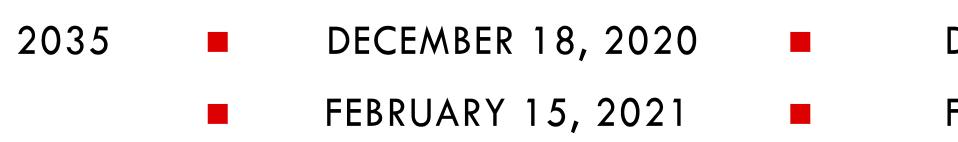
Additional Electrical Drawings: IFB # 600 - 08-23 Direct Opportunities Center Rehabilitation - AMp - 39

# **PROPERTY REHABILITATION FOR:** HACP TASK ORDERS #35 and #41 DEVELOPMENT & OPPORTUNITIES CENTER

1205 LIVERPOOL STREET, BUILDING #35 ALLEGHENY COUNTY PITTSBURGH, PENNSYLVANIA 15233



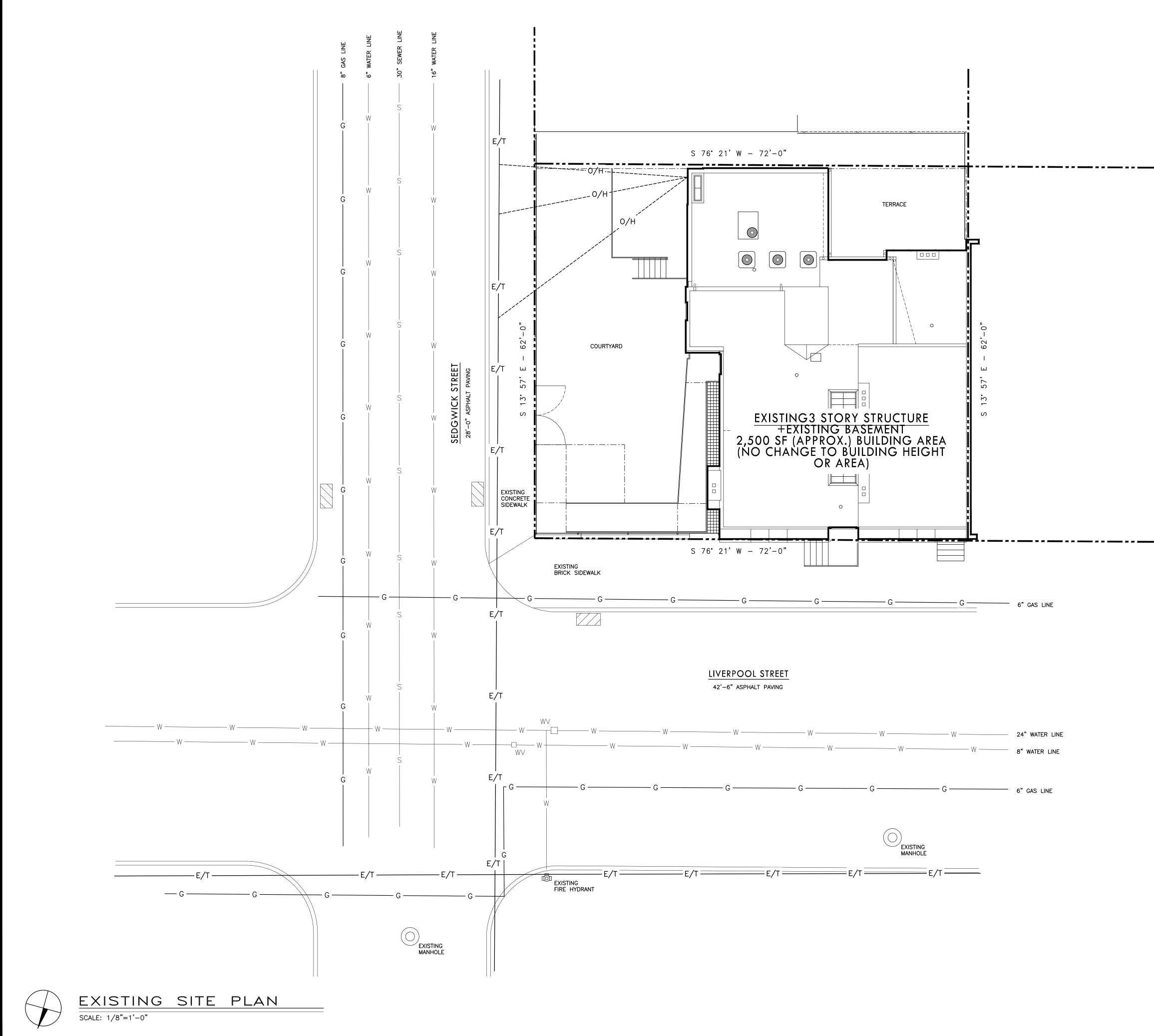




410 FT. PITT COMMONS, 445 FT. PITT BLVD. PITTSBURGH, PENNSYLVANIA 15219-1333 PHONE: 412-566-1531 FAX: 412-566-1532

DESIGN DEVELOPMENT SUBMISSION - FOR HACP REVIEW FOR CONSTRUCTION

DRAV NO.	VING LIST DRAWING NAME	CURRENT
ARCHITE AC-101	ECTURAL SITE PLAN	02/15/21
G-001 G-002	GENERAL NOTES CODE SUMMARY	02/15/21
D-100 D-101 D-102	BASEMENT DEMOLITION PLAN FIRST FLOOR DEMOLITION PLAN SECOND & THIRD FLOOR DEMOLITION PLAN	02/15/21 02/15/21 02/15/21
A-100 A-101	BASEMENT FLOOR PLAN FIRST FLOOR PLAN	02/15/21
A-102 A-103	SECOND & THIRD FLOOR PLAN ROOF PLAN PLAN	02/15/21 02/15/21
A-201 A-202 A-203	NORTH ELEVATION EAST ELEVATION SOUTH ELEVATION	02/15/21 02/15/21 02/15/21
A-301 A-302	BUILDING SECTIONS BUILDING SECTIONS	02/15/21
A-400 A-401 A-402	BASEMENT REFLECTED CEILING PLAN FIRST FLOOR REFLECTED CEILING PLAN SECOND AND THIRD FLOOR REFLECTED CEILING PLANS	02/15/21 02/15/21 02/15/21
A-402 A-602	FINISH SCHEDULE	02/15/21
STRUCT S-101	URAL PARTIAL FIRST FLOOR FRAMING PLAN	02/15/21
MECHAN M-001 M-100	NICAL MECHANICAL DATA SHEET BASEMENT MECHANICAL DEMOLITION PLAN	02/15/21
M-101 M-102	FIRST FLOOR MECHANICAL DEMOLITION PLAN SECOND FLOOR MECHANICAL DEMOLITION PLAN	02/15/21 02/15/21
M-103 M-200 M-201	THIRD FLOOR MECHANICAL DEMOLITION PLAN BASEMENT MECHANICAL PLAN FIRST FLOOR MECHANICAL PLAN	02/15/21 02/15/21 02/15/21
M-202 M-203	SECOND FLOOR MECHANICAL PLAN THIRD FLOOR MECHANICAL PLAN	02/15/21 02/15/21
M-204 M-205 M-301	ROOF MECHANICAL PLAN SITE MECHANICAL PLAN MECHANICAL DETAILS	02/15/21 02/15/21 02/15/21
M-302 M-303	MECHANICAL DETAILS MECHANICAL DETAILS	02/15/21 02/15/21
M-401 M-402	MECHANICAL SCHEDULES MECHANICAL SCHEDULES	02/15/21 02/15/21
PLUMBIN P-001 P-100	NG PLUMBING DATA SHEET BASEMENT PLUMBING DEMOLITION PLAN	02/15/21
