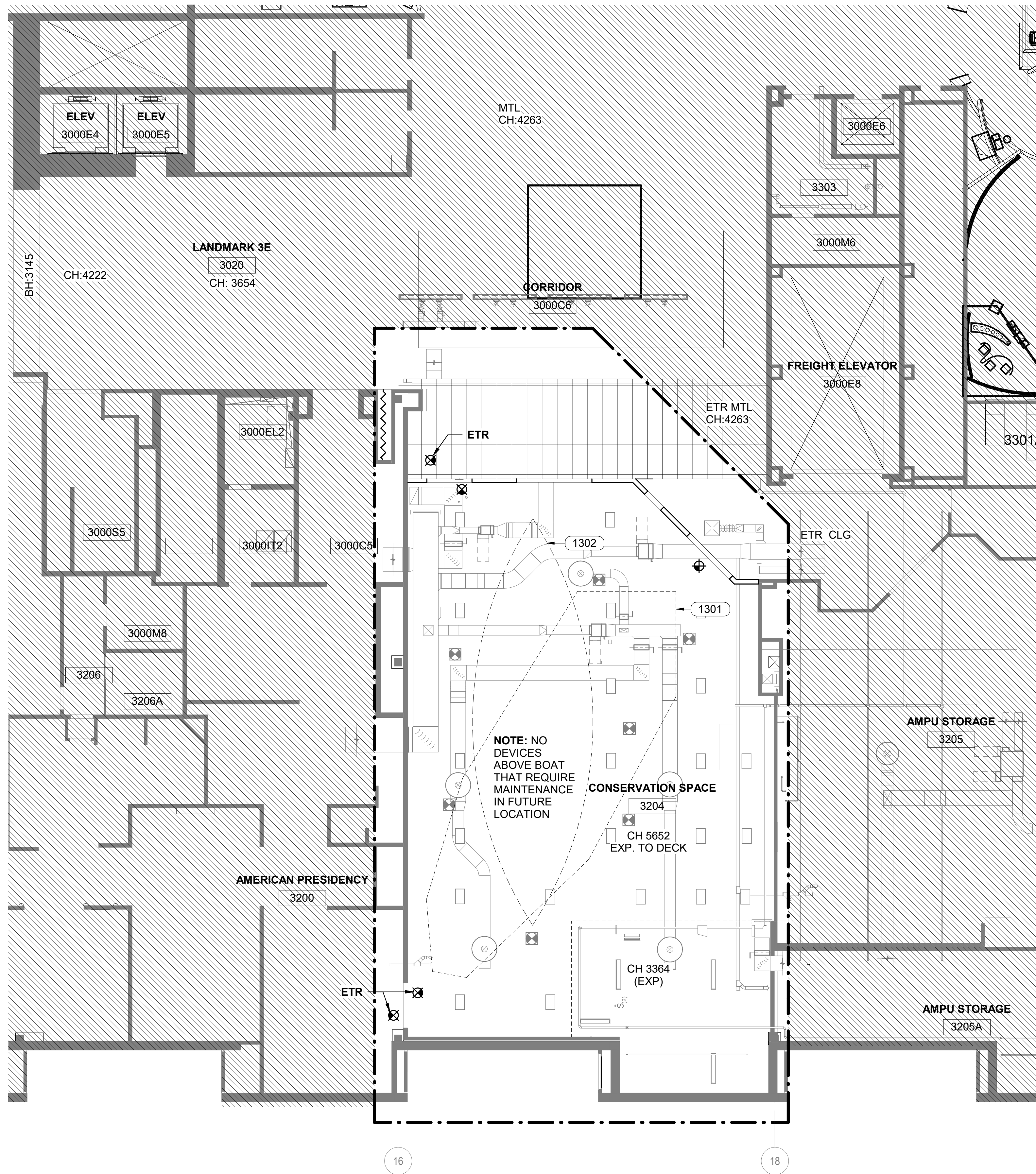
DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

**Smithsonian  
Institution**

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
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PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	FLOOR PLAN -- CONSERVATION LAYOUT
WORKING STAFF	MM    AH TS    MM
DESIGNED BY	MM
DRAWN BY	AH TS
CHECKED BY	MM
SHEET NO.	A - 102FP
8 of 41	





**1** NEW WORK REFLECTED CEILING PLAN  
SCALE = 1 : 100

**GENERAL NOTES**

- REFER TO MECHANICAL, FIREPROTECTION, ELECTRICAL, AND SECURITY DRAWINGS FOR FURTHER INFORMATION AND COORDINATION

**SHEET LEGEND**

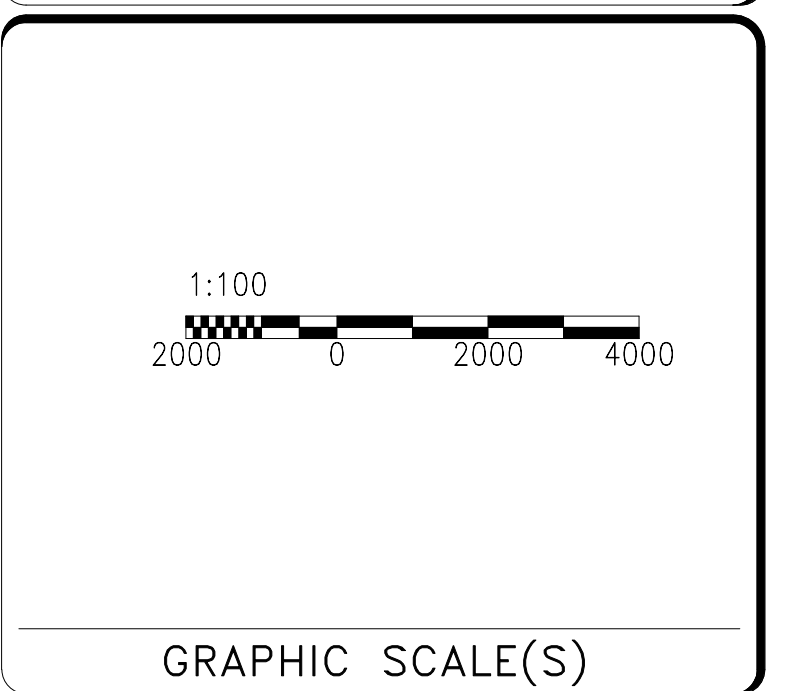
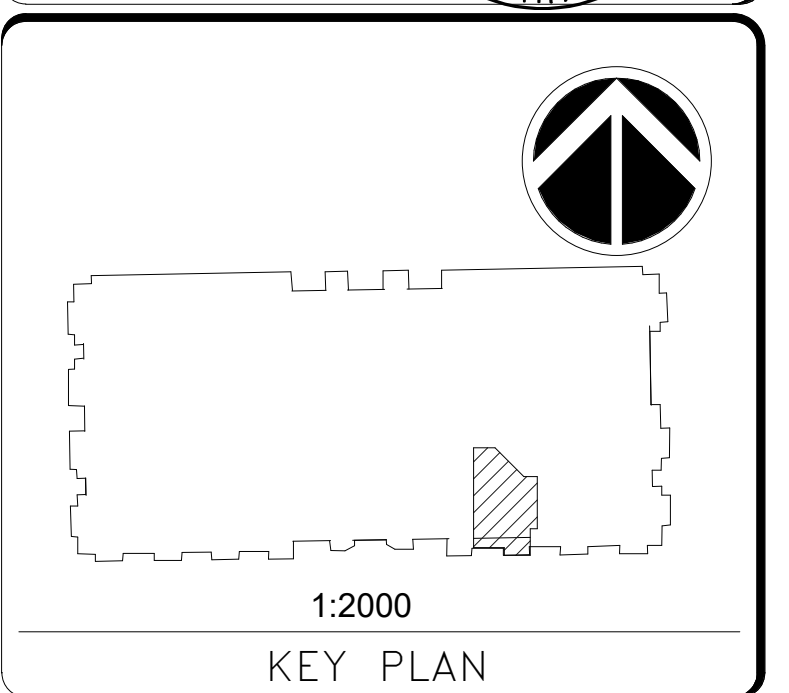
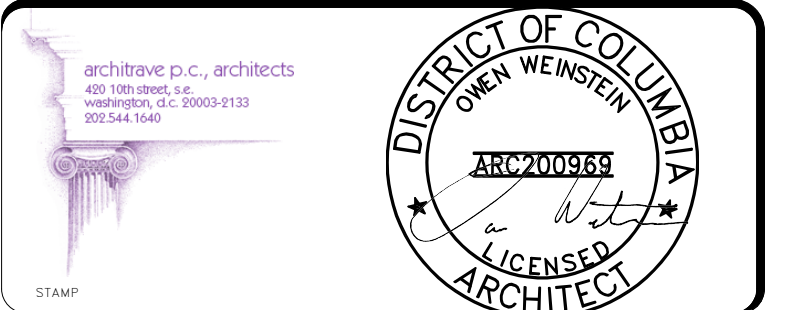
- PENDANT-MOUNTED LIGHT FIXTURE
- PENDANT-MOUNTED LIGHT FIXTURE (EMERGENCY)
- LIGHT FIXTURE, 609 X 609 MM
- LIGHT FIXTURE, 609 X 609 MM (EMERGENCY)
- LIGHT FIXTURE, 609 X 1218 MM
- EXIT SIGN
- OCCUPANCY SENSOR
- FIRE ALARM SYSTEM SMOKE DETECTOR
- FIRE ALARM COMBINATION SPEAKER/STROBE
- RETURN AIR DIFFUSER, 609 X 609 MM
- SUPPLY AIR DIFFUSER, 609 X 609 MM

**SHEET NOTES**

- 1301 GUNBOAT PROTECTION BELOW, REFER TO A401EP
- 1302 FUTURE LOCATION OF BOAT IN CONSERVATION

**NMAH  
GUNBOAT  
PHILADELPHIA TEMP.  
CONSERVATION  
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**FOR  
CONSTRUCTION**



DATE 07/12/24	SUBMISSION FINAL SUBMISSION
REVISION #	DATE
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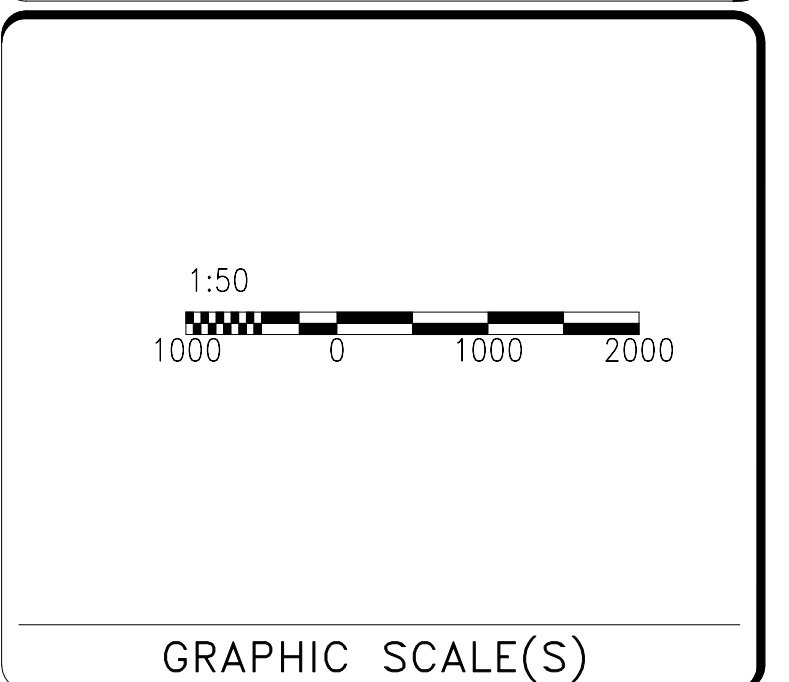
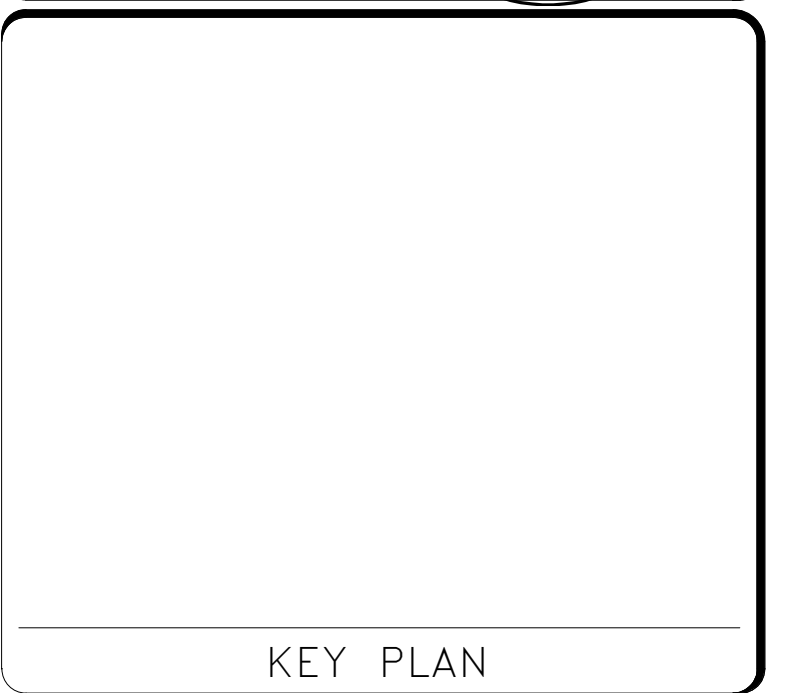
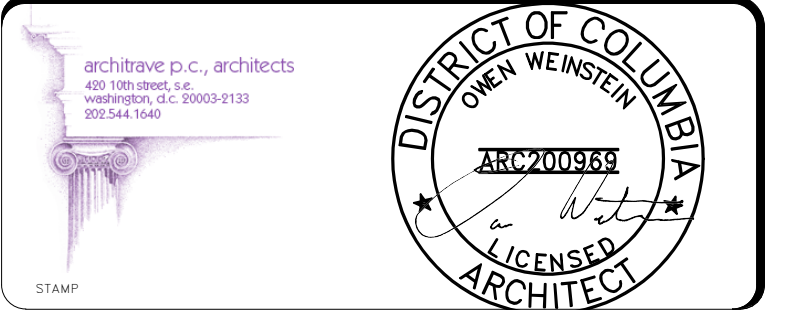
Smithsonian Facilities  
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Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	REFLECTED CEILING PLAN - NEW WORK
WORKING STAFF	MM AH TS MM DESIGNED BY DRAWN BY CHECKED BY
SHEET NO.	A - 103CP
9 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION



DATE	DESCRIPTION
07/12/24	FINAL SUBMISSION

**Smithsonian Institution**  
 Smithsonian Facilities  
 600 Maryland Avenue S.W., Suite 5001  
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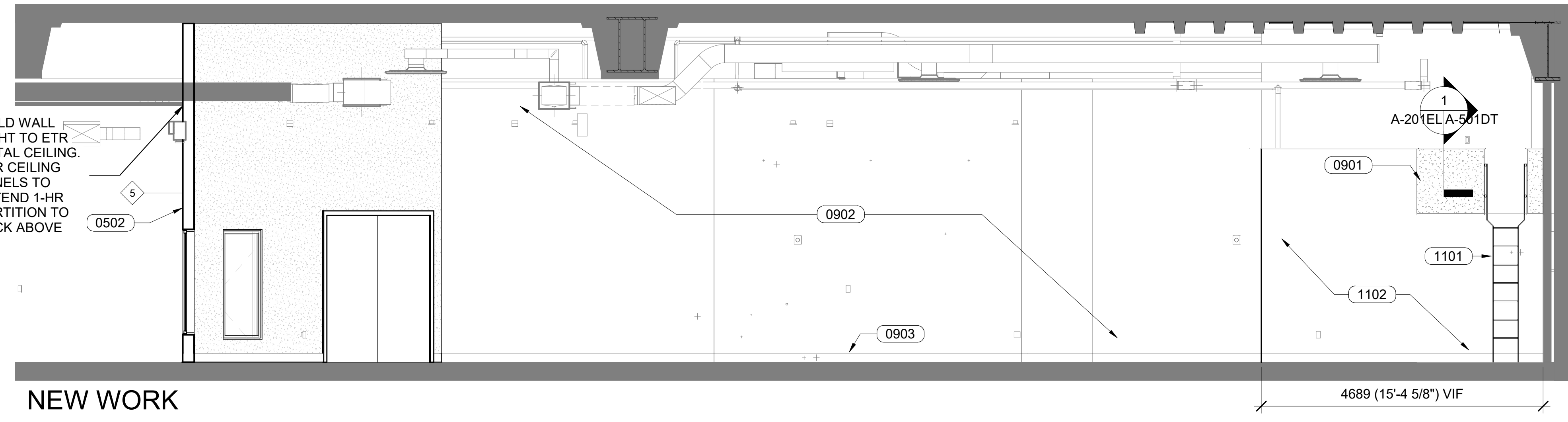
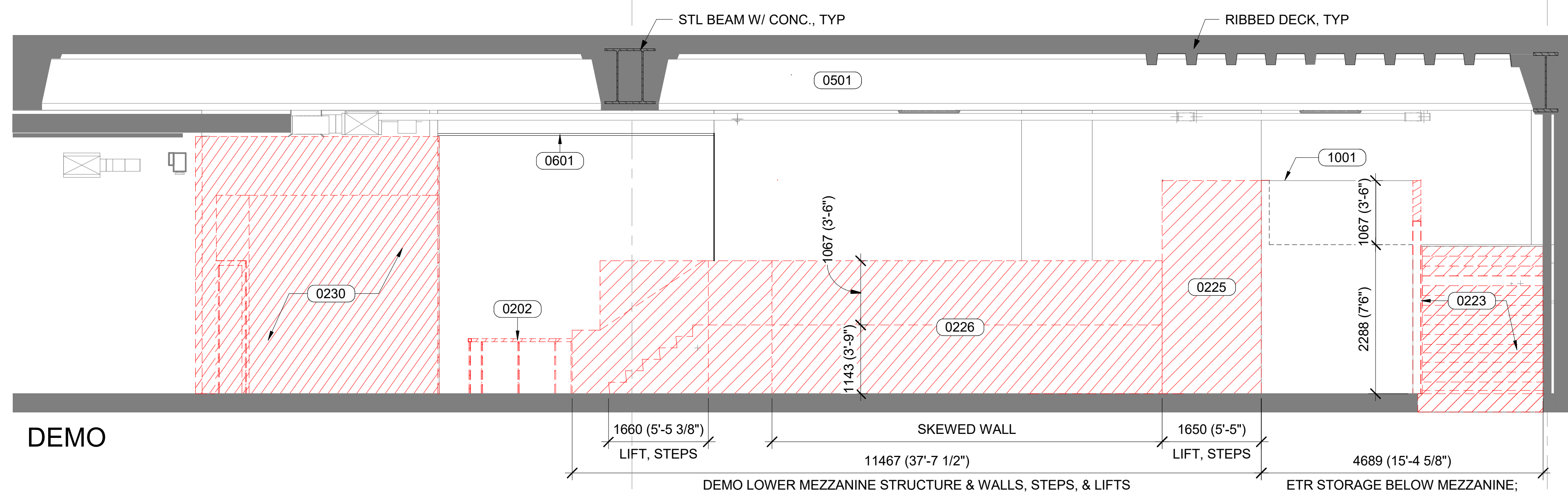
BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	INTERIOR ELEVATIONS
WORKING STAFF	MM AH TS MM
DESIGNED BY	DRAWN BY
CHECKED BY	
SHEET NO.	A-201EL
10 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

### LEGEND

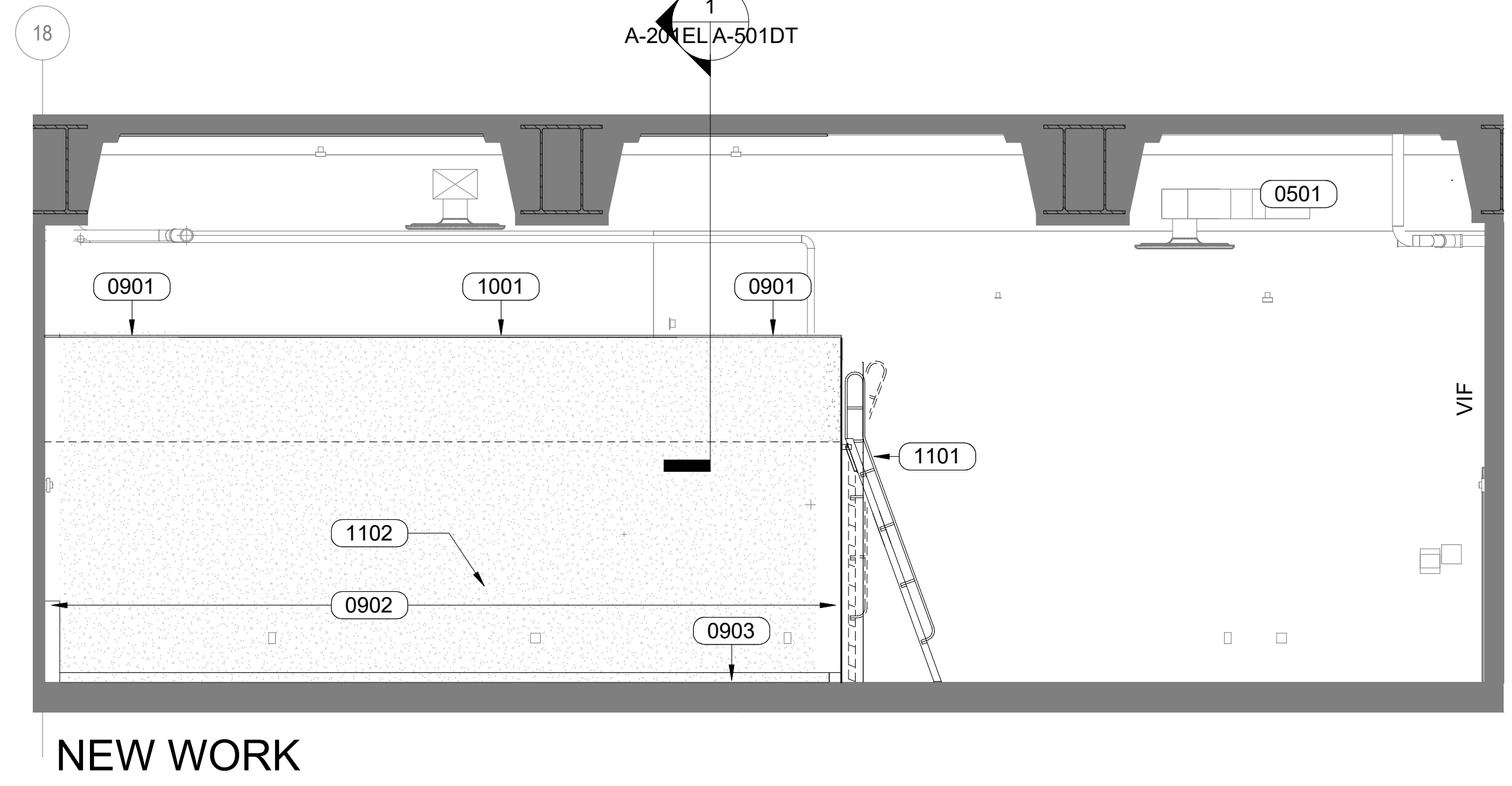
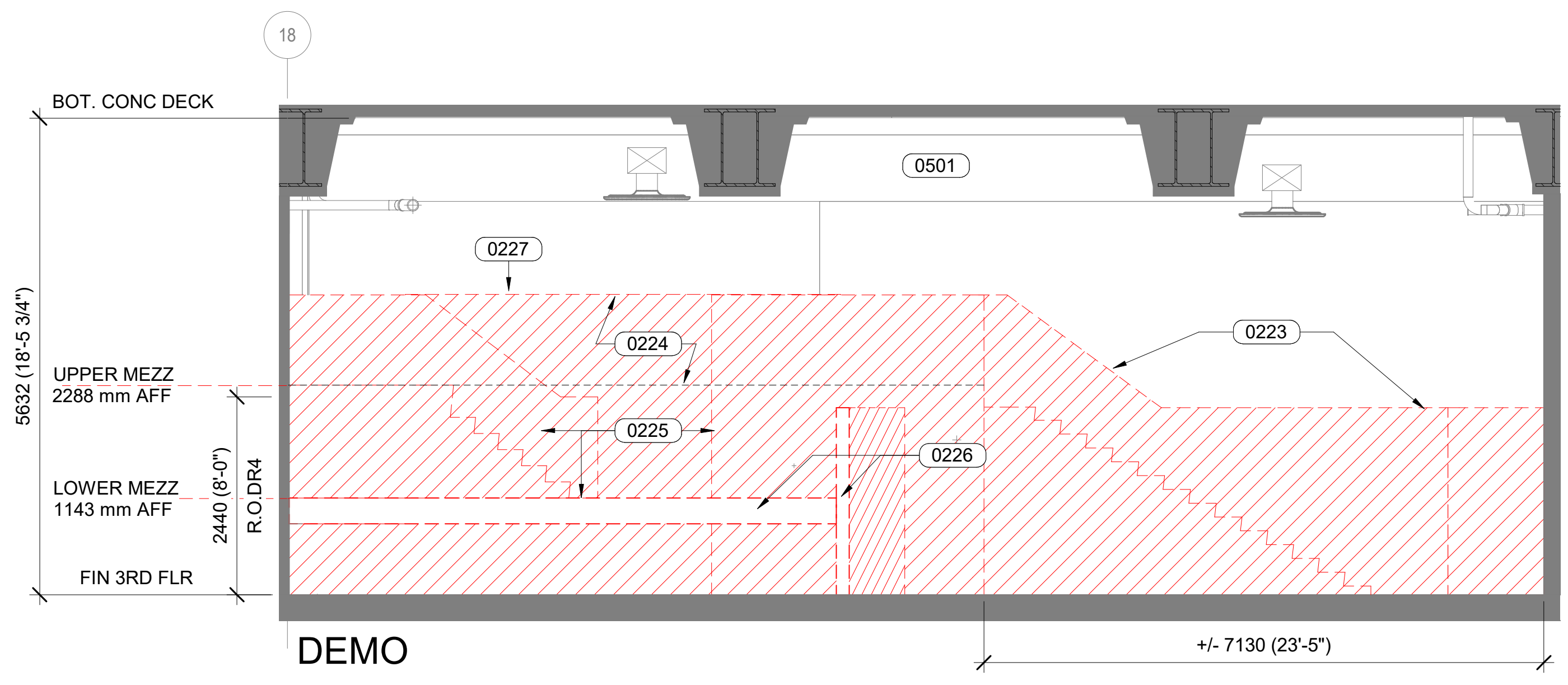
- AREA TO BE DEMOED
- NEW WALL INFILL
- WINDOW INDICATOR

### SHEET NOTES

- 0202 DEMO RAIL SUPPORT (RAIL REMOVED) PRIOR TO BUILDING PROTECTION AROUND BOAT.
- 0223 DEMO STEEL & CONC. STAIR, RAILS, & PARTIAL HEIGHT WALL.
- 0224 REMOVE FINISH GWB, STUDS AND SECURITY MESH TO REMAIN
- 0225 DEMO UPPER MEZZANINE LIFT, STAIRWAY, AND LANDING AREA ONLY
- 0226 DEMO LOWER MEZZANINE & WALLS, PARAPET, LIFT & STEPS
- 0227 DEMO WALLS AT PARTIAL HEIGHT AV CLOSET.
- 0230 DEMO WALLS AT PARTIAL HEIGHT AV CLOSET.
- 0501 BEAM IN ELEVATION (BEYOND)
- 0502 NEW WALL MUST ALIGN WITH EDGE OF ETR METAL CEILING WITHOUT DAMAGE TO CEILING
- 0601 ETR WOOD TRIM EMBEDDED IN ETR WALL
- 0901 INFILL & EXTEND WALL TO EDGE OF EXISTING RAILING
- 0902 PATCH AND SPACKLE ENTIRE WALL FOR SMOOTH FINISH, PAINT.
- 0903 BASE AS SCHEDULED
- 1001 20mm WOOD RAILING CAP
- 1101 ALUMINUM PIVOTING LADDER TO MEZZANINE W/ GUARD RAIL @ UPPER LEVEL.
- 1102 ETR STORAGE BELOW MEZZANINE.



2 EAST ELEVATION  
 A-101FPA-201EL SCALE = 1:50

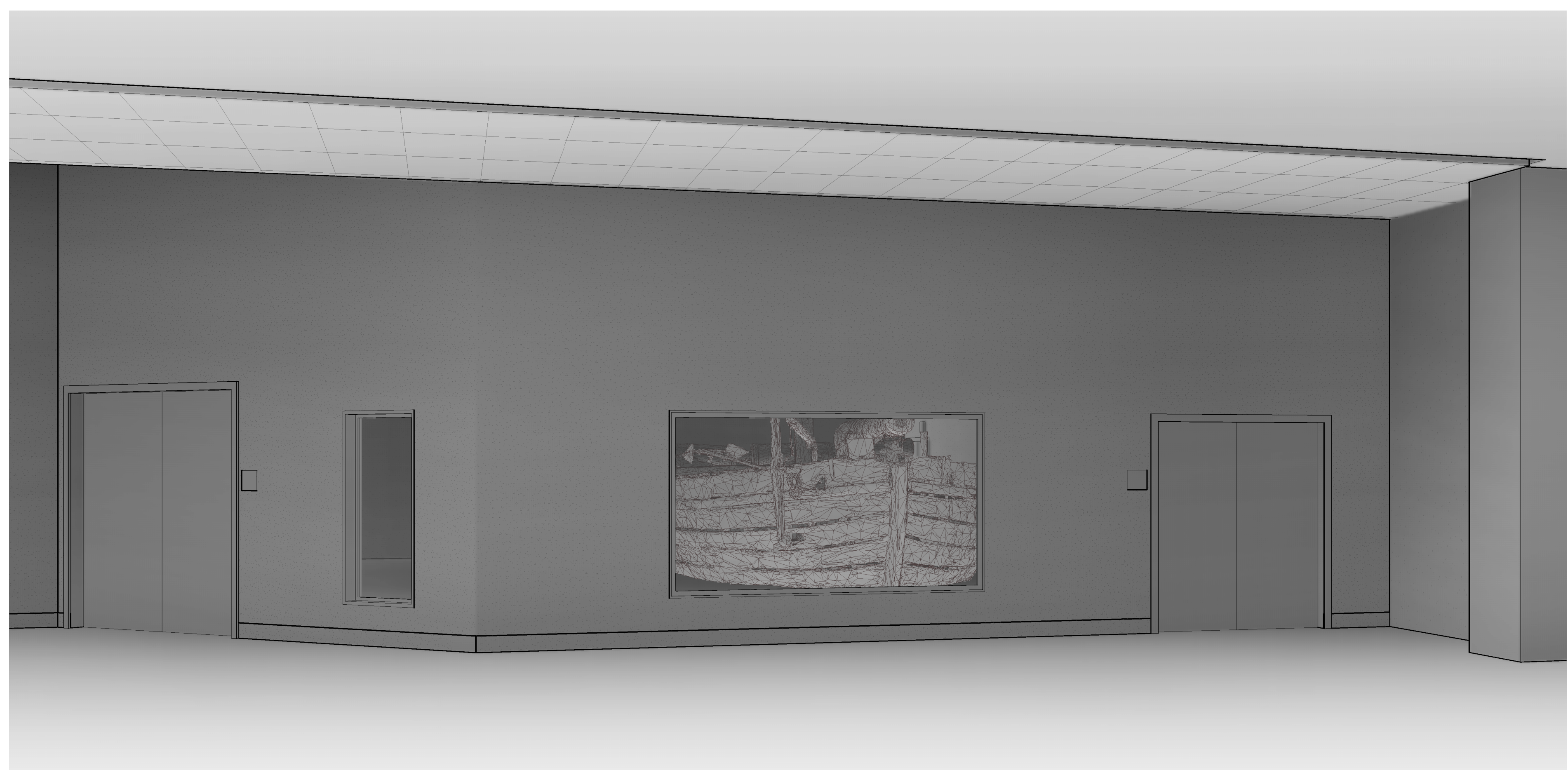


1 SOUTH ELEVATION  
 A-101FPA-201EL SCALE = 1:50

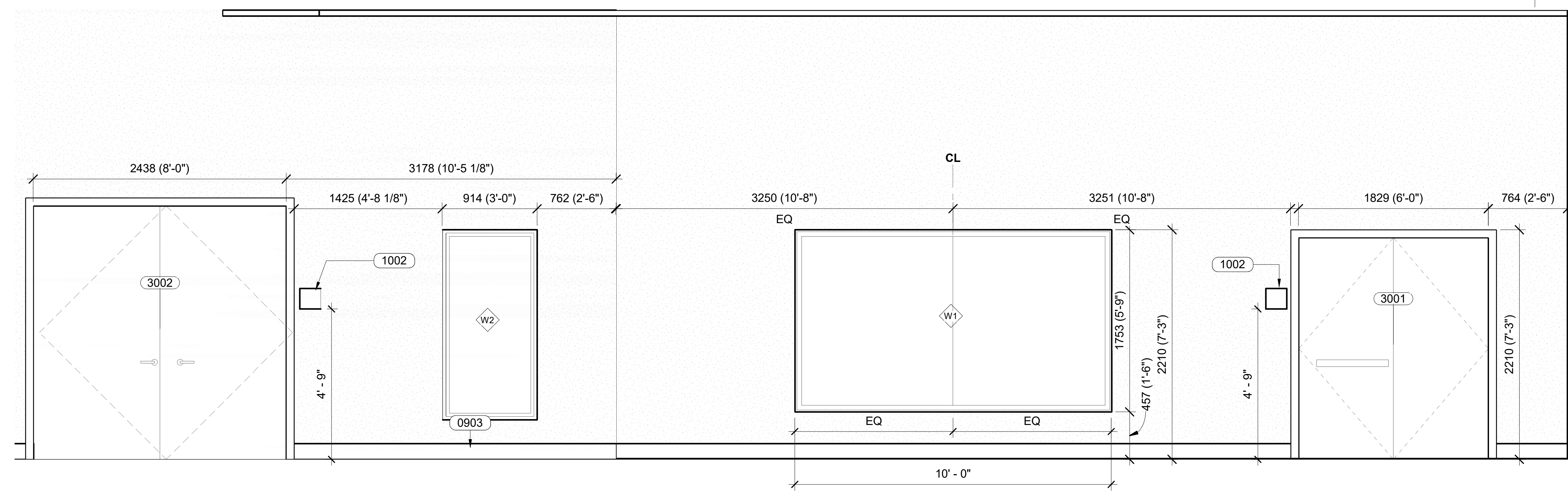
8/8/2024 6:08:19 PM A-201EL BY Approver 08/01/24 FINAL SUBMISSION

SHEET NOTES

- 0903 BASE AS SCHEDULED
- 1002 ROOM ID SIGN



**2 WINDOW WALL RENDERING**  
SCALE = NTS

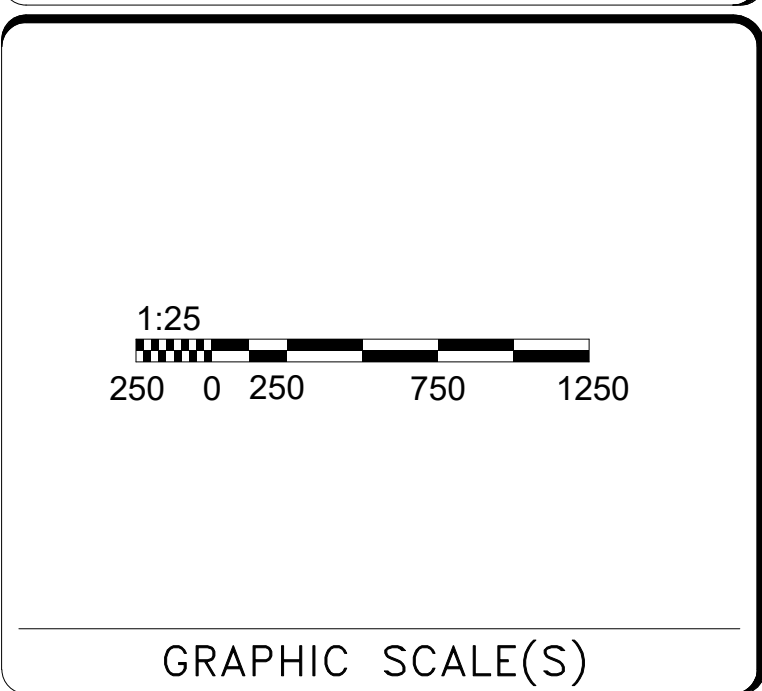
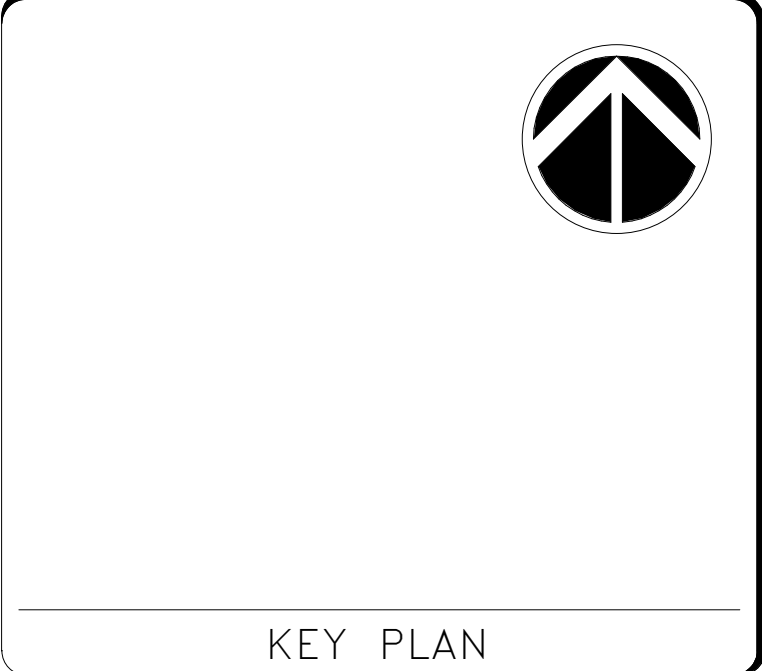
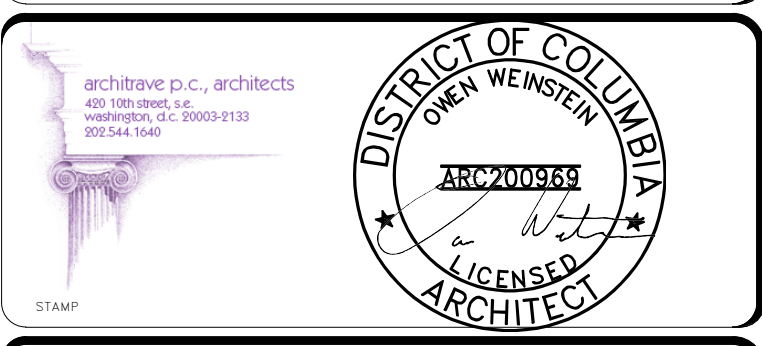


**1 UNFOLDED VIEWING WINDOW WALL ELEVATION**  
SCALE = 1:25

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

**FOR CONSTRUCTION**



DATE	07/12/24	REVISION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

**Smithsonian Institution**  
Smithsonian Facilities  
600 Maryland Avenue S.W., Suite 5001  
Washington, DC 20024-2520

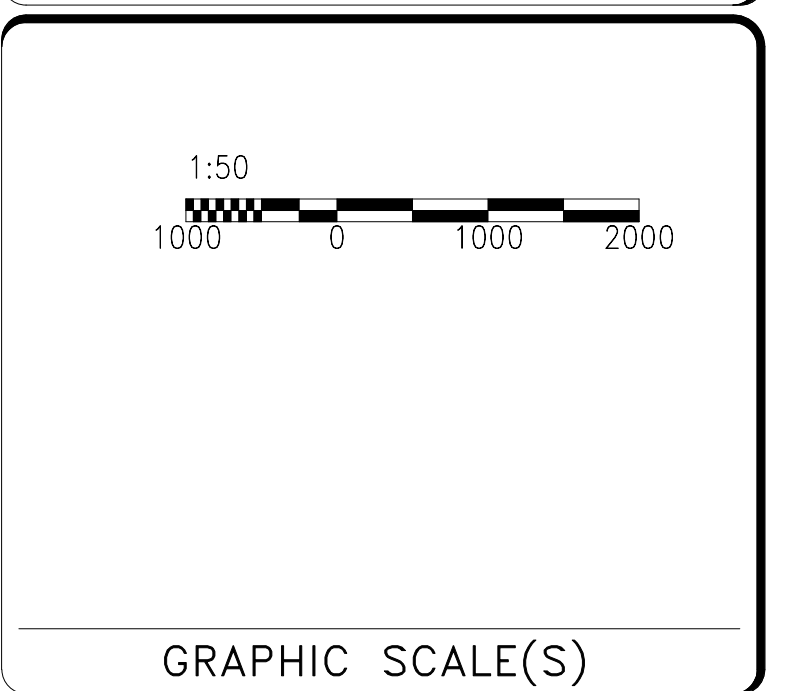
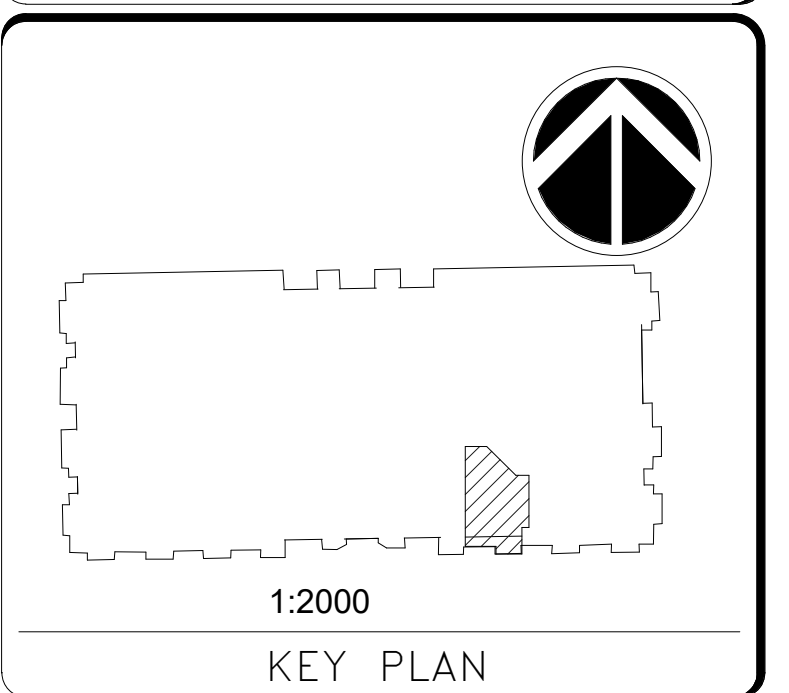
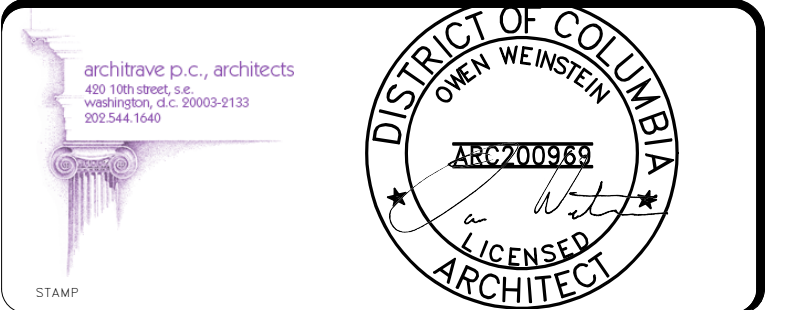
BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	INTERIOR ELEVATION - PUBLIC SIDE
WORKING STAFF	MM TS JM MM
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. **A-202EL**  
11 of 41

8/18/2024 4:12:39 PM A-202EL BY Approver 08/01/24 FINAL SUBMISSION

# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR  
CONSTRUCTION



DATE	07/12/24	REVISION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

**Smithsonian  
Institution**

Smithsonian Facilities  
600 Maryland Avenue S.W., Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	GUNBOAT PROTECTION - ENLARGED PLAN AND SECTION
WORKING STAFF	MM    AH TS    MM
DESIGNED BY	
DRAWN BY	
CHECKED BY	
SHEET NO.	A - 4 0 1 E P
12 of 41	DISCIPLINE    TYPE    SEQUENCE    DRAWING TYPE

**SHEET NOTES**

- SUBMIT DETAILS OF GUNBOAT PROTECTION IN PROJECT PROTECTION PLAN.
- CONSTRUCT GUNBOAT PROTECTION PRIOR TO STARTING MAJOR DEMOLITION.
- ALL WOOD PRODUCTS MUST BE FIRE-RETARDANT-TREATED.
- CONTAINER DIMENSIONS ARE APPROXIMATE. OFFSET FROM BOAT 305 mm (12") MINIMUM AND 1000 mm (3'-3") MAXIMUM. LAY OUT WALLS IN FIELD AND NOTIFY COITR FOR APPROVAL BEFORE PROCEEDING
- PRIOR TO DISMANTLING GUNBOAT PROTECTION, THOROUGHLY CLEAN ENTIRE SPACE INCLUDING THE HORIZONTAL SURFACES OF THE GUNBOAT PROTECTION SYSTEM AND ANY RESIDUAL DUST OVER AND ABOVE THE PROTECTION AREA ON THE TOPS OF DUCTWORK, ON EXPOSED STRUCTURE, ETC.
- FOLLOWING THE COMPLETION OF ALL CONSTRUCTION AND CLEANING ACTIVITIES, CAREFULLY DISMANTLE GUNBOAT PROTECTION IN A MANNER THAT DOES NOT INTRODUCE DUST OR DIRT TO THE GUNBOAT OR AFFECTED SITE IMMEDIATELY PRIOR TO HANDING SPACE OVER TO SMITHSONIAN INSTITUTION.