P-101 P-102	FIRST FLOOR PLUMBING DEMOLITION PLAN SECOND FLOOR PLUMBING DEMOLITION PLAN	02/15/21 02/15/21
P-200 P-201 P-202	BASEMENT PLUMBING PLAN FIRST FLOOR PLUMBING PLAN SECOND FLOOR PLUMBING PLAN	02/15/21 02/15/21 02/15/21
P-203	THIRD FLOOR PLUMBING PLAN	
ELECTRI E-001 E-100	ELECTRICAL DATA SHEET BASEMENT ELECTRICAL DEMOLITION PLAN	02/15/21
E-101 E-102 E-103	FIRST FLOOR ELECTRICAL DEMOLITION PLAN SECOND FLOOR ELECTRICAL DEMOLITION PLAN	02/15/21 02/15/21 02/15/21
E-200 E-201	THIRD FLOOR ELECTRICAL DEMOLITION PLAN BASEMENT LIGHTING PLAN FIRST FLOOR LIGHTING PLAN	02/15/21 02/15/21
E-202 E-203 E-300	SECOND FLOOR LIGHTING PLAN THIRD FLOOR LIGHTING PLAN BASEMENT POWER PLAN	02/15/21 02/15/21 02/15/21
E-301 E-302	FIRST FLOOR POWER PLAN SECOND FLOOR POWER PLAN	02/15/21 02/15/21
E-303 E-400 E-401	THIRD FLOOR POWER PLAN BASEMENT FIRE ALARM PLAN FIRST FLOOR FIRE ALARM PLAN	02/15/21 02/15/21 02/15/21
E-402 E-403	SECOND FLOOR FIRE ALARM PLAN THIRD FLOOR FIRE ALARM PLAN	02/15/21 02/15/21
E-501 E-601 E-701	ELECTRICAL DETAILS FIRE ALARM RISER DIAGRAM ELECTRICAL SCHEDULES	02/15/21 02/15/21 02/15/21
		1
SIT	E LOCATION MAP	ien,
Atlas C Metal Proc	Lucts Callfornia Ave Sunday St St Morrison St Propel Schools St Northside St Nort	Perrysville Ave
Branchport St	Nixon St Concerned States S	B W Jefferson St
mer Center ♀	Garden	Garfield Ave Garfield Ave S Monterey S
g Center 🝳 💊	Columbus Ave s Lake St Lake St Commonplace Common Pomplace	offee 😜 👘 🝙
	Haro Junian Manchester Academic STIE LOCATION	alero Gas Station N Taylor Ave Nonteret Drover
ind Coffee prarily closed	and V Appliance Parts	Droversy St Droversy St Allegheny YMCA Q
All Sta	Worldwide	Bright
Industrial Athleti	Pennsylvania Ave S sheffield St 2 Hamilin St Hamilin St Hamil	ppe Wey
- CrossFit Allo	ts ↔ WNAVE (6) + Feullsey Way (1) Feullsey Way	In Coffee LLC 4 Ohio
	Biomat USA V NLincoln Ave	Electric Supply
Offic River	Cardello Building Cardello Building:Main + Ridge Ave	Laguert Way
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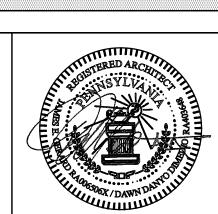
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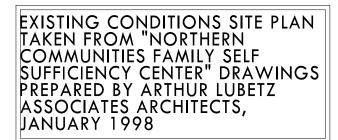
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB