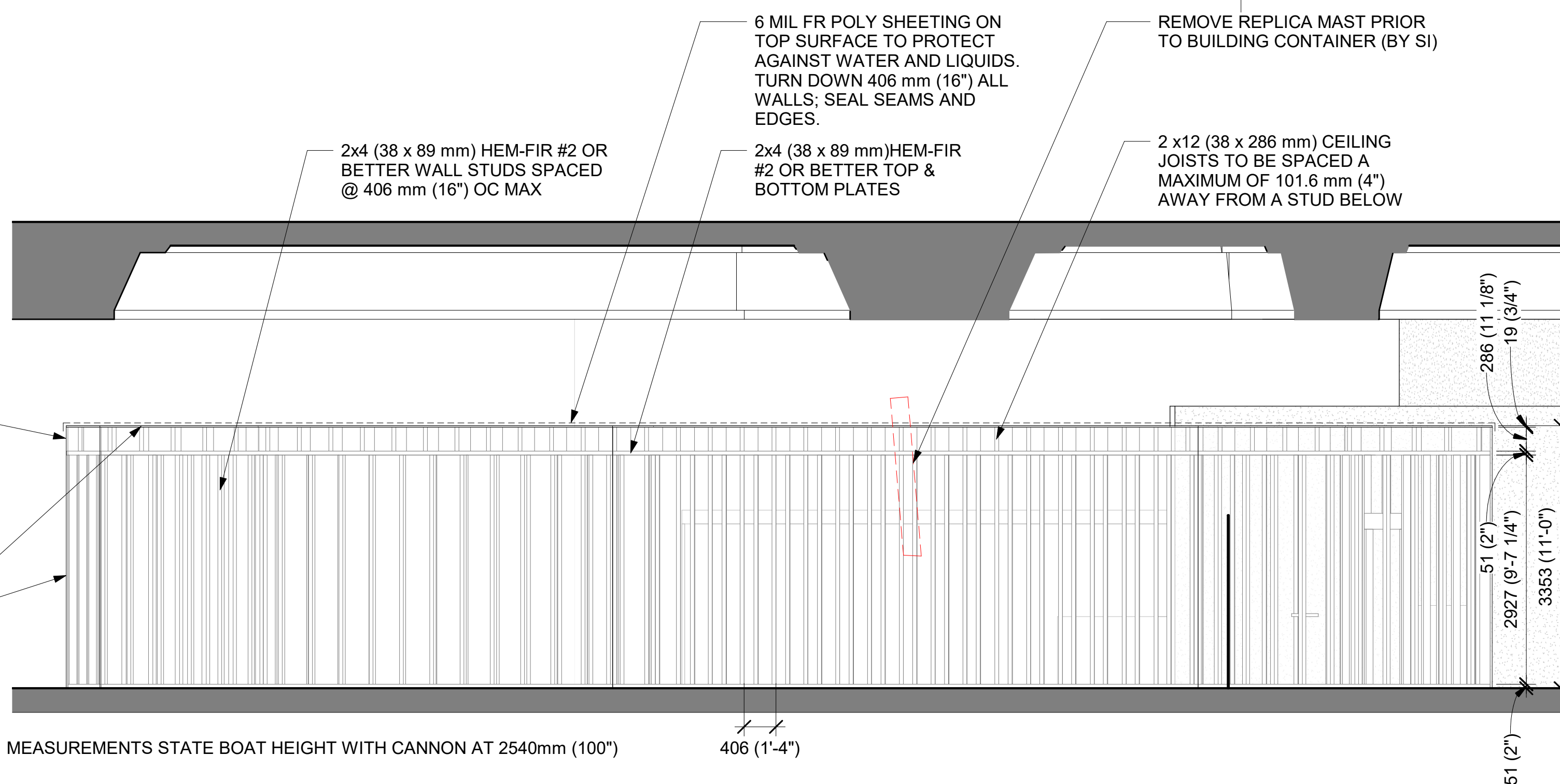
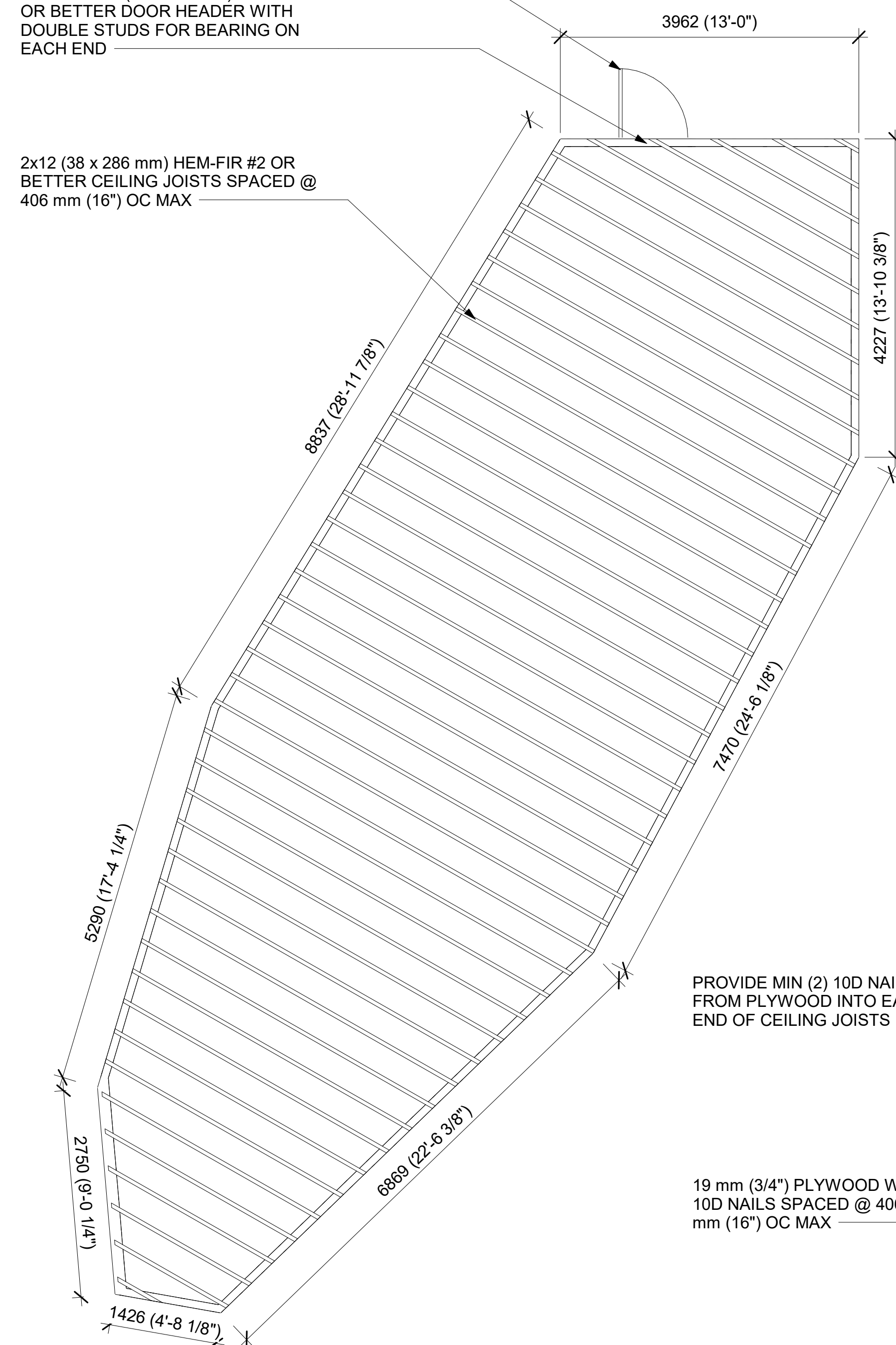
**SHEET LEGEND**

- VENT LOCATIONS AT EACH END OF CONTAINER. CUT +/- 0.19 SM (2 SF) VENT IN PLYWOOD BETWEEN STUDS. PROVIDE ARCHIVAL TYVEK EACH SIDE WITH HEPA FILTER FABRIC BETWEEN TYVEK. MECHANICALLY FASTEN AND SEAL TYVEK TO PLYWOOD.

WOOD-FRAMED DOOR WITH WEATHERPROOFING. PLYWOOD DOOR WITH HINGES, CLASP, AND PADLOCK.

DOUBLE 2x8 (38 x 140 mm) HEM-FIR #2 OR BETTER DOOR HEADER WITH DOUBLE STUDS FOR BEARING ON EACH END

2x12 (38 x 286 mm) HEM-FIR #2 OR BETTER CEILING JOISTS SPACED @ 406 mm (16") OC MAX



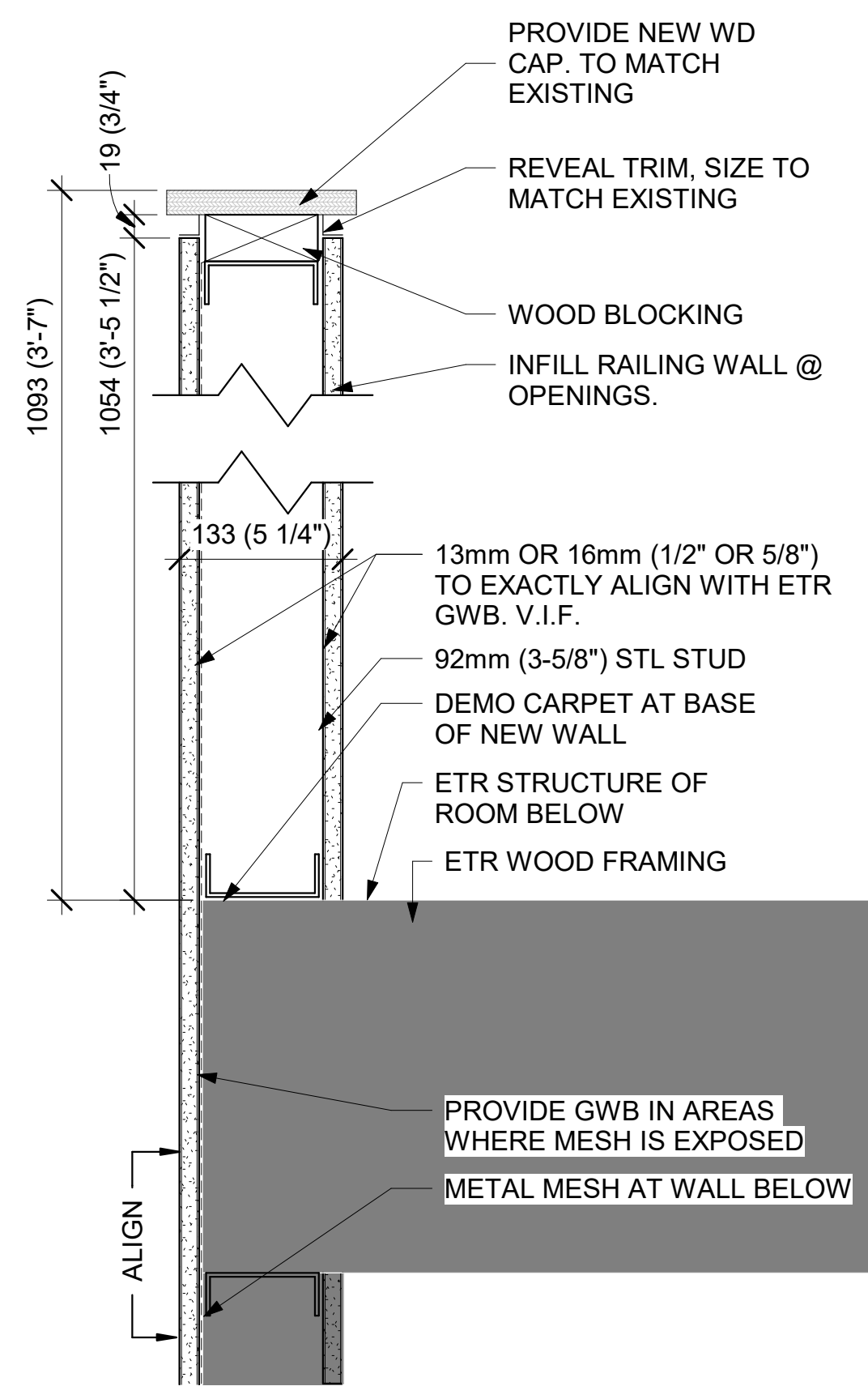
SI MEASUREMENTS STATE BOAT HEIGHT WITH CANNON AT 2540mm (100")      406 (1'-4")

**1 GUNBOAT PROTECTION ENLARGED PLAN**  
SCALE = 1 : 50

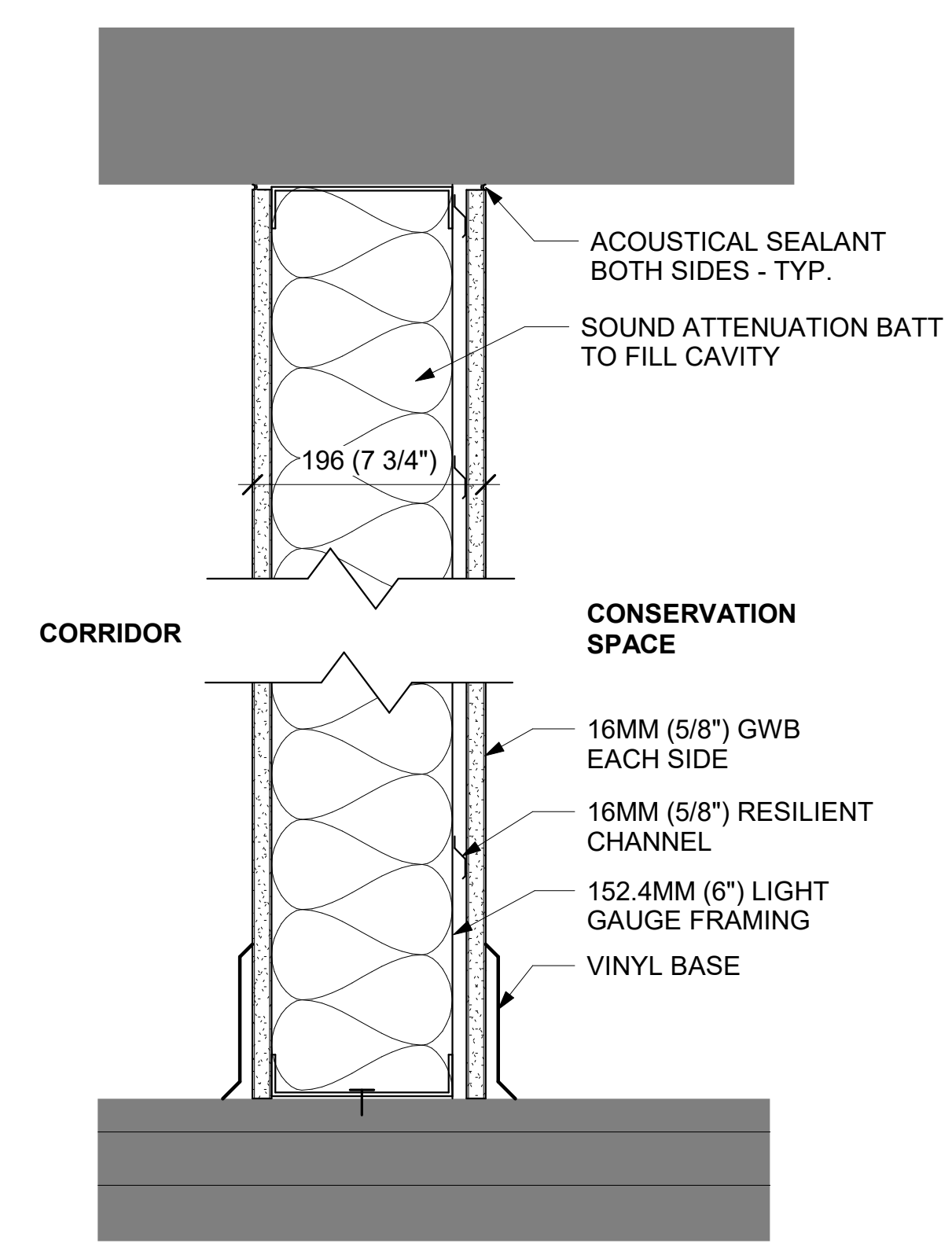
**2 GUNBOAT PROTECTION SECTION**  
SCALE = 1 : 50

7/31/2024 4:54:51 PM A-401EP BY Approver 08/01/24 FINAL SUBMISSION

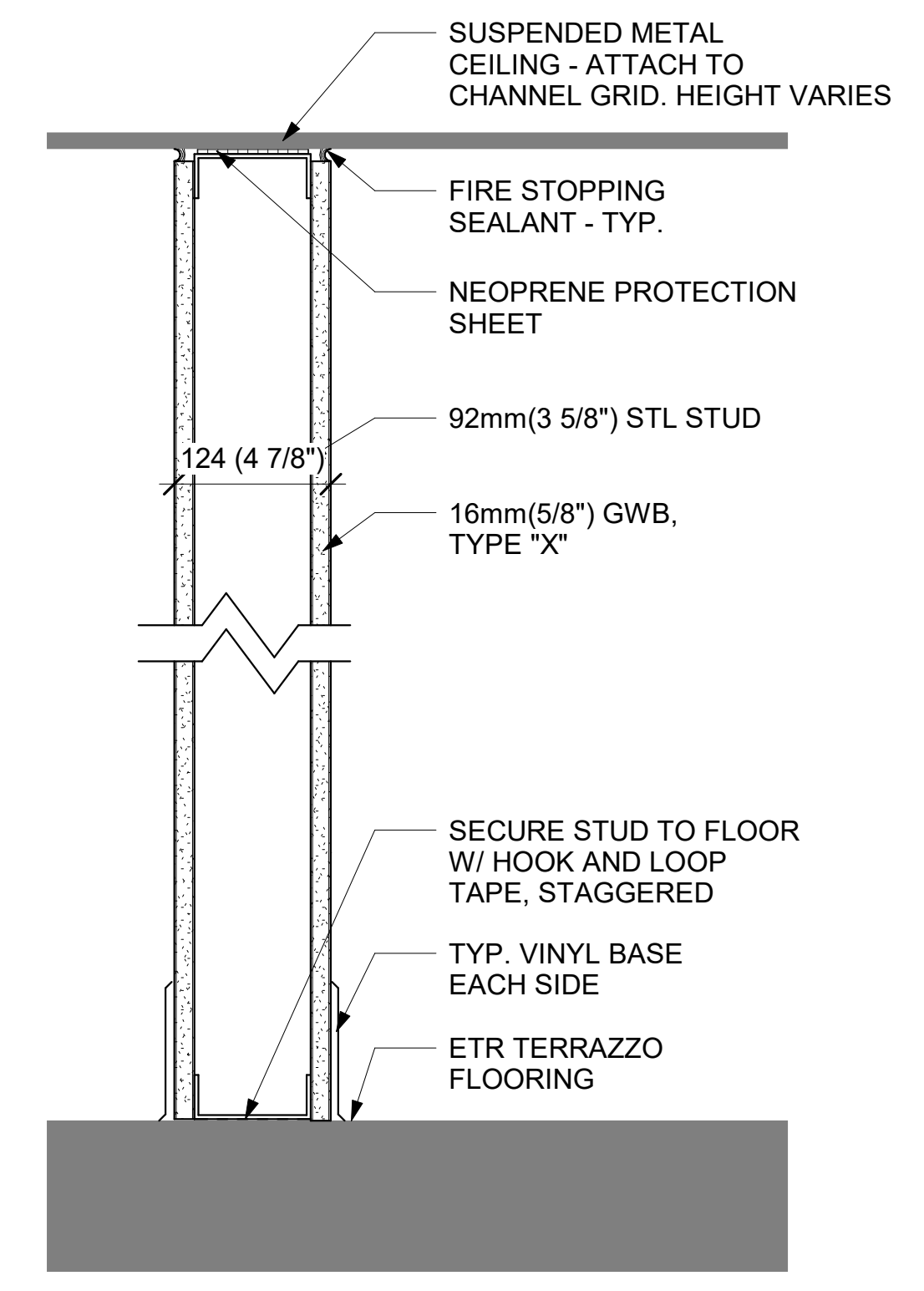
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A-501DT BY Approver 08/01/24 FINAL SUBMISSION



4A INFILL AT WALL OPENINGS ABOVE MEZZANINE



5 1-HR RATED, UL NO. V-450  
STC RATING: 48

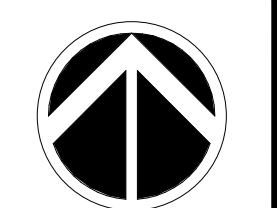
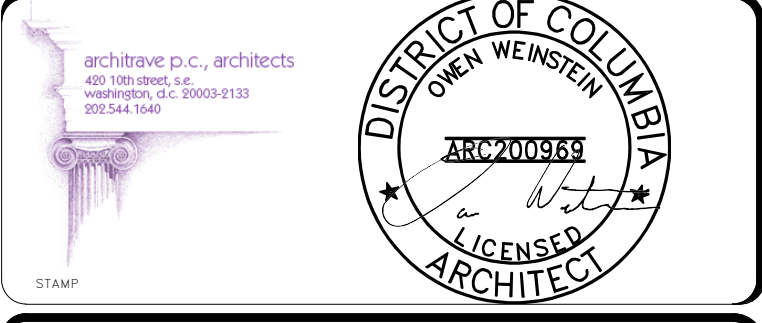


T1 TEMPORARY CONSTRUCTION PARTITION,  
1-HR RATED PER UL#V450

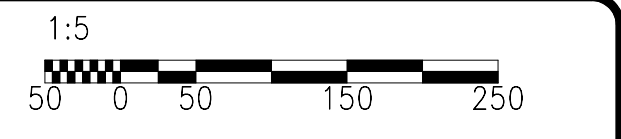
# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION



KEY PLAN



GRAPHIC SCALE(S)

DATE	07/12/24	REVISION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

**Smithsonian Institution**

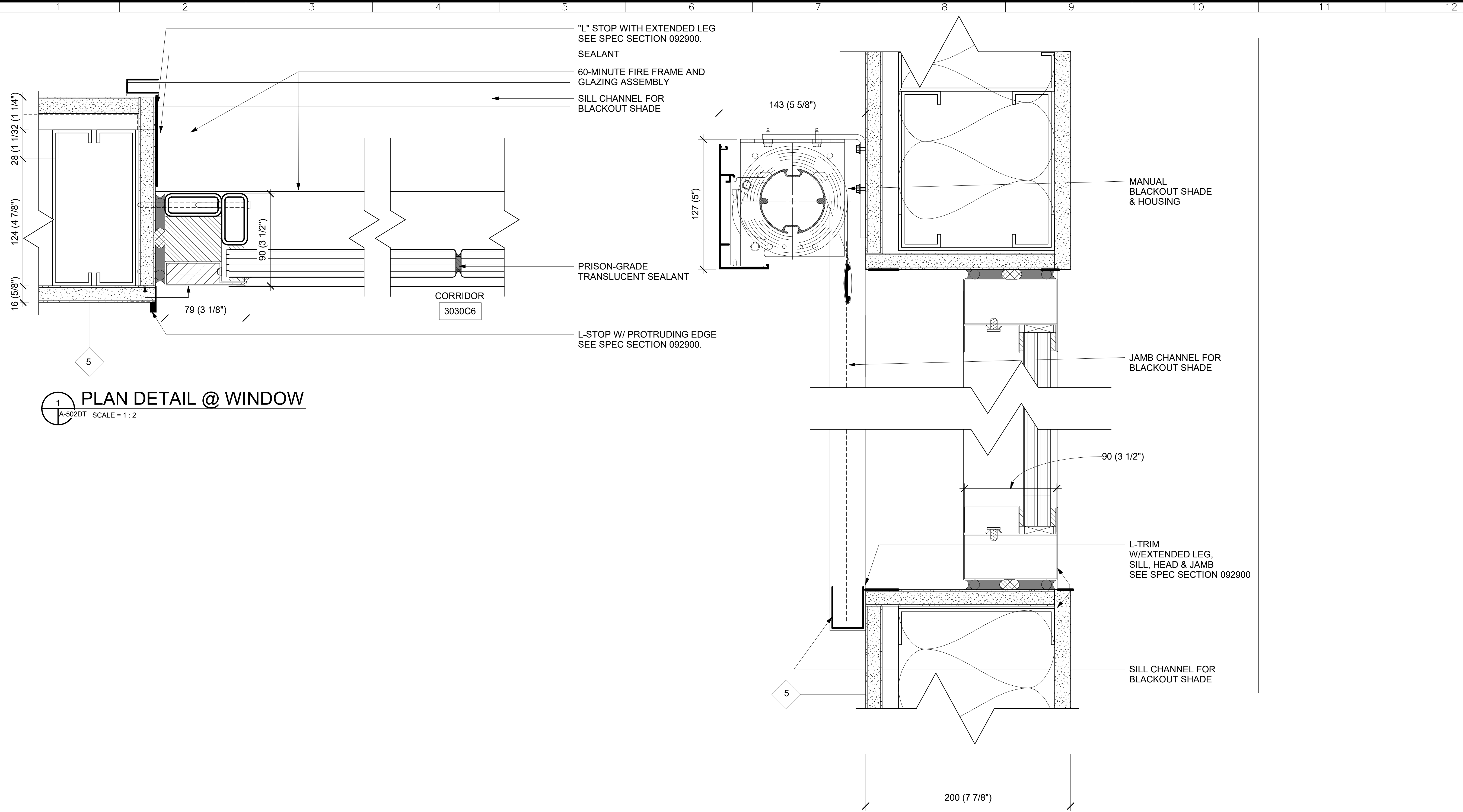
Smithsonian Facilities  
600 Maryland Avenue S.W., Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35

DRAWING TITLE	WALL TYPES		
WORKING STAFF	MM	TS JM	MM
	DESIGNED BY	DRAWN BY	CHECKED BY

SHEET NO.	A - 501DT
13 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

7/31/2024 4:54:51 PM  
A-502DT BY Approver 08/01/24 FINAL SUBMISSION



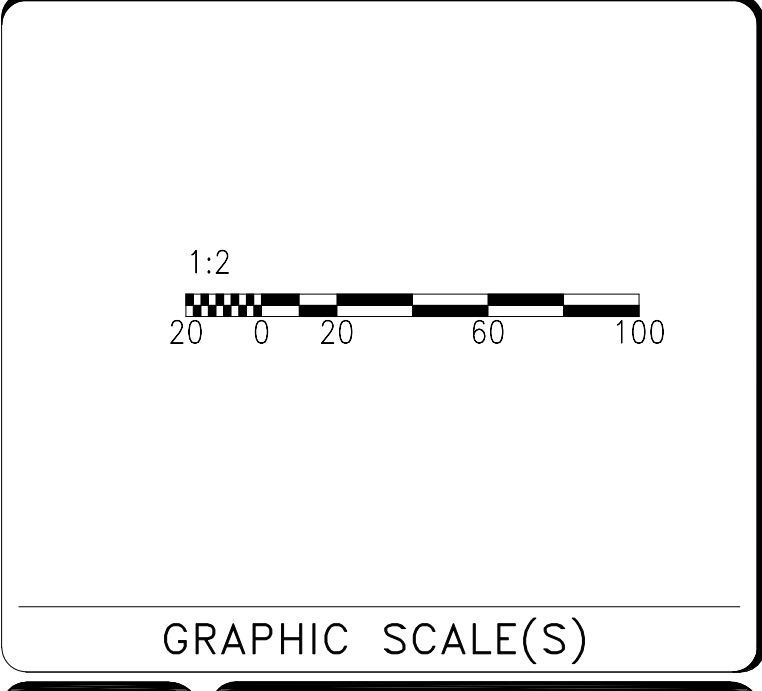
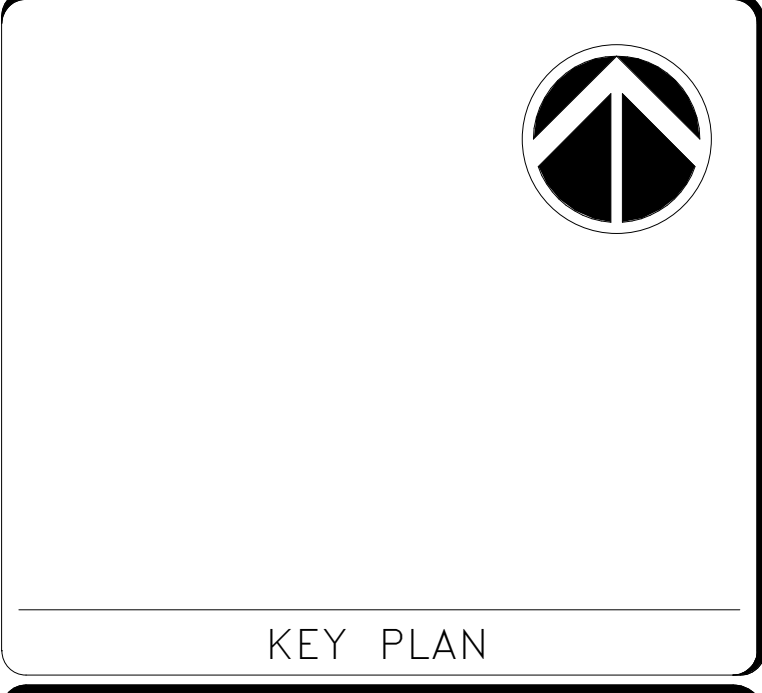
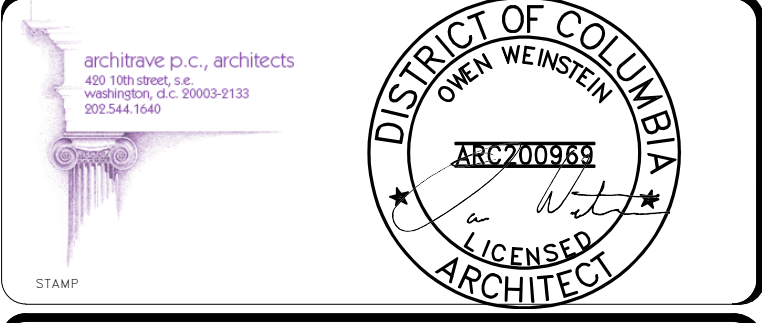
1 PLAN DETAIL @ WINDOW  
A-502DT SCALE = 1:2

2 SECTION DETAIL @ WINDOW  
A-502DT SCALE = 1:2

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION



DATE	07/12/24	REVISION	FINAL SUBMISSION
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Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	DETAILS
WORKING STAFF	MM      TS      MM
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. **A-502DT**  
14 of 41

ROOM FINISH SCHEDULE													
ROOM NO	ROOM NAME	FLOOR MAT.	BASE				WALL				CEILING		REMARKS
			NORTH	EAST	SOUTH	WEST	NORTH	EAST	SOUTH	WEST	MAT.	HEIGHT	
3M205B	ETR MEZZANINE	ETR CARPET	ETR	ETR	ETR	ETR	GWB, PT-2	GWB, PT-2	GWB, PT-2	PLASTER, PT-2	EXP.	3364	VARIES
3000C6	CORRIDOR	ETR	ETR	ETR	6" VINYL @ 3204	ETR	ETR	ETR	GWB, PT-1 @ 3204	N.A	ETR		VARIES
3020	LANDMARK 3E	ETR	ETR	ETR	6" VINYL @ 3204	ETR	ETR	ETR	GWB, PT @ 3204	N.A.	ETR		3962 (13'-0")
3204	CONSERVATION SPACE	RES TILE ON ETR WD & TER	VINYL	VINYL	4" VINYL	VINYL	GWB, PT-2	GWB, PT-2	GWB, PT-2	PLASTER, PT-2	APC		3962 (13'-0")

DOOR SCHEDULE																
DOOR NUMBER	ELEV	DOOR						FRAME						FIRE RATING	HDW	REMARKS
		WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	BOTTOM SEAL	ELEV	MATERIAL	FINISH	HEAD	JAMB	SILL			
1	ETR	915 (PR)	2134	44	H.M.	PT	5	A	H.M.	PT	EX	EX	TS	ETR 90 MIN	5	ETR DOUBLE EGRESS
3001	A	1829(PR)	2134	44	H.M.	PT	4	A	H.M.	PT	1	1	TS	45 MIN		DOUBLE EGRESS
3002	B	1219(PR)	2440	44	H.M.	PT	---	B	H.M.	PT	1 SIM	2	TS	45 MIN		DOUBLE LEAF DOOR

**SHEET KEY**

APC ACOUSTIC PANEL CEILING & GRID  
 GWB GYPSUM WALL BOARD  
 EXP EXPOSED (NO CEILING)  
 MPC METAL PANEL CEILING & GRID  
 PT PAINT TO BE SELECTED BY COTR FROM MNFR'S FULL RANGE  
 TERR TERRAZZO  
 WD WOOD (RANDOM OAK BOARDS)

**WINDOW TYPES**

W1 WINDOW AND FRAME ASSEMBLY; SEE 2/A202EL. PROVIDE MANUAL BLACK-OUT SHADE.

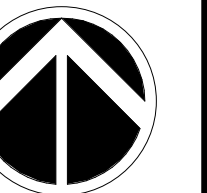
**WALL TYPES**

5 WALL ASSEMBLY; SEE A501DT

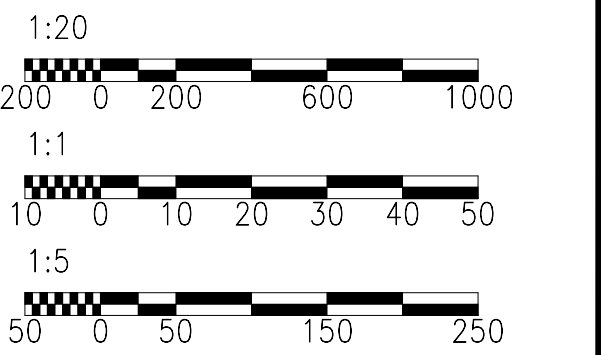
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## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION



1:2000  
KEY PLAN

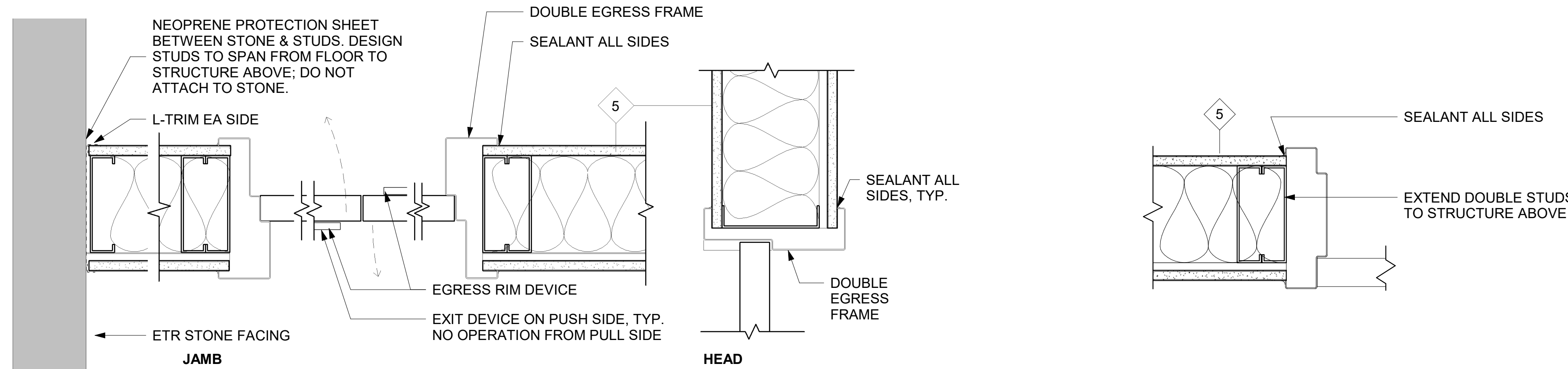


GRAPHIC SCALE(S)

DATE 07/12/24	REVISION FINAL SUBMISSION
REVISION #	DATE
REVISION DESCRIPTION	

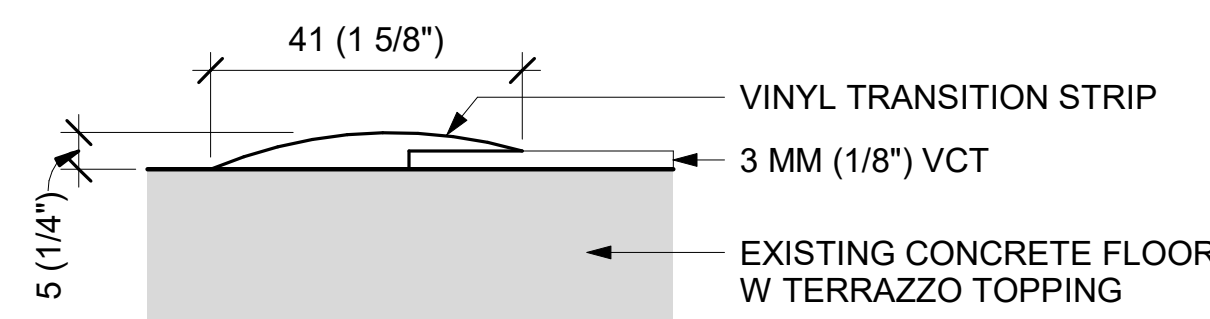
**Smithsonian Institution**  
 Smithsonian Facilities  
 600 Maryland Avenue S.W. Suite 5001  
 Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	SCHEDULES
WORKING STAFF	MM AH TS MM
DESIGNED BY	DRAWN BY
CHECKED BY	
SHEET NO.	A-601SH
15 of 41	

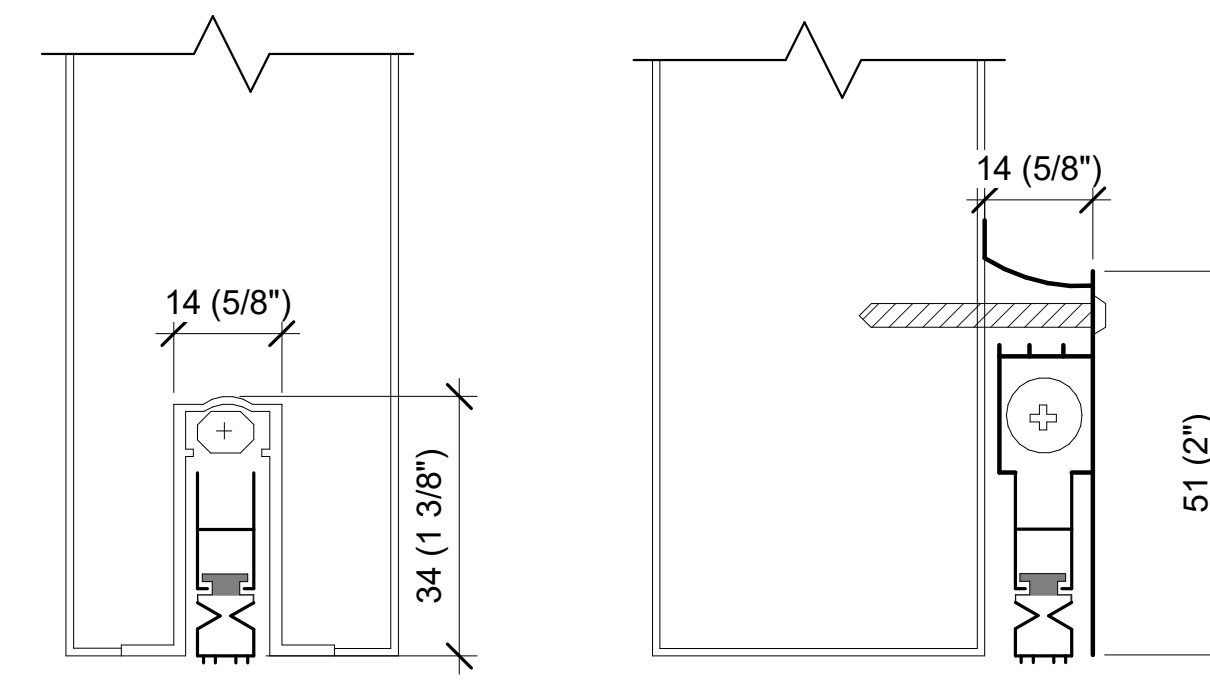


1 DETAIL - DOUBLE EGRESS DOOR 3001  
1:5

2 JAMB DETAIL - 1 HR RATED  
1:5

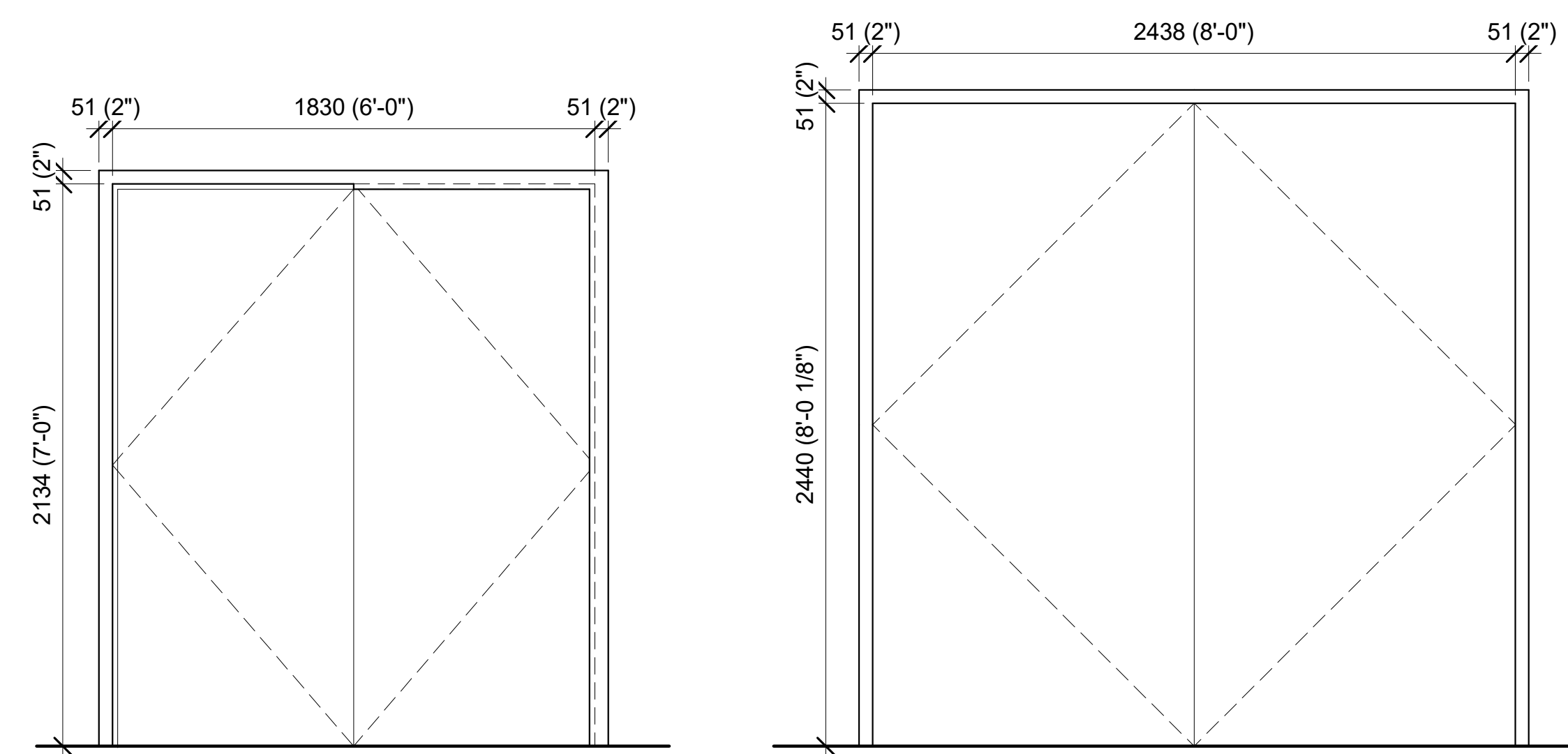


3 TRANSITION STRIP  
1:1



4 BOTTOM SEAL - MORTICE  
1:1

5 BOTTOM SEAL - SURFACE MOUNTED  
1:1



6 DOOR AND FRAME ELEVATIONS  
1:20

CODES AND STANDARDS

- A. WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT, AND THE INTERNATIONAL BUILDING CODE, 2018.
- B. ALL CODES, REFERENCES AND STANDARDS REFERRED TO SHALL BE THE CURRENT VERSION UNLESS A DIFFERENT VERSION IS LISTED IN THE BUILDING CODE.