## ARCHITECTURAL SYMBOL LEGEND

DRAWING SYMBOLS

SECTION/DETAIL NUMBER

SCHEDULES

WINDOW TYPE

ARTITION TYPE

ROOM NUMBERS REFERENCED ON SCHEDULES

DOOR NUMBERS REFERENCED ON

XAX /

XXX

 $\begin{pmatrix} X \\ 1 \end{pmatrix}$ 

 $\langle x \rangle$ 

H.B.

H.C.

HOR

HVAC

INSUL

L&I

LAV

M.C

м.н.

м.о.

MTD

MTL

N.T.S.

NIC

0/A

OPG

P.C.

P.LAM

PL

PMB

PNL PSF

PSI

PTN PVC

R.D.

R.O.

REQ'D

S.C.

S.I.

S.O.G.

S.S.

S.Y.

SF

SIM

SQ

STD

STL

т/

TWF

TYP

UNO

VCT

VERT

VWC

W/

W/0

WC

WWF

0.F.I.C.

0.F.I.

N.I.C.

NOT IN CONTRACT

IBC

#### **MATERIALS**

<u> MHA</u> CONCRETE MASONRY REINFORCED CONCRETE MASONRY CONCRETE BRICK CAST STONE

- EXISTING CONSTRUCTION TO REMAIN EXISTING CONSTRUCTION TO BE DEMOLISHED METAL STUD CONSTRUCTION FIRE RATED METAL STUD CONSTRUCTION GYPSUM BOARD
- BATT INSULATION RIGID INSULATION STEEL
- ALUMINUM GLASS

= = =

\*\*\*\*\*\*

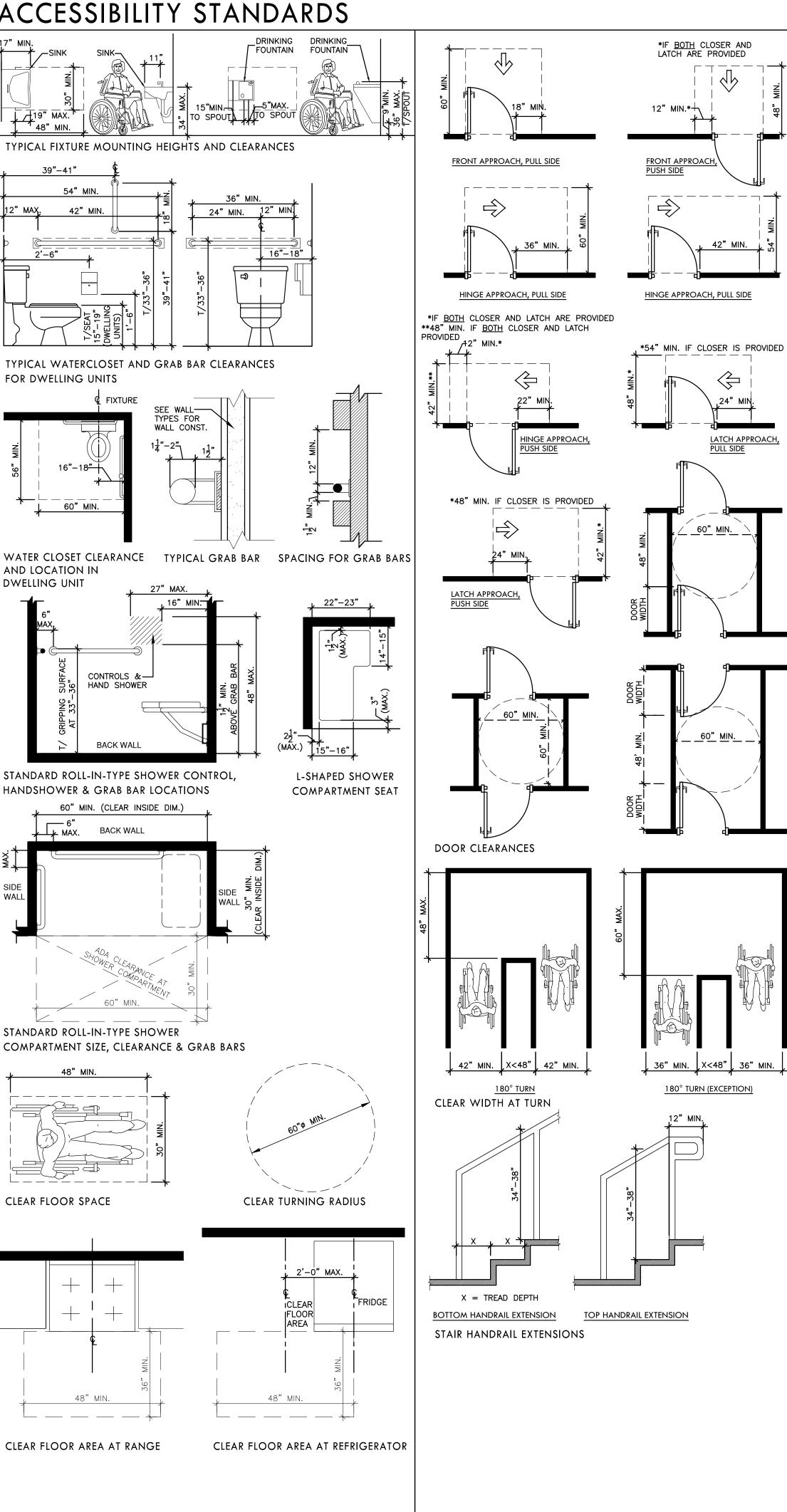
077 FINISHED WOOD  $\geq$ ROUGH WOOD SMOKE RATED CONSTRUCTION