DESIGN AND LOADING CRITERIA

- A. EXISTING LIVE LOAD CAPACITIES
  - 1. THE EXISTING ALLOWABLE LIVE LOAD CAPACITIES ARE AS FOLLOWS: GALLERY SPACE = 100 PSF.
  - 2. TEMPORARY SHORING AND/OR BRACING SHALL BE PROVIDED WHEREVER THE LOADING FROM THE CONTRACTOR'S WORK EXCEEDS THE ALLOWABLE LOAD CAPACITIES OF THE EXISTING STRUCTURE.

LIGHT GAGE METAL FRAMING

- A. LIGHT GAGE METAL FRAMING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS," NAS-07 WITH 2010 SUPPLEMENT.
- B. PROVIDE DESIGN AND DETAILING FOR LIGHTGAGE FRAMING AND SUBMIT CALCULATIONS AND SHOP DRAWINGS UNDER THE SEAL AND SIGNATURE OF AN ENGINEER LICENSED TO PRACTICE IN THE LOCAL JURISDICTION. DESIGN LIGHT GAGE MEMBERS IN ACCORDANCE WITH MANUAL OF THE LIGHT GAGE STRUCTURAL INSTITUTE, "LIGHT GAGE STRUCTURAL STEEL FRAMING SYSTEM DESIGN HANDBOOK." THE SUBMISSION SHALL ALSO INCLUDE:
  - 1. CROSS-SECTIONS, PLANS AND ELEVATIONS.
  - 2. CONNECTION DETAILS SHOWING REQUIRED SCREWS/WELDS/PAF'S.
  - 3. FLOOR TO FLOOR ELEVATIONS.
  - 4. DIMENSIONS.
  - 5. BRIDGING LOCATIONS.
- C. LIGHTGAGE FRAMING MEMBERS: SHALL BE IN ACCORDANCE WITH ASTM A-653, FY = 33,000 PSI MIN.
- D. ALL WELDING SHALL BE IN ACCORDANCE WITH THE "AMERICAN WELDING SOCIETY D.1.3, 1998 STRUCTURAL WELDING CODE FOR SHEET STEEL." MIN. 14 GAUGE MEMBERS SHALL BE USED AT WELDED CONNECTIONS. ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
- E. ALL AXIALLY LOADED STUDS SHALL HAVE FULL BEARING INSIDE TRACK WEB PRIOR TO ATTACHMENT. NO SPLICES IN LOADED STUDS ARE PERMITTED.
- F. WALL STUD BRACING SHALL BE INSTALLED AT THIRD POINTS IN ALL BEARING PARTITIONS; AT MID-HEIGHT IN NON-LOAD BEARING PARTITIONS.
- G. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS, OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP TRACK.
- H. DOUBLE STUDS AND WEB STIFFENERS SHALL BE PROVIDED AT ALL JOIST HEADER BEARING POINTS.
- I. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
- J. ALL LIGHT GAGE FRAMING SHALL BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR THE CODE REQUIRED LOADS. SHOP DRAWINGS SHALL BE PREPARED UNDER AND STAMPED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION SUBMITTED TO THE COTR FOR APPROVAL.
- K. INTERIOR WALLS STUDS: MAX SPACING = 24" MAX DEFL = L/360 VERTICAL SPAN TO 10'-0": MIN. WEB = 3 5/8" PER ARCHITECTURAL DRAWINGS.

GENERAL

- A. INFORMATION SHOWN REGARDING EXISTING CONDITIONS HAS BEEN OBTAINED BY LIMITED VISUAL OBSERVATIONS AND/OR FROM EXISTING DRAWINGS PROVIDED BY THE COTR. AREAS NOT VISIBLE HAVE BEEN ASSUMED TYPICAL WITH OBSERVED EXISTING CONDITIONS.
- B. MEASURE AND PROVIDE ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE PRIOR TO CONSTRUCTION AND THE SUBMISSION OF SHOP DRAWINGS, AND NOTIFY THE COTR IMMEDIATELY OF ANY DISCREPANCIES. VERIFICATION AND NOTIFICATION SHALL PROCEED 2 WEEKS PRIOR TO THE START OF WORK SO THAT ANY NECESSARY CHANGES CAN BE MADE WITHOUT DELAYING THE PROJECT SCHEDULE.
- C. DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS OTHERWISE SHOWN OR NOTED.
- D. SHOP DRAWINGS SUBMITTED TO THE COTR SHALL BEAR THE CONTRACTOR'S STAMP, DATE AND SIGNATURE VERIFYING DOCUMENTS HAVE BEEN REVIEWED AND CORRECTED FOR CONFORMANCE TO AND COORDINATION WITH CONTRACT DOCUMENTS.
- E. FABRICATION SHALL PROCEED ONLY AFTER SHOP DRAWING APPROVAL BY THE COTR.
- F. DO NOT REPRODUCE ANY PORTION OF CONTRACT DOCUMENTS IN THE SHOP DRAWINGS.
- G. INSPECTION REPORTS AND MATERIALS TESTING REPORTS SHALL BE SUBMITTED TO THE COTR IN A TIMELY MANNER SUCH THAT CONSTRUCTION DELAY WILL BE AVOIDED.
- H. MEANS AND METHODS OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- I. WHERE THE CONTRACTOR IS REQUIRED TO ENGAGE A PROFESSIONAL ENGINEER TO DESIGN AND SUBMIT CALCULATIONS, AND WHERE THE PROFESSIONAL ENGINEER PREPARES THE CALCULATIONS USING A COMPUTER SOFTWARE SYSTEM, THE SOFTWARE SHALL BE A READILY AVAILABLE, INDUSTRY STANDARD STRUCTURAL ENGINEERING COMMERCIAL SYSTEM IN COMMON USE.

INSPECTION

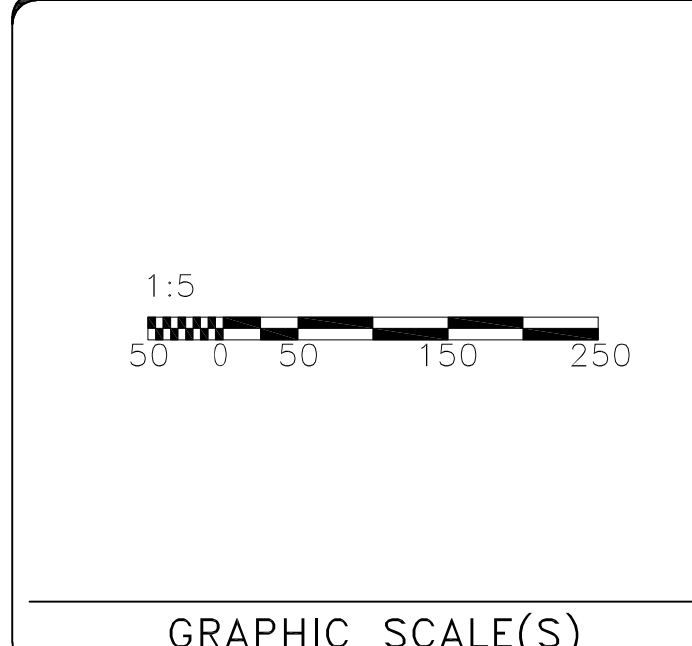
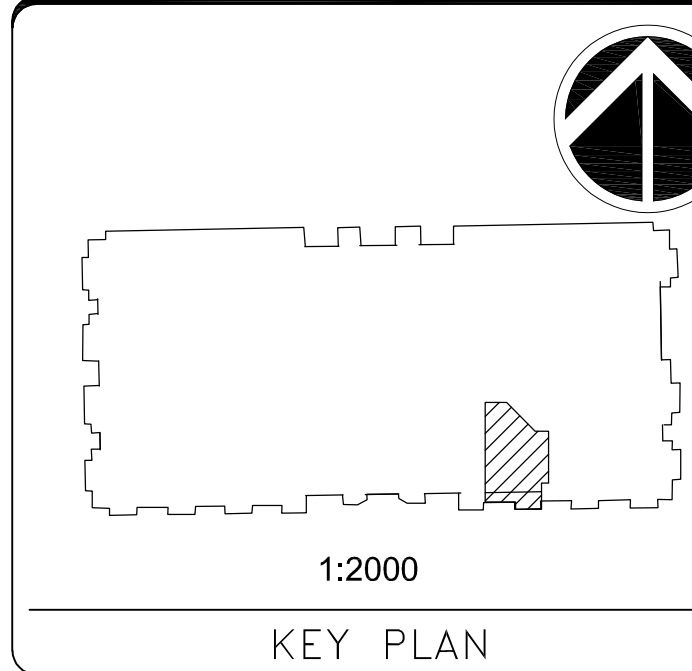
THE CONTRACTOR SHALL RETAIN THE SERVICES OF A TESTING AND INSPECTION AGENCY TO PERFORM THE SERVICES SPECIFIED.

- A. MINIMUM SERVICES PROVIDED SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL JURISDICTION.
- B. FAILURE TO RETAIN A TESTING AGENCY TO PROVIDE REQUIRED SERVICES OR A FAILURE TO SUBMIT SIGNED AND SEALED REPORTS SHALL BE CONSIDERED NON-COMPLIANCE WITH CONTRACT DOCUMENTS.
- C. CONSTRUCTION CONSIDERED NON-COMPLIANT SHALL BE REMOVED AND REPLACED.
- D. ALL INSPECTION SHALL BE UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE LOCAL JURISDICTION.
- E. PRELIMINARY HANDWRITTEN SITE VISIT REPORTS CONFIRMING VERBAL DISCUSSIONS SHALL BE PROVIDED TO THE CONTRACTOR ON RESULTS OF INSPECTIONS PRIOR TO LEAVING JOB SITE.
- F. FINAL REPORTS SHALL BE SUBMITTED TO THE COTR IN A TIMELY MANNER, BUT NO LATER THAN TEN (10) DAYS FOLLOWING INSPECTION OR TESTING. UNDER THE NAME AND SIGNATURE OF THE INSPECTOR AND LICENSURE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR TESTING AND INSPECTION.
- G. INSPECTION SHALL MINIMALLY INCLUDE THE FOLLOWING:
  - 1. CONCRETE: ALL STRUCTURAL CONCRETE; STRENGTH, TYPE, SLUMP, PLACEMENT, AND CONCRETE ADDITIVES.

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

**FOR CONSTRUCTION**



DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION # DATE		REVISION DESCRIPTION	

### Smithsonian Institution

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
USER/PROJECT NUMBER	2003106
A/E PROJECT NUMBER	T401.35

DRAWING TITLE	STRUCTURAL DESIGN NOTES		
DRAWING STAFF	DS	SO	DB
	DESIGNED BY	DRAWN BY	CHECKED BY

SHEET NO.	S - 100
16 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE



7/31/2024 4:57:09 PM  
M-001 BY Approver Enter Issue Date FINAL SUBMISSION

### MECHANICAL SYMBOLS AND ABBREVIATIONS

#### GENERAL

SYMBOL	ABBR.	TYPE OF PIPE
	--	DETAIL OR DIAGRAM NO. 3 SHOWN ON DRAWING NO. 9
	--	SECTION NO. 3 FROM DRAWING NO. 7 SHOWN ON DRAWING NO. 9 (ARROW DENOTES SECTION)
	--	POINT OF CONNECTION, NEW TO EXISTING
	--	DEMOLITION WORK TERMINATION POINT
	--	SYMBOL FOR SPECIFIC NOTE. NOTE APPLIES TO DRAWING ON WHICH IT OCCURS.
Ø		INDICATES DIAMETER
ABV		ABOVE
AFF		ABOVE FINISHED FLOOR
ALUM		ALUMINUM
APD		AIR PRESSURE DROP
AWT		AVERAGE WATER TEMPERATURE
BLDG		BUILDING
BLW		BELOW
BTM		BOTTOM
BTUH		BRITISH THERMAL UNITS PER HOUR
C		CELSIUS
CFM		CUBIC FEET PER MINUTE
CLG		CEILING
CONN		CONNECT, CONNECTION
CONTN		CONTINUATION
DB		DRY BULB
DIA		DIAMETER
DWG		DRAWING
EAT		ENTERING AIR TEMPERATURE
EDB		ENTERING DRY BULB
ELEV		ELEVATION OR ELEVATOR
ESP		EXTERNAL STATIC PRESSURE
ETR		EXISTING TO REMAIN
EWB		ENTERING WET BULB
EWT		ENTERING WATER TEMPERATURE
EX		EXISTING
EXP		EXPANSION
F		FAHRENHEIT
FL		FLOOR
FPS		FEET PER SECOND
FT		FEET
FT HD		FEET OF HEAD
GALV		GALVANIZED
GPM		GALLONS PER MINUTE
IN		INCH, INCHES
LAT		LEAVING AIR TEMPERATURE
LB(S)		POUND(S)
LDB		LEAVING DRY BULB
LF		LINEAR FEET
LWB		LEAVING WET BULB
LWT		LEAVING WATER TEMPERATURE
MAX		MAXIMUM
MBH		THOUSAND BTU'S PER HOUR
MECH		MECHANICAL
MFR		MANUFACTURER
MIN		MINIMUM
MTD		MOUNTED
NIC		NOT IN CONTRACT
PD		PRESSURE DROP
PSIG		POUNDS PER SQUARE INCH GAUGE
PSI		POUNDS PER SQUARE INCH
REQ'D		REQUIRED
RPM		REVOLUTIONS PER MINUTE
RX		REMOVE EXISTING
SF		SQUARE FEET
SM		SHEET METAL
SPEC		SPECIFICATION
SQ		SQUARE
S/S		STAINLESS STEEL
STL		STEEL
TEMP		TEMPERATURE
TSP		TOTAL STATIC PRESSURE
TYP		TYPICAL
UON		UNLESS OTHERWISE NOTED
W		WITH
W/O		WITHOUT
WB		WET BULB
WC		WATER COLUMN
MEZZ		MEZZANINE

#### CONTROLS

SYMBOL	ABBR.	ITEM
	--	TEMPERATURE SENSOR
	--	HUMIDITY SENSOR
ATC		AUTOMATIC TEMPERATURE CONTROL
DDC		DIRECT DIGITAL CONTROL

#### ELECTRICAL

SYMBOL	ABBR.	ITEM
ELEC		ELECTRIC
FLA		FULL LOAD AMPERES
HP		HORSEPOWER
LRA		LOCKED ROTOR AMPERES
MCA		MINIMUM CIRCUIT AMPACITY
MOP		MAXIMUM OVERCURRENT PROTECTION
RLA		RUNNING LOAD AMPERES

#### EQUIPMENT

SYMBOL	ABBR.	ITEM
AHU		AIR HANDLING UNIT
EF		EXHAUST FAN
SF		SUPPLY FAN
VAV		VARIABLE AIR VOLUME

#### DUCTWORK AND ACCESSORIES

SYMBOL	ABBR.	ITEM
	MVD	MANUAL VOLUME DAMPER
	F/D	FIRE DAMPER
	--	DUCT (SIZE IN INCHES, FIRST FIGURE SIDE SHOWN)
	--	SUPPLY OR OUTDOOR AIR DUCT SECTION
	--	RETURN OR EXHAUST AIR DUCT SECTION
	--	AIR DEVICE WITH 2x2' LAY-IN PANEL
	--	SQUARE TO ROUND TRANSITION
	--	INCLINED DROP IN DIRECTION OF ARROW
	--	INCLINED RISE IN DIRECTION OF ARROW
	--	FLEXIBLE CONNECTION (DUCTWORK)
	--	ROUND FLEXIBLE DUCT
	--	ROUND STRAIGHT DUCT TAP FITTING WITH MANUAL VOLUME DAMPER CONNECTING TO RECTANGULAR DUCT
	--	ROUND CONICAL DUCT TAP FITTING WITH MANUAL VOLUME DAMPER CONNECTING TO RECTANGULAR DUCT
	--	ROUND CONICAL DUCT TAP FITTING CONNECTING TO RECTANGULAR DUCT
	--	RECTANGULAR 45 DEGREE DUCT TAP FITTING
	--	DIFFUSER DESIGNATION (EXAMPLE). TOP LINE INDICATES FACE SIZE, SECOND LINE INDICATES AIRFLOW, THIRD LINE INDICATES THROW PATTERN (IF OTHER THAN STANDARD 4-WAY). NECK SEIZE EQUAL TO DUCT RUNOUT AS NOTED ON PLAN.
	--	12"x12" SR 300 CFM (2-WAY)
A/D		ACCESS DOOR
CA		CONDITIONED OUTDOOR AIR
EA		EXHAUST AIR
FOB		FLAT ON BOTTOM
FOT		FLAT ON TOP
LSD		LINEAR SLOT DIFFUSER
OA		OUTDOOR AIR
OED		OPEN END DUCT WITH 1/2" FRAMED WIRE MESH SCREEN
RA		RETURN AIR
REG		REGISTER
RG		RETURN GRILLE
RR		RETURN REGISTER
SA		SUPPLY AIR
SD		SUPPLY DIFFUSER
SG		SUPPLY GRILLE
SP		STATIC PRESSURE
SPD		STATIC PRESSURE DROP
SR		SUPPLY REGISTER
TA		TRANSFER AIR
TG		TRANSFER GRILLE

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

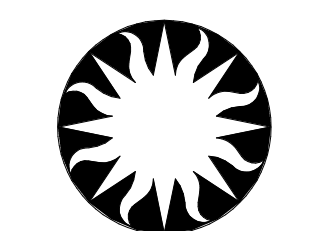
FOR CONSTRUCTION



KEY PLAN

GRAPHIC SCALE(S)

DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	



## Smithsonian Institution

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH												
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560												
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE												
SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	MECHANICAL SYMBOLS AND ABBREVIATIONS												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>TMH</td> <td>AZS</td> <td>JSC</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	TMH	AZS	JSC	DRAWN BY				CHECKED BY			
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SHEET NO.	M - 0 0 1												
17 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE												

**HAZARDOUS MATERIALS WARNING:**

HAZARDOUS BUILDING MATERIALS ('HAZMATS') ARE LIKELY PRESENT AND ARE ANTICIPATED TO BE IMPACTED DURING THIS PROJECT INCLUDING ASBESTOS CONTAINING MATERIALS (ACM). THERE IS NO SAFE LEVEL OF EXPOSURE TO HAZMATS. NOTIFY THE GOVERNMENT BEFORE DISTURBING ANY SUSPECT MATERIALS THAT HAVE NOT ALREADY BEEN IDENTIFIED AND AWAIT FURTHER DIRECTION FROM GOVERNMENT. ALL IDENTIFIED AND SUSPECTED HAZMATS SHALL BE ASSUMED POSITIVE, REGARDLESS THE AGE OF CONSTRUCTION, UNLESS APPROPRIATE TESTS DETERMINE THAT NO HAZMATS ARE DETECTED. COMPLY WITH HAZARDOUS MATERIALS SPECIFICATIONS, APPLICABLE FEDERAL (OSHA AND EPA) AND STATE/CITY REQUIREMENTS, AND SPECIFIC CONTROL MEASURES FOR EACH HAZARD.

ACMS SHALL BE ASSUMED IN DUCTWORK MASTIC.

**PRE-CONSTRUCTION TEST AND BALANCING NOTE:**

PRIOR TO START OF PROJECT DEMOLITION, PROVIDE AIR AUDIT OF AC-11 AND ASSOCIATED EXISTING TERMINAL UNITS SERVED BY AC-11, INCLUDING BUT NOT LIMITED TO:

- AC-11 SUPPLY, RETURN, AND OUTDOOR AIRFLOWS
- AC-11 FAN SUCTION/ DISCHARGE PRESSURES
- TERMINAL UNIT AIRFLOWS
- TERMINAL UNIT INLET/OUTLET STATIC PRESSURES

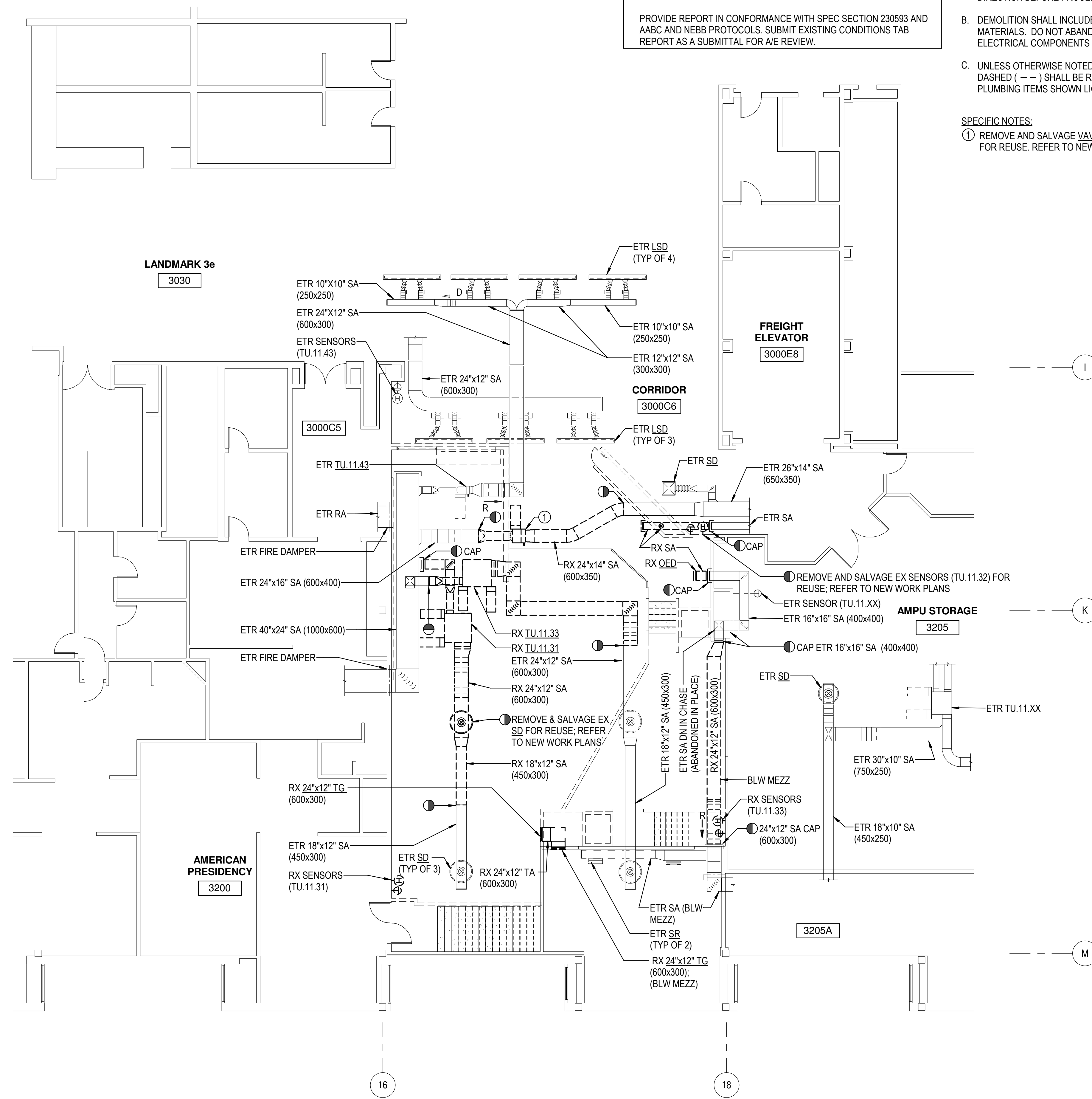
PROVIDE REPORT IN CONFORMANCE WITH SPEC SECTION 230593 AND AABC AND NEBB PROTOCOLS. SUBMIT EXISTING CONDITIONS TAB REPORT AS A SUBMITTAL FOR A/E REVIEW.

**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND MECHANICAL/ PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.

**SPECIFIC NOTES:**

- ① REMOVE AND SALVAGE VAV TERMINAL UNIT (TU.11.32) FOR REUSE. REFER TO NEW WORK PLAN.



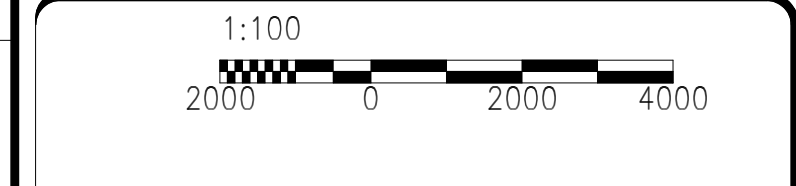
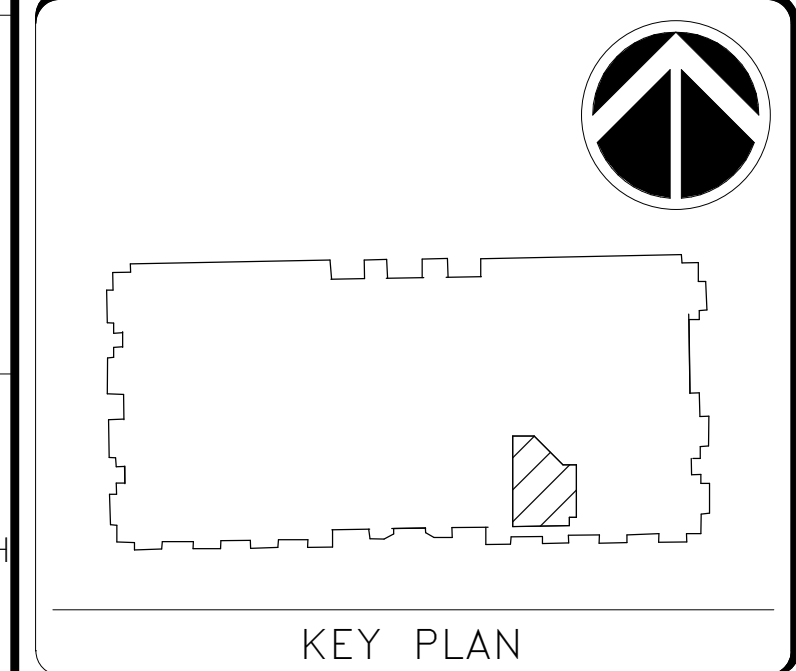
**1 THIRD FLOOR PLAN - HVAC - DEMOLITION**  
M-101FP SCALE = 1 : 100

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

**FOR CONSTRUCTION**

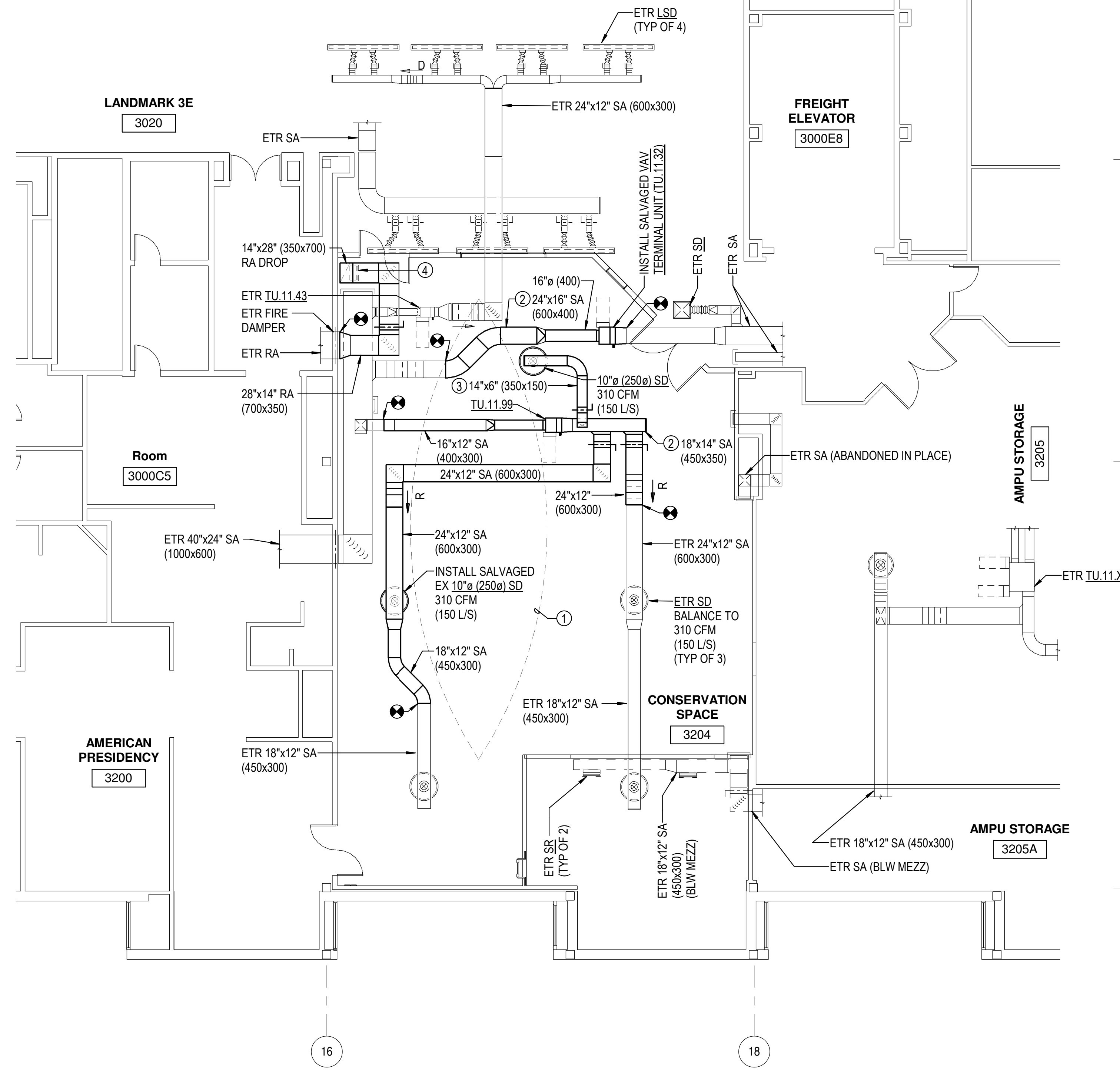
**James Posey Associates**  
Engineering Your Vision  
Mechanical & Electrical Consulting Engineers  
1155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com



DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

**Smithsonian Institution**  
Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH												
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560												
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE												
SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	THIRD FLOOR PLAN - HVAC - DEMOLITION												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>TMH</td> <td>AZS</td> <td>JSC</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	TMH	AZS	JSC	DRAWN BY				CHECKED BY			
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DRAWN BY													
CHECKED BY													
SHEET NO.	M-101FP												
21 OF 57													



**GENERAL NOTES:**

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- B. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

**SPECIFIC NOTES:**

- ① HVAC EQUIPMENT AND AIR DEVICES ARE NOT PERMITTED TO BE LOCATED IMMEDIATELY OVER GUNBOAT; GUNBOAT ARTIFACT PERIMETER IS INDICATED ON PLAN.
- ② INSTALL DUCTWORK TIGHT TO UNDERSIDE OF CONCRETE BEAMS.
- ③ INSTALL DUCTWORK HIGH BETWEEN CONCRETE BEAMS.
- ④ (2) 24"x24" (500x500) RG WITH 4" GASKETED FILTER HOUSING, INCLUDING MERV 13 FILTERS; (MOUNT BOTTOM OF AIR DEVICE 8" ABOVE FLOOR). 1550 CFM (735 L/S).

**BALANCING NOTE:**

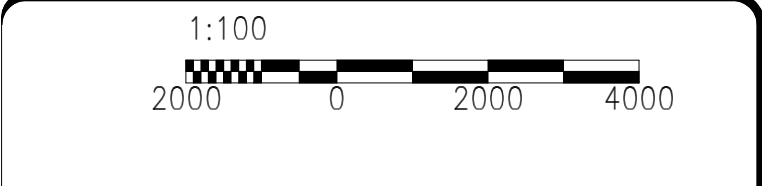
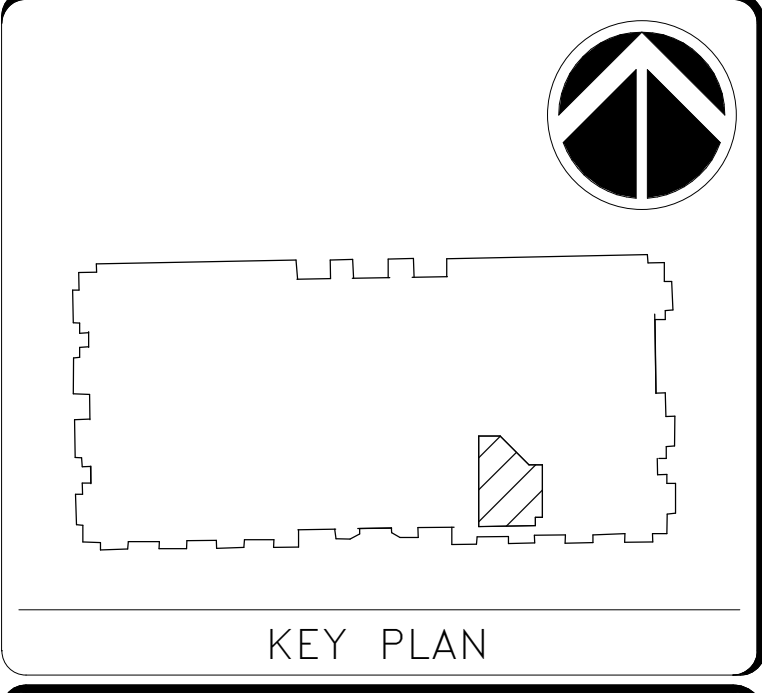
THE CONSERVATION SPACE IS INTENDED TO BE MAINTAINED AT A NEUTRAL PRESSURE RELATIVE TO THE ADJACENT SPACES. BALANCE TO SCHEDULED AIRFLOWS TO MAINTAIN NEUTRAL PRESSURIZATION.

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

**FOR CONSTRUCTION**

**James Posey Associates**  
 Mechanical & Electrical Consulting Engineers  
 1155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com



DATE	REVISION / DESCRIPTION
07/12/24	FINAL SUBMISSION

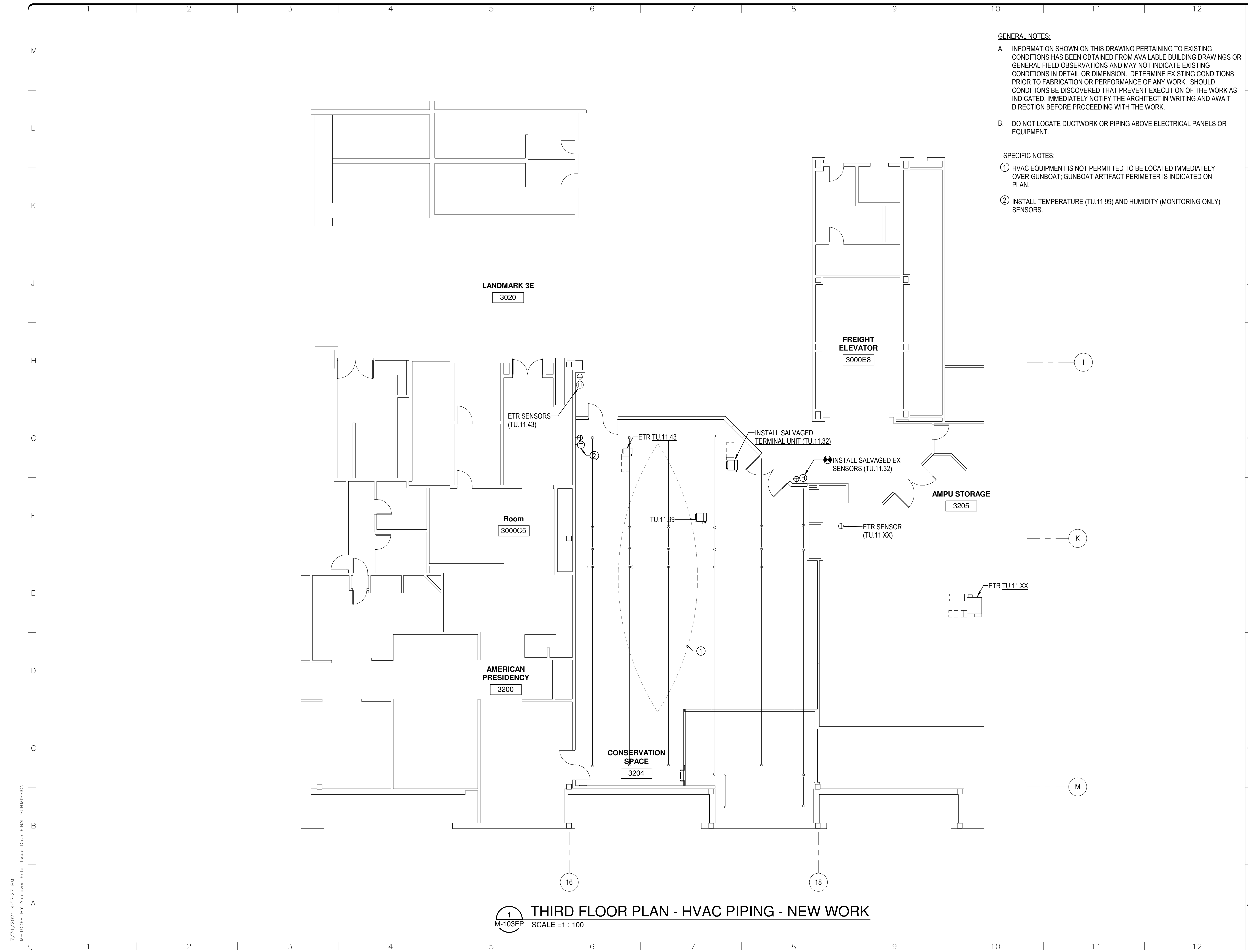
## Smithsonian Institution

Smithsonian Facilities  
 600 Maryland Avenue S.W. Suite 5001  
 Washington, DC 20024-2520

BUILDING NAME	NMAH												
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560												
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SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	THIRD FLOOR PLAN - HVAC NEW WORK												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>TMH</td> <td>AZS</td> <td>JSC</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	TMH	AZS	JSC	DRAWN BY				CHECKED BY			
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SHEET NO. 22 of 57

M-102FP



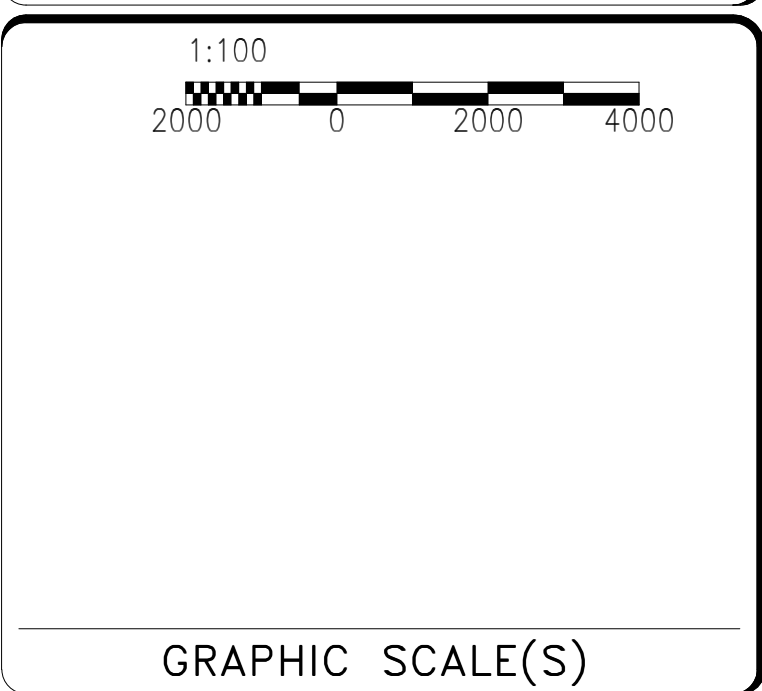
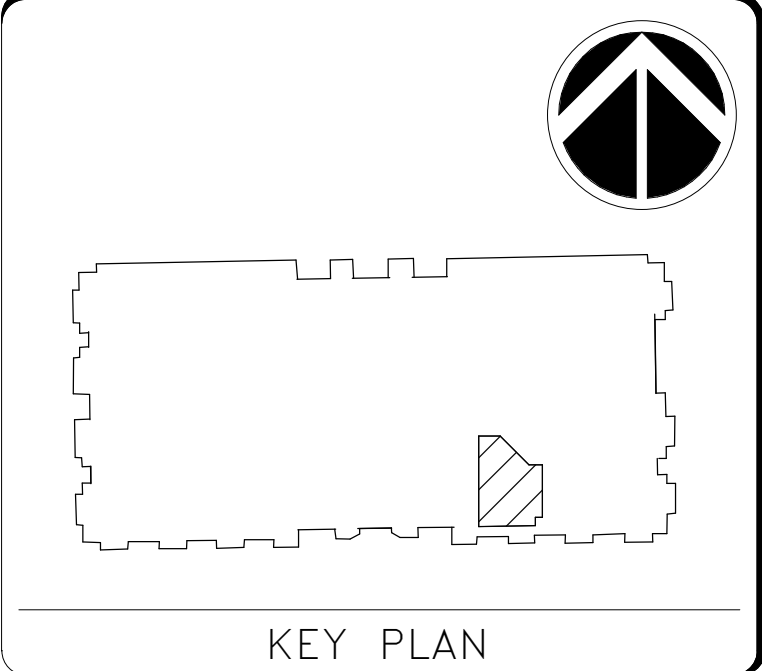
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  - B. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.
- SPECIFIC NOTES:**
- ① HVAC EQUIPMENT IS NOT PERMITTED TO BE LOCATED IMMEDIATELY OVER GUNBOAT; GUNBOAT ARTIFACT PERIMETER IS INDICATED ON PLAN.
  - ② INSTALL TEMPERATURE (TU.11.99) AND HUMIDITY (MONITORING ONLY) SENSORS.

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR  
CONSTRUCTION

**James Posey Associates**  
 Mechanical & Electrical  
 Consulting Engineers  
 1125 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com



DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	DESCRIPTION	

## Smithsonian Institution

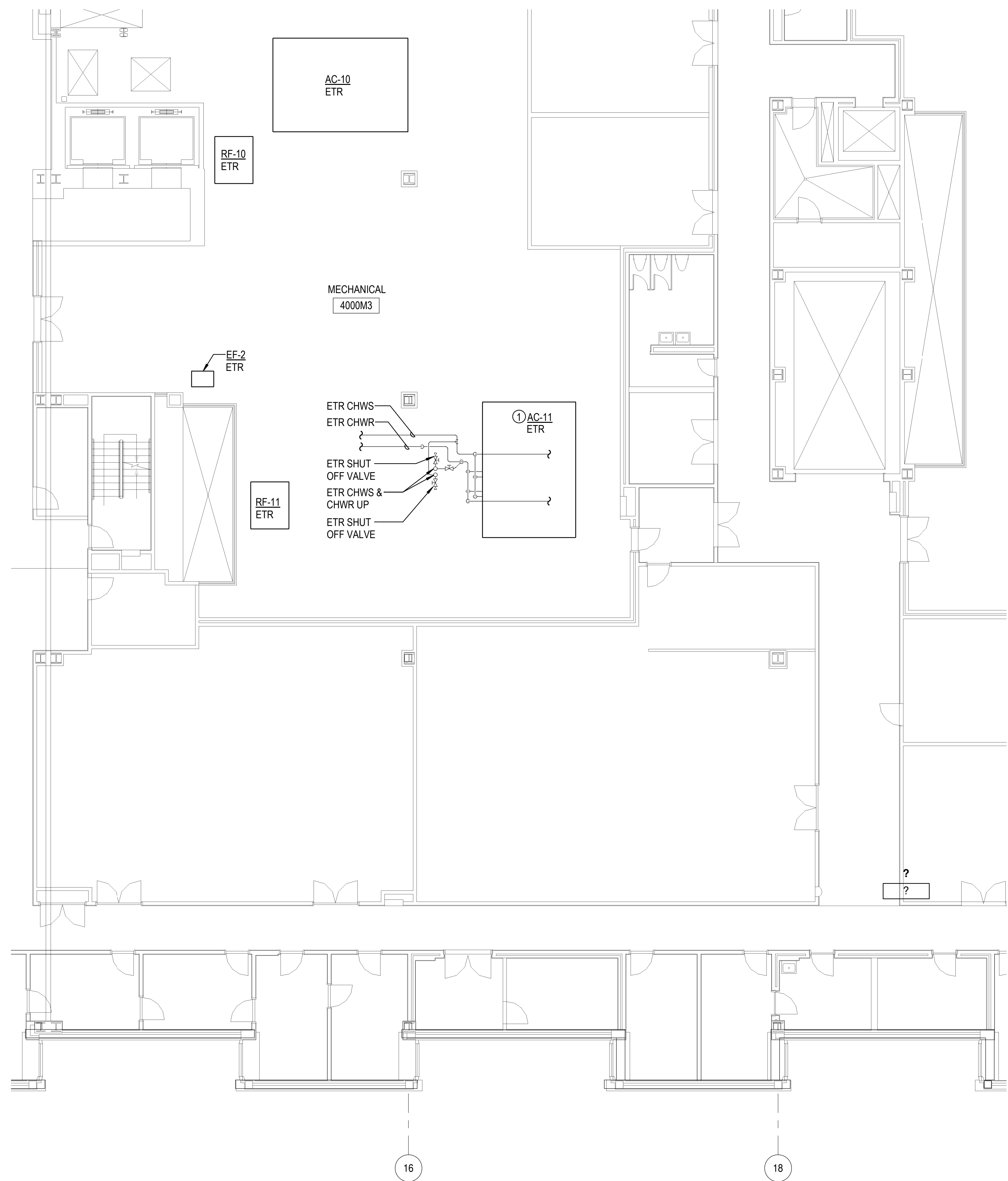
Smithsonian Facilities  
 600 Maryland Avenue S.W. Suite 5001  
 Washington, DC 20024-2520

BUILDING NAME	NMAH												
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560												
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE												
SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	THIRD FLOOR PLAN - HVAC PIPING - NEW WORK												
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SHEET NO.	M-103FP												
20 of 41													

**1** THIRD FLOOR PLAN - HVAC PIPING - NEW WORK  
 SCALE = 1 : 100

7/31/2024 4:57:27 PM M-103FP BY Approver Enter Issue Date FINAL SUBMISSION

7/31/2024 4:57:30 PM  
M-104FP BY Approver Enter Issue Date FINAL SUBMISSION



**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

**SPECIFIC NOTES:**

- ① PROVIDE PRE-CONSTRUCTION TESTING AND BALANCING; SEE BOX NOTE BELOW FOR ADDITIONAL DETAIL

**PRE-CONSTRUCTION TEST AND BALANCING NOTE:**

PRIOR TO START OF PROJECT DEMOLITION, PROVIDE AIR AUDIT OF AC-11 AND ASSOCIATED EXISTING TERMINAL UNITS SERVED BY AC-11, INCLUDING BUT NOT LIMITED TO:

- AC-11 SUPPLY, RETURN, AND OUTDOOR AIRFLOWS
- AC-11 FAN SUCTION/ DISCHARGE PRESSURES
- TERMINAL UNIT AIRFLOWS
- TERMINAL UNIT INLET/OUTLET STATIC PRESSURES

PROVIDE REPORT IN CONFORMANCE WITH SPEC SECTION 230593 AND AABC AND NEBB PROTOCOLS. SUBMIT EXISTING CONDITIONS TAB REPORT AS A SUBMITTAL FOR A/E REVIEW.

--- I ---

--- K ---

--- M ---

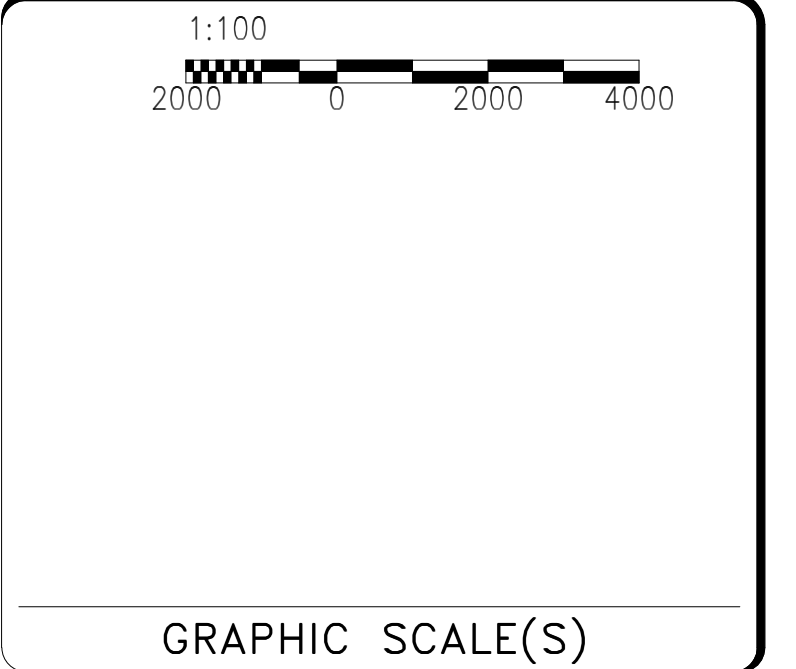
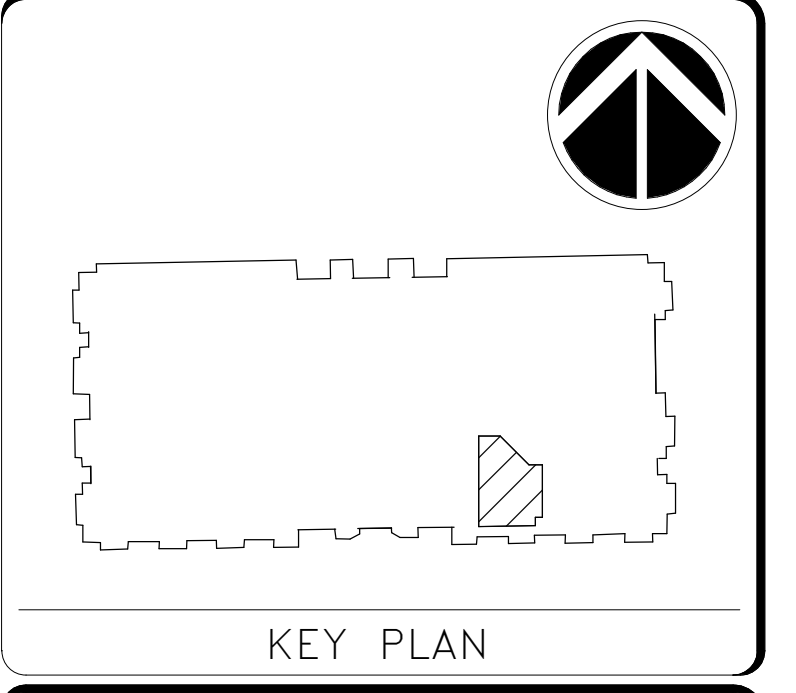
**1** FOURTH FLOOR PLAN - HVAC PIPING - NEW WORK  
SCALE = 1 : 100

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION

**James Posey Associates**  
Engineering Your Vision  
Mechanical & Electrical Consulting Engineers  
1155 Red Run Boulevard, Suite 310  
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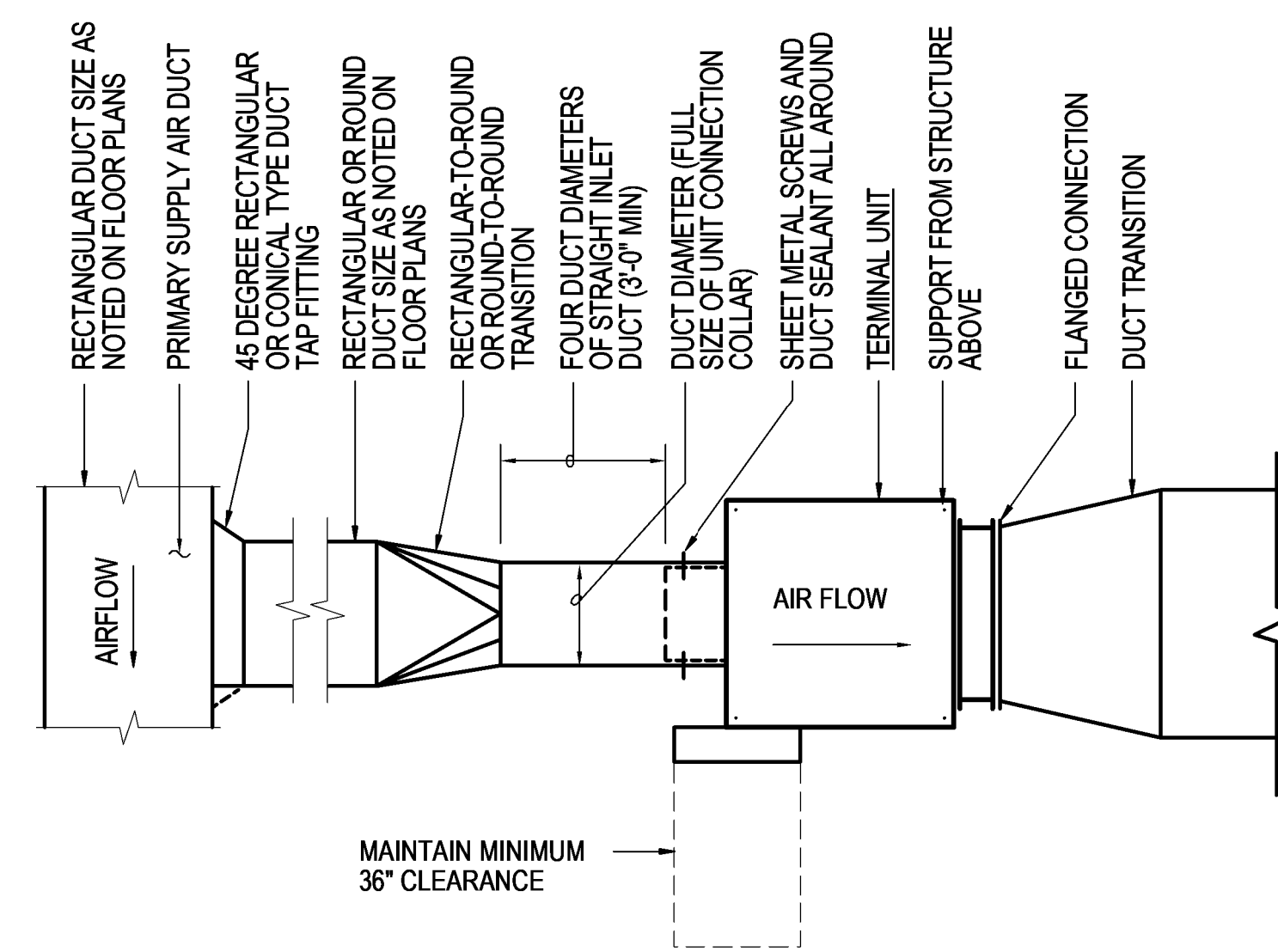
DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	DESCRIPTION	

**Smithsonian Institution**  
Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH												
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560												
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE												
SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	FOURTH FLOOR PLAN -- HVAC PIPING -- NEW WORK												
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SHEET NO.	M - 104FP
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M-500 BY Approver Enter Issue Date FINAL SUBMISSION



MAINTAIN MINIMUM  
36" CLEARANCE

**DETAIL 1**  
**M500**  
**DUCT CONNECTIONS TO**  
**TERMINAL UNIT**  
NOT TO SCALE

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR  
CONSTRUCTION

**James Posey Associates**  
Engineering Your Vision  
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1125 Red Run Boulevard, Suite 310  
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KEY PLAN

GRAPHIC SCALE(S)

DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
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## Smithsonian Institution

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35

DRAWING TITLE	DETAILS AND DIAGRAMS		
WORKING STAFF	TMH	AZS	JSC
DESIGNED BY	DRAWN BY	CHECKED BY	

SHEET NO.	M - 500
22 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

**TERMINAL UNIT SCHEDULE**

DESIG	AREA SERVED	MAX PRIMARY AIRFLOW (CFM) (L/S)	MIN PRIMARY AIRFLOW (CFM) (L/S)	MIN PRIMARY INLET DIA SIZE (IN) (MM)	ELECTRIC HEATING COIL				NOTES
					EAT (F) (C)	LAT (F) (C)	KW	VOLTAGE/PHASE	
TU.11.99	CONSERVATION EXHIBIT (AHU-1 VENTILATION)	1,550	1,550	14	50	80	14.7	480V-3P	1
		731	731	356	10	27			

NOTES:  
1. BASED ON TITUS MODEL "DECY" SINGLE-DUCT TERMINAL UNIT WITH ELECTRIC REHEAT COIL AND SCR MODULATING ELECTRIC HEATING COIL CONTROLLER.

**HVAC DUCT CONSTRUCTION SCHEDULE**

DUCT PRESSURE CLASS REQUIREMENTS									
SYSTEM	SMACNA DUCT PRESSURE CLASS (INCHES WC)							SPECIFIC NOTES	
	SUPPLY		RETURN		EXHAUST		OUTSIDE AIR		
	DISCHARGE	DISCHARGE	SUCTION	DISCHARGE	SUCTION	DISCHARGE	SUCTION		
VAV UNIT INLET	4.0								
VAV UNIT DISCHARGE	3.0								

**GENERAL:**  
 A. MIXED AIR DUCTS (RA & OA) AND INLET PLENUMS SHALL BE CONSTRUCTED SAME AS RETURN DUCTS.  
 B. PRESSURE RELIEF AND TRANSFER DUCTS SHALL BE CONSTRUCTED PER SMACNA 1.0 INCH PRESSURE CLASS.  
 C. PROVIDE DUCT JOINT TYPES WHICH ASSURE COMPLIANCE WITH THE ASSOCIATED LEAKAGE FACTOR SCHEDULED BELOW.

MINIMUM RECTANGULAR DUCT CONSTRUCTION REQUIREMENTS								
2.0 INCHES WC STATIC (POSITIVE OR NEGATIVE)			3.0 INCHES WC STATIC (POSITIVE OR NEGATIVE)			4.0 INCHES WC STATIC (POSITIVE)		
DUCT DIMENSION (INCHES)	MINIMUM STEEL GAGE	MAXIMUM REINFORCEMENT SPACING (FEET)	DUCT DIMENSION (INCHES)	MINIMUM STEEL GAGE	MAXIMUM REINFORCEMENT SPACING (FEET)	DUCT DIMENSION (INCHES)	MINIMUM STEEL GAGE	MAXIMUM REINFORCEMENT SPACING (FEET)
12 DOWN	24	NONE	18 DOWN	24	5.0	18 DOWN	24	5.0
13-30	24	5.0	19-28	22	5.0	19-28	22	5.0
31-36	22	5.0	29-48	22	2.5	29-42	22	2.5
37-48	20	5.0	49-72	20	2.5	43-60	20	2.5

DUCT AIR LEAKAGE REQUIREMENTS				
PRESSURE CLASS (INCHES WC)	LEAKAGE CLASS	TEST PRESS (INCHES WC)	LEAKAGE FACTOR (NOTE 1)	NOTES:
2.0	6	2.0	10	1. DUCT LEAKAGE FACTOR (CFM/100 SQ FT OF DUCT SURFACE AREA), MAXIMUM LEAKAGE RATE AT TEST PRESSURE.
3.0	6	3.0	13	
4.0	3	4.0	8	

**GENERAL:**  
 • THE LEAKAGE REQUIREMENTS SCHEDULED ABOVE ARE FOR STANDARD HVAC APPLICATIONS. FOR DUCT SYSTEMS REQUIRING WELDED JOINTS, THE LEAKAGE FACTOR SHALL BE 0.  
 • PROVIDE JOINT TYPES AND SEALING METHODS AS REQUIRED TO COMPLY WITH THE LEAKAGE FACTOR INDICATED ON THIS SCHEDULE.  
 • UNLESS OTHERWISE NOTED ABOVE, LEAK TEST ALL DUCTS. LEAKAGE RATES SHALL NOT EXCEED LEAKAGE FACTORS INDICATED ON THIS SCHEDULE FOR THE APPLICABLE PRESSURE CLASSES.

**NMAH  
GUNBOAT  
PHILADELPHIA TEMP.  
CONSERVATION  
SPACE**

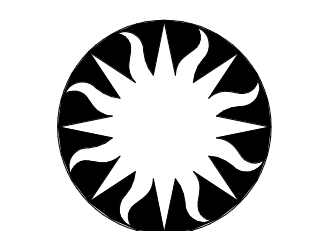
**FOR  
CONSTRUCTION**



KEY PLAN

GRAPHIC SCALE(S)

DATE 07/12/24	SUBMISSION FINAL SUBMISSION
REVISION # DATE	REVISION DESCRIPTION



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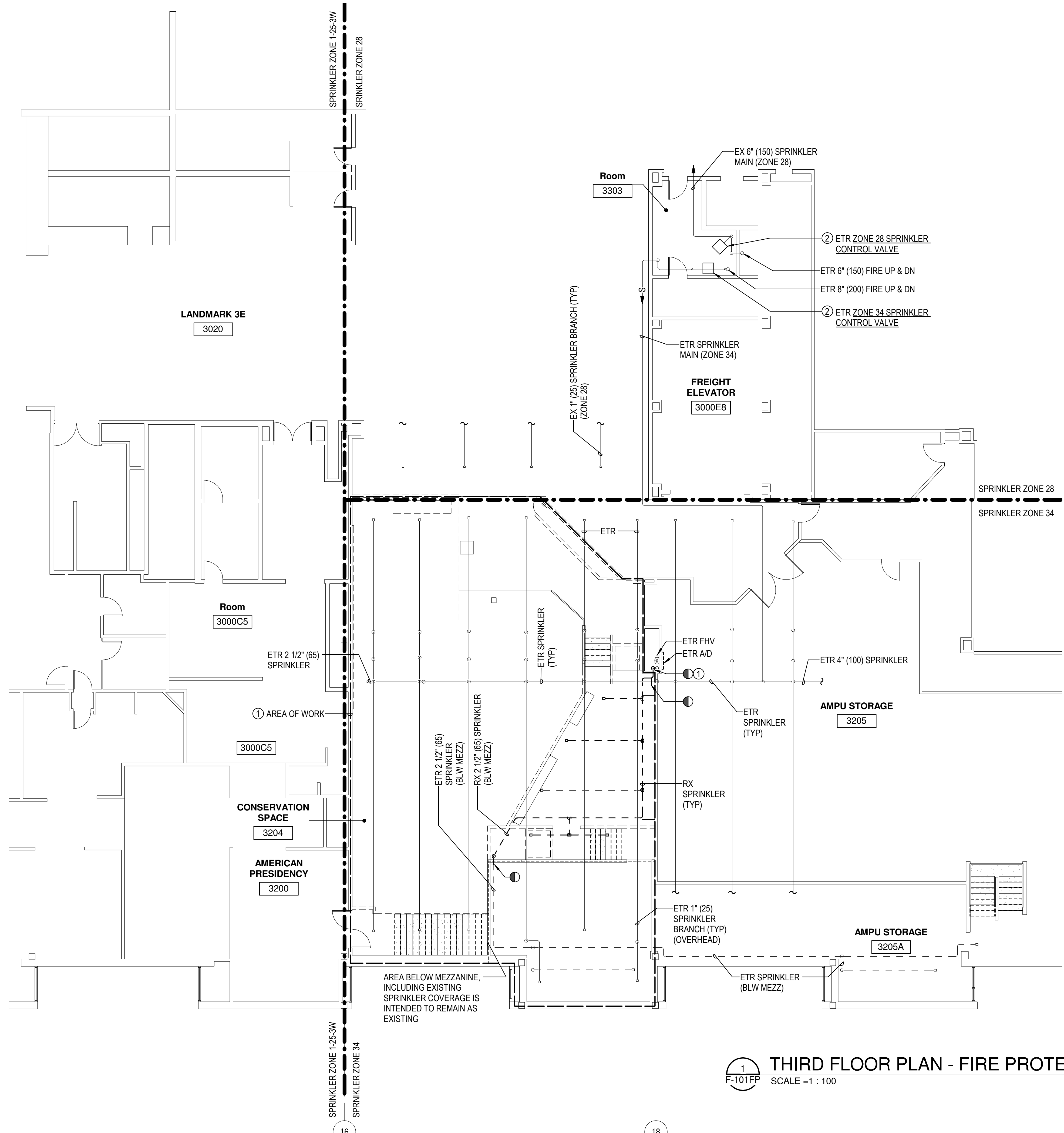
Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH						
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560						
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE						
SF PROJECT NUMBER	2003106						
A/E PROJECT NUMBER	1401.35						
DRAWING TITLE	SCHEDULES						
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> <tr> <td>TMH</td> <td>AZS</td> <td>JSC</td> </tr> </table>	DESIGNED BY	DRAWN BY	CHECKED BY	TMH	AZS	JSC
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SHEET NO.	M - 600						
23 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE						





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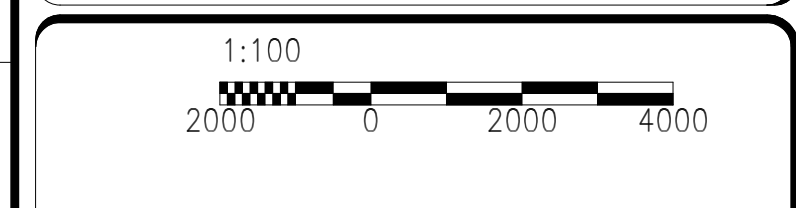
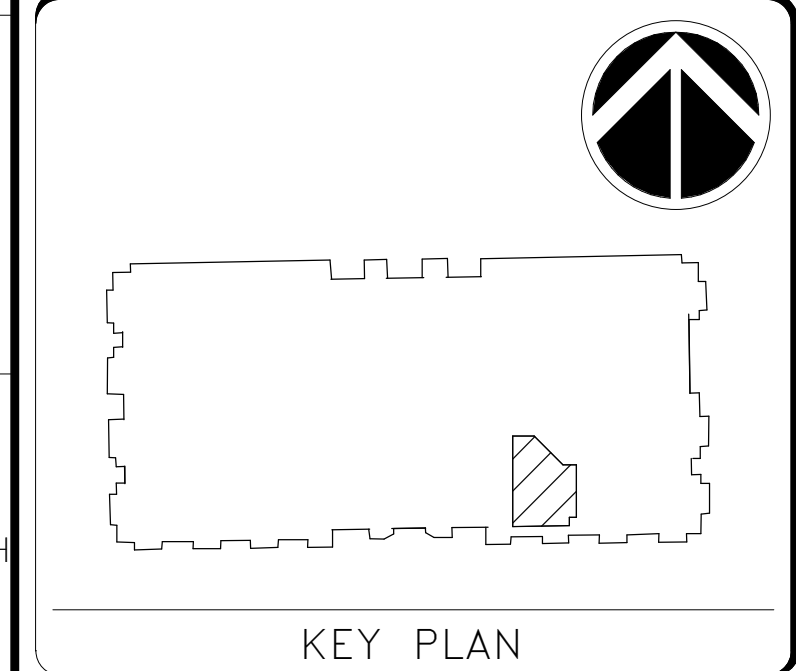


- GENERAL NOTES:**
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - B. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.
- SPECIFIC NOTES:**
- ① PROVIDE NFPA 13 COMPLIANT SPRINKLER COVERAGE FOR THE AREA OF WORK INDICATED. REMOVE SPRINKLER HEADS AND ASSOCIATED BRANCH SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE NEW ARCHITECTURAL LAYOUT.
  - ② ETR SPRINKLER ZONE CONTROL VALVES. ETR DRAIN TO MOP SINK BELOW.
  - ③ CAP ETR SPRINKLER IN EXISTING CHASE

# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR  
CONSTRUCTION

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jamesposey.com



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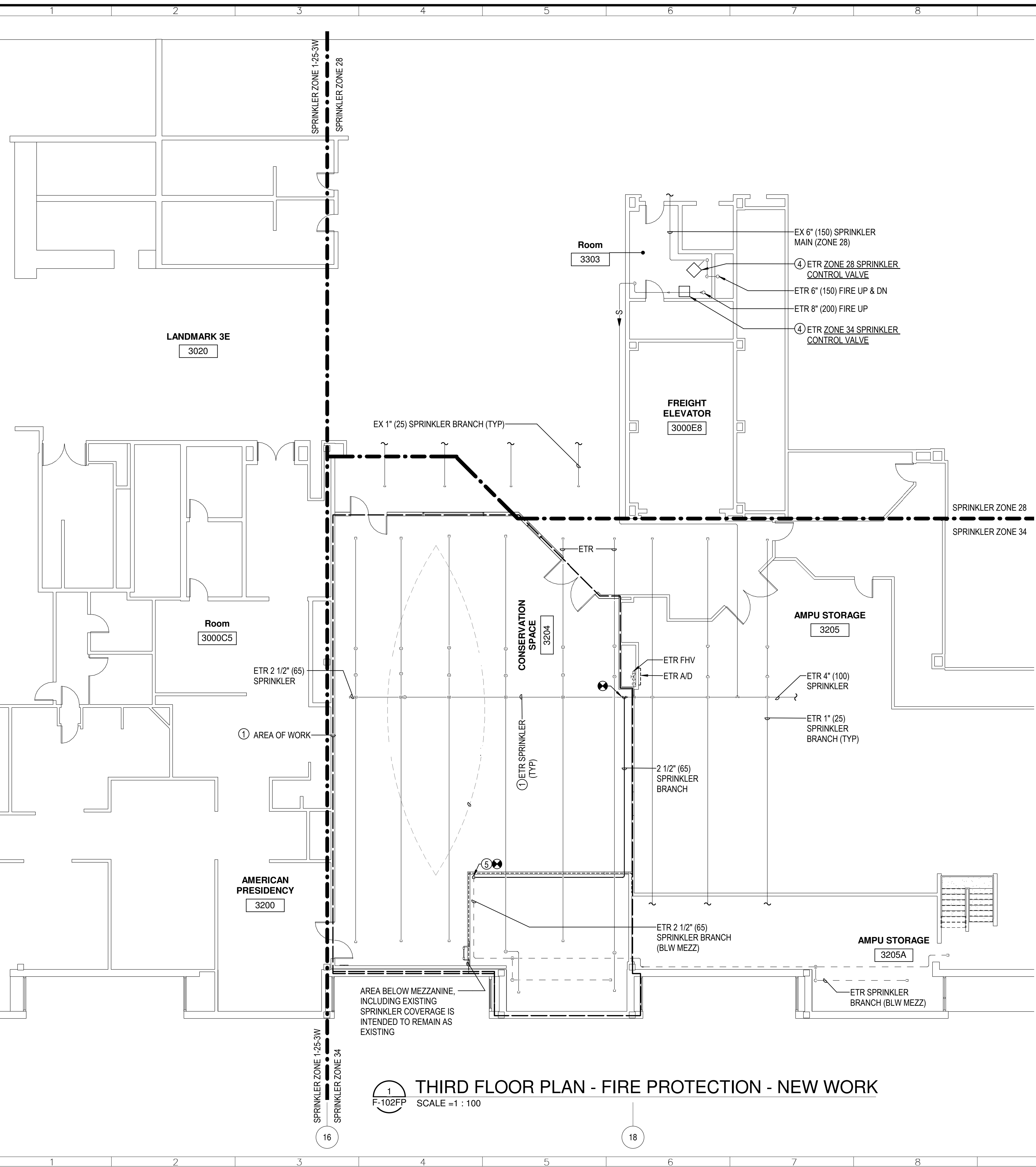
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DRAWING TITLE	THIRD FLOOR PLAN - FIRE PROTECTION - DEMOLITION												
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25 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE												

**1 THIRD FLOOR PLAN - FIRE PROTECTION - DEMOLITION**  
SCALE = 1 : 100



**1 THIRD FLOOR PLAN - FIRE PROTECTION - NEW WORK**  
SCALE = 1 : 100

**GENERAL NOTES:**

- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

**SPECIFIC NOTES:**

- PROVIDE NFPA 13 COMPLIANT SPRINKLER COVERAGE FOR THE AREA OF WORK INDICATED; MODIFY EXISTING BRANCH PIPING AND SPRINKLER HEADS AS REQUIRED.
- NOT USED.
- NOT USED.
- ETR SPRINKLER ZONE CONTROL VALVES. ETR DRAIN TO MOP SINK BELOW.
- SPRINKLER DOWN THROUGH MEZZANINE FLOOR TO ETR SPRINKLER IN AREA BELOW.

**FIRE PROTECTION DESIGN CRITERIA:**

THE PROJECT AREA SHALL BE PROVIDED WITH A COMPLETE AUTOMATIC FIRE PROTECTION SYSTEM INCLUDING WET PIPE SPRINKLERS AND ACCESSORIES IN ACCORDANCE WITH PROVISIONS SET FORTH IN NFPA 13/14 AND AS INDICATED ON THESE PLANS.

THE PIPING ARRANGEMENT, HEAD LOCATIONS, AND SIZING SHALL BE BY THE CONTRACTOR IN ACCORDANCE WITH NFPA 13/14 AND AS INDICATED ON THE CONTRACT DRAWINGS AND SPECIFICATIONS.

CONTRACTOR SHALL COORDINATE SPRINKLER SYSTEM WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL BUILDING COMPONENTS. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

HYDRAULIC CALCULATIONS SHALL BE BASED ON A MINIMUM FLOW FOR THE MOST HYDRAULICALLY DEMANDING AREA IN ACCORDANCE WITH NFPA 13/14. PIPE SCHEDULE DESIGN WILL NOT BE ACCEPTED.

ALL AREAS SHALL BE CLASSIFIED ORDINARY HAZARD GROUP 2 (0.20 GPM/SF OVER THE MOST REMOTE 1,500 SF). REDUCTIONS IN THE HYDRAULICALLY MOST REMOTE AREA ALLOWED IN NFPA 13 WITH THE USE OF QUICK RESPONSE SPRINKLERS IS NOT PERMITTED.

VARIATION IN DISCHARGE FROM INDIVIDUAL SPRINKLER HEADS IN THE HYDRAULICALLY MOST REMOTE AREA SHALL BE BETWEEN 100 AND 120 PERCENT OF THE SPECIFIED DENSITY.

THE CALCULATED PIPE VELOCITY SHALL NOT EXCEED 20 FT/SEC.

SAFETY MARGIN: THE TOTAL DEMAND WATER FLOW AND PRESSURE MUST BE AT LEAST 10% LESS THAN THE AVAILABLE WATER FLOW AND PRESSURE.

PIPE SCHEDULE: SCHEDULE 40 OR GREATER MUST BE USED FOR ALL SPRINKLER LESS THAN 4 INCHES. SCHEDULE 10, 40, OR GREATER MUST BE USED FOR SPRINKLER PIPING 4 INCHES AND LARGER.

USE OF RESTRICTIVE ORIFICES, REDUCING FLANGES, UNIONS, AND PLAIN END-FITTINGS WILL NOT BE PERMITTED.

BRANCH OUTLET MECHANICAL FITTINGS AND CLAMP-TYPE FITTINGS WILL NOT BE PERMITTED.

PROVIDE GUARDS ON SPRINKLER HEADS IN MECHANICAL ROOMS AND ANY HEADS WITHIN 7'-6" OF FINISH FLOOR.

WHEN DESIGNING SPRINKLER SYSTEM, CONTRACTOR SHALL PIERCE FIRE/SMOKE RATED WALLS ONLY ONCE WITH PIPING.

PAINT ALL EXPOSED PIPING.

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING CONSTRUCTION AND CONFIGURATIONS.

SCHEMATIC FLOW/PRESSURE DATA: BASE HYDRAULIC CALCULATIONS ON THE MOST RECENT FIRE PUMP TEST DATED 10/29/19, INCLUDING A DISCHARGE PRESSURE OF 130.0 PSI WITH 757.8 GPM AVAILABLE AT A SUCTION PRESSURE OF PSI AT 95.0. THE CONTRACTOR SHALL VERIFY ALL PRESSURES AND FLOWS NOTED WITH AN ADDITIONAL FLOW TEST AT NO ADDITIONAL COST TO THE OWNER, PRIOR TO PERFORMING SYSTEM CALCULATIONS.

PRIOR TO SPRINKLER PIPE FABRICATION, SUBMIT COORDINATED SPRINKLER SHOP DRAWINGS, INCLUDING 3D COORDINATED MODEL, FOR REVIEW AND APPROVAL BY THE DESIGN TEAM.

SEE AUTOMATIC SPRINKLER SYSTEMS, SECTION 211313, FOR COMPLETE SPRINKLER SPECIFICATION CRITERIA.

THE EXISTING FACILITY WILL REMAIN IN OPERATION DURING CONSTRUCTION. ALL WORK AND ANY INTERRUPTION TO BUILDING SERVICES SHALL BE COORDINATED WITH THE COTR TO MINIMIZE DISRUPTION.

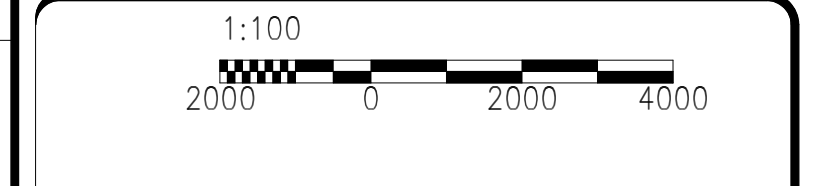
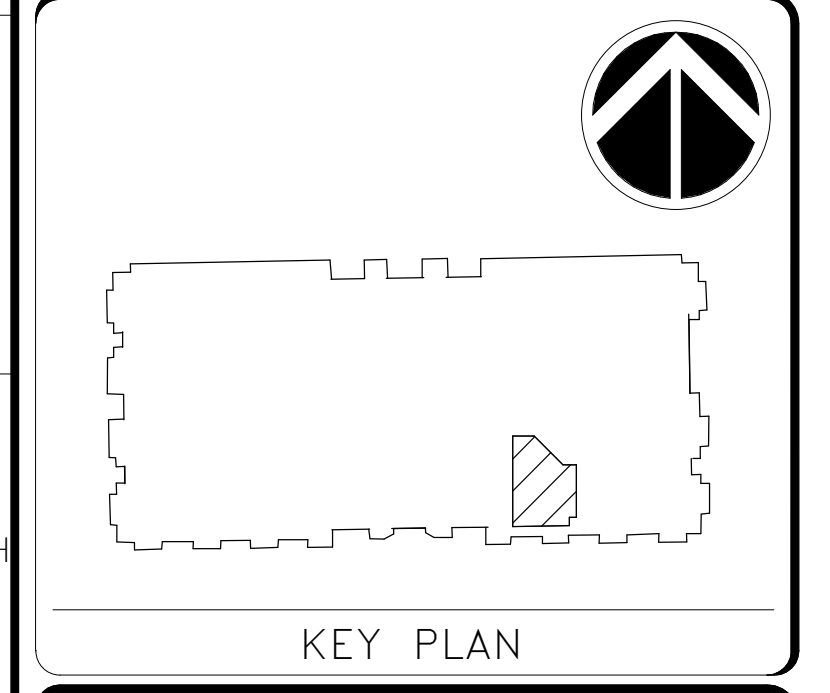
AN OSHM APPROVED FIRE PROTECTION PLAN SHALL BE MAINTAINED THROUGHOUT THE PROJECT.

WHERE EXISTING SYSTEMS ARE EXTENDED OR MODIFIED, CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD SURVEY AND LOCATION OF EXISTING PIPING.

# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION

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A/E PROJECT NUMBER	1401.35
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WORKING STAFF	TMH AZS JSC
	DESIGNED BY DRAWN BY CHECKED BY
SHEET NO.	F - 102FP
26 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

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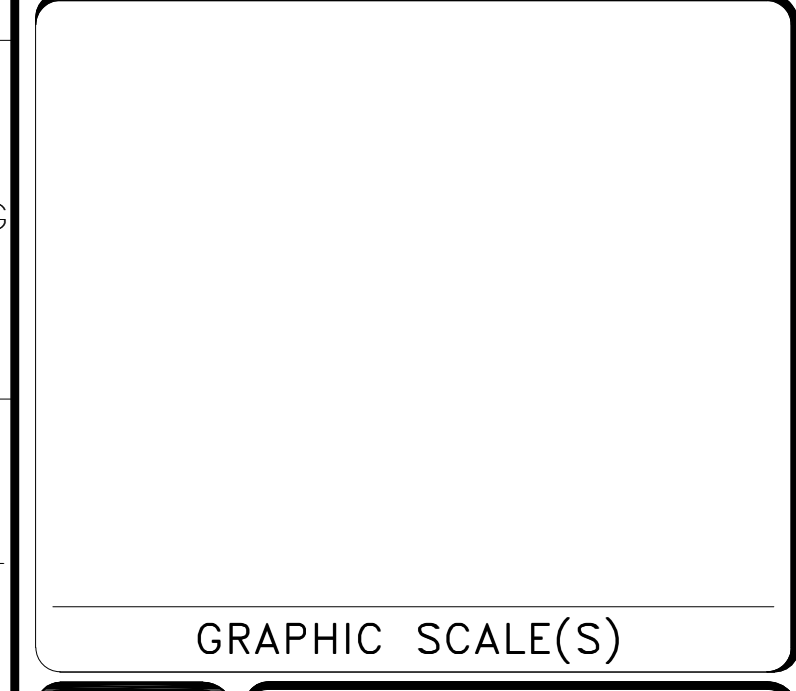
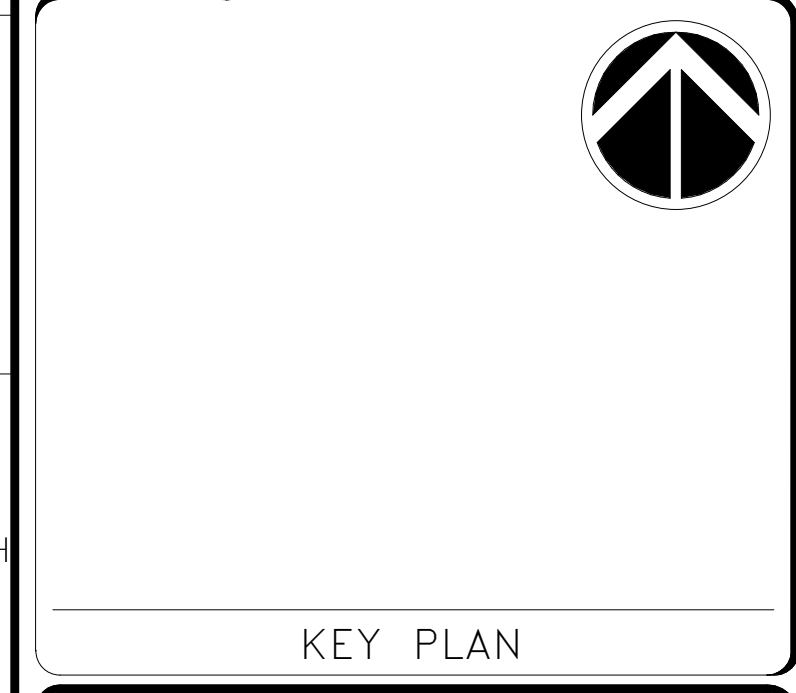
**ELECTRICAL SYMBOLS AND ABBREVIATIONS**