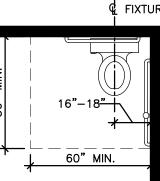
### ABBREVIATIONS

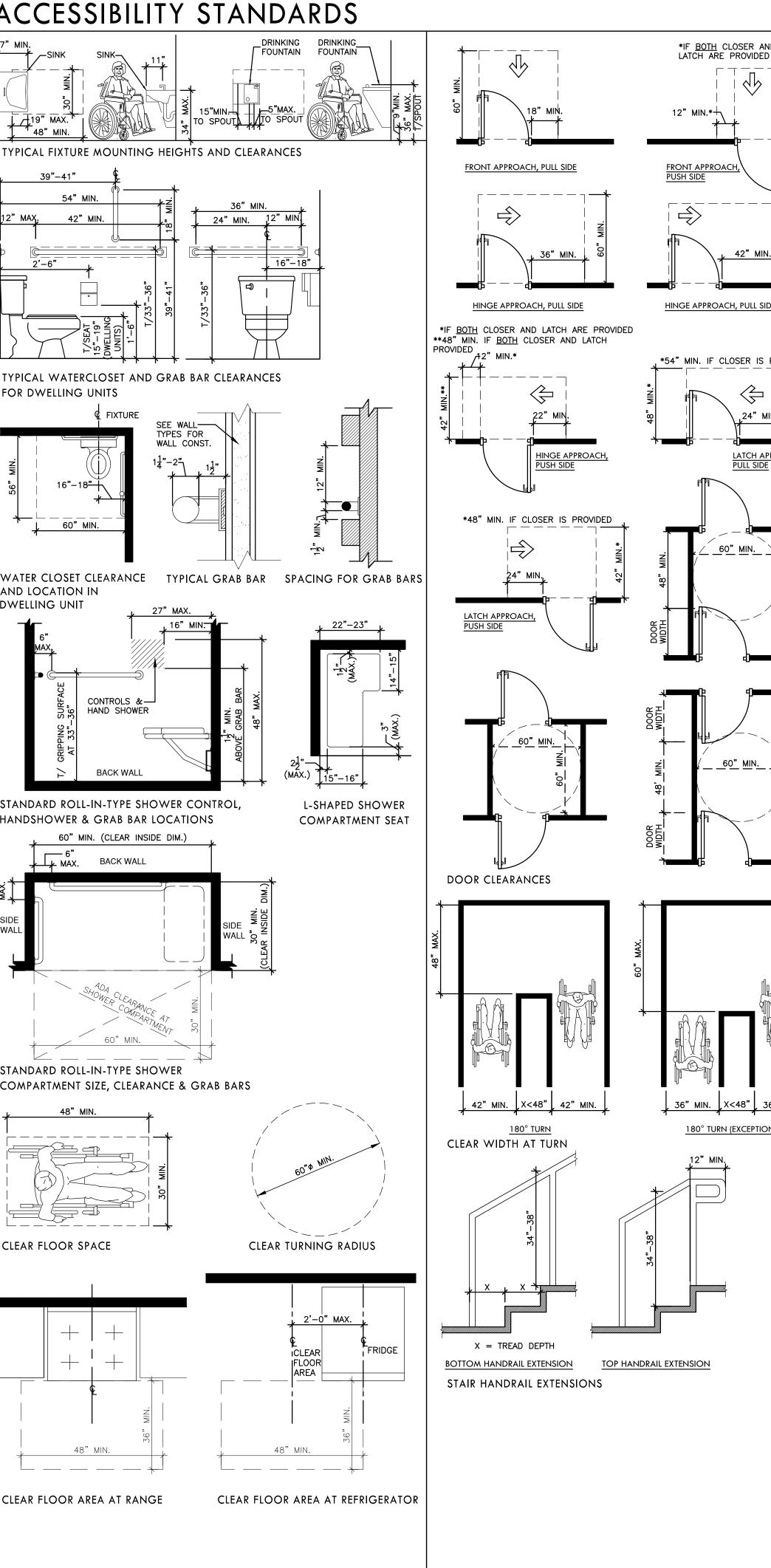
A.C. AQUATIC CONTRACTOR A.F.F. ABOVE FINISHED FLOOR ADD'L ADDITIONAL ADJ ADJACENT ALT ALTERNATE ALUM ALUMINUM APPROX APPROXIMATE AVG AVERAGE BUILDING LINE B.L. В.М. BENCH MARK B.O.C.A. BUILDING OFFICIALS AND CODE ADMINISTRATORS В/ BOTTOM OF BITUM BITUMINOUS BLDG BUILDING BLK'G BLOCKING BSM'T BASEMENT С.В. CATCH BASIN CENTER LINE C.O. CLEAN OUT CER. CERAMIC CJ CONTROL JOINT CLG CEILING CONCRETE MASONRY UNIT CMU COL COLUMN CONC CONCRETE CONT CONTINUOUS CRS COURSE CUH CABINET UNIT HEATER D.L.O. DAY LIGHT OPENING D.S. DOWN SPOUT DWG'S DRAWINGS ELECTRICAL CONTRACTOR E.C. EA EACH EIFS EXTERIOR INSULATION FINISHING SYSTEM EJ EXPANSION JOINT ELEC ELECTRIC ELEV ELEVATION EPDM ETHYLENE PROPYLENE DIENE MONOMER EQ EQUAL EWC ELECTRICAL WATER COOLER F.E. FIRE EXTINGUISHER F.E.C. FIRE EXTINGUISHER CABINET F.F. FINISHED FLOOR FIRE PROTECTION CONTRACTOR F.P.C. FD FLOOR DRAIN FDN FOUNDATION FLR FLOOR FROSTPROOF HOSE BIB FPHB FIRE RETARDANT TREATED WOOD FRTW FTG FOOTING G.C. GENERAL CONTRACTOR GA GAUGE GWB GYPSUM WALL BOARD PAPER TOWEL DISPENSER PTD SOAP DISPENSER SD