DEMOLITION	WIRING	LIGHTING	ABBREVIATIONS
<p>----- REMOVE EXISTING CONDUCTORS AND CABLE ASSEMBLIES. REMOVE EXISTING RACEWAYS UNLESS OTHERWISE NOTED. RACEWAYS EMBEDDED IN MASONRY MAY BE ABANDONED.</p> <p> REMOVE EXISTING DUPLEX OR DOUBLE-DUPLEX NEMA 5-20R RECEPTACLE. REMOVE BOX. REMOVE ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE NOTED.</p> <p> DISCONNECT EXISTING ELECTRIC MOTOR (AND ASSOCIATED DISCONNECTING MEANS, IF ANY). REMOVE ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE NOTED.</p> <p> REMOVE EXISTING KEY SWITCH. REMOVE ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE INDICATED.</p> <p> REMOVE EXISTING CEILING-, WALL-, OR PENDANT-MOUNTED LUMINAIRE. REMOVE ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE INDICATED.</p> <p> REMOVE EXISTING EXIT SIGN. REMOVE ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE INDICATED.</p> <p> REMOVE EXISTING FIRE ALARM PULL STATION. PROTECT FOR REUSE. REMOVE RACEWAY BACK TO FIRST JOINT BEYOND AREA OF DEMOLITION. PULL CONDUCTORS BACK TO FIRST DEVICES UPSTREAM AND DOWNSTREAM. PROVIDE TEMPORARY CONTINUITY WIRING AND PROGRAMMING AS NEEDED TO MAINTAIN REMAINDER OF FIRE ALARM SYSTEM FULLY OPERATIONAL.</p> <p> REMOVE EXISTING DOOR CONTACTS AND WIRING TO SOURCE. MAINTAIN EXISTING TO REMAIN SECURITY DEVICES IN OPERATION. COORDINATE WORK WITH SI OPS AND COTR. SEE TY DRAWINGS AND SECURITY SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.</p> <p> REMOVE EXISTING KEYPAD AND WIRING TO SOURCE. MAINTAIN EXISTING TO REMAIN SECURITY DEVICES IN OPERATION. COORDINATE WORK WITH SI OPS AND COTR. SEE TY DRAWINGS AND SECURITY SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.</p> <p> REMOVE EXISTING SECURITY DEVICE AND WIRING TO SOURCE. MAINTAIN EXISTING TO REMAIN SECURITY DEVICES IN OPERATION. COORDINATE WORK WITH SI OPS AND COTR. SEE TY DRAWINGS AND SECURITY SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.</p> <p> REMOVE EXISTING SECURITY CAMERA AND WIRING TO SOURCE. MAINTAIN EXISTING TO REMAIN SECURITY CAMERAS IN OPERATION. COORDINATE WORK WITH SI OPS AND COTR. SEE TY DRAWINGS AND SECURITY SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.</p>	<p> RACEWAY AND CONDUCTORS. RUN RACEWAY CONCEALED IN WALLS AND ABOVE CEILINGS. (RACEWAY MAY BE RUN EXPOSED IN SUPPORT SPACES SUCH AS MECHANICAL AND ELECTRICAL ROOMS OR IN LOADING DOCKS AND RECEIVING ROOMS). PROVIDE PULL ROPE FOR EMPTY RACEWAY. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS LESS GROUND. WHERE THERE ARE NO HASH MARKS, TWO CONDUCTORS PLUS GROUND ARE INDICATED.</p> <p> HOMERUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS UNLESS OTHERWISE NOTED. NUMBER OF HASH MARKS INDICATES NUMBER OF PHASE AND NEUTRAL CONDUCTORS LESS GROUND UNLESS OTHERWISE NOTED. WHERE NO HASH MARKS APPEAR, TWO CONDUCTORS PLUS GROUND ARE IMPLIED. PROVIDE EQUIPMENT GROUNDING CONDUCTOR. REFER TO PANEL SCHEDULES FOR CONDUCTOR AND RACEWAY SIZES UNLESS OTHERWISE NOTED.</p> <p> WIRING CONTINUES.</p> <p> WIRING ON AN EMERGENCY CIRCUIT.</p> <p> CEILING-MOUNTED JUNCTION BOX WITH BLANK COVER PLATE.</p> <p> WALL-MOUNTED JUNCTION BOX WITH BLANK COVER PLATE.</p> <p> CATEGORY 5E CABLE IN RACEWAY.</p>	<p> PENDANT-MOUNTED LED LUMINAIRE, TYPE AS DESIGNATED.</p> <p> ANY LUMINAIRE WHOSE CENTER IS SOLID IS CONNECTED TO EMERGENCY POWER.</p> <p> EXIT SIGN, TYPE AS INDICATED, PENDANT- OR WALL-MOUNT AS INDICATED.</p> <p> WALL SWITCH. MOUNT 1219 MM (FORTY-EIGHT INCHES) ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. ADJACENT SWITCHES SHALL BE MOUNTED IN ONE BOX UNDER A COMMON WALL PLATE.</p> <p> PENDENT DOWNLIGHT CYLINDER, TYPE AS INDICATED, ON EMERGENCY CIRCUIT.</p> <p> EMERGENCY LIGHTING CONTROL TRANSFER RELAY DEVICE.</p>	<p>A AMPS, AMPERES</p> <p>AHU AIR HANDLING UNIT</p> <p>AIC AMPERE INTERRUPTING CAPACITY</p> <p>ANSI AMERICAN NATIONAL STANDARDS INSTITUTE</p> <p>ATC AUTOMATIC TEMPERATURE CONTROL</p> <p>ATS AUTOMATIC TRANSFER SWITCH</p> <p>BAS BUILDING AUTOMATION SYSTEM</p> <p>BCELTS C BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH CONDUIT OR OTHER RACEWAY</p> <p>CB CIRCUIT BREAKER</p> <p>COMP COMPRESSOR</p> <p>CONT CONTINUATION</p> <p>CORR CORRIDOR</p> <p>COTR CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE</p> <p>DC COLOR RENDERING INDEX</p> <p>DEMO DIRECT CURRENT</p> <p>DX DISCONNECT EXISTING</p> <p>EF EXHAUST FAN</p> <p>ELEC ELECTRIC, ELECTRICAL</p> <p>ELV ELECTRONIC LOW VOLTAGE</p> <p>EM, EMER EMERGENCY</p> <p>EQPM EXISTING TO REMAIN</p> <p>ETR EQUIPMENT</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>FCU FAN COIL UNIT</p> <p>FLA FULL LOAD AMPERES</p> <p>FSS FUSED SAFETY SWITCH</p> <p>FVNR FULL VOLTAGE NON-REVERSING</p> <p>G GROUND, EQUIPMENT GROUNDING CONDUCTOR</p> <p>GB GUNBOAT</p> <p>GFCI GROUND FAULT CIRCUIT INTERRUPTING</p> <p>HP HORSEPOWER</p> <p>HVAC HEATING, VENTILATION, AND AIR CONDITIONING</p> <p>IT INFORMATION TECHNOLOGY</p> <p>K, °K DEGREES KELVIN (COLOR TEMPERATURE)</p> <p>KAIC THOUSAND AMPERE INTERRUPTING CAPACITY</p> <p>KCMIL THOUSAND CIRCULAR MIL</p> <p>KVA KILOVOLT-AMPERES</p> <p>KW KILOWATTS</p> <p>LFMC LIQUID-TIGHT FLEXIBLE METAL CONDUIT</p> <p>LM, lm LUMEN</p> <p>LTG LIGHTING</p> <p>LT LIGHTING</p> <p>MA MILLIAMPERE</p> <p>MCA MINIMUM CIRCUIT AMPACITY</p> <p>MEZZ MEZZANINE</p> <p>MIN MINIMUM</p> <p>MM MILLIMETER</p> <p>NAC NOTIFICATION APPLIANCE CIRCUIT</p> <p>N.C. NORMALLY CLOSED</p> <p>NEC NATIONAL ELECTRICAL CODE</p> <p>NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION</p> <p>NFSS NON-FUSED SAFETY SWITCH</p> <p>NMAH SMITHSONIAN NATIONAL MUSEUM OF AMERICAN HISTORY</p> <p>NMNH SMITHSONIAN NATIONAL MUSEUM OF NATURAL HISTORY</p> <p>N.O. NORMALLY OPEN</p> <p>OPS OFFICE OF PROTECTIVE SERVICES</p> <p>P POLE</p> <p>QUAD QUADRUPLEX, DOUBLE DUPLEX (RECEPTACLE)</p> <p>REC RECEPTACLE</p> <p>RM ROOM</p> <p>RX REMOVE EXISTING</p> <p>SI SMITHSONIAN INSTITUTION</p> <p>SLC SIGNALING LINE CIRCUIT</p> <p>SS SAFETY SWITCH</p> <p>TU TERMINAL UNIT (HVAC)</p> <p>UON UNLESS OTHERWISE NOTED</p> <p>V VOLT</p> <p>W WATT, WIDE, WIRE</p> <p>WIRING CONDUCTORS, WITH ASSOCIATED RACEWAY OR CABLE ASSEMBLY</p> <p>Ø PHASE</p>
<p><b>EXISTING TO REMAIN</b></p> <p> EXISTING TO REMAIN OVERHEAD POWER BUS FOR LIGHTING.</p> <p> EXISTING TO REMAIN UNDERFLOOR POWER DUCT FOR RECEPTACLES</p> <p> EXISTING TO REMAIN UNDERFLOOR POWER DUCT JUNCTION BOX. WHERE BOX WILL BE MADE INACCESSIBLE DUE TO PERMANENTLY-MOUNTED EQUIPMENT, REMOVE EXISTING CONDUCTORS BACK TO NEAREST BOX THAT WILL REMAIN ACCESSIBLE IN BOTH DIRECTIONS. PROVIDE CONDUCTORS AND SPLICES AS NEEDED TO RESTORE CIRCUIT CONTINUITY VIA EXISTING TO REMAIN UNDERFLOOR POWER DUCT AND JUNCTION BOXES THAT WILL REMAIN ACCESSIBLE. COORDINATE WORK WITH COTR. DOCUMENT WORK ON RECORD DRAWINGS. BOXES RENDERED INACCESSIBLE SHALL REMAIN EMPTY, UNLESS OTHERWISE NOTED. CIRCUITS ORIGINATE IN EXISTING TO REMAIN PANEL LP3CD.</p> <p> EXISTING TO REMAIN DOWNLIGHT ON EMERGENCY POWER</p> <p> EXISTING TO REMAIN HOMERUN: RACEWAY IN FLOOR SLAB</p> <p> EXISTING TO REMAIN ELECTRIC METER.</p> <p> EXISTING TO REMAIN SMOKE DETECTOR.</p> <p> EXISTING TO REMAIN FIRE ALARM CEILING-MOUNTED SPEAKER.</p> <p> EXISTING TO REMAIN FIRE ALARM CEILING-MOUNTED STROBE.</p> <p> EXISTING TO REMAIN FIRE ALARM CEILING-MOUNTED SPEAKER-STROBE.</p> <p> EXISTING TO REMAIN FIRE ALARM WALL-MOUNTED SPEAKER-STROBE.</p>	<p><b>POWER</b></p> <p> SPECIAL RECEPTACLE OR CONNECTION TO EQUIPMENT AS NOTED.</p> <p> DUPLEX GROUNDING TYPE NEMA 5-20R CONVENIENCE RECEPTACLE, 457 MILLIMETERS (EIGHTEEN INCHES) ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.</p> <p> RECEPTACLE AS ABOVE, GROUND-FAULT CIRCUIT INTERRUPTER TYPE, 1219 MILLIMETERS (FORTY-EIGHT INCHES) ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.</p> <p> QUADRUPLEX (DOUBLE DUPLEX) RECEPTACLE, GROUNDING TYPE NEMA 5-20R CONVENIENCE RECEPTACLE, 457 MILLIMETERS (EIGHTEEN INCHES) ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.</p> <p> QUADRUPLEX AS ABOVE, 1524 MILLIMETERS (SIXTY INCHES) ABOVE FINISHED FLOOR.</p> <p> 120 VOLT CORD REEL. SEE DETAIL A9/EP401PP.</p> <p> CONNECTION TO ELECTRIC MOTOR.</p> <p> SAFETY SWITCH DISCONNECT, RATED FULL HORSEPOWER AS NEEDED UNLESS OTHERWISE NOTED.</p> <p> ELECTRICAL PANELBOARD (NEW OR EXISTING) 120/208-VOLT, SURFACE-MOUNTED.</p> <p> ELECTRICAL PANELBOARD (NEW OR EXISTING) 277/480-VOLT, SURFACE-MOUNTED.</p> <p> 208-VOLT RECEPTACLE. CONFIRM CONFIGURATION WITH CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE.</p> <p> CONTROL POWER TRANSFORMER. MOUNT ON WALL 457 MILLIMETERS (EIGHTEEN INCHES) BELOW CEILING.</p> <p> WALL BOX SERVICE FITTING FOR POWER AND COMMUNICATIONS. PROVIDE NEMA 5-20R RECEPTACLE AND PLATE. LOCATION IS DIAGRAMMATIC. COORDINATE EXACT ELEVATION AND LOCATION WITH INSTALLATION OF MONITOR.</p>	<p><b>SYSTEMS</b></p> <p> DATA OUTLET, 457 MM (EIGHTEEN INCHES) ABOVE FINISHED FLOOR, WITH 21 MM (3/4") EMPTY RACEWAY WITH PULL ROPE (UNLESS OTHER SIZE IS NOTED) TO DATA ROOM INDICATED, FLUSH OR SURFACE MOUNTED. IF NO ROOM INDICATED, RUN CONDUIT TO ROOM 3000IT2.</p> <p> REINSTALL PULL STATION PREVIOUSLY REMOVED. SURFACE-MOUNT ON WALL 1219 MM (48") ABOVE FINISHED FLOOR. CONNECT TO NOTIFICATION APPLIANCE CIRCUIT PREVIOUSLY SERVING PULL STATION. USE SURFACE-MOUNTED WIRING. REMOVE CONTINUITY WIRING INSTALLED WHEN PULL STATION WAS REMOVED. RESTORE FIRE ALARM SYSTEM TO ITS ORIGINAL CONDITION.</p> <p> FIRE ALARM SYSTEM CONTROL MODULE. MOUNT ADJACENT TO CONTROLLED DEVICE.</p> <p> FIRE ALARM SYSTEM MONITORING MODULE.</p> <p> OUTLET BOX FOR KEYPAD. SEE DETAIL H6/EP410EL.</p> <p> DOOR CONTACTS. SEE DETAIL H6/EP410EL.</p> <p> RELAY. MOUNT ON WALL 457 MILLIMETERS (EIGHTEEN INCHES) BELOW CEILING.</p> <p> WALL BOX SERVICE FITTING FOR POWER AND COMMUNICATIONS. LOCATION IS DIAGRAMMATIC. COORDINATE EXACT ELEVATION AND LOCATION WITH INSTALLATION OF MONITOR. PROVIDE PULL STRING FROM DATA COMPARTMENT TO ROOM 3000IT2.</p>	<p><b>NOTES</b></p> <p>A. PRIOR TO ROUGH-IN, VERIFY EXACT LOCATION OF SPECIALTY WIRING DEVICES WITH EQUIPMENT SPECIFIED UNDER OTHER DIVISIONS OR SUPPLIED BY GOVERNMENT.</p> <p>B. MOUNTING HEIGHTS ARE TO THE CENTER OF DEVICES, AND TO THE UNDERSIDES OF LUMINAIRES, UNLESS OTHERWISE NOTED.</p>
<p><b>UNITS OF MEASURE: UNITED STATES CUSTOMARY SYSTEM TO INTERNATIONAL SYSTEM</b></p> <p>ONE HORSEPOWER EQUALS 746 WATTS. ONE INCH EQUALS 25.4 MILLIMETERS. ONE FOOT EQUALS 304.8 MILLIMETERS. ONE POUND EQUALS 4.45 NEWTONS.</p>			

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tel 410-265-6100  
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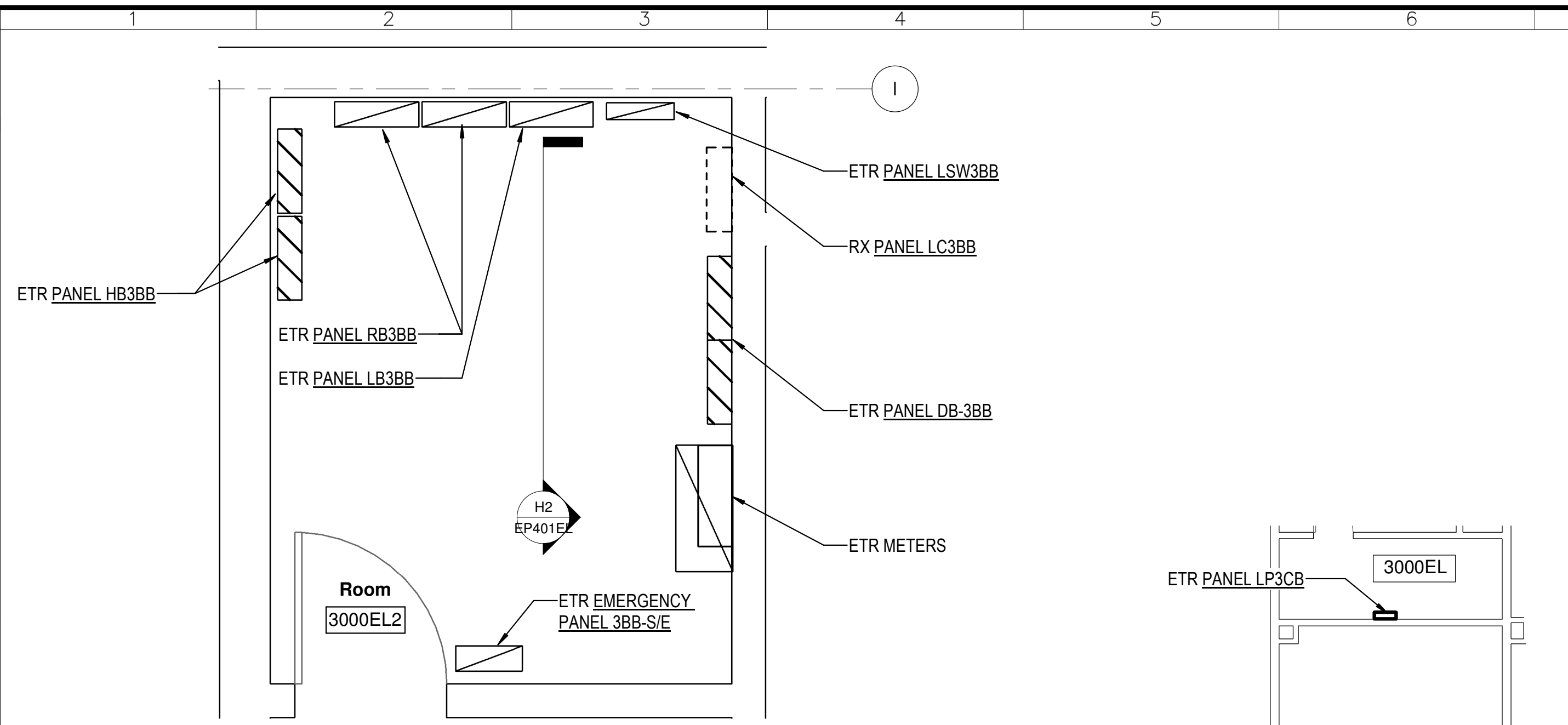


DATE 07/12/24	SUBMISSION FINAL SUBMISSION
REVISION # DATE	REVISION DESCRIPTION

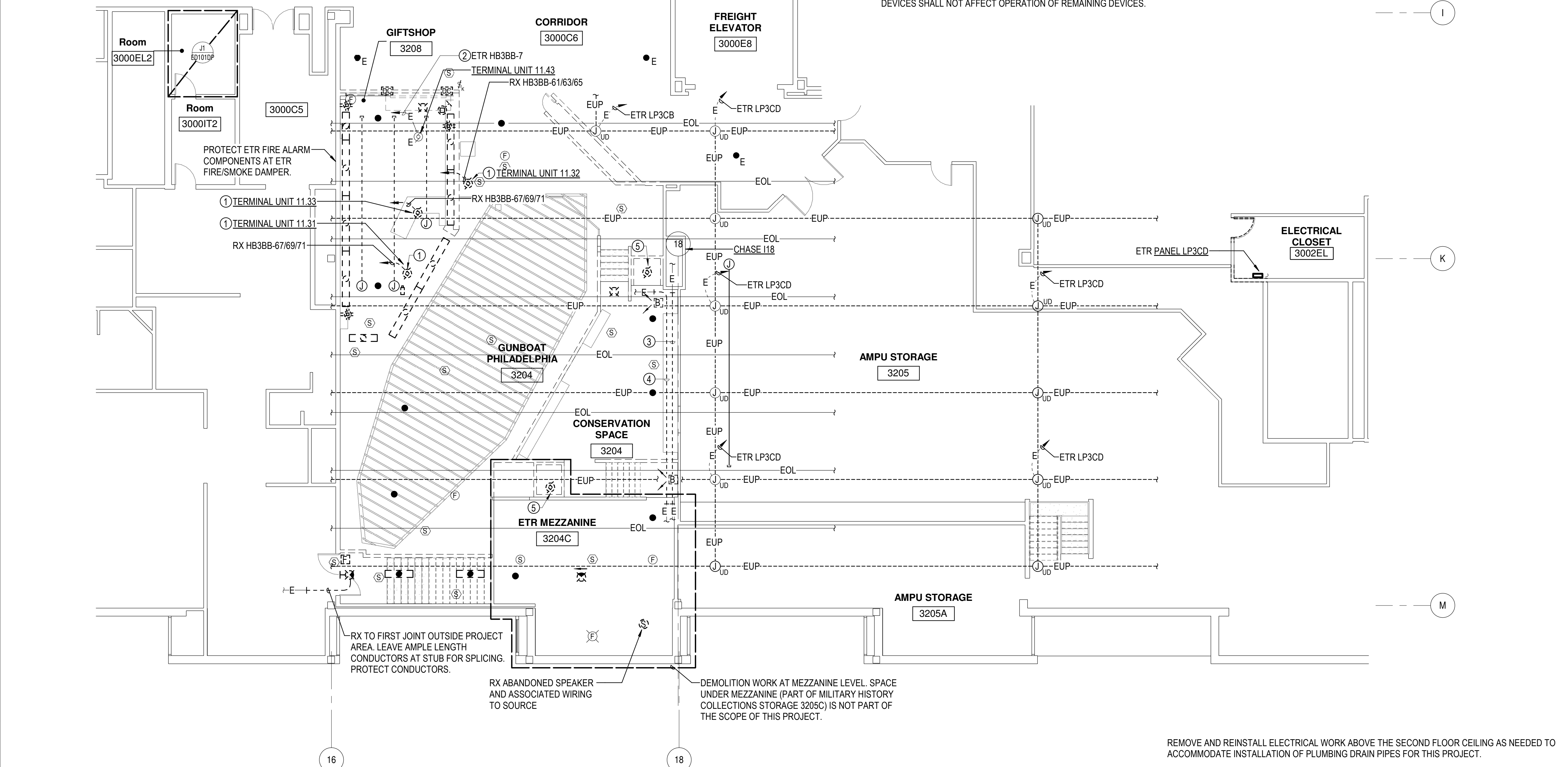
**Smithsonian Institution**  
Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

DESIGNED NAME NMAH	ADDRESS 1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE	SP PROJECT NUMBER 2003106
A/E PROJECT NUMBER 1401.35	DRAWING TITLE ELECTRICAL SYMBOLS AND ABBREVIATIONS
WORKING STAFF DESIGNED BY: MRH DRAWN BY: MRH CHECKED BY: TMC	SHEET NO. 27 of 41

DISCIPLINE	TYPE	SEQUENCE	DRAWING TYPE
E	-	001	



**J1 THIRD FLOOR PLAN - ELECTRICAL ROOM 3000EL2 - DEMOLITION**  
ED101DP SCALE = 1 : 25



**A1 THIRD FLOOR PLAN - ELECTRICAL - DEMOLITION**  
ED101DP SCALE = 1/8" = 1'-0"

**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAILS OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK
- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
- D. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION BUT WHICH ARE TO REMAIN SHALL BE MADE CONTINUOUS.
- E. COORDINATE WITH MECHANICAL WORK SHOWN ON MECHANICAL DRAWINGS AND PROVIDE DISCONNECTIONS AND NEW CONNECTIONS OF MECHANICAL EQUIPMENT AS INDICATED AND REQUIRED.
- F. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
- G. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.
- H. WHERE CIRCUITS ARE REMOVED BACK TO PANELS, ASSOCIATED BREAKERS MAY BE USED FOR NEW CIRCUITS. IF NOT REUSED, THEN MARK CIRCUIT BREAKERS AS "SPARE" IN PANEL SCHEDULE, AND LEAVE CIRCUIT BREAKERS IN THE OFF POSITION.
- I. FIRE ALARM SYSTEM SHALL STAY IN OPERATION. DEMOLITION OF FIRE ALARM DEVICES SHALL NOT AFFECT OPERATION OF REMAINING DEVICES.

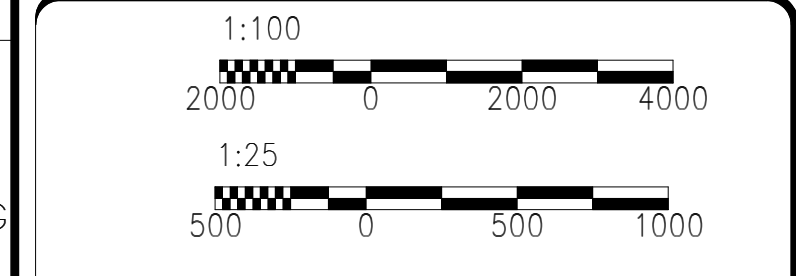
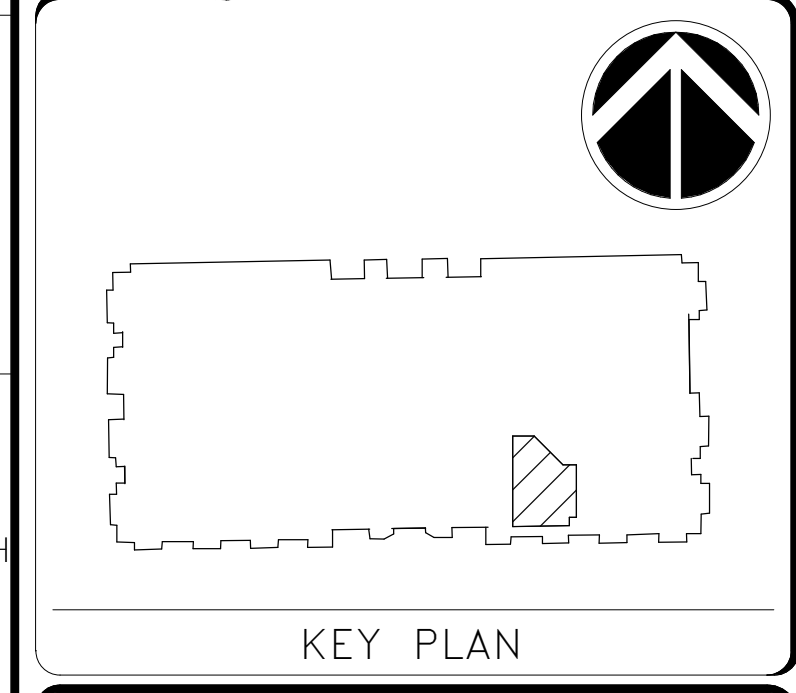
**SPECIFIC NOTES:**

- ① DISCONNECT EXISTING TERMINAL UNIT. REMOVE EXISTING ANCILLARY DEVICES, AND REMOVE EXISTING WIRING TO SOURCE.
- ② CIRCUIT PROBABLY ORIGINATES IN PANEL HP3BB. VERIFY IN FIELD. CIRCUIT MAY BE MISLABELED IN PANELBOARD CIRCUIT DIRECTORY.
- ③ SEVEN RACEWAYS RUN FROM CHASE I18 INTO THE SPACE ABOVE THE MILITARY HISTORY COLLECTION ROOM CEILING. (THIS ROOM IS BELOW THE MEZZANINE.) DETERMINE CONTENTS OF RACEWAYS. TRACE RACEWAYS TO THEIR ENDS. PULL OUT CABLES AND CONDUCTORS TO ALLOW REMOVAL OF RACEWAYS IN AREA OF WORK. REMOVE RACEWAYS IN AREA OF WORK.
- ④ TWO RACEWAYS RUN UNDER EXISTING MEZZANINE INTO THE SPACE ABOVE THE MILITARY HISTORY COLLECTION ROOM CEILING. (THIS SPACE IS BELOW THE MEZZANINE.) DETERMINE CONTENTS OF RACEWAYS. TRACE RACEWAYS TO THEIR ENDS. PULL OUT CABLES AND CONDUCTORS TO ALLOW REMOVAL OF RACEWAYS IN AREA OF WORK. REMOVE RACEWAYS IN AREA OF WORK.
- ⑤ DISCONNECT EXISTING CHAIR LIFT. REMOVE ASSOCIATED DISCONNECT SWITCH, WIRING, AND CONTROLS.

**NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE**

**FOR CONSTRUCTION**

**James Posey Associates**  
Mechanical & Electrical Consulting Engineers  
1125 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com



DATE	07/12/24	REVISION	FINAL SUBMISSION
REVISION #	DATE	DESCRIPTION	

**Smithsonian Institution**  
Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	THIRD FLOOR PLAN - ELECTRICAL DEMOLITION
WORKING STAFF	MRH MRH TMC
SHEET NO.	ED101DP
28 of 41	

7/31/24 4:42:43 PM ED101DP BY TMC Enter Issue Date FINAL SUBMISSION

REMOVE AND REINSTALL ELECTRICAL WORK ABOVE THE SECOND FLOOR CEILING AS NEEDED TO ACCOMMODATE INSTALLATION OF PLUMBING DRAIN PIPES FOR THIS PROJECT.

7/31/24 4:00:10 PM  
EL101LP BY TMC Enter Issue Date FINAL SUBMISSION

**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAILS OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DO NOT LOCATE SERVICABLE EQUIPMENT (E.G. LUMINAIRES, DROP CORDS) ABOVE THE FUTURE LOCATION OF THE GUNBOAT PHILADELPHIA.

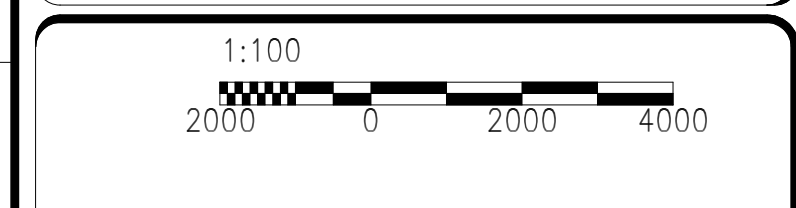
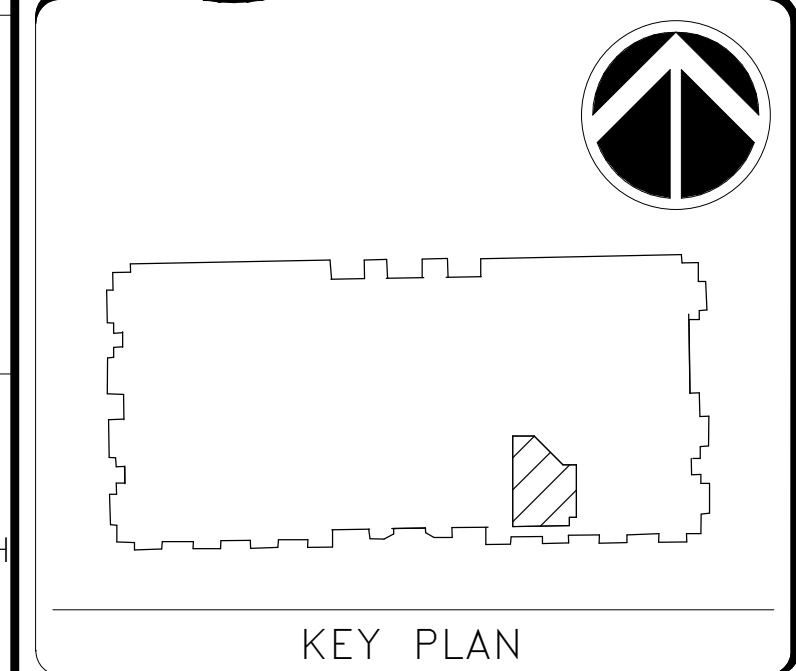
**SPECIFIC NOTES:**

- ① MOUNT PIPE 300 MILLIMETERS OFF WALL AND CENTERED ON HORIZONTAL CENTERLINE OF ADJACENT WINDOW. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- ② FOR EMERGENCY LIGHTING CONTROL OF TYPE D LUMINAIRES. SEE DIAGRAM G1/601.

# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

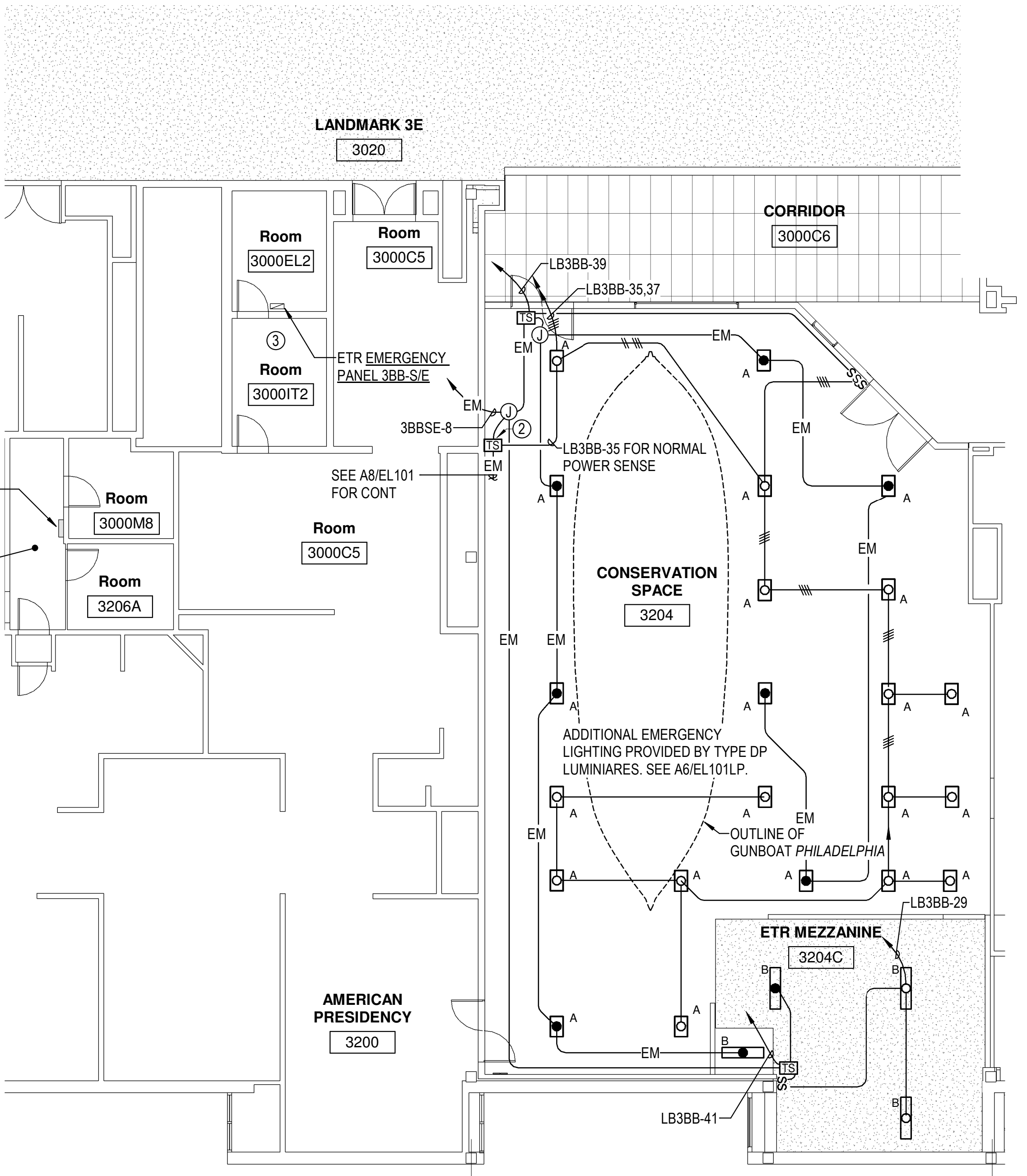
FOR  
CONSTRUCTION

**James Posey Associates**  
Engineering Your Vision  
Mechanical & Electrical  
Consulting Engineers  
1155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com



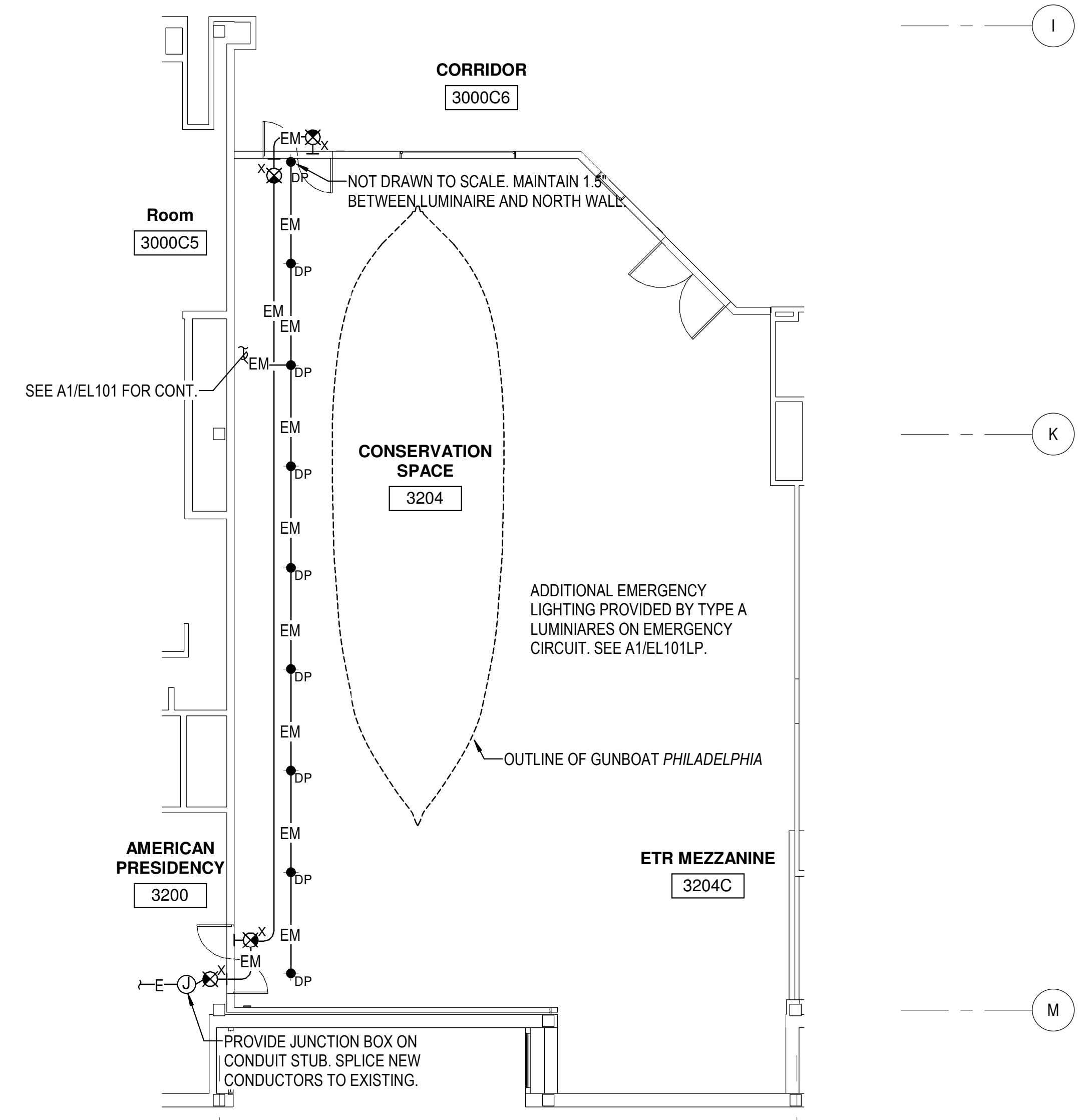
DATE	REVISION #	REVISION DESCRIPTION
07/12/24	1	FINAL SUBMISSION

<h2>Smithsonian Institution</h2> <p>Smithsonian Facilities 600 Maryland Avenue S.W. Suite 5001 Washington, DC 20024-2520</p>													
BUILDING NAME	NMAH												
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560												
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE												
SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	THIRD FLOOR PLAN - LIGHTING												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>MRH</td> <td>MRH</td> <td>TMC</td> </tr> <tr> <td>DRAWN BY</td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>CHECKED BY</td> <td> </td> <td> </td> <td> </td> </tr> </table>	DESIGNED BY	MRH	MRH	TMC	DRAWN BY				CHECKED BY			
DESIGNED BY	MRH	MRH	TMC										
DRAWN BY													
CHECKED BY													
SHEET NO.	EL101LP												
29 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE												



NOTE: EXIT LIGHTING IS SHOWN ON A8/EL101LP

**A1**  
**EL101LP**  
**3RD FLOOR PLAN - LIGHTING - CEILING**  
SCALE = 1 : 100

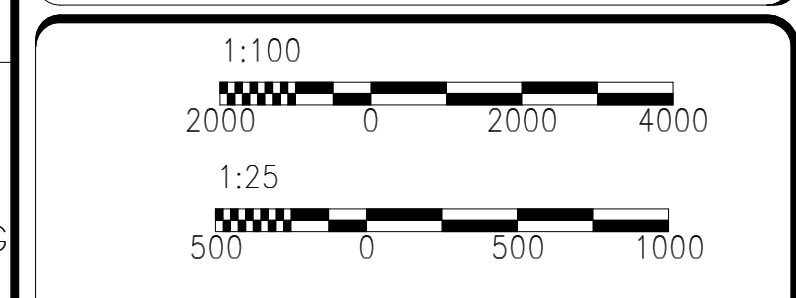
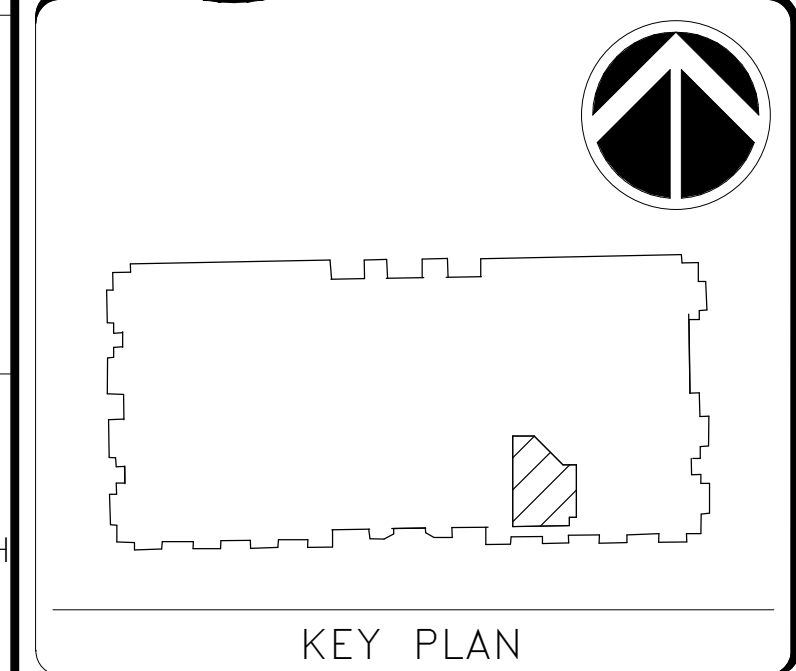


**A8**  
**EL101LP**  
**3RD FLOOR PLAN - EXITS AND EMER CYLINDERS**  
SCALE = 1 : 100

# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR  
CONSTRUCTION

**James Posey Associates**  
Engineering Your Vision  
Mechanical & Electrical  
Consulting Engineers  
1125 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com



GRAPHIC SCALE(S)

DATE	DESCRIPTION
07/12/24	FINAL SUBMISSION

DATE	DESCRIPTION
07/12/24	FINAL SUBMISSION

## Smithsonian Institution

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH												
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560												
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE												
SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	THIRD FLOOR PLAN - POWER												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>MRH</td> <td>MRH</td> <td>TMC</td> </tr> <tr> <td>DRAWN BY</td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>CHECKED BY</td> <td> </td> <td> </td> <td> </td> </tr> </table>	DESIGNED BY	MRH	MRH	TMC	DRAWN BY				CHECKED BY			
DESIGNED BY	MRH	MRH	TMC										
DRAWN BY													
CHECKED BY													
SHEET NO.	EP101PP												
30 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE												

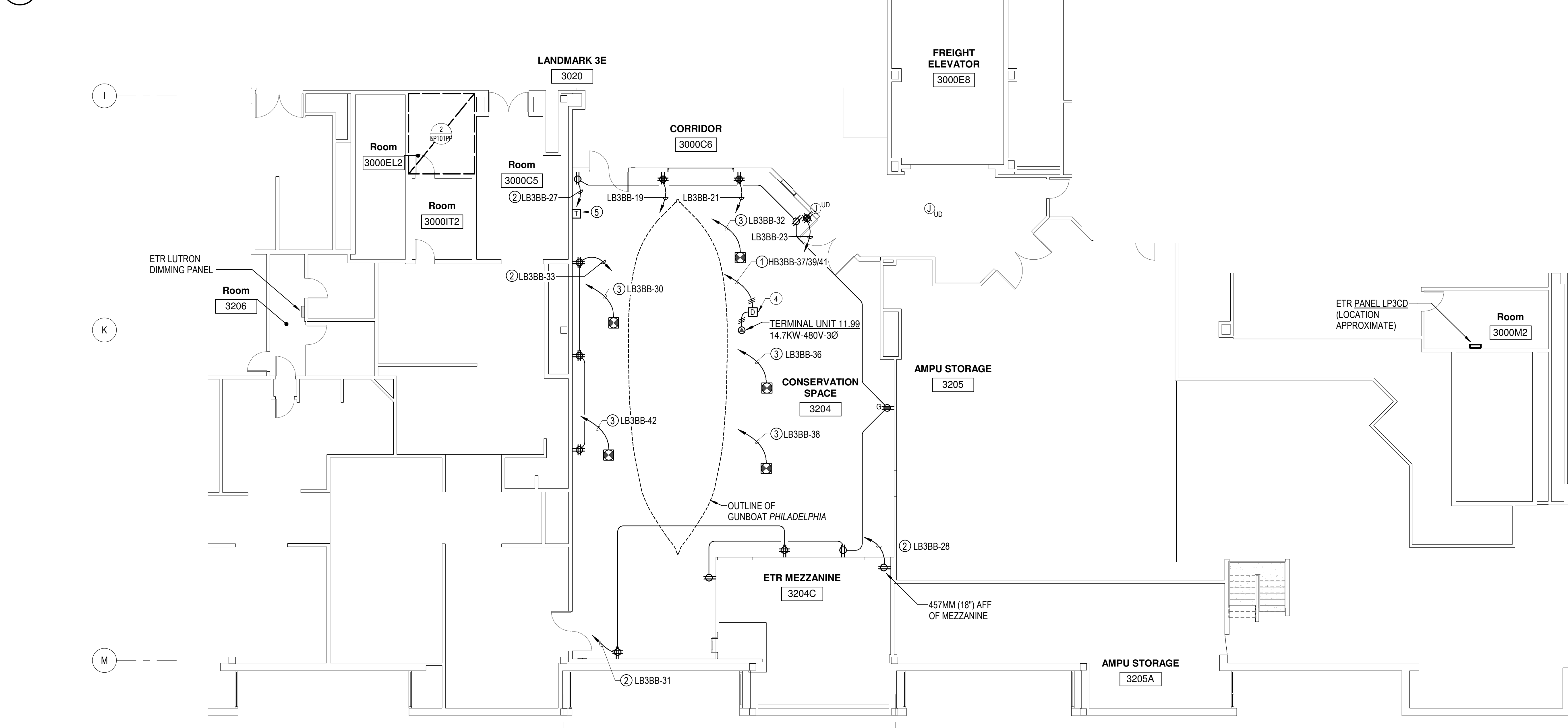
**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAILS OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DO NOT LOCATE SERVICABLE EQUIPMENT (E.G. LUMINAIRES, DROP CORDS) ABOVE THE FUTURE LOCATION OF THE GUNBOAT PHILADELPHIA.

**SPECIFIC NOTES:**

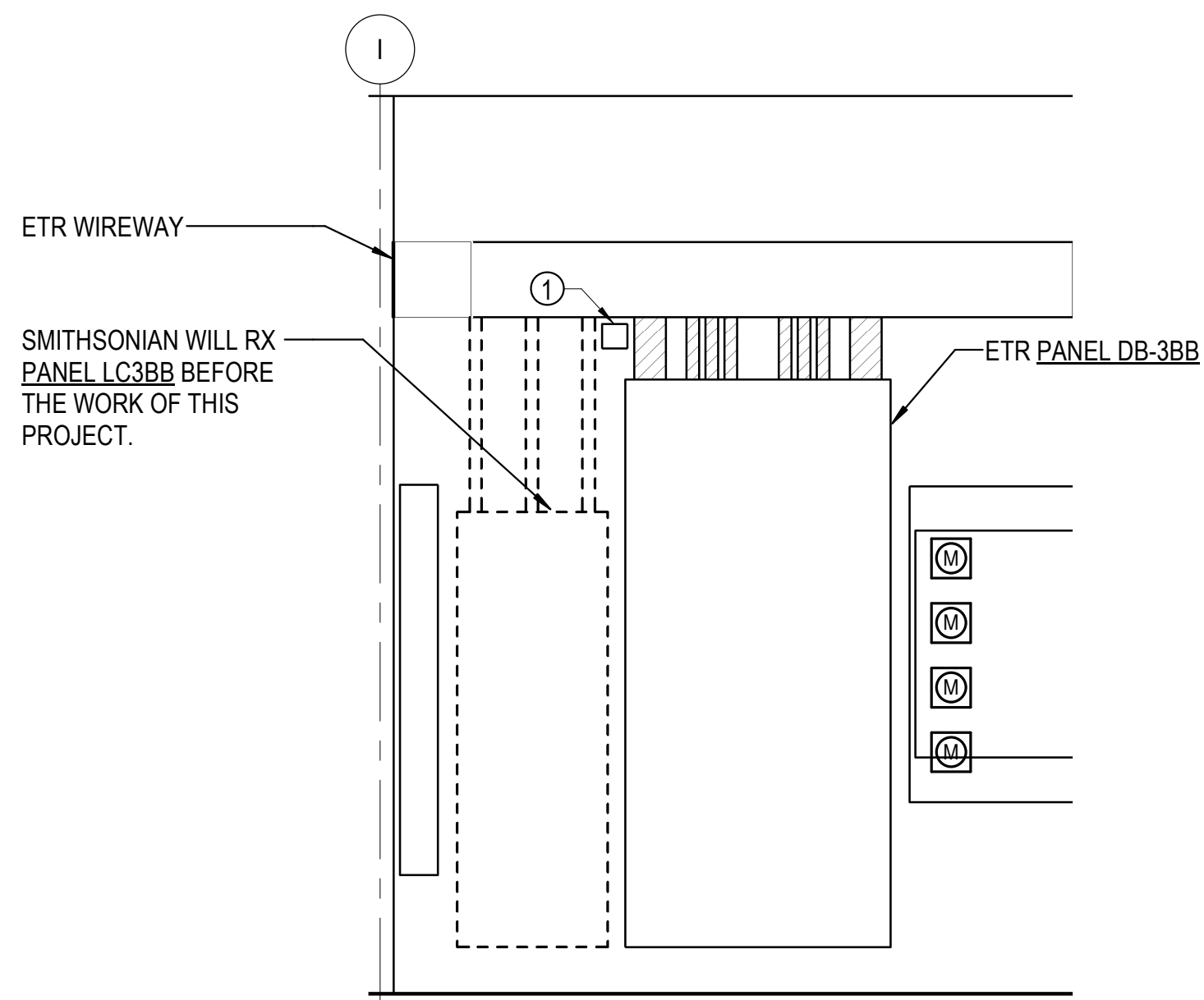
- ① THREE #10, #10 EQUIPMENT GROUNDING CONDUCTOR, 21 MM (3/4") RACEWAY TO PANEL. PROVIDE NEW THREE-POLE THIRTY-AMPERE CIRCUIT BREAKER IN SPACE INDICATED.
- ② TWO #12, #12 EQUIPMENT GROUNDING CONDUCTOR, 21 MM (3/4") RACEWAY TO EXISTING SPARE ONE-POLE TWENTY-AMPERE CIRCUIT BREAKER.
- ③ TWO #12, #12 EQUIPMENT GROUNDING CONDUCTOR, 21 MM (3/4") RACEWAY TO PANEL. PROVIDE NEW ONE-POLE TWENTY-AMPERE CIRCUIT BREAKER IN SPACE INDICATED.
- ④ THREE-POLE THIRTY-AMPERE 480-VOLT FUSED SAFETY SWITCH, NEMA ONE ENCLOSURE. PROVIDE FUSES PER EQUIPMENT NAMEPLATE. LOCATION ON DRAWINGS IS DIAGRAMMATIC: MOUNT ADJACENT TO UNIT.
- ⑤ FOR EMERGENCY LIGHTING CONTROL OF TYPE D LUMINAIRES. SEE DIAGRAM G1/601.

**H1 3RD FLR 3000EL2 - NEW WORK**  
EP101PP SCALE = 1 : 25

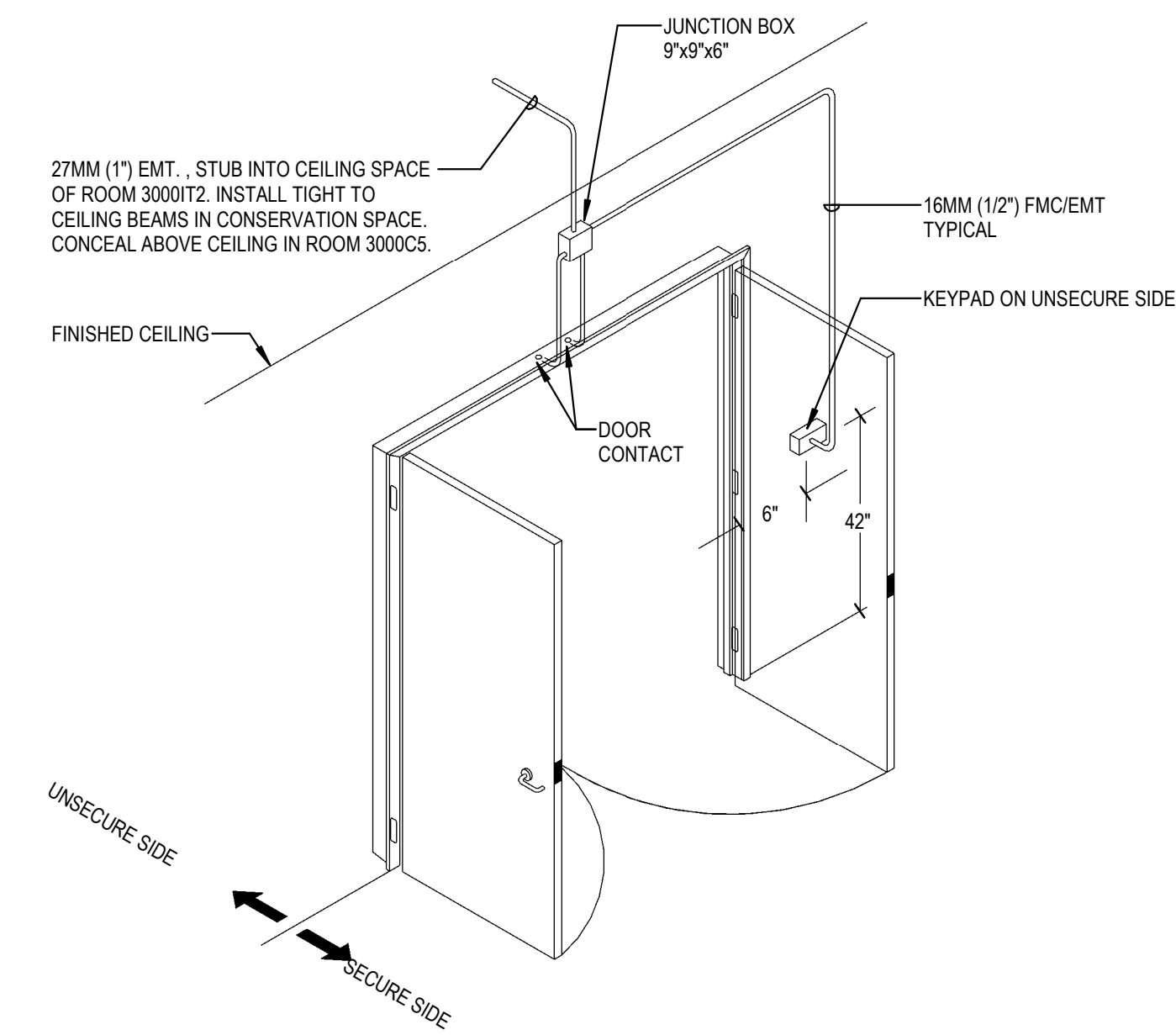


**A1 THIRD FLOOR PLAN - POWER - NEW WORK**  
EP101PP SCALE = 1 : 100

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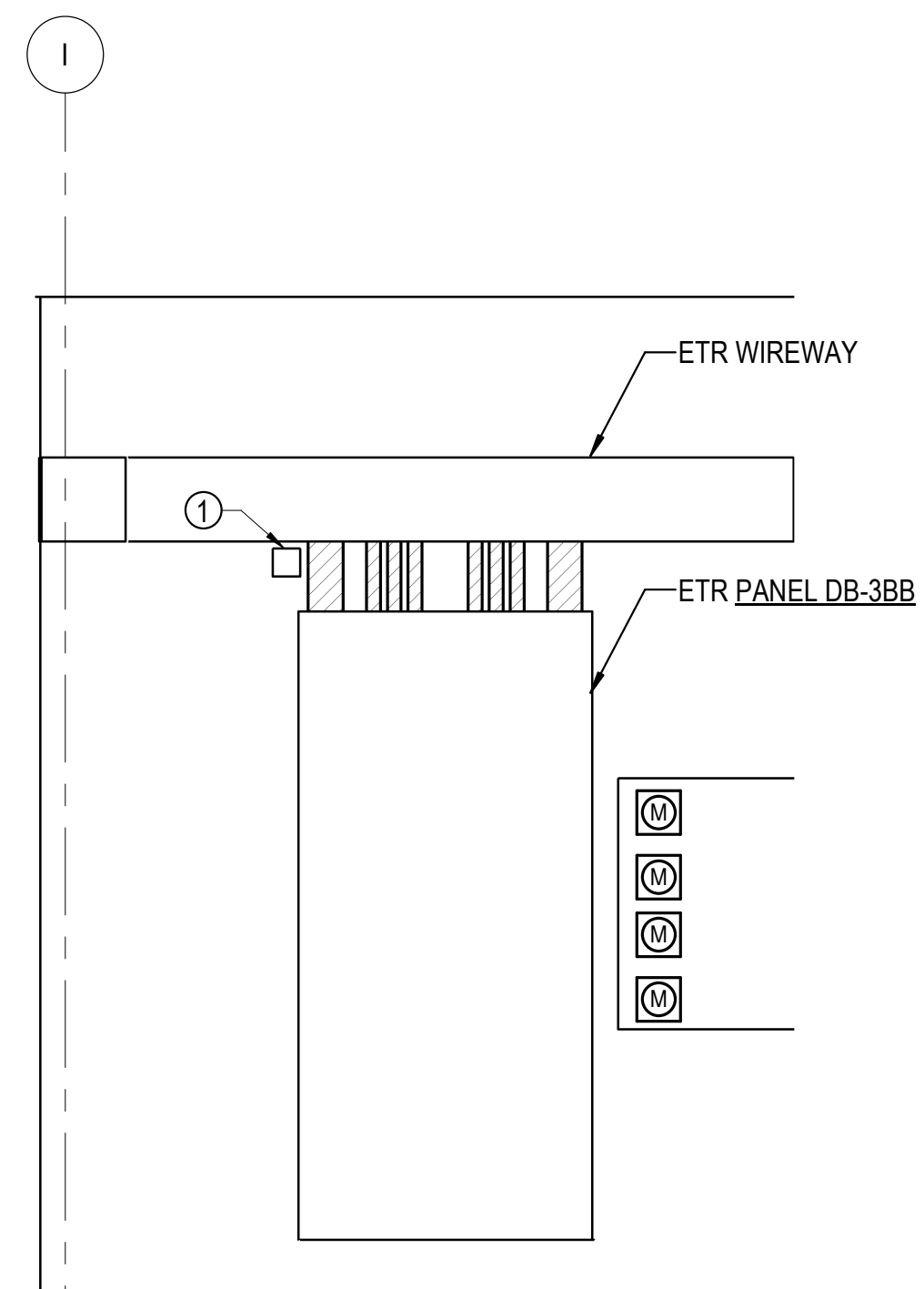
**H2**  
EP401EL SCALE = 1 : 25  
**ELEVATION - ELECTRICAL ROOM 3000EL2 - DEMOLITION**



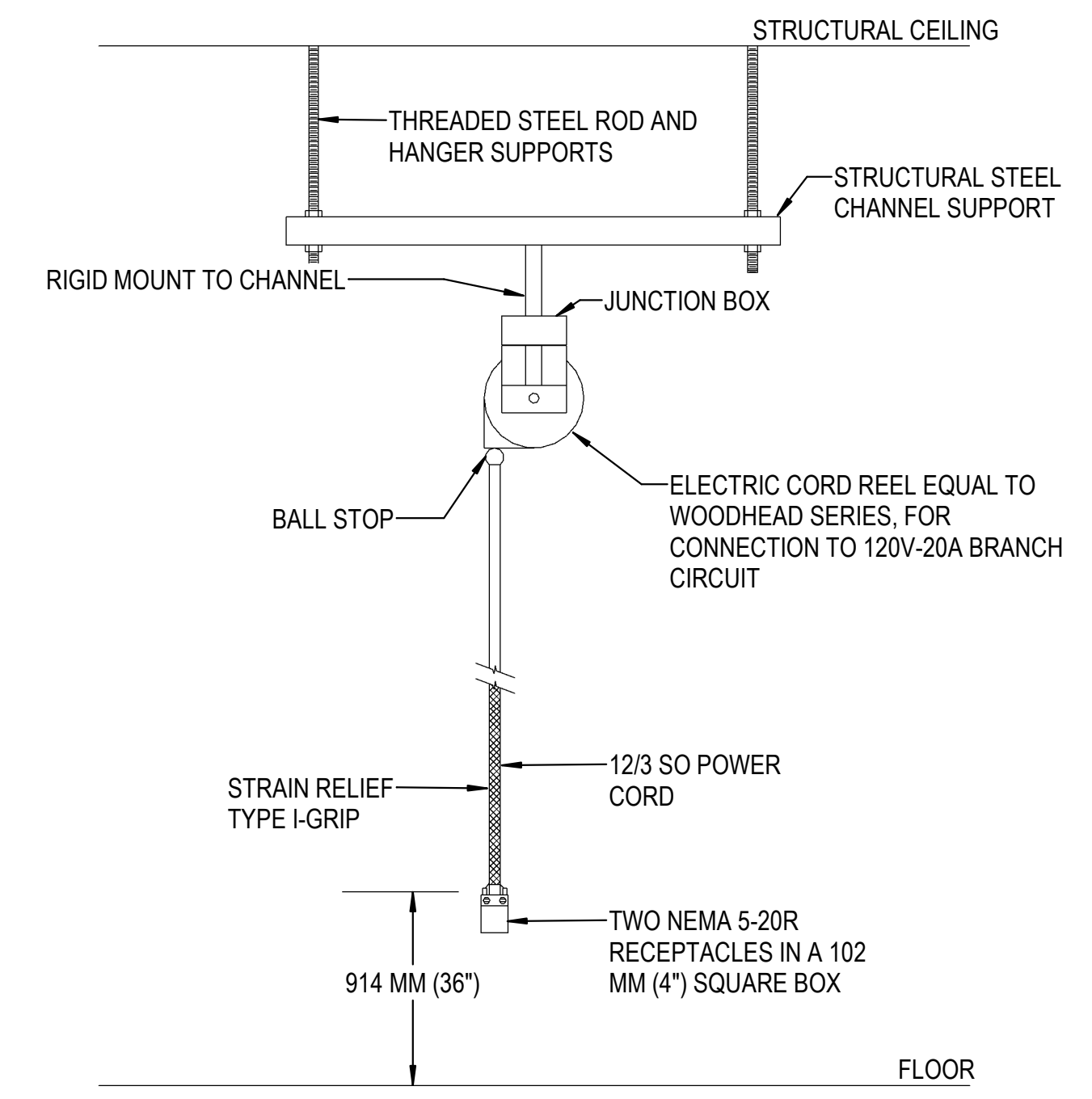
**H6**  
EP401EL SCALE = 1/8" = 1'-0"  
**DETAIL: DOOR CONTACTS AND KEYPAD**

- GENERAL NOTES:**
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAILS OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK
  - B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
  - C. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
  - D. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION BUT WHICH ARE TO REMAIN SHALL BE MADE CONTINUOUS.
  - E. COORDINATE WITH MECHANICAL WORK SHOWN ON MECHANICAL DRAWINGS AND PROVIDE DISCONNECTIONS AND NEW CONNECTIONS OF MECHANICAL EQUIPMENT AS INDICATED AND REQUIRED.
  - F. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
  - G. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.
  - H. WHERE CIRCUITS ARE REMOVED BACK TO PANELS, ASSOCIATED BREAKERS MAY BE USED FOR NEW CIRCUITS. IF NOT REUSED, THEN MARK CIRCUIT BREAKERS AS "SPARE" IN PANEL SCHEDULE, AND LEAVE CIRCUIT BREAKERS IN THE OFF POSITION.
  - I. FIRE ALARM SYSTEM SHALL STAY IN OPERATION. DEMOLITION OF FIRE ALARM DEVICES SHALL NOT AFFECT OPERATION OF REMAINING DEVICES.

- SPECIFIC NOTES:**
- ① EXISTING TO REMAIN JUNCTION BOX OF LUTRON CONTROL SYSTEM. PROVIDE KNOCKOUT CLOSURE PLUG IN OPENING AT BOTTOM OF BOX.



**C2**  
EP401EL SCALE = 1 : 25  
**ELEVATION - ELECTRICAL ROOM 3000EL2 - NEW WORK**



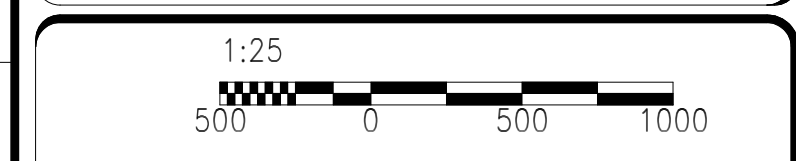
**A9**  
EP401EL SCALE = NOT TO SCALE  
**DETAIL: CORD REEL**

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION

**James Posey Associates**  
Mechanical & Electrical Consulting Engineers  
1125 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com



**GRAPHIC SCALE(S)**

DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

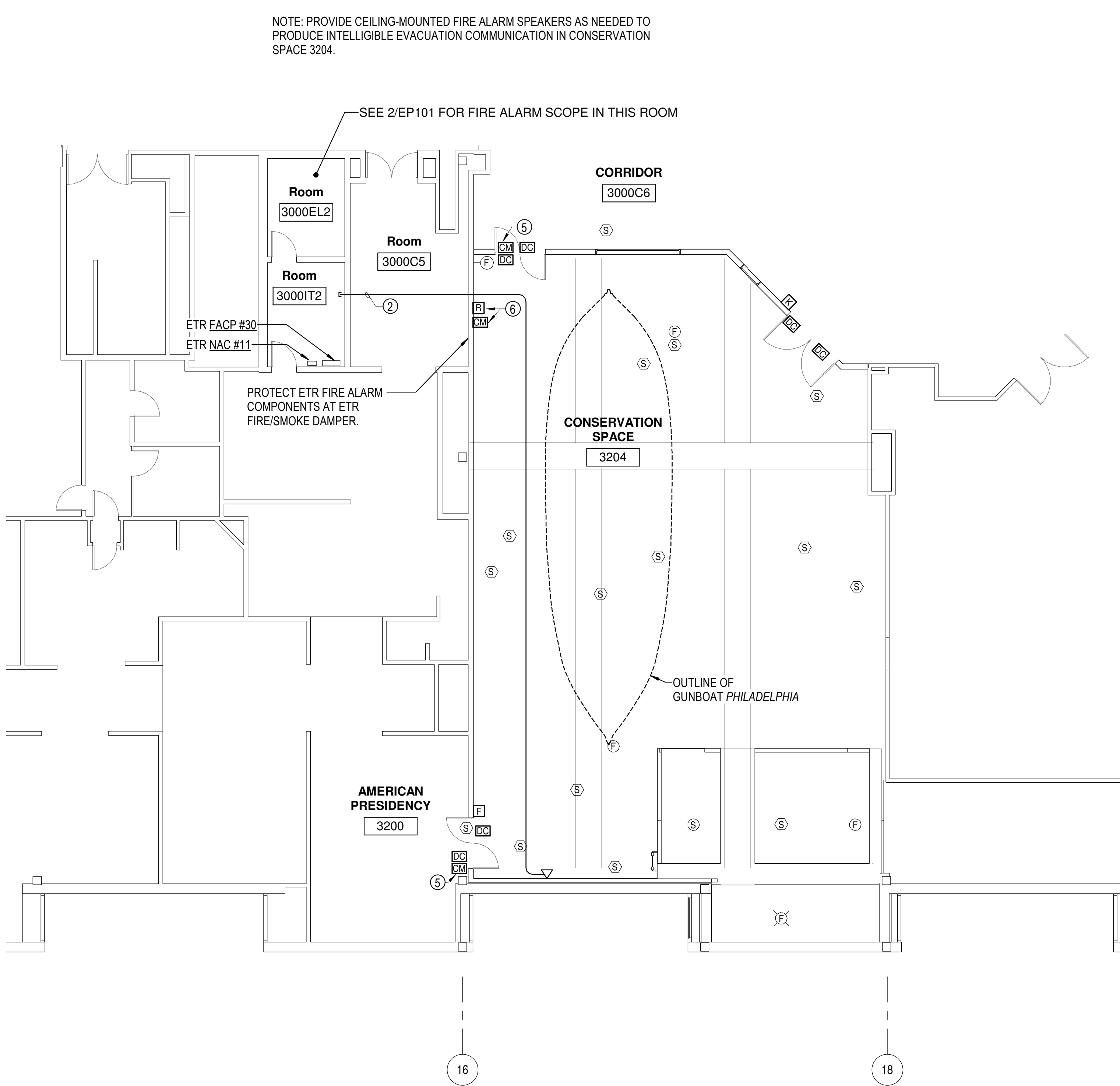
DATE	07/12/24	SUBMISSION	FINAL SUBMISSION
REVISION #	DATE	REVISION DESCRIPTION	

**Smithsonian Institution**  
Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	ELECTRICAL ELEVATIONS & DETAILS
WORKING STAFF	MRH MRH TMC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. EP401EL  
31 of 41

7/31/24 4:00:23 PM  
ET101FP BY TMC Enter Issue Date FINAL SUBMISSION



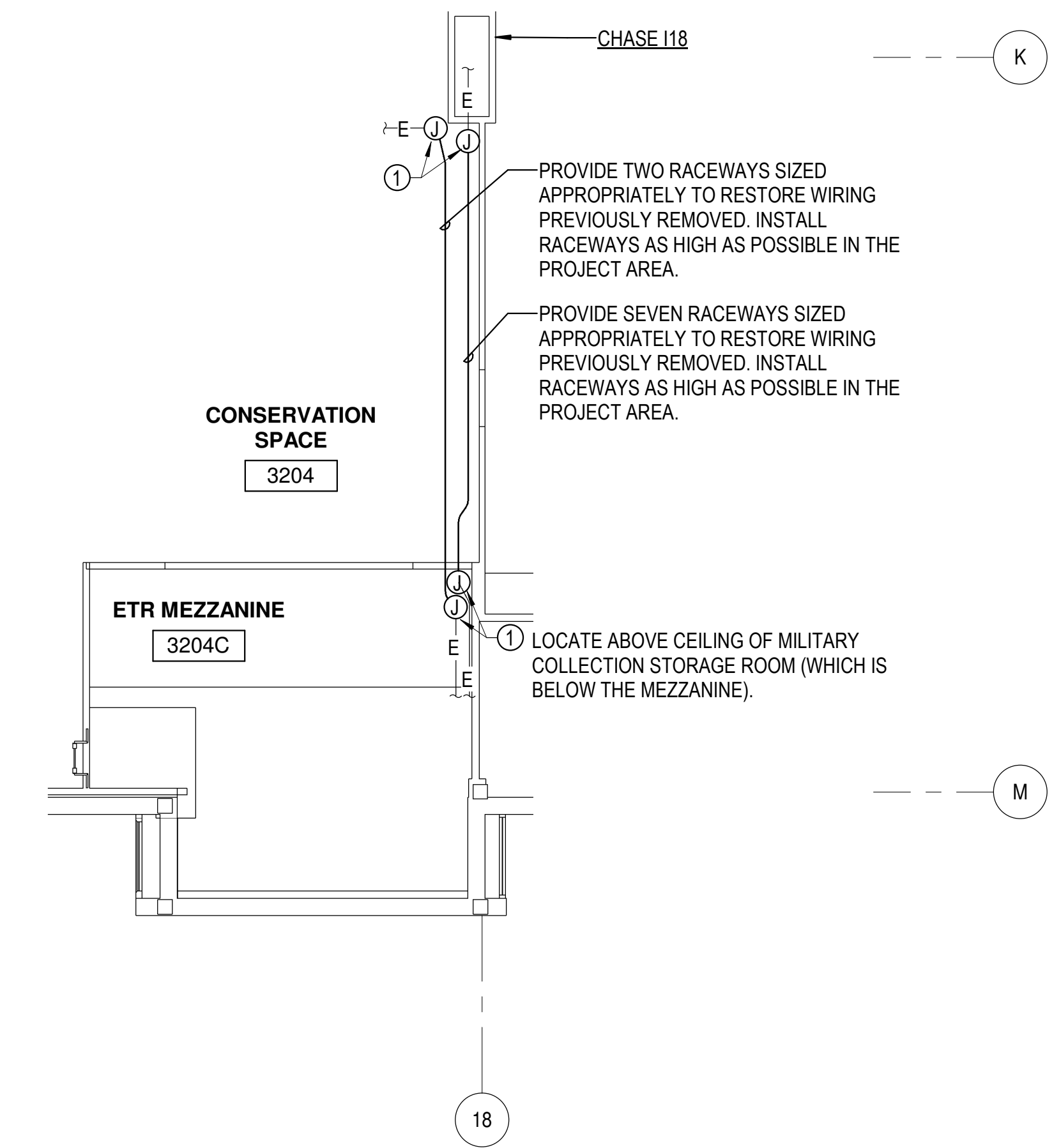
**A1** THIRD FLOOR PLAN - SYSTEMS\_DOC  
ET101FP SCALE = 1 : 100

**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAILS OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DO NOT LOCATE SERVICABLE EQUIPMENT (E.G. LUMINAIRES, DROP CORDS) ABOVE THE FUTURE LOCATION OF THE GUNBOAT PHILADELPHIA.

**SPECIFIC NOTES:**

- ① PROVIDE JUNCTION BOXES, SIZED APPROPRIATELY, ON RACEWAY STUBS. LOCATIONS ARE DIAGRAMMATIC. COORDINATE LOCATIONS SO AS NOT TO INTERFERE WITH OTHER WORK NOR TO IMPEDE SMITHSONIAN OPERATIONS. PULL PREVIOUSLY REMOVED CABLES AND CONDUCTORS BACK TO BOXES. SPLICE NEW CABLES AND CONDUCTORS TO OLD AS REQUIRED TO RESTORE CIRCUITS TO THEIR ORIGINAL OPERATION.
- ② ROUTE IS DIAGRAMMATIC. IN CONSERVATION SPACE 3004, INSTALL AT CEILING. IN 3000C5, CONCEAL ABOVE CEILING. PROVIDE PULL BOXES AS NEEDED TO LIMIT BENDS TO 270-DEGREES OR LESS BETWEEN PULL POINTS. IN 3000IT2, RUN EXPOSED ON WALL, ENDING 2591MM (102") ABOVE FINISHED FLOOR. PROVIDE BUSHING ON RACEWAY STUB.
- ③ FOR CONTROL OF SMOKE DAMPER CIRCUIT. SEE DIAGRAM A5/E603DG.
- ④ FOR MONITORING STATUS OF AHU-1 FAN SYSTEM. SEE DIAGRAM A5/E603DG.
- ⑤ FOR DEACTIVATION OF DOOR'S DELAYED EGRESS FEATURE.
- ⑥ FOR EMERGENCY LIGHTING CONTROL OF TYPE D LUMINAIRES. SEE DIAGRAM G1/601.



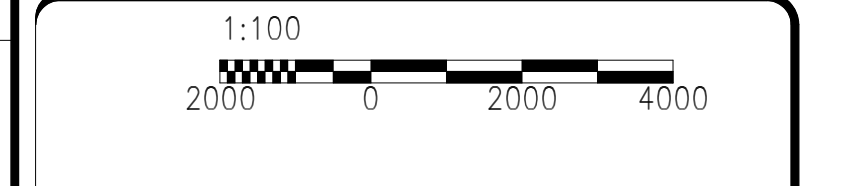
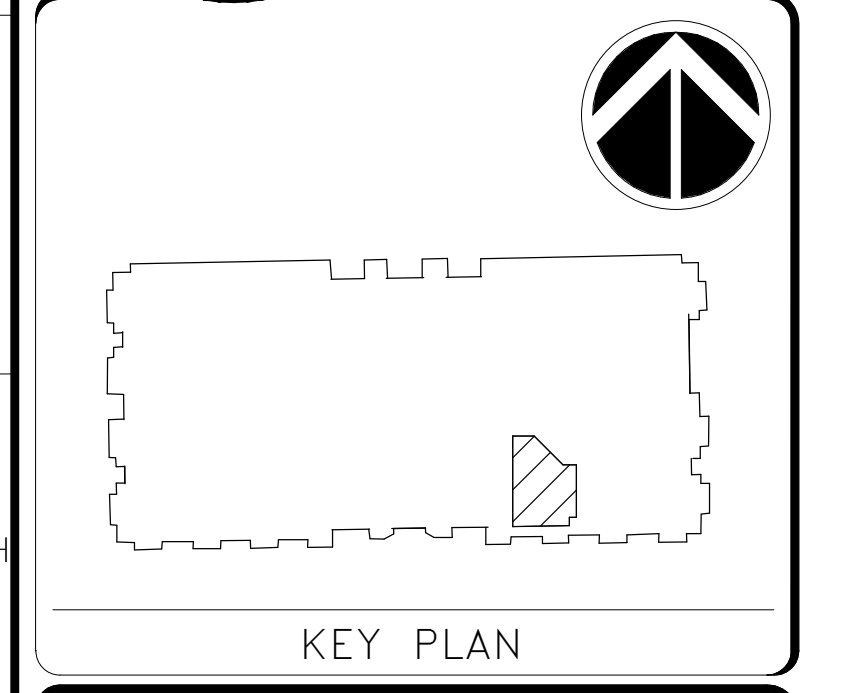
**A9** MILITARY COLLECTIONS WIRING  
ET101FP SCALE = 1 : 100

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION

**DISTRICT OF COLUMBIA**  
PROFESSIONAL ENGINEER  
James Posey Associates  
Mechanical & Electrical Consulting Engineers  
1125 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com



GRAPHIC SCALE(S)

DATE	DESCRIPTION
07/12/24	FINAL SUBMISSION

DATE	DESCRIPTION
07/12/24	FINAL SUBMISSION

**Smithsonian Institution**  
Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	THIRD FLOOR PLAN - SYSTEMS
WORKING STAFF	MRH MRH TMC
DESIGNED BY	MRH
DRAWN BY	MRH
CHECKED BY	TMC
SHEET NO.	ET101FP
32 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

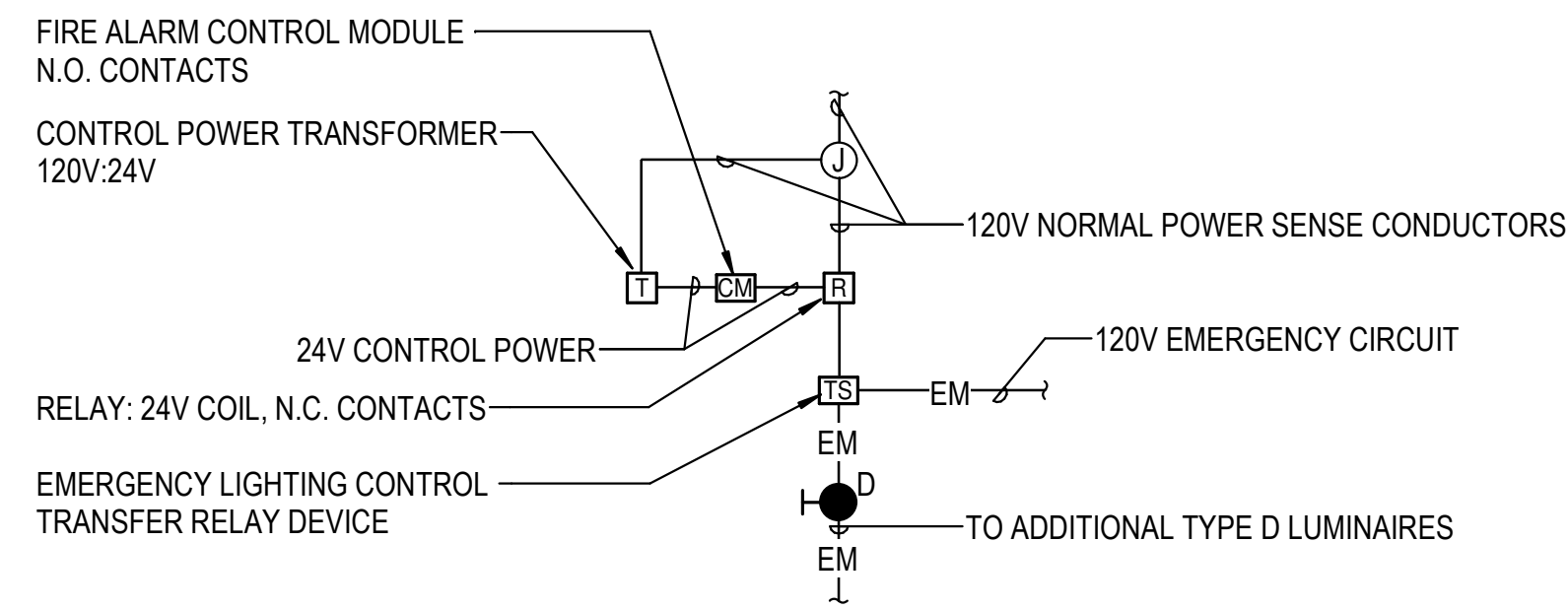


**LUMINAIRE SCHEDULE**

TYPE	DESCRIPTION	LAMP	DESIGN CRITERIA	MIN EFFICACY	BASIS OF DESIGN MODEL	BASIS OF DESIGN MANUFACTURER	VOLTS	MOUNTING	COMMENTS
Type A	HIGH-BAY, DIFFUSE LENS, WIDE DISTRIBUTION, 16% UPLIGHT, 4000K, 0-10V DIMMING, 80CRI	LED	16000 lm	95 lm/W	GP2-L200/840-W-DIM-UNV	HE WILLIAMS	120 V	PENDANT	
Type B	1219MM INDUSTRIAL, 4000K, 80 CRI, NON-DIM	LED	7759 lm	148 lm/W	76-4-L77-8-40-UNV	HE WILLIAMS	120 V	PENDANT MOUNT BELOW BOTTOM OF HVAC DUCT	
Type DP	CORD-MOUNTED, BLACK, BLACK SPECULAR REFLECTOR	LED	641 lm	82 lm/W	LTC-3RD-DM15BLPCC-06L50K8MD-D M1-SBL-BL-BAA	PRESCOLITE	120 V	CORD, 11" AFF	
Type X	EDGE-LIT GREEN EXIT SIGN, LED, CEILING- OR WALL-MOUNT AS INDICATED, ONE- OR TWO-FACED AS INDICATED	LED			SLEDN-A-G-C-D-*	LIGHTALARMS	277 V	SURFACE AT 7'-6"	

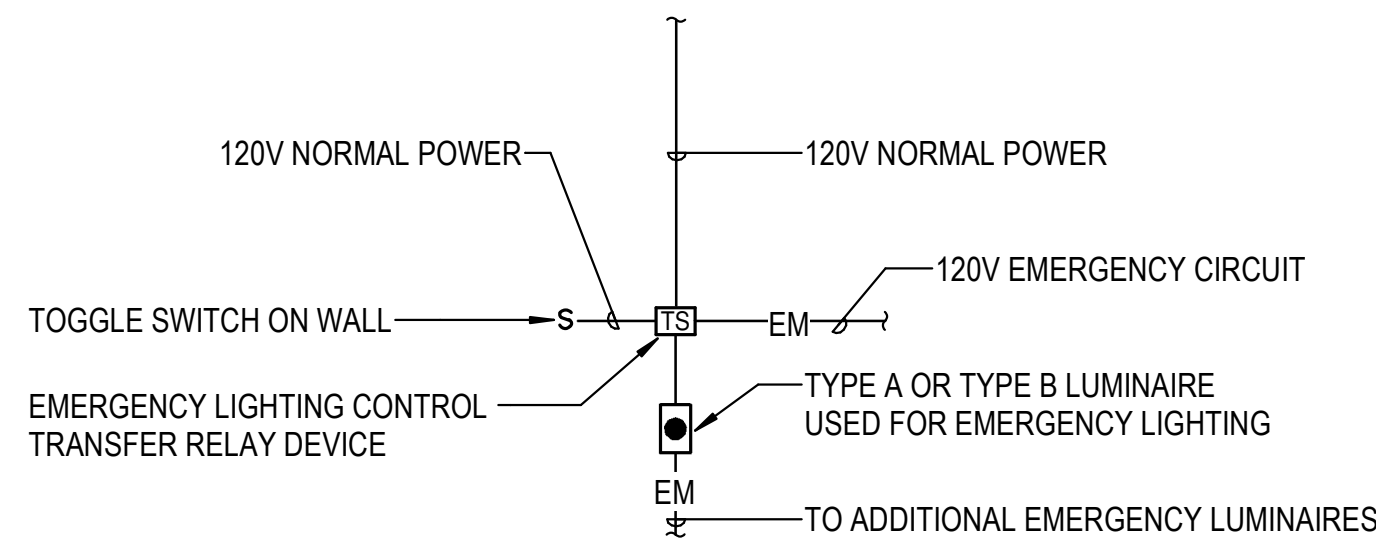
**GENERAL NOTES:**

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAILS OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK
- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
- D. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION BUT WHICH ARE TO REMAIN SHALL BE MADE CONTINUOUS.
- E. COORDINATE WITH MECHANICAL WORK SHOWN ON MECHANICAL DRAWINGS AND PROVIDE DISCONNECTIONS AND NEW CONNECTIONS OF MECHANICAL EQUIPMENT AS INDICATED AND REQUIRED.
- F. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
- G. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.
- H. WHERE CIRCUITS ARE REMOVED BACK TO PANELS, ASSOCIATED BREAKERS MAY BE USED FOR NEW CIRCUITS. IF NOT REUSED, THEN MARK CIRCUIT BREAKERS AS "SPARE" IN PANEL SCHEDULE, AND LEAVE CIRCUIT BREAKERS IN THE OFF POSITION.
- I. FIRE ALARM SYSTEM SHALL STAY IN OPERATION. DEMOLITION OF FIRE ALARM DEVICES SHALL NOT AFFECT OPERATION OF REMAINING DEVICES.



1. WHEN NORMAL POWER IS PRESENT, AND FIRE ALARM SYSTEM IS NOT IN ALARM, TYPE D LUMINAIRES REMAIN OFF.
2. WHEN NORMAL POWER FAILS, EMERGENCY LIGHTING TRANSFER RELAY DEVICE ALLOWS EMERGENCY POWER TO TYPE D LUMINAIRES.
3. WHEN FIRE ALARM SYSTEM IS IN ALARM, CONTROL MODULE CONTACTS CLOSE. 24V COIL IN RELAY IS ENERGIZED. RELAY CONTACTS OPEN, SIMULATING NORMAL POWER FAILURE. EMERGENCY LIGHTING TRANSFER RELAY DEVICE ALLOWS EMERGENCY POWER TO TYPE D LUMINAIRES.

TYPE D LUMINAIRES ON WEST WALL OF GUNBOAT RESTORATION SPACE



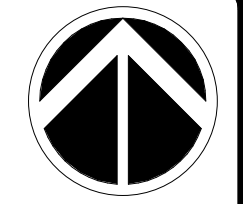
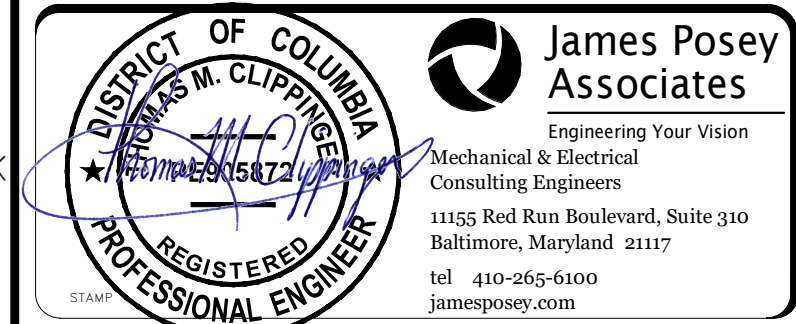
1. WHEN NORMAL POWER IS PRESENT, IT PASSES THROUGH THE EMERGENCY LIGHTING TRANSFER RELAY DEVICE AND THROUGH THE TOGGLE SWITCH TO THE EMERGENCY LUMINAIRES (TYPE A OR B). LUMINAIRES CAN BE TURNED ON OR OFF VIA THE TOGGLE SWITCH.
2. WHEN NORMAL POWER FAILS, EMERGENCY LIGHTING TRANSFER RELAY DEVICE CONNECTS EMERGENCY POWER DIRECTLY TO EMERGENCY LUMINAIRES.

TYPE A AND B LUMINAIRES IN CEILING OF GUNBOAT RESTORATION SPACE

**G1 EMERGENCY LIGHTING CONTROL DIAGRAM**  
E-601SH SCALE: NO SCALE

**NMAH  
GUNBOAT  
PHILADELPHIA TEMP.  
CONSERVATION  
SPACE**

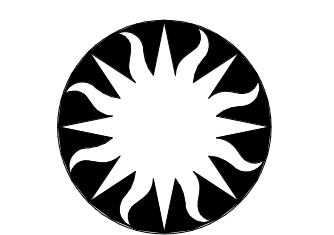
**FOR  
CONSTRUCTION**



KEY PLAN

GRAPHIC SCALE(S)

DATE 07/12/24	SUBMISSION FINAL SUBMISSION
REVISION # DATE	REVISION DESCRIPTION



**Smithsonian  
Institution**

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

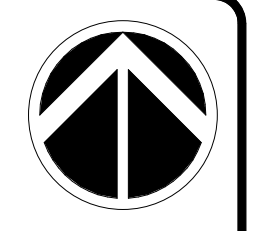
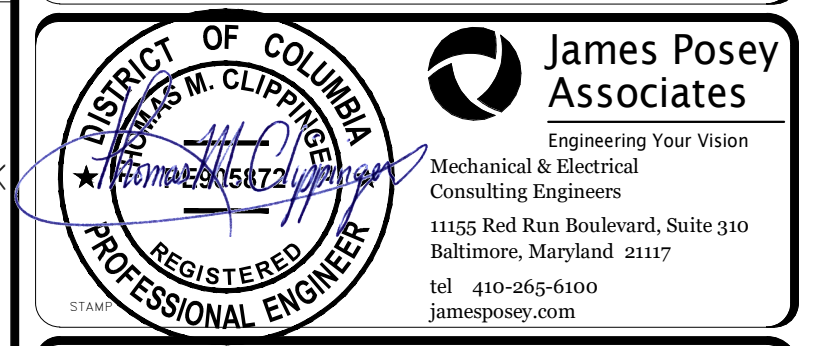
BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
SF PROJECT NUMBER	2003106
A/E PROJECT NUMBER	1401.35
DRAWING TITLE	ELECTRICAL SCHEDULES AND DIAGRAMS
WORKING STAFF	MRH      MRH      TMC DESIGNED BY      DRAWN BY      CHECKED BY
SHEET NO.	E - 601SH
33 of 41	DISCIPLINE    TYPE    SEQUENCE    DRAWING TYPE

GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAILS OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION



KEY PLAN

GRAPHIC SCALE(S)

Revision table with columns: DATE, REVISION #, DATE, REVISION DESCRIPTION. Includes entries for 07/12/24 FINAL SUBMISSION.