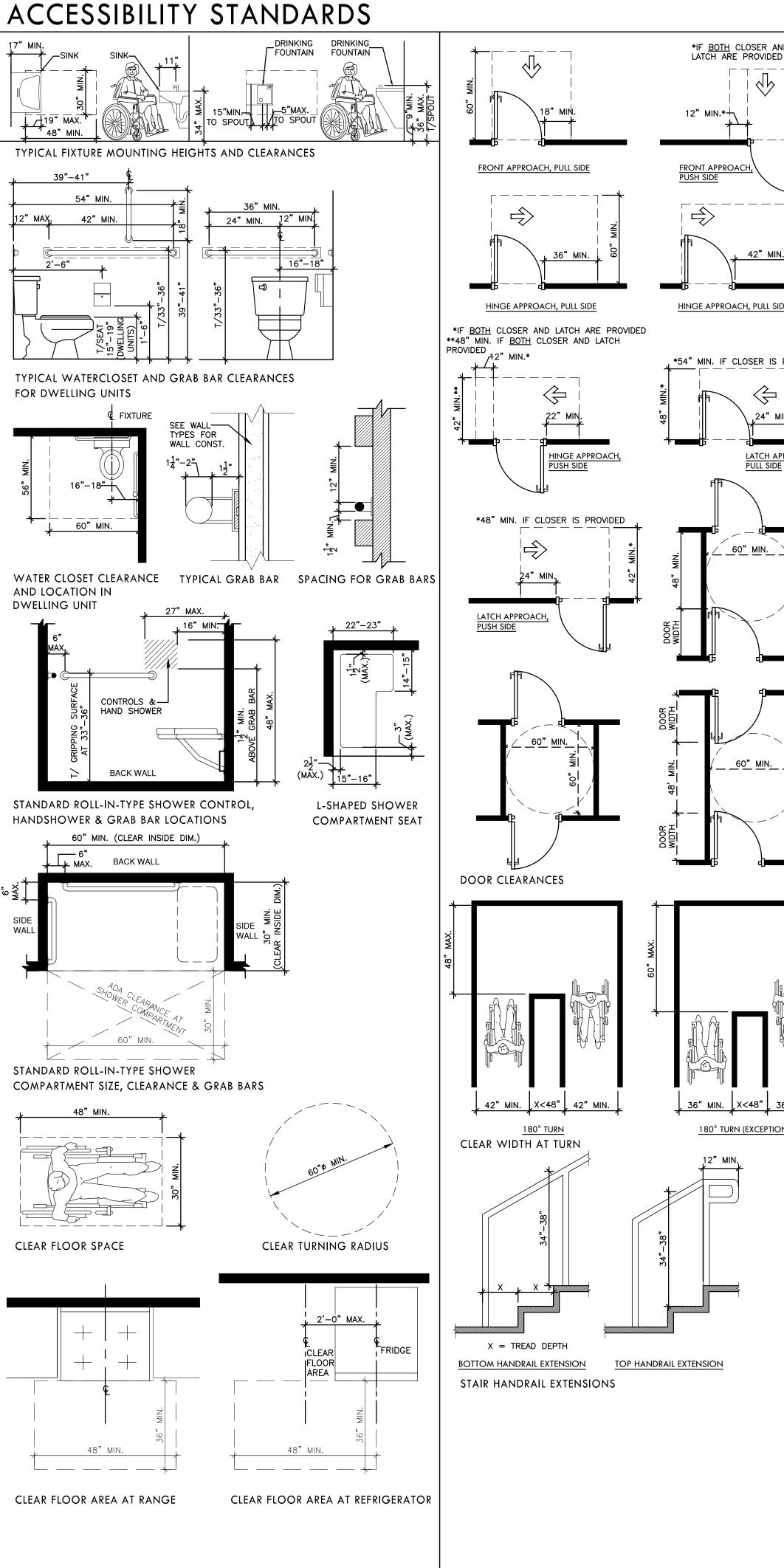
HOSE BIB
HEATING CONTRACTOR
HORIZONTAL
HEATING/VENTILATION/AIR CONDITIONING
INTERNATIONAL BUILDING CODE
INSULATION
INVERT
JOINT
PA DEPARTMENT OF LABOR AND INDUSTRY
MECHANICAL CONTRACTOR
MANHOLE
MOUNTED
METAL
NOT TO SCALE
NOT IN CONTRACT
ON CENTER
OVERALL
OPENING
PLASTIC LAMINATE
PLATE
PRE-ENGINEERED METAL BUILDING
PANEL
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE INCH
PARTITION
POLY VINYL CHLORIDE
ROOF DRAIN
ROUGH OPENING
REQUIRED
SECURITY CONTRACTOR
SQUARE INCH
SLAB ON GRADE
STAINLESS STEEL
SQUARE YARD
SQUARE FEET
SIMILAR
SQUARE
STANDARD
STEEL
TOP OF
TOWNSHIP
TYPICAL
UNLESS NOTED OTHERWISE
VINYL COMPOSITION TILE
VERTICAL
VINYL WALL COVERING
WITH
WITH OUT
WATER CLOSET
WELDED WIRE FABRIC
OWNER FURNISHED, INSTALLED
BY CONTRACTOR
OWNER FURNISHED AND INSTALLED
NOT IN CONTRACT

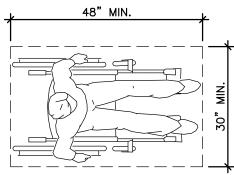
-SINK MAX. 48" MIN.

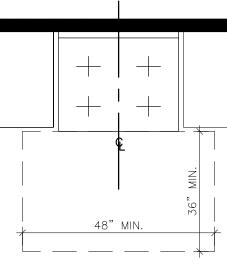




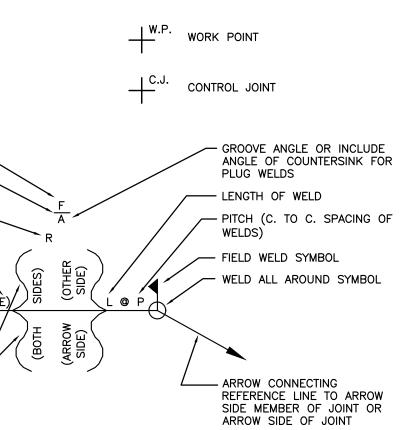








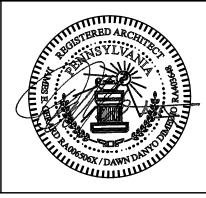
#### STRUCTURAL SYMBOL LEGEND ₩.P. MOMENT CONNECTION \_\_\_\_\_C.J. 3RJ3 BEAM DESIGNATION FINISH SYMBOL -CONTOUR SYMBOL -ROOT OPENING, DEPTH OF FILLING FOR PLUG AND SLOT WELDS -----EFFECTIVE THROAT ----DEPTH OF PREPARATION: SIZE OR STRENGTH FOR SIDE) CERTAIN WELDS -SPECIFICATION, PROCESS LOP OR OTHER REFERENCE ARRC BASIC WELD SYMBOL OR DETAIL REFERENCE



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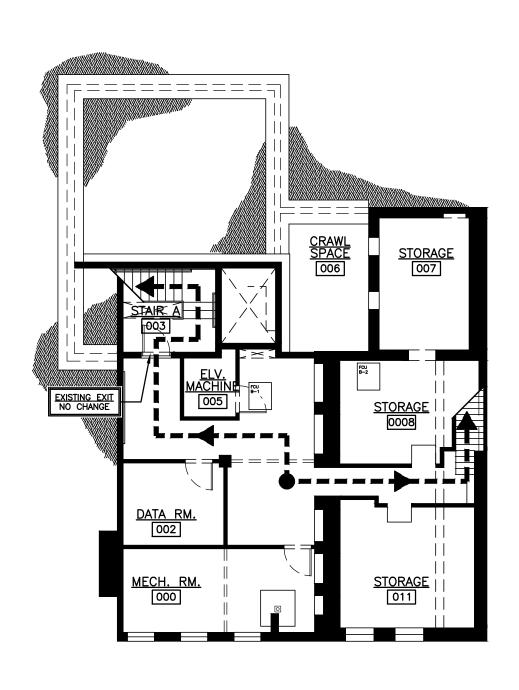
REVISIONS