Smithsonian Facilities 600 Maryland Avenue S.W. Suite 5001 Washington, DC 20024-2520

Project information table including: SHEET NO. E-602SH, 34 of 41; DRAWING TITLE: ELECTRICAL SCHEDULES; WORKING STAFF: MRH, MRH, TMC.

ETR WIRING PANEL SCHEDULE 3BBSE. 120 / 208 VOLTS 3 PHASE 4 WIRE 225 AMP BUS SURFACE MOUNTED. Table with columns: CIR-CUIT, PO., DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP, A Ø, KVA / Ø, C Ø, POLE, DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP. Includes notes on panel type and breaker requirements.

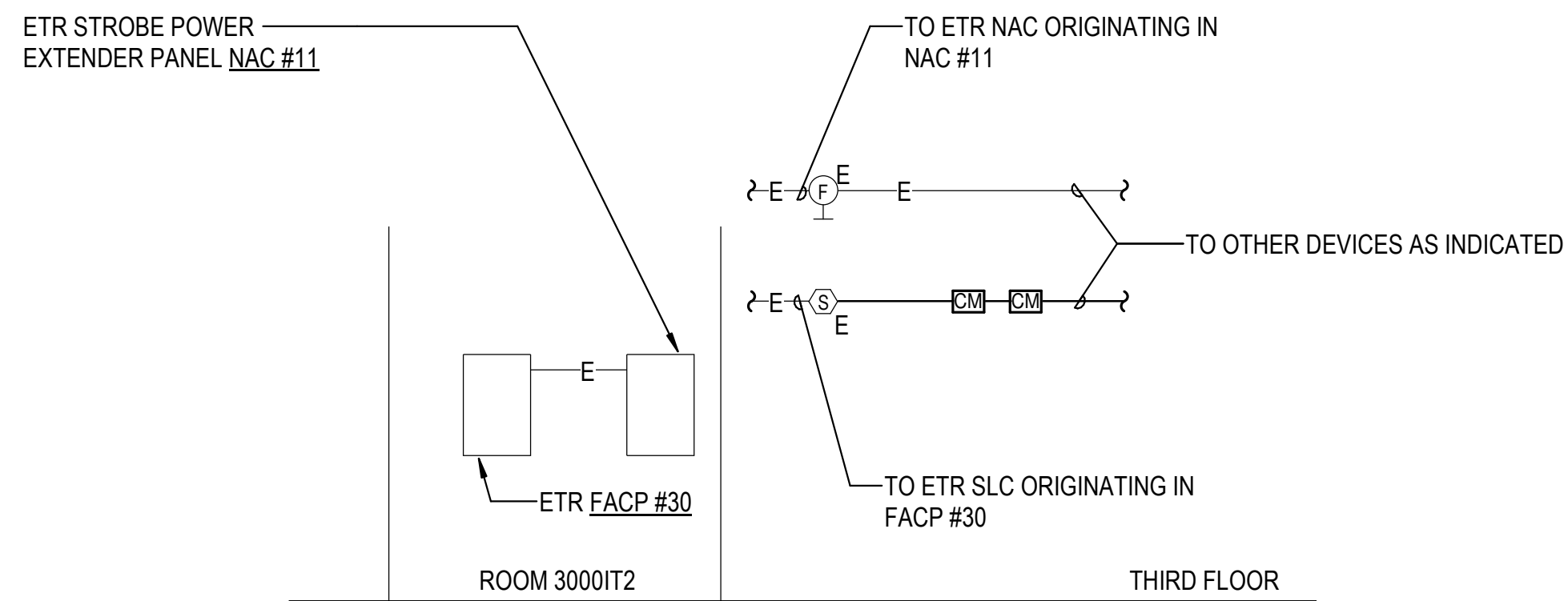
ETR WIRING PANEL SCHEDULE HB3BB SECTION ONE. 277 / 480 VOLTS 3 PHASE 4 WIRE 225 AMP BUS SURFACE MOUNTED. Table with columns: CIR-CUIT, PO., DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP, A Ø, KVA / Ø, C Ø, POLE, DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP. Includes notes on panel type and breaker requirements.

ETR WIRING PANEL SCHEDULE LB3BB. 120 / 208 VOLTS 3 PHASE 4 WIRE 400 AMP BUS SURFACE MOUNTED. Table with columns: CIR-CUIT, PO., DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP, A Ø, KVA / Ø, C Ø, POLE, DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP. Includes notes on panel type and breaker requirements.

ETR WIRING PANEL SCHEDULE HB3BB SECTION TWO. 277 / 480 VOLTS 3 PHASE 4 WIRE 225 AMP BUS SURFACE MOUNTED. Table with columns: CIR-CUIT, PO., DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP, A Ø, KVA / Ø, C Ø, POLE, DESCRIPTION, WIRE / CONDUIT, BREAKER POLE AMP. Includes notes on panel type and breaker requirements.

7/31/24 4:42:34 PM E-602SH BY TMC Enter Issue Date FINAL SUBMISSION

7/31/24, 3:59:56 PM  
E-603SH BY Approver Enter Issue Date FINAL SUBMISSION



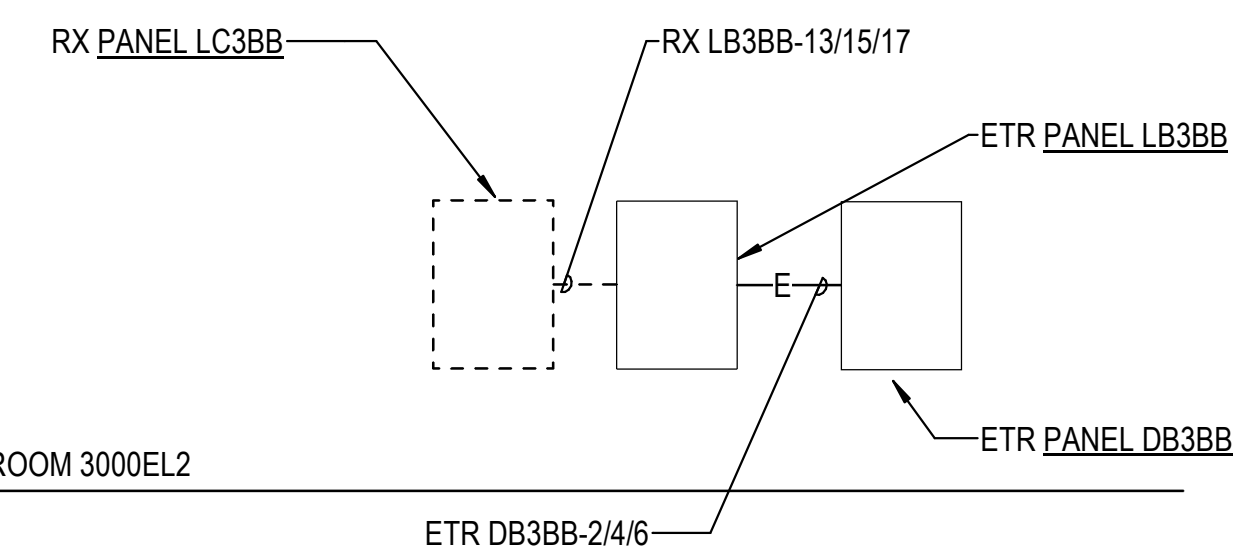
**J5**  
E-603SH **FIRE ALARM RISER**  
SCALE =NO SCALE

SMOKE DETECTOR	●			●	●	●	●
DIRT ON SMOKE DETECTOR		●	●		●	●	
REMOVAL OR DISABLING OF ANY DEVICE		●	●		●	●	
REPLACEMENT OF INITIATING DEVICE WITH WRONG TYPE		●	●		●	●	
OPEN CIRCUIT		●	●		●	●	
GROUND FAULT		●	●		●	●	
NOTIFICATION APPLIANCE SHORT CIRCUIT		●	●		●	●	
REINSTALLED PULL STATION	●			●	●	●	●

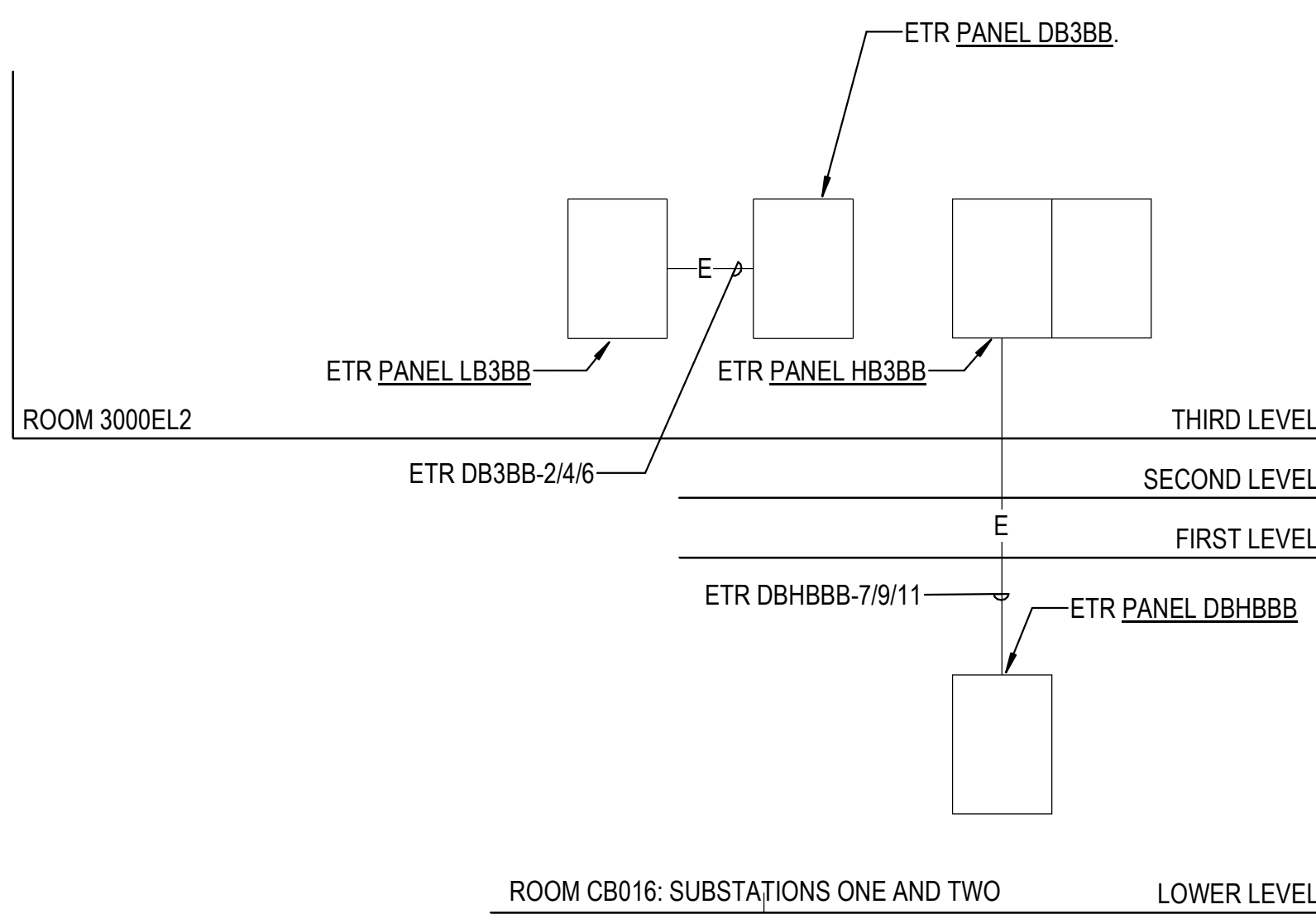
NOTE: NO DEVICE INSTALLED UNDER THIS PROJECT WILL ACTUATE EVACUATION SIGNALS.

**H9**  
E-603SH **FIRE ALARM MATRIX**  
SCALE =NO SCALE

- INITIATE ALARM CONDITION IN FIRE ALARMS SYSTEM
- INITIATE TROUBLE CONDITION IN FIRE ALARMS SYSTEM
- INITIATE SUPERVISORY CONDITION IN FIRE ALARMS SYSTEM
- ACTIVATE AUDIBLE TROUBLE ALARM SIGNAL
- DISPLAY ADDRESSABLE SUPERVISORY SIGNAL
- ACTIVATE ZONE INDICATOR
- TURN ON TYPE DP PENDENT LIGHTS FOR EMERGENCY EGRESS
- TRANSMIT TROUBLE SIGNAL TO ANNUNCIATOR
- DISABLE DELAYED EGRESS FEATURE AT SECURED DOORS



**E1**  
E-603SH **DEMOLITION POWER RISER**  
SCALE =NO SCALE



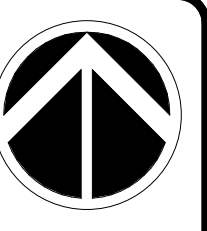
**A1**  
E-603SH **NEW WORK POWER RISER**  
SCALE =NO SCALE

# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

FOR CONSTRUCTION

**James Posey Associates**  
Engineering Your Vision  
Mechanical & Electrical Consulting Engineers  
1155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
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jamesposey.com



KEY PLAN

GRAPHIC SCALE(S)

DATE 07/12/24	SUBMISSION FINAL SUBMISSION
REVISION # DATE	REVISION DESCRIPTION

## Smithsonian Institution

Smithsonian Facilities  
600 Maryland Avenue S.W. Suite 5001  
Washington, DC 20024-2520

BUILDING NAME	NMAH												
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PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE												
SF PROJECT NUMBER	2003106												
A/E PROJECT NUMBER	1401.35												
DRAWING TITLE	ELECTRICAL DIAGRAMS												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>MRH</td> <td>MRH</td> <td>TMC</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	MRH	MRH	TMC	DRAWN BY				CHECKED BY			
DESIGNED BY	MRH	MRH	TMC										
DRAWN BY													
CHECKED BY													
SHEET NO.	E - 603SH												
35 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE												

# INSTALLATION NOTES

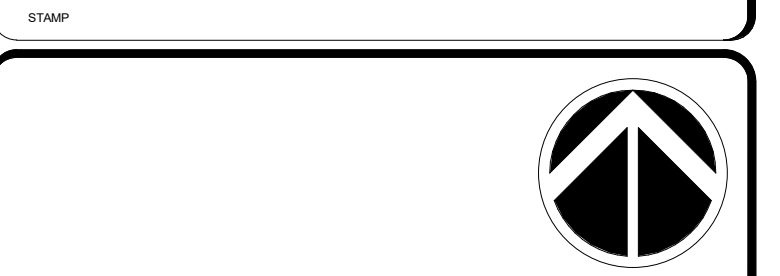
# ABBREVIATIONS

# SECURITY SYMBOLS

# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

**NOT FOR  
CONSTRUCTION**

architrove p.c., architects  
420 10th street s.e.  
washington, d.c. 20003

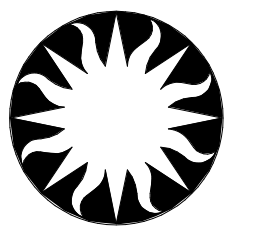


KEY PLAN



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PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
OPRO PROJECT NUMBER	2003106
AE PROJECT NUMBER	1401.35
DRAWING TITLE	SECURITY SYMBOLS, GENERAL NOTES AND ABBREVIATIONS
WORKING STAFF	MAH      FK      MMH DESIGNED BY      DRAWN BY      CHECKED BY
SHEET NO.	TY001
36 of 41	DISCIPLINE      TYPE      SEQUENCE      DRAWING TYPE

(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	RELOCATED
A.F.F.	ABOVE FINISHED FLOOR
A.G.L.	ABOVE GROUND LEVEL
AWG	AMERICAN WIRE GAUGE
AC	ABOVE COUNTER
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
BLDG	BUILDING
B.P.	BOTTOM PLATE
C	CONDUIT
C.E.	CONTROLLER ELECTRONICS
CKT	CIRCUIT
CLG	CEILING
CONC.	CONCRETE
CONT.	CONTINUATION
DIA	DIAMETER
DIM.	DIMENSION
DPDT	DOUBLE POLE DOUBLE THROW DRAWING
ELECT.	ELECTRICAL
ELEV.	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
FIN.	FINISHED
FLR.	FLOOR
GRD	GROUND
Hz	HERTZ
MM	MULTI MODE
N.I.C. NO.	NOT IN THE CONTRACT NUMBER
O.C. OFCl	ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED
PNL	PANEL
PTZ	PAN TILT ZOOM
PWR	POWER
PH	PHASE (ELECTRICAL)
RM	ROOM
RSC	RIGID STEEL CONDUIT
SHT	SHEET
SM	SINGLE MODE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
WP	WEATHERPROOF

# SHEET INDEX

SHEET	DESCRIPTION
removed TY030DT	SECURITY DETAILS
TY001	SECURITY SYMBOLS, GENERAL NOTES AND ABBREVIATIONS
TY102FP	SECURITY NEW FLOOR PLAN
TY501DT	SECURITY DETAILS
TY502DT	SECURITY DETAILS
TY 601	SECURITY ONLINE DIAGRAM
TYD101FP	SECURITY DEMO FLOOR PLAN

SYMBOL	DESCRIPTION
	CARD READER, NEW, K=KEYPAD
	BALANCED MAGNETIC SWITCH, NEW
	PASSIVE INFRARED REQUEST TO EXIT SENSOR, NEW
	ELECTRIC LOCK, D = DELAYED EGRESS, EM = ELECTRIFIED MORTISE
	GLASSBREAK SENSOR, ACCOUSTIC, NEW
	MOTION SENSOR, 360 DEGREE, DUAL TECH, N=NEW, E=EXISTING TO REMAIN, D=DEMO
	MOTION SENSOR, 90 DEGREE, DUAL TECH, N=NEW, E=EXISTING TO REMAIN, D=DEMO
	CAMERA, FIXED COLOR IP, NEW, PROVIDE NEW CAMERA LICENSE
	CAMERA, MULTIMAGER 360 DEGREE, FIXED COLOR IP, NEW, PROVIDE NEW CAMERA LICENSE
	INTERCOM, NEW
	HORN, NEW
	SOUNDER
	VIBRATION SENSOR, N=NEW, E=EXISTING TO REMAIN, D=DEMO
	DOOR MODULE, DELAYED EGRESS
	EXIT HARDWARE, PROVIDED BY DIVISION 28, COORDINATE WITH DIVISION 08 HARDWARE CONTRACTOR
	NETWORK SWITCH, POE+ ETHERNET OVER FIBER OPTIC UNIT, 4- CHANNEL

NOTE: DEMO OF DEVICES WILL BE PLANNED FOR RE-USE WHERE PRACTICAL. WHERE DEMO DEVICES ARE NOT REQUIRED FOR PROJECT, DEVICES WILL BE INVENTORIED AND HAND RECEIPT TO OPS THROUGH THE COTR.

1 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL NOT INTERMIX ANY LINE VOLTAGE POWER WIRES (120VAC) WITH ANY LOW VOLTAGE SIGNAL OR CONTROL WIRES IN ANY CONDUIT.

2 VERIFY ALL FIELD DIMENSIONS AND CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER FURNISHED EQUIPMENT & SERVICES TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.

3 SCHEDULE ALL WORK, INCLUDING CONSTRUCTION ACCESS AND STORAGE, WITH THE OWNER OR THOSE DESIGNATED BY THE OWNER. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.

4 ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES (IF APPLICABLE).

5 CONTRACTOR SHALL PROVIDE DUST PROTECTION AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA, BROOM CLEAN ALL AREAS EACH DAY.

6 COORDINATE WITH THE OWNER TO DETERMINE IF REMOVED ITEMS (IF APPLICABLE) WILL BE KEPT BY THE OWNER. COORDINATE A STORAGE LOCATION AND DELIVER AS DIRECTED BY THE OWNER. DISPOSAL OF OLD EQUIPMENT SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.

7 WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF EXISTING BUILDINGS. INTERRUPTING PERSONNEL AT WORK AS A RESULT OF THIS UNDERTAKING SHALL ALWAYS BE KEPT TO A MINIMUM. CONTRACTOR SHALL PROVIDE TRAFFIC AND SAFETY SIGNS AND BARRIERS WHERE NECESSARY. NO POWER LINE IN THE BUILDING SHALL BE SHUT DOWN UNLESS REQUESTED AND APPROVED BY THE OWNER IN ADVANCE.

8 THE CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON PREMISES SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING, BUT NOT LIMITED TO, THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS OR EMPLOYEES OF THE FACILITY. ALL ROADS AND WALKWAYS SHALL REMAIN CLEAR AND UNOBSTRUCTED. WHEN NECESSARY ALTERNATE ROUTES MUST BE MAINTAINED, SHOULD UNSAFE CONDITIONS OCCUR.

9 COORDINATION WITH OTHER CONTRACTORS:  
IF ANY PART OF THE CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE PROJECT ARCHITECT ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE TO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK EXCEPT AS TO DEFECTS WHICH DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.

10 THE CONTRACTOR SHALL ALWAYS MAINTAIN, AT THE JOB SITE, UPDATED "RECORD" DRAWINGS. THESE DRAWINGS SHALL BE AVAILABLE TO THE ARCHITECTS, INSPECTORS OR THE OWNERS UPON REQUEST.

11 NO CABLE RUN SHALL BE SPLICED UNLESS TWO OR MORE DEVICES ARE CONNECTED TO THE SAME CIRCUIT OR THE DEVICE IS PROVIDED FROM THE FACTORY WITH PIGTAIL WIRES. WHERE SPLICING IS REQUIRED, THE SPLICE SHALL BE SOLDERED AND TAPED. IT SHALL BE DONE IN EITHER A SPECIAL TERMINAL BOX, AT THE BACK BOX OR AT THE DEVICE TERMINAL LUGS. ALL SPLICE BOXES MUST BE IN ACCESSIBLE AREAS AND CLEARLY MARKED ON THE RECORD DRAWINGS.

12 ALL WIRES SHALL BE COLOR CODED AND SHALL BE CONNECTED IN A UNIFORM MANNER. TRANSPOSING OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED. WIRE AND CABLE SIZES, NUMBER OF CONDUCTORS, SHIELDING OR OTHER ITEMS LISTED ON THESE DRAWINGS ARE A GUIDE TO THE CORRECT PRODUCT REQUIRED TO ACHIEVE A WORKING SYSTEM AND REPRESENT THE MINIMUM ACCEPTABLE STANDARDS. CONTRACTOR SHALL CONSULT MANUFACTURER'S RECOMMENDATION FOR CABLING AND USE WHICHEVER IS GREATER IN QUALITY, QUANTITY, GAUGE, SHIELDING AND NUMBER OF CONDUCTORS.

13 ALL WIRING, INCLUDING SHIELDS, MUST BE FREE OF SHORTS, GROUNDS AND STRAY VOLTAGES. ALL RATED FOR WET APPLICATIONS. ALL EXPOSED SURFACE MOUNTED CABLE UNDER 12" A.F.F. SHALL BE IN CONDUIT WHERE INSTALLED IN AREAS WITHOUT CEILINGS.

14 ALL NEW CABLING SHALL BE PLENUM-RATED. EXPOSED OR EXTERIOR CABLE SHALL BE IN CONDUIT. UNDER GROUND CABLE SHALL BE RATED FOR SUCH USE. INSTALL CABLE ON J HOOKS.

15 A PRE PRINTED VINYL MATERIAL MARKER WRAPPED IN ADHESIVE CLEAR PLASTIC SHALL BE PROVIDED TO THE FOLLOWING:  
A. CABLES WITHIN 6" UPON ENTRY AT ANY SECURITY PANEL, TERMINATION OR SPLICE BOX.  
B. ALL WIRE LEADS WITHIN 2" FROM ANY TERMINAL BLOCK.  
C. THE CONTRACTOR SHALL SUBMIT SAMPLES OF MARKERS AND ANY NUMBERING OR MARKING SYSTEM FOR REVIEW PRIOR TO IMPLEMENTATION.

16 THE CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT OR SLEEVE PENETRATIONS THROUGH ALL WALLS, FLOORS AND CEILINGS USING APPROVED FIRE STOPPING MATERIALS AND SEALANTS REGARDLESS OF RATING AND AS PER APPLICABLE BUILDING CODES.

17 ALL ROUTING OF WIRING AND ANY RELATED CONDUIT IS DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO INSTALLATION.

18 THE CONTRACTOR SHALL CLEAN AND THOROUGHLY CHECK ALL INSTALLED WORK PRIOR TO CONCEALING OF ARCHITECTURAL FINISHING. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION. THE CONTRACTOR SHALL ALSO REPAIR OR CLEAN ALL SOILED SURFACES, PAINTED SURFACES OR DAMAGED ARCHITECTURAL FINISHES TO MATCH THE ADJACENT AREA. WHERE REQUIRED, CLEANING, PATCHING OR PAINTING BRING THE AFFECTED SURFACE OR FINISH BACK TO ITS ORIGINAL CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

19 COORDINATE ALL TELEPHONE AND DATA (LAN/WAN) INSTALLATION AND CONNECTION REQUIREMENTS WITH THE OWNERS IT DEPARTMENT REPRESENTATIVE AND THE GENERAL CONTRACTOR.

20 ALL CONDUITS AND CABLE PATHS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS. IF MORE THAN THREE 90 DEGREE BENDS ARE TO BE USED IN THE CONDUIT RUN, INSERT A PULL BOX. CONTRACTOR SHALL SIZE THE BOX ACCORDINGLY. CONDUITS SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER AS REQUIRED TO COMPLY WITH CODE. MINIMUM ALLOWABLE CONDUIT SIZE SHALL BE 3/4".

21 WHERE THE CONTRACTOR HAS TO CHANGE ANY DEVICE TYPE OR MOUNTING TO SUIT ACTUAL CONDITIONS, THIS SHALL BE DONE WITHOUT EXTRA COST TO THE OWNERS. THIS INCLUDES ANY ADDITIONAL PART TO BE SUPPLIED BY THE CONTRACTOR TO ACCOMPLISH PROPER MOUNTING OF A DEVICE. HOWEVER, IT SHALL BE REQUESTED, SUBMITTED AND APPROVED IN WRITING BEFORE COMMENCING THE WORK.

22 PROVIDE PULL STRINGS IN ALL CONDUITS. PROVIDE BLANK COVERS ON ALL JUNCTION AND PULL BOXES.

23 THE CONTRACTOR SHALL UNDERTAKE THIS WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.

24 SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS.

25 INSTALL U.L. LISTED, AGENCY APPROVED WALL PENETRATIONS AT ALL CABLING WALL PENETRATION LOCATIONS.

26 THE USE OF THE WORD "PROVIDE" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN THAT SUCH SHALL BE FURNISHED, INSTALLED AND CONNECTED, WHERE SO REQUIRED, EXCEPT AS NOTED OTHERWISE.

27 ELECTRICAL CIRCUITS SHOWN IN THIS SET ARE FOR REFERENCE ONLY AND PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL SHEETS FOR CIRCUIT NUMBERS, CIRCUITING AND PANEL LOCATIONS.

28 SEE ARCHITECTURAL PLAN FOR EXITING.

29 IN THE EVENT OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, WHICHEVER IS MORE STRINGENT OR CALLS FOR THE HIGHEST QUANTITY OR QUALITY OF MATERIALS HAS PRECEDENCE.

30 PRIOR TO SUBMITTAL OF BID, NOTIFY, IN WRITING, SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR WILL CAUSE A DELAY IN CONSTRUCTION COMPLETION SCHEDULE.

31 ALL EXIT DOORS TO REMAIN FREE OPENING FROM EXIT SIDE. U. O. N.

32 THE CONTRACTOR SHALL INCLUDE ANY COORDINATION, RELAYS, TIMERS, NETWORK CARDS, TERMINAL STRIPS, ETC., REQUIRED FOR A COMPLETELY FUNCTIONAL INTERFACE WITH ELEVATOR CONTROLLERS, FIRE ALARM SYSTEMS, DOOR HARDWARE AND AUTOMATIC DOOR OPERATORS, WHICH EVER IS APPLICABLE.

33 THE WORK AS DEFINED IN THIS DRAWING SERIES INCLUDING THE SYMBOLS LEGEND, GENERAL NOTES, NOTES TO SHEET, DETAILS AND FLOOR PLANS IS TO PROVIDE COMPLETE TURNKEY SECURITY SYSTEMS INCLUDING ALL SOFTWARE, HARDWARE, DEVICES, WIRE, CONDUIT, BACKBOXES, JUNCTION BOXES AND WIREWAYS.

34 COORDINATE THE WORK WITH THE RELATED WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, FIRE ALARM, IT, ELEVATOR AND DOOR HARDWARE.

35 REFER TO THE DETAILS FOR ADDITIONAL INFORMATION ON THE INSTALLATION REQUIREMENTS FOR EACH DEVICE.

36 CONDUIT, BACKBOXES, JUNCTION BOXES, WIREWAYS AND WIRING SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE (CEC).

37 CONDUIT USED IN POTENTIALLY DAMP OR WET LOCATIONS, EXPOSED OUTDOORS OR IN HAZARDOUS AREAS SHALL BE INTERMEDIATE STEEL CONDUIT (IMC).

38 IN SLAB OR BURIED BELOW GRADE CONDUIT SHALL BE PVC.

39 CONDUIT OTHER THAN SPECIFIED TO BE IMC OR PVC SHALL BE ELECTRICAL METALLIC TUBING (EMT).

40 ROUTE CONDUIT ABOVE CEILINGS, BELOW FLOORS OR WITHIN WALLS; NO CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT/OWNER.

41 SEAL CONDUIT AND WIRING PENETRATIONS THROUGH FIRE RATED PARTITIONS AS REQUIRED BY CODE.

42 PROVIDE WATER TIGHT GLAND SEALING ASSEMBLIES WITH PRESSURE BUSHING AS REQUIRED FOR EXTERIOR PENETRATIONS.

43 PROVIDE PULL STRINGS IN ALL CONDUIT.

44 CONDUIT ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO REPRESENT INSTALLED PATHS OR DISTANCES. THE INSTALLING CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OTHER DISCIPLINES.

45 BACKBOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.

46 BACKBOXES MOUNTED WITHIN FIRE RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.

47 PROVIDE JUNCTION AND PULL BOXES AS REQUIRED BY CEC.

48 PROVIDE BLANK COVER PLATES FOR JUNCTION AND PULL BOXES.

49 JUNCTION AND PULL BOXES LOCATED IN EXPOSED ACCESSIBLE AREAS SHALL BE SECURED WITH TAMPER PROOF SCREWS.

50 BACKBOX, JUNCTION AND PULL BOXES IN EXTERIOR LOCATIONS SHALL BE WATERPROOF.

51 ROUTE WIRING WITHIN CONDUIT OR EXPOSED WITHIN WALLS, ABOVE ACCESSIBLE CEILINGS, BELOW ACCESSIBLE FLOORS, IN CABLE TRAYS OR IN RISER CLOSETS.

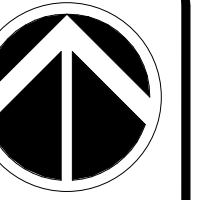
52 PROVIDE WIRING SUPPORTS FASTENED TO STRUCTURE IN ACCORDANCE FOR ALL WIRING NOT ROUTED IN CONDUIT OR CABLE TRAY.

# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

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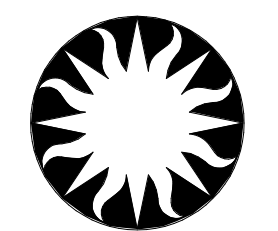
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KEY PLAN

GRAPHIC SCALE(S)

DATE	SUBMISSION
07/12/24	FINAL SUBMISSION
REVISION DATE	REVISION DESCRIPTION



## Smithsonian Institution

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Washington, DC 20024-2520

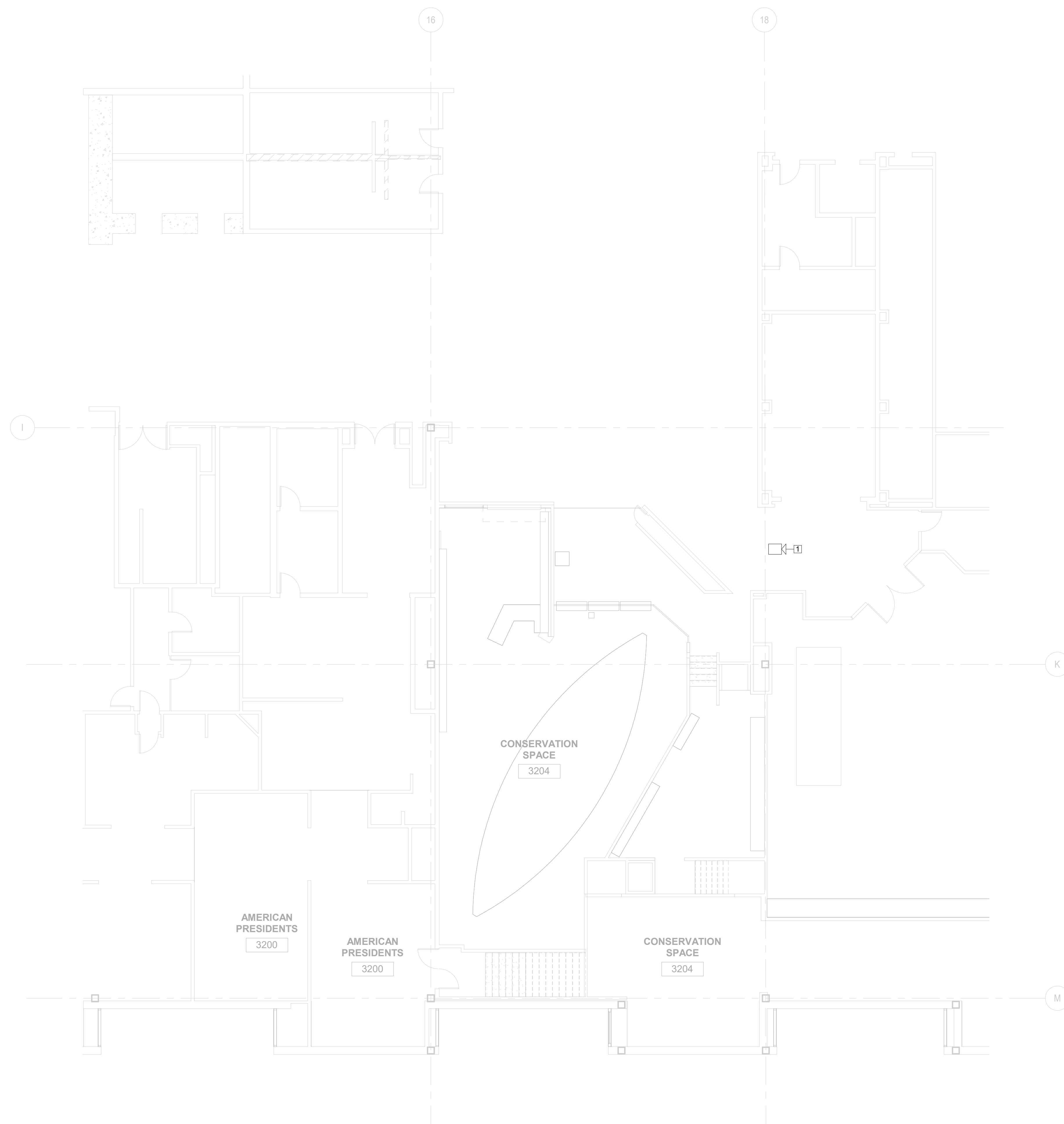
BUILDING NAME	NMAH		
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560		
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE		
OPRO PROJECT NUMBER	2003106		
AE PROJECT NUMBER	1401.35		
DRAWING TITLE	SECURITY DEMO FLOOR PLAN		
WORKING STAFF	MAH	FK	MMH
	DESIGNED BY	DRAWN BY	CHECKED BY
SHEET NO.	TYD101FP		
37 of 41	DISCIPLINE	TYPE	SEQUENCE

### SECURITY DEMO NOTES

- NO EXISTING ELECTRONIC SECURITY NOTED FOR DEMOLITION WITHIN THE PROJECT SPACE. DURING DEMOLITION, IF ELECTRONIC SECURITY COMPONENTS NOTED (CONDUITS, CABLING OR DEVICES) WITHIN THE PROJECT AREA, COORDINATE DISPOSITION WITH OFFICE OF PROTECTION SERVICES.
- REFER TO NEW PLAN FOR FUTURE INTRUSION ZONE REQUIREMENTS. ALL ELECTRONIC SECURITY WORK WITHIN THIS SPACE WILL REMAIN FUNCTIONAL AT ALL TIMES. PER NEW WORK, NEW WALL AND NEW SENSORS (INTRUSION ZONE) MUST BE OPERATIONAL PRIOR TO ANY DEMO WORK ON THIS PLAN.

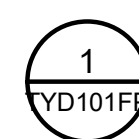
### SECURITY KEY NOTES

- REMOVE EXSITING ANALOG CAMERA AND CABLING BACK TO SECURITY CLOSET. REFER TO NEW WORK FOR NEW CAMERA REQUIREMENTS FOR THIS LOCATION.



### DEMOLITION FLOOR PLAN

SCALE = 1 : 100

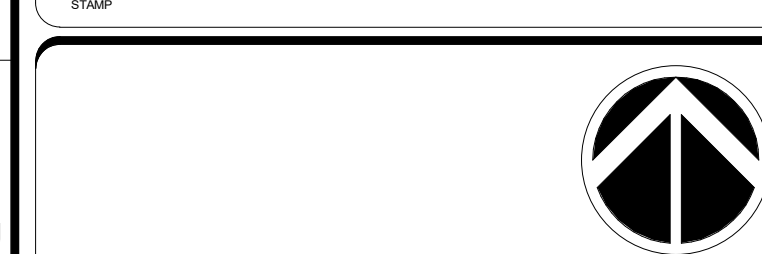


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# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

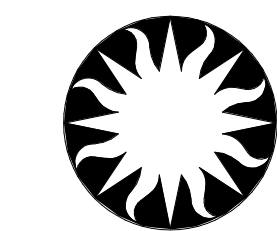
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KEY PLAN

GRAPHIC SCALE(S)

DATE 07/12/24	SUBMISSION FINAL DOCUMENTS
REVISION DATE	REVISION DESCRIPTION



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BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
OPRO PROJECT NUMBER	2003106
AE PROJECT NUMBER	1401.35

DRAWING TITLE	SECURITY NEW FLOOR PLAN
WORKING STAFF	MAH FK MMH
DESIGNED BY	MAH
DRAWN BY	FK
CHECKED BY	MMH

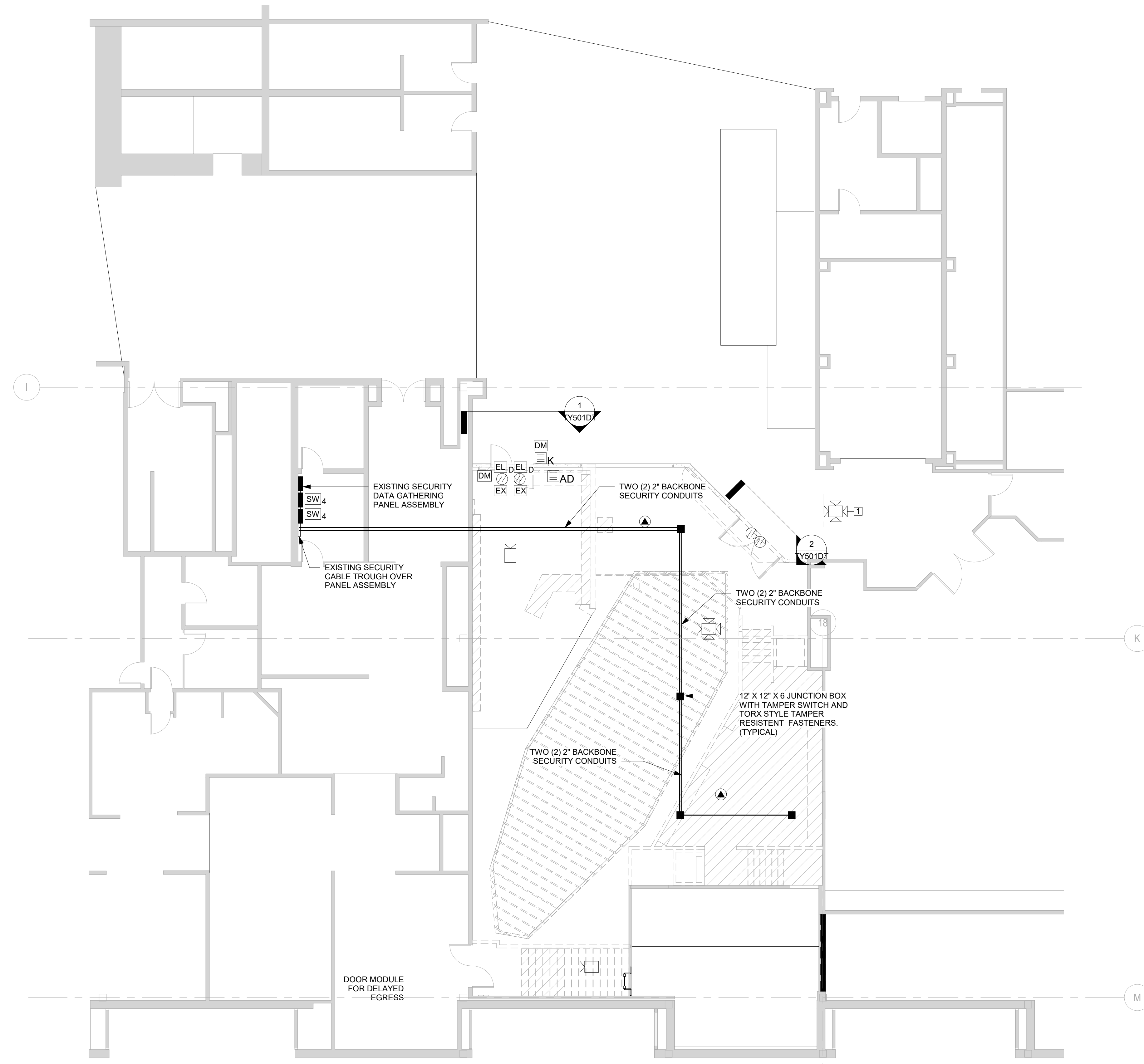
SHEET NO.	TY102FP
38 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

### SECURITY SHEET NOTES

1. REFER TO SHEET TY 001 FOR GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. REFER TO DEMO PLANS FOR WORK REQUIRED AMPU STORAGE ROOM.
3. BACKBONE SECURITY CONDUITS SHOWN AS DESIGN INTENT. COORDINATE ROUTING WITH TRADES.
4. BRANCH CONDUITS ARE NOT SHOWN BUT ARE REQUIRED FOR ALL SECURITY CABLING. REFER TO GENERAL NOTES FOR REQUIREMENTS.

### SECURITY KEY NOTES

1. LOCATE NEW MULTI-IMAGER CAMERA IN LOCATION OF DEMO'D SINGLE IMAGER CAMERA. REPLACE ANALOG CABLING WITH CATEGORY 6. UTILIZE EXISTING PATHWAY.