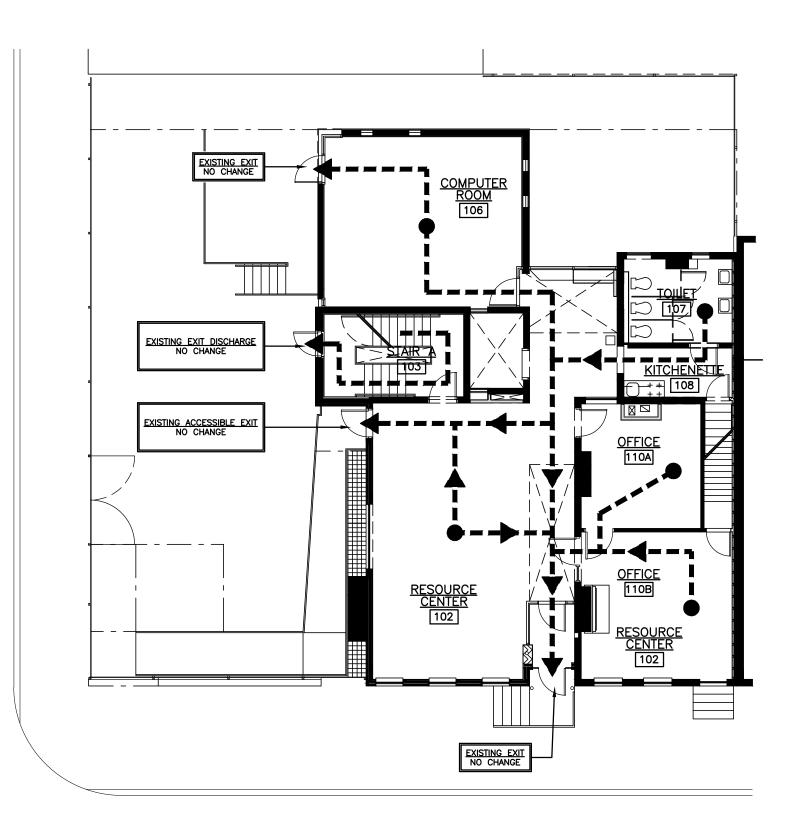


**PROPERTY REHABILITATION FOR:** 

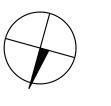
### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER** REHAB