NEW WORK FLOOR PLAN

SCALE = 1 : 100

1  
TY102FP

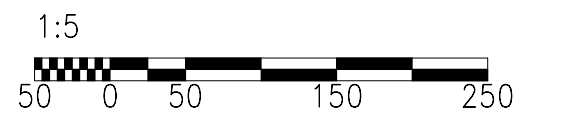
# NMAH GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE

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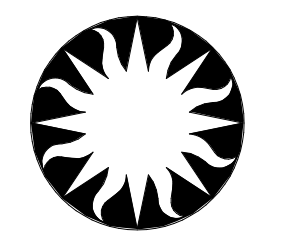


KEY PLAN



GRAPHIC SCALE(S)

DATE	SUBMISSION
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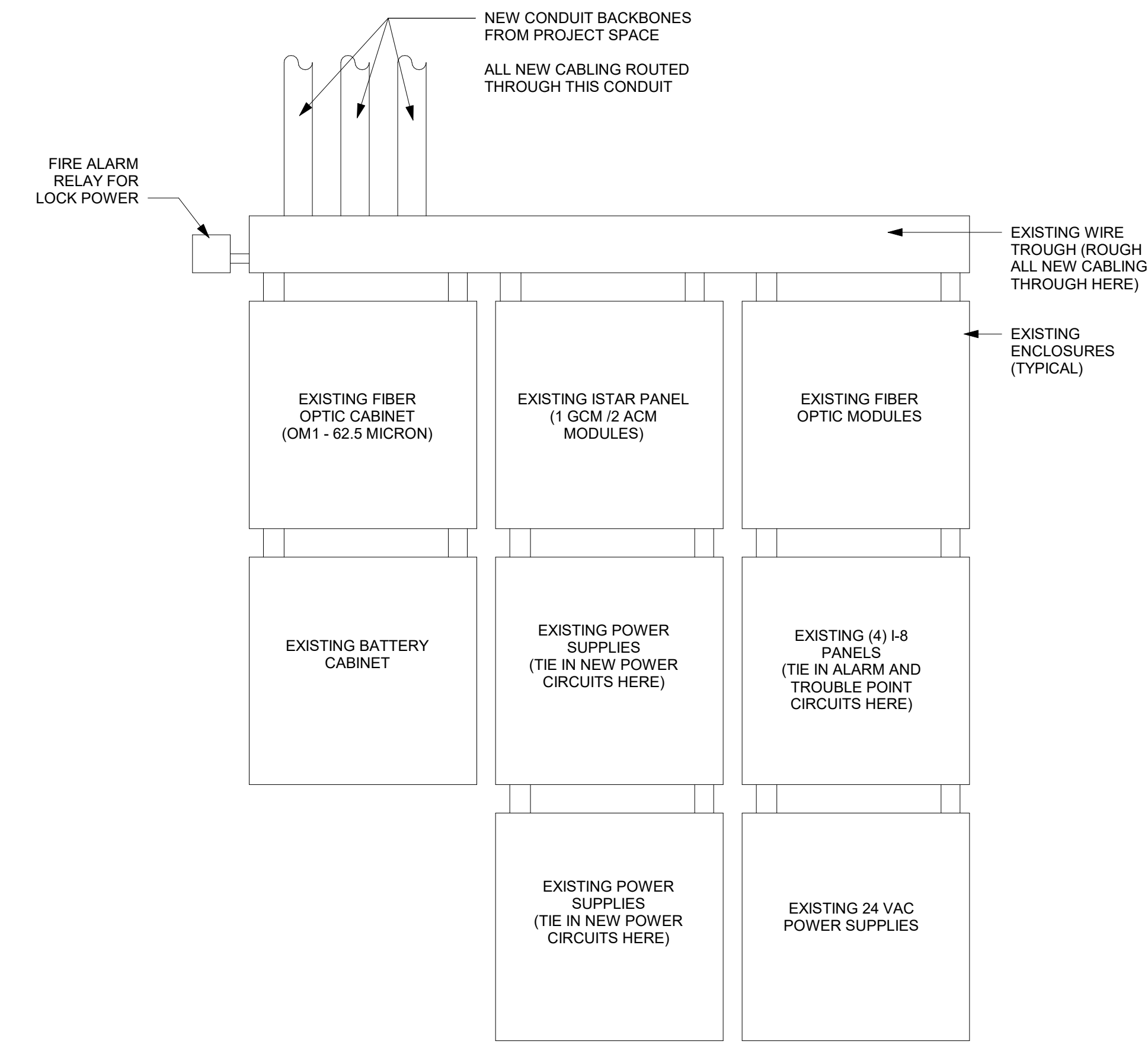
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ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
OPRO PROJECT NUMBER	2003106
AE PROJECT NUMBER	1401.35

DRAWING TITLE	SECURITY DETAILS
WORKING STAFF	MAH FK MMH
DESIGNED BY	DRAWN BY
CHECKED BY	

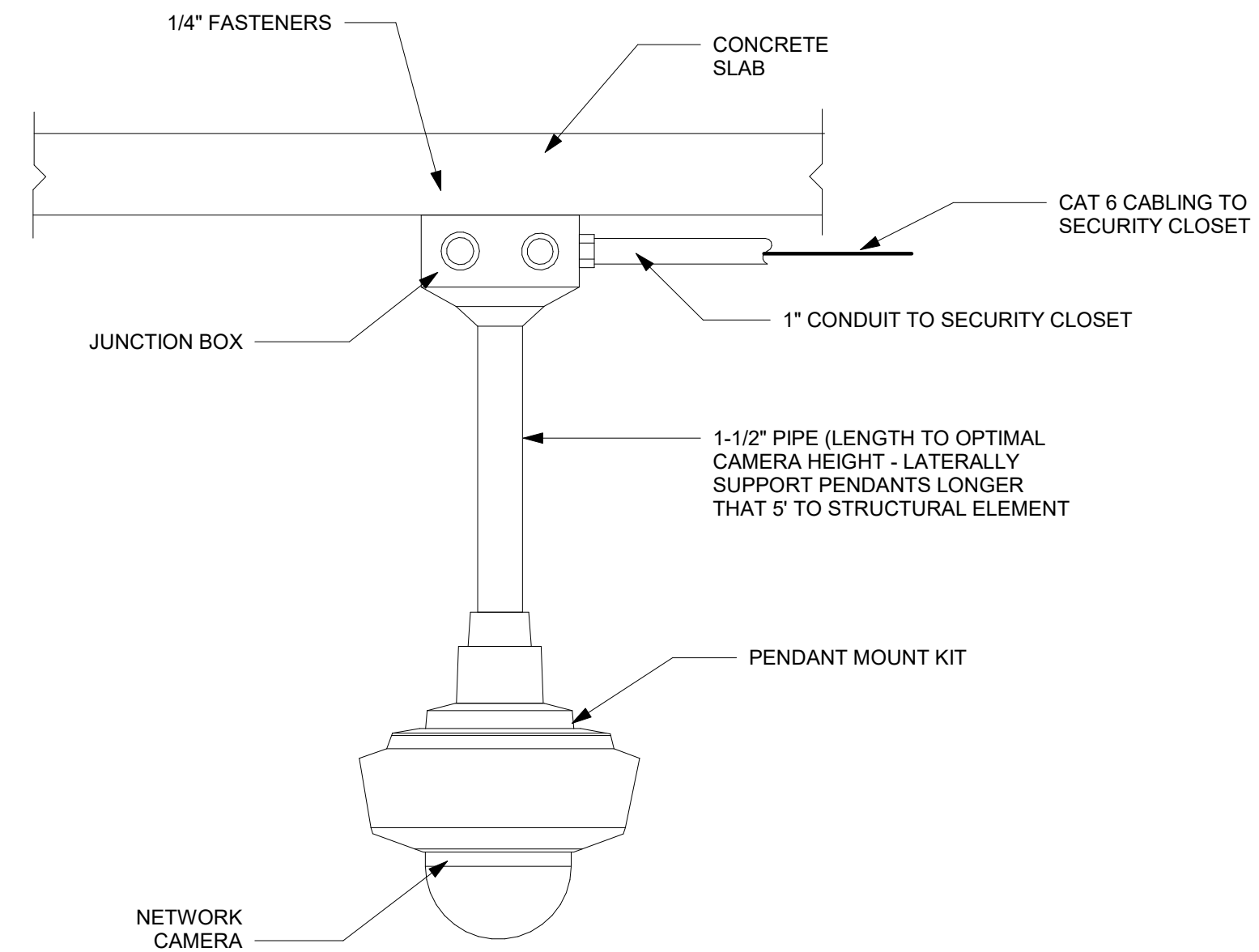
SHEET NO.	TY501DT
39 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

## DOOR DETAIL KEYNOTES

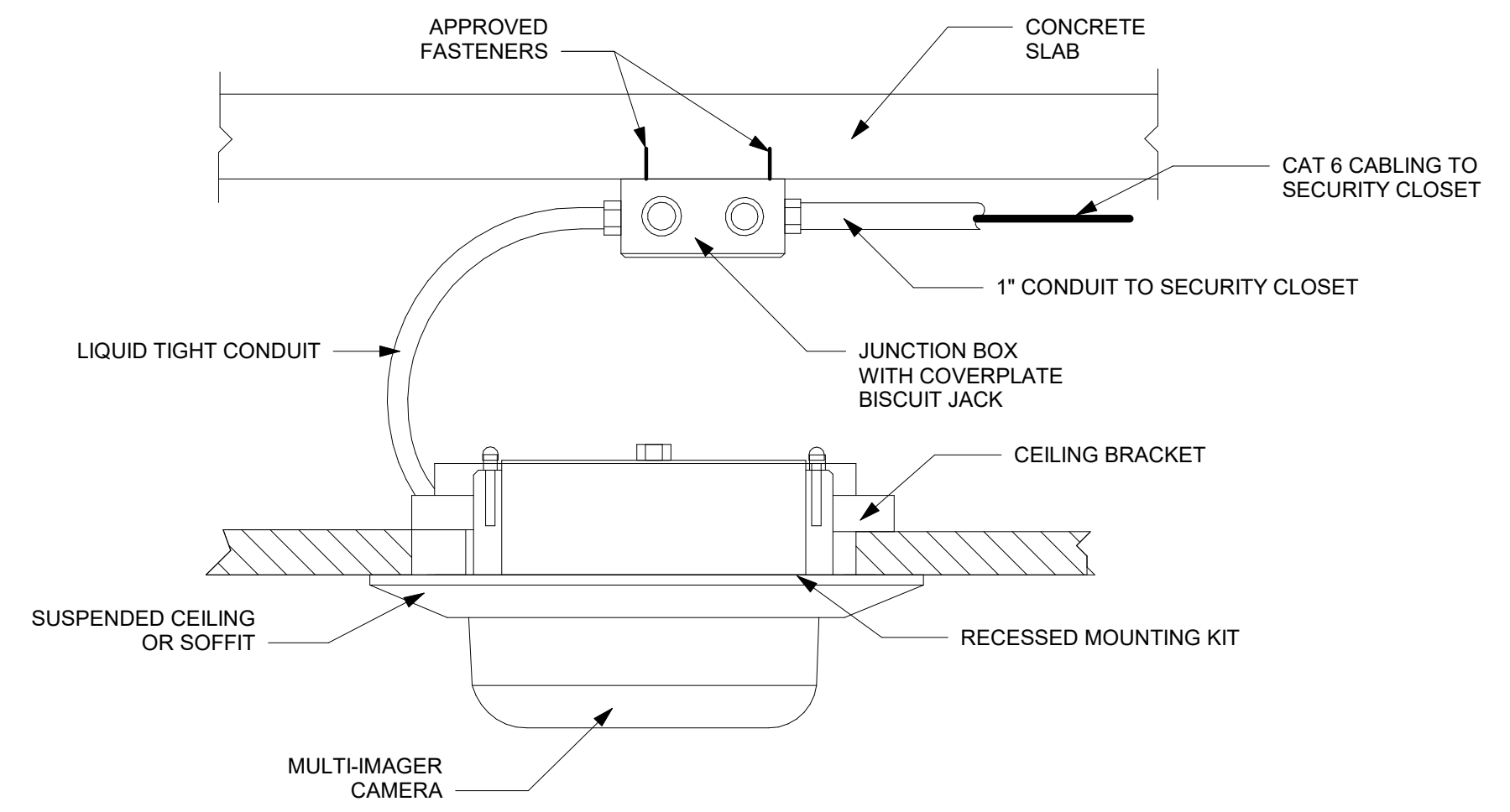
#	KEYNOTE DESCRIPTION
1	DOOR CONTACTS, RECESSED
2	CARD READER, MOUNT AT 46" AFF
3	ELECTRIC LOCK, MAGLOCK, SHOWN FOR DIVISION 08 COORDINATION (MOUNTED ON THE SECURE SIDE OF DOOR)
4	PASSIVE INFRARED, REQUEST TO EXIT SENSOR (MOUNTED ON THE SECURE SIDE OF DOOR)
5	EXIT HARDWARE, NON-ELECTRONIC, MOUNTED ON THE SECURE SIDE OF DOOR
6	DOOR MODULE, DELAYED EGRESS
7	ELECTRIFIED MORTISE LOCK WITH INTEGRAL REQUEST TO EXIT



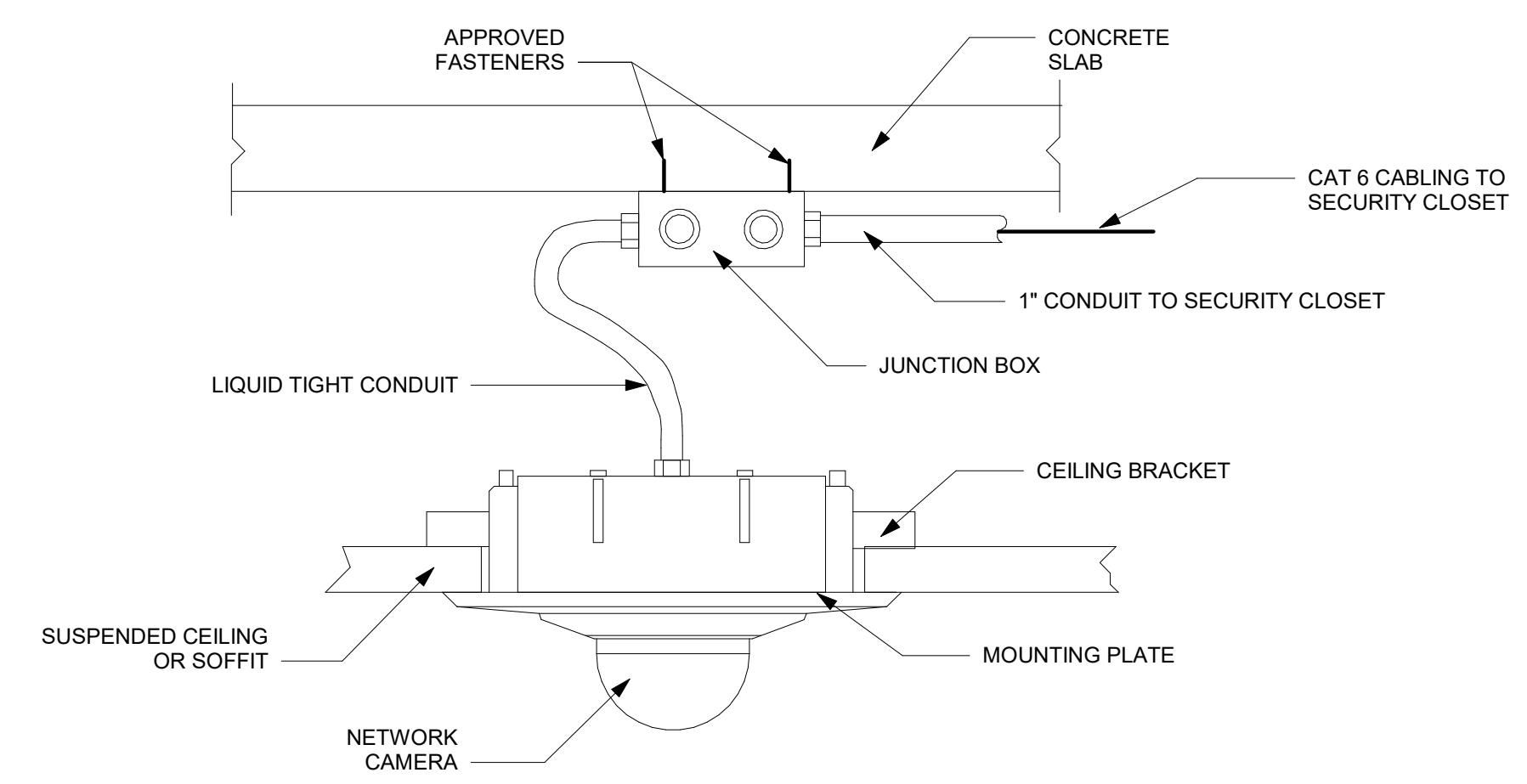
4 EXISTING PANEL ASSEMBLY  
1" = 1'-0"



6 INTERIOR CAMERA - PENDANT MOUNTED  
12" = 1'-0"

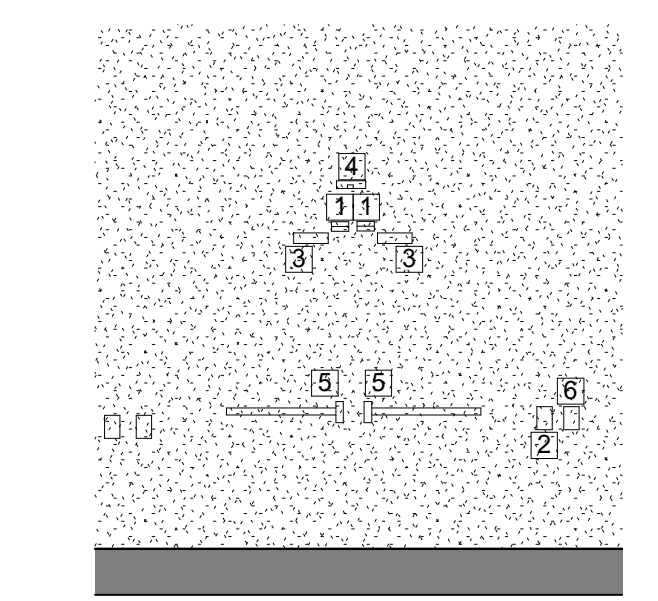


3 MULTI-IMAGER CAMERA - RECESSED CEILING MOUNTED  
12" = 1'-0"

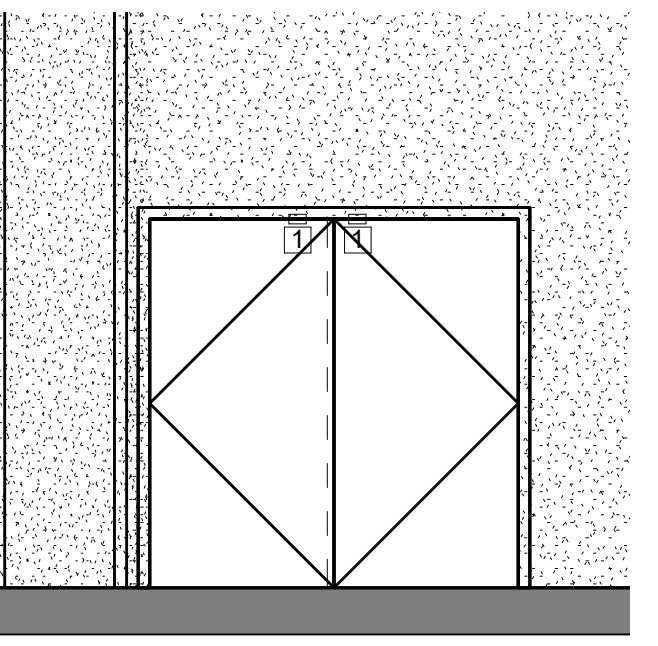


5 INTERIOR CAMERA - CEILING MOUNTED  
12" = 1'-0"

1 DOOR DETAIL - DOOR 2 - DOUBLE DOOR WITH CARD READER WITH DELAYED EGRESS LOCKS  
1 : 50



2 DOOR DETAIL - DOORS 3 & 5 - DOUBLE DOOR WITH MAGNETIC CONTACTS ONLY  
1 : 50



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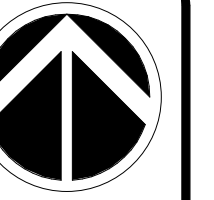
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## GUNBOAT PHILADELPHIA TEMP. CONSERVATION

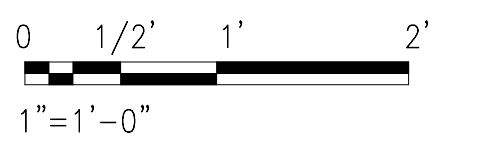
**SPACE NOT FOR CONSTRUCTION**

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washington, d.c. 20003

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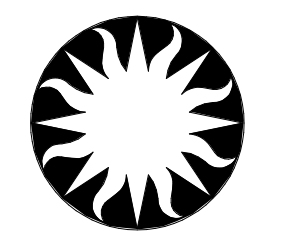


KEY PLAN



GRAPHIC SCALE(S)

DATE	SUBMISSION
07/12/24	FINAL SUBMISSION
REVISION DATE	REVISION DESCRIPTION



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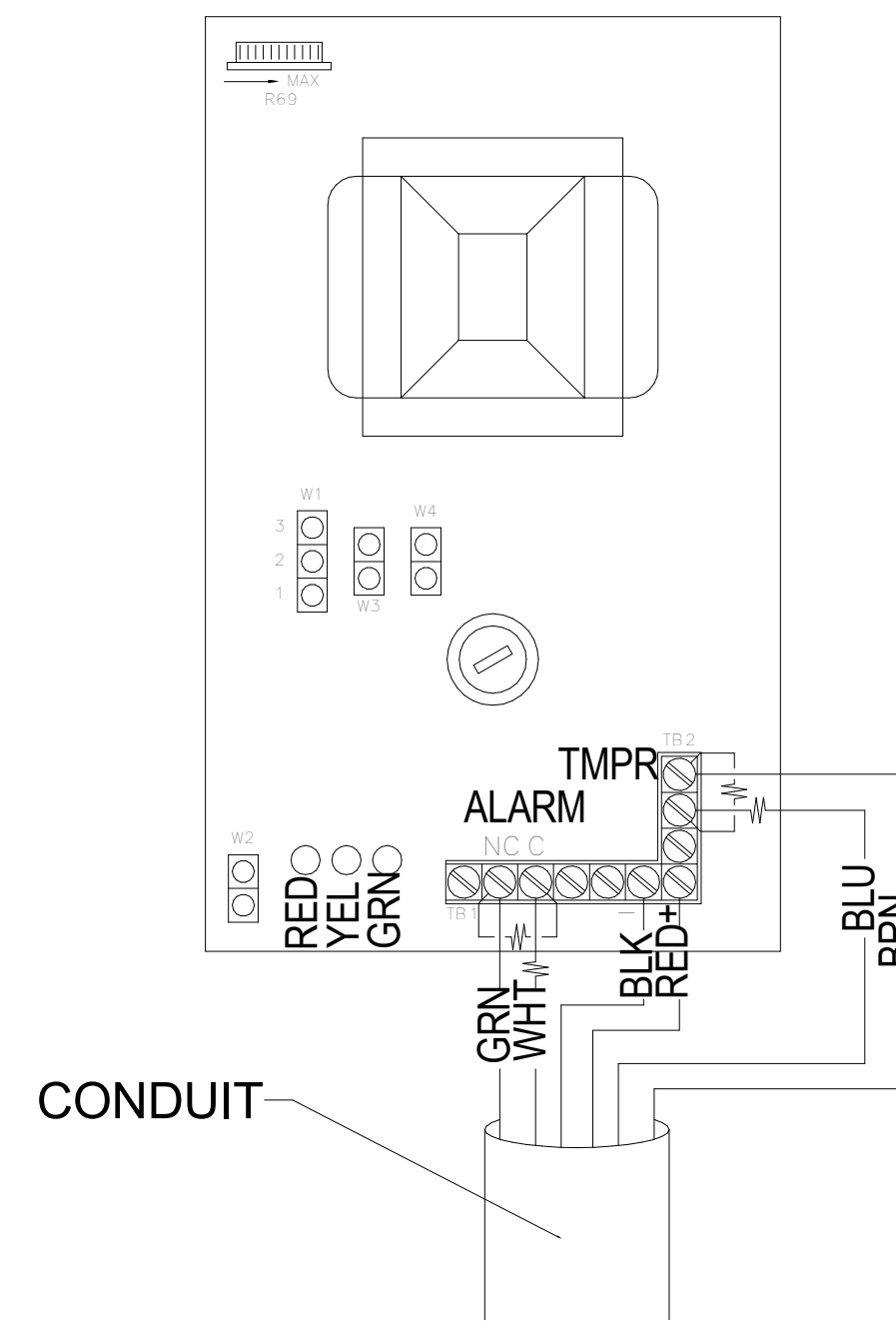
BUILDING NAME	NMAH
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE
OPRO PROJECT NUMBER	2003106
AE PROJECT NUMBER	1401.35

DRAWING TITLE	SECURITY DETAILS
WORKING STAFF	MAH      FK      MMH DESIGNED BY      DRAWN BY      CHECKED BY

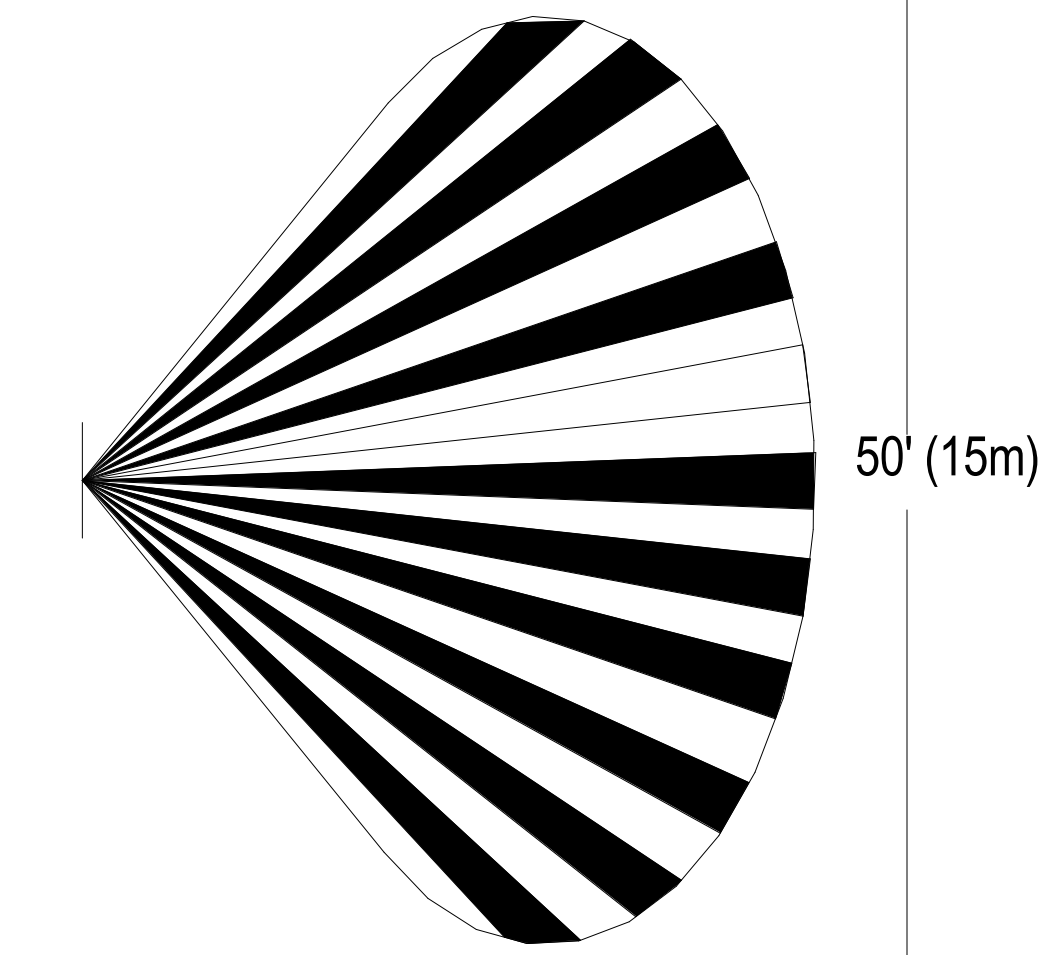
SHEET NO.	TY502DT
40 of 41	DISCIPLINE      TYPE      SEQUENCE      DRAWING TYPE

**DETAIL NOTES:**

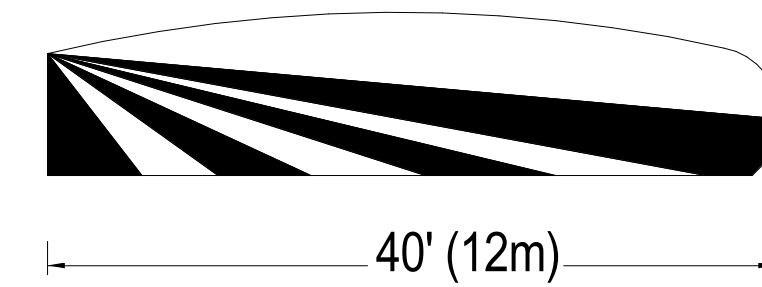
- ALL RESISTOR OHM (W) VALUES ARE PER MANUFACTURERS SPECIFICATIONS.
- ALL RESISTOR'S WILL BE ENCLOSED WITH CLEAR HEAT SHRINK TO PROTECT FROM SHORTING.
- LEAVE JUMPERS AT FACTORY SETTINGS UNLESS NOTED OR DIRECTED OTHERWISE.



WIRING DETAIL



TOP VIEW



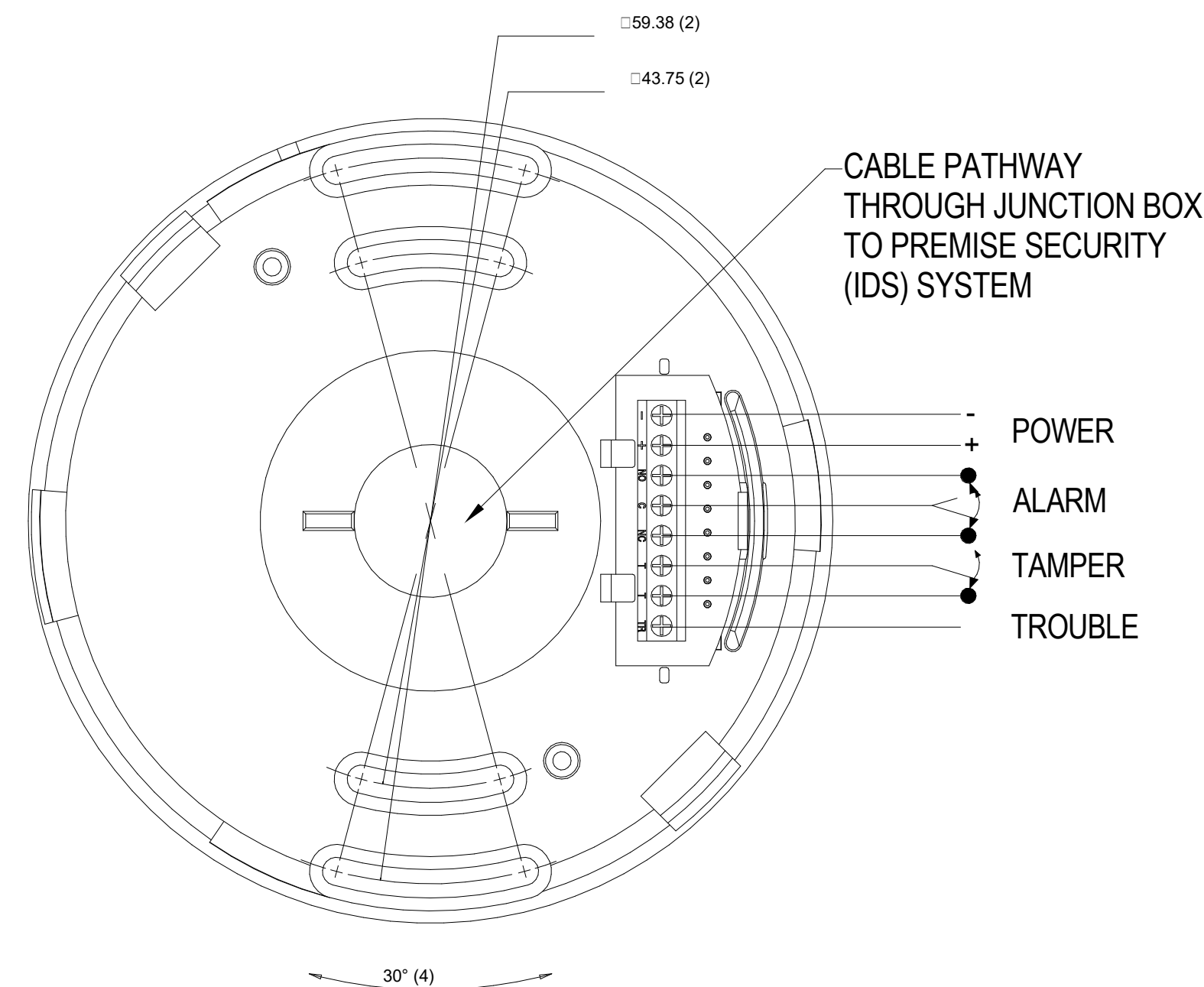
SIDE VIEW

DETECTION PATTERN

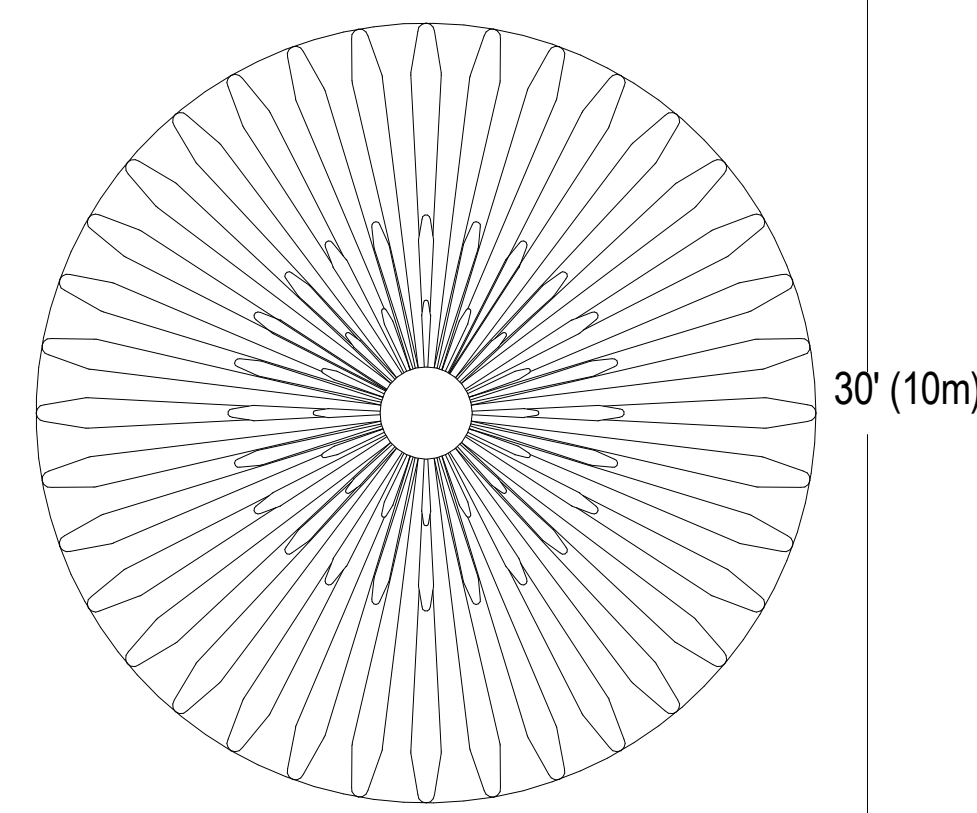
1 SENSOR DETAIL - 90 DEGREE MOTION SENSOR  
1" = 1'-0"

**DETAIL NOTES:**

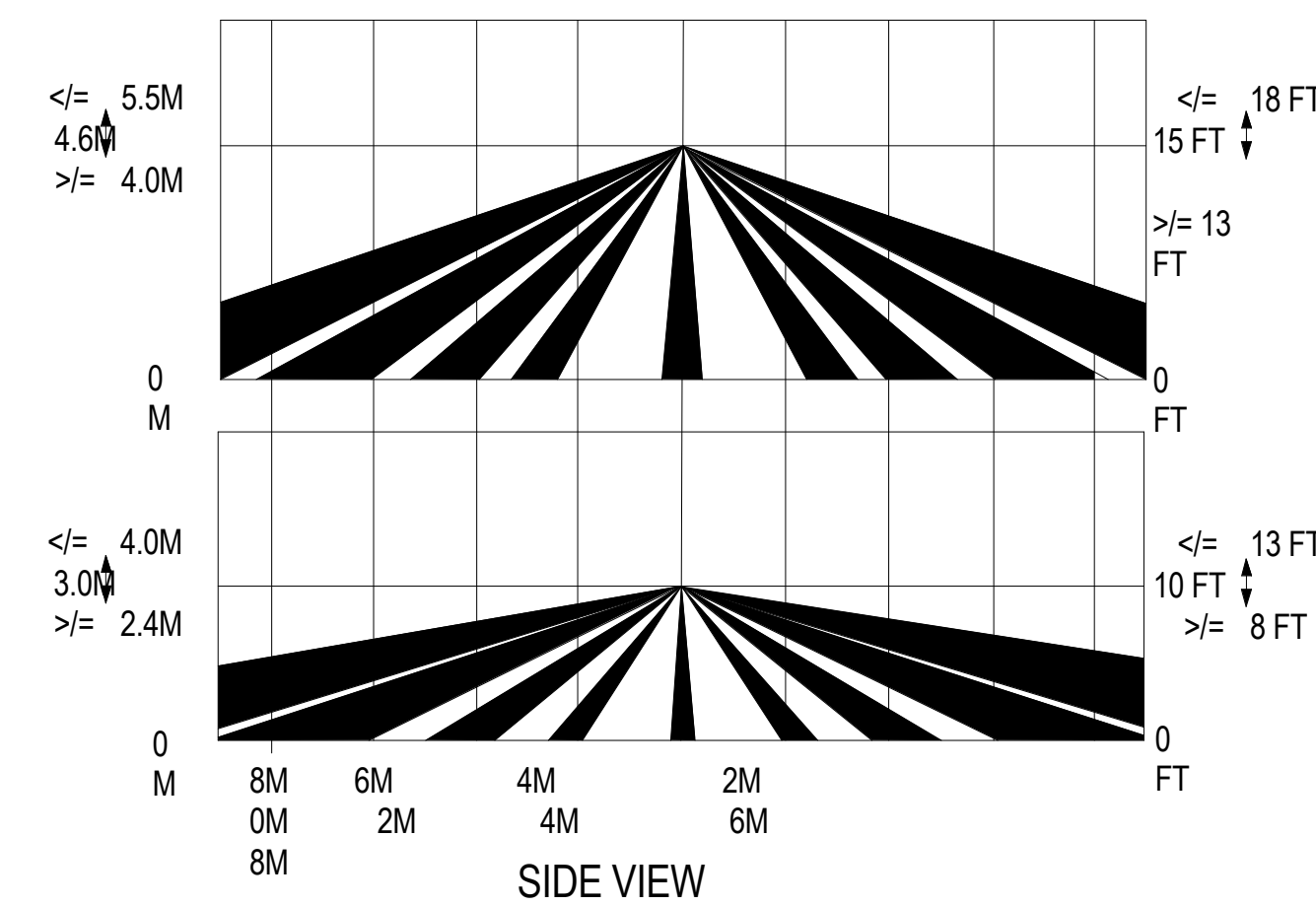
- ALL RESISTOR OHM (W) VALUES ARE PER MANUFACTURERS SPECIFICATIONS.
- ALL RESISTOR'S WILL BE ENCLOSED WITH CLEAR HEAT SHRINK TO PROTECT FROM SHORTING.
- LEAVE JUMPERS AT FACTORY SETTINGS UNLESS NOTED OR DIRECTED OTHERWISE.



WIRING DETAIL



TOP VIEW



SIDE VIEW

DETECTION PATTERN

2 SENSOR DETAIL - 360 DEGREE MOTION SENSOR  
1" = 1'-0"



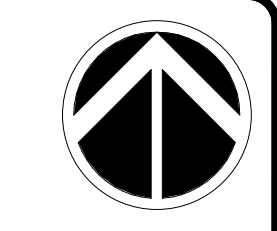
# NMAH

## GUNBOAT PHILADELPHIA TEMP. CONSERVATION

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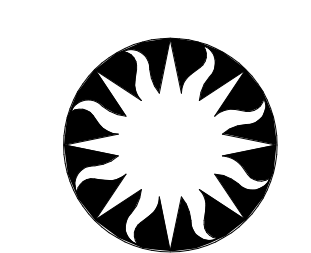
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KEY PLAN

GRAPHIC SCALE(S)

DATE	SUBMISSION
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REVISION DATE	REVISION DESCRIPTION



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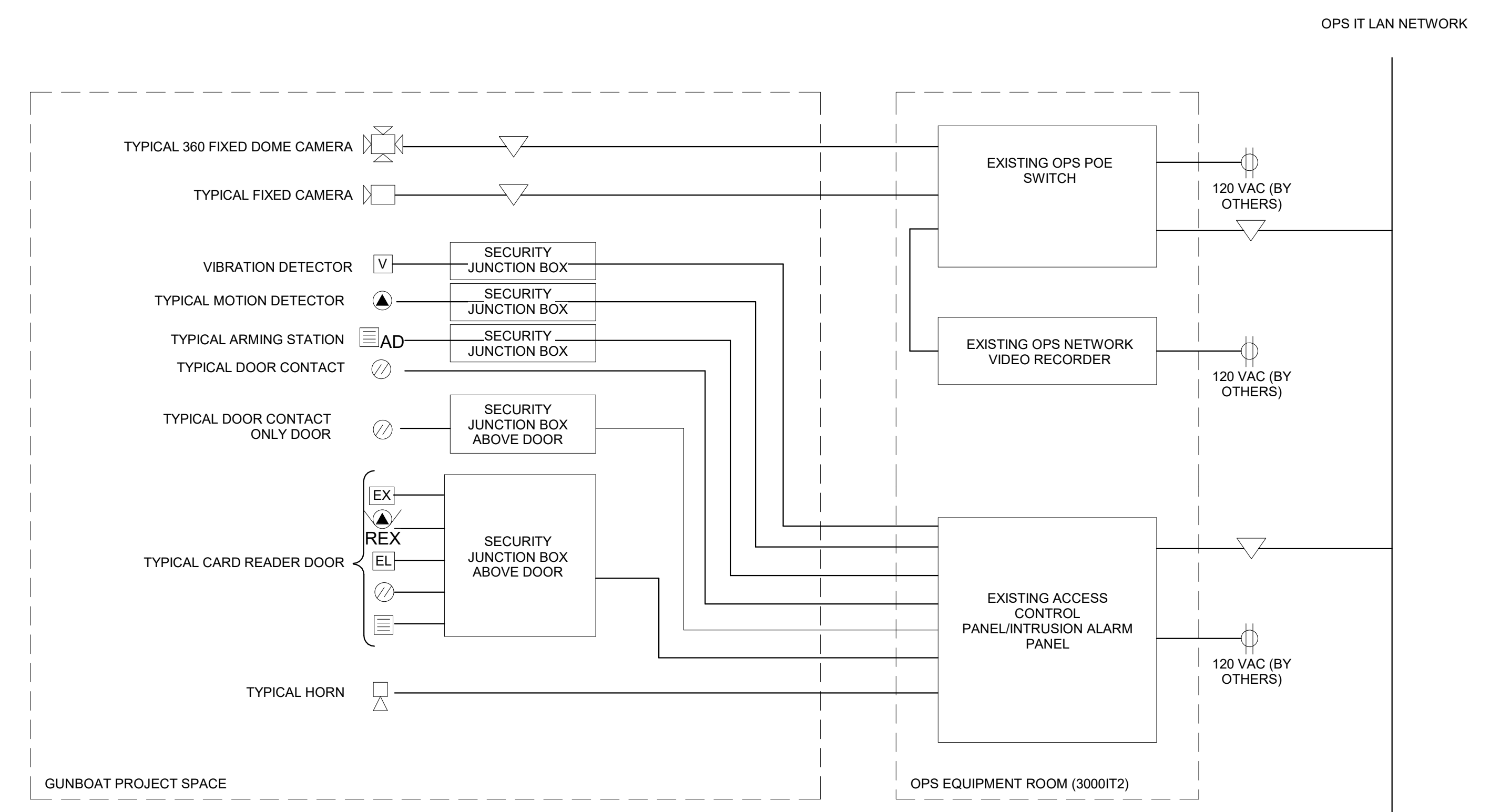
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BUILDING NAME	NMAH						
ADDRESS	1300 CONSTITUTION AVE NW WASHINGTON, DC 20560						
PROJECT TITLE	GUNBOAT PHILADELPHIA TEMP. CONSERVATION SPACE						
OPRO PROJECT NUMBER	2003106						
A/E PROJECT NUMBER	1401.35						
DRAWING TITLE	SECURITY ONELINE DIAGRAM						
WORKING STAFF	<table border="1"> <tr> <td>MAH</td> <td>FK</td> <td>MMH</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	MAH	FK	MMH	DESIGNED BY	DRAWN BY	CHECKED BY
MAH	FK	MMH					
DESIGNED BY	DRAWN BY	CHECKED BY					

SHEET NO.	TY 601
41 of 41	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

### SHEET NOTES

1. SYSTEM ONELINE IS DIAGRAMATIC IN NATURE SHOWING DESIGN INTENT. REFER TO FLOOR PLAN, DATASHEETS AND SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS.



1 RISER DIAGRAM - SECURITY  
1" = 1'-0"

LEVEL 1