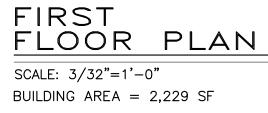




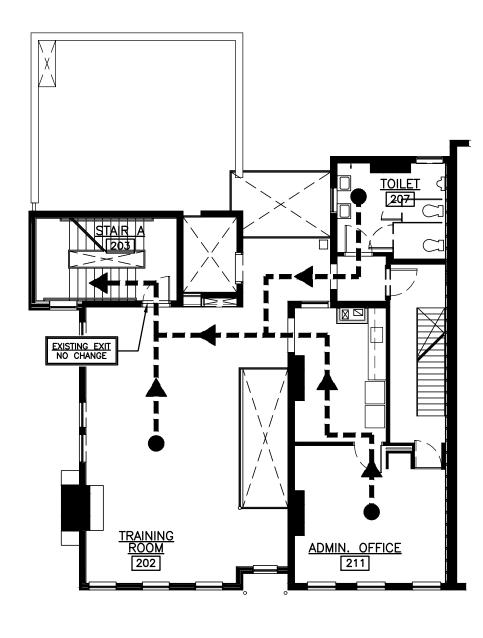


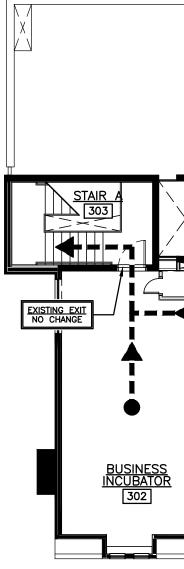






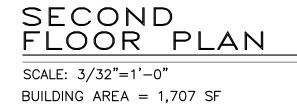
	20
CODE ITEM REFERENCE	BUILDING DESIGN
CHAPTER 5 CLASSIFICATION OF WORK	WORK SHALL BE CLASSIFIED AS REPAIRS (502.1 STRUCTURAL REMEDIATION WORK), ALTERATION LEVEL 1 (503.1 ROOF R (504.1 REPLACEMENT AND EXTENSION OF EXISTING MECHANICAL AND ELECTRICAL SYSTEMS)
CHAPTER 6 REPAIRS-STRUCTURAL REMEDIATION	
602	NEW MATERIALS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THE IBC 2015. EXISTING MATERIALS WHICH CREATI CONDITION SHALL BE REMOVED.
603	THE EXISTING LEVEL OF FIRE PROTECTION SHALL BE MAINTAINED - NO CHANGE.
604	THE EXISTING MEANS OF EGRESS SHALL BE MAINTAINED - NO CHANGE.
605	THE EXISTING LEVEL OF ACCESSIBILITY SHALL BE MAINTAINED - NO CHANGE.
606	NEW STRUCTURAL ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC 2015.
606.2.1	PROPOSED REPAIRS ARE FOR LESS THAN SUBSTANTIAL STRUCTURAL DAMAGE AND SHALL RESTORE THE WORK TO A PRE THE AFFECTED COMPONENTS DO NOT SUPPORT MORE THAN 30% OF THE STRUCTURE'S FLOOR.
607	NO ELECTRICAL REPAIRS ARE PROPOSED.
608	NO MECHANICAL REPAIRS ARE PROPOSED.
609	NO PLUMBING REPAIRS ARE PROPOSED.
CHAPTER 7 ALTERATION – LEVEL 1	
702	ALL NEW WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC, IECC, IMC, AND IPC.
703	THE EXISTING LEVEL OF FIRE PROTECTION SHALL BE MAINTAINED - NO CHANGE.
704	THE EXISTING MEANS OF EGRESS SHALL BE MAINTAINED - NO CHANGE.
705	THE EXISTING LEVEL OF ACCESSIBILITY SHALL BE MAINTAINED - NO CHANGE PROPOSED TO ACCESSIBLE BUILDING ELEME THE BUILDING INCLUDES AN EXISTING ACCESSIBLE ROUTE.
706	ROOF RE-COVERING IS PROPOSED.
706.1	MATERIALS AND METHODS OF APPLICATION FOR "RE-COVERING" THE EXISTING ROOF SHALL COMPLY WITH THE IBC.
706.2	EXISTING STRUCTURAL ROOF COMPONENTS ARE CAPABLE OF SUPPORTING THE NEW ROOF COVERING.
706.3	ROOF RE-COVERING IS PROPOSED.
706.4	NO COMBUSTIBLE, CONCEALED SPACE IS PROPOSED.
706.5	NO REINSTALLATION OF MATERIALS IS PROPOSED.
706.6	NEW FLASHINGS SHALL COMPLY WITH THIS SECTION.
707	NO STRUCTURAL WORK IN ACCORDANCE WITH THIS SECTION IS PROPOSED.
708	NO WORK ALTERING THE ENERGY CONSERVATION OR CONSUMPTION IN ACCORDANCE WITH THIS SECTION IS PROPOSED.















2015 INTERNATIONAL EXISTING BUILDING CODE INFORMATION CODE ITEM REFERENCE BUILDING DESI RE-COVERING), AND ALTERATION LEVEL 2 CHAPTER 8 ALTERATION - LEVEL 2 ALL NEW WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC 2015. 801 ATE AND UNSAFE OR DANGEROUS NO ALTERATION IS PROPOSED TO THE EXISTING OCCUPANCY AND USE. 802 803 BUILDING ELEMENTS/MATERIALS NO ALTERATION TO THE EXISTING BUILDING VERTICAL OPENINGS IS PROPOSED. 803.2 803.3 SMOKE COMPARTMENT CONSTRUCTION DOES NOT COMPLY. NEW INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC 2015. 803.4 RE-DAMAGED CONDITION. NO NEW CONSTRUCTION AFFECTING GUARDS IS PROPOSED. 803.5 NO CHANGE TO EXISTING FIRE RATINGS IS PROPOSED. 803.6 THE EXISTING LEVEL OF FIRE PROTECTION SHALL BE MAINTAINED - NO CHANGE. 804 THE EXISTING MEANS OF EGRESS SHALL BE MAINTAINED - NO CHANGE. 805 THE EXISTING LEVEL OF ACCESSIBILITY SHALL BE MAINTAINED - NO CHANGE PROPOSED 806 THE BUILDING INCLUDES AN EXISTING ACCESSIBLE ROUTE. THE PROPOSED STRUCTURAL REMEDIATION WORK CLASSIFIES AS A REPAIR IN ACCORDANCE 807 NEW ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 70. 808 809 MECHANICAL ALTERED EXISTING SYSTEMS SHALL COMPLY TO PROVIDE MANDATED VENTILATION. MENTS OR AN AREA OF PRIMARY FUNCTION. 809.2 810 PLUMBING WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE IPC. NEW SYSTEMS SHALL COMPLY WITH THE IECC. 811 CHAPTER 15 CONSTRUCTION SAFEGUARDS ALL WORK SHALL COMPLY WITH THE CONSTRUCTION SAFEGUARDS OF THIS CHAPTER.

	FOR C	ONSTR	UCTION
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	ALL DIMENSIONS AND EX THE SITE.		BE CHECKED AND VERIFIED BY THE CONTRACTOR AT
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X / \ / \ / \ / \			
2D OR PLAN 32"=1'-0"			
AREA = 1,488 SF			RED ARCENT
GN	PROPER	Y REHABI	LITATION FOR:
	DEVEL OPPC REHAE	OPMEI PRTUNI 3	TIES CENTER
	BUILDING 7	POOL STREE #35 H, PA 15233	
TO ACCESSIBLE BUILDING ELEMENTS OR AN AREA OF PRIMARY FUNCTION. CE WITH CHAPTER 6.			
	ASSO 410 FT. PI PITTSBURG PHONE: 4	CIATES	<b>A R D</b> <b>ARCHITECTS</b> IS, 445 FT. PITT BLVD. LVANIA 15219-1333 1 FAX: 412-566-1532
		SUM	
	COMM. NO. 2035 ISSUE DATE 02/15/21	revision no.	DWG NO.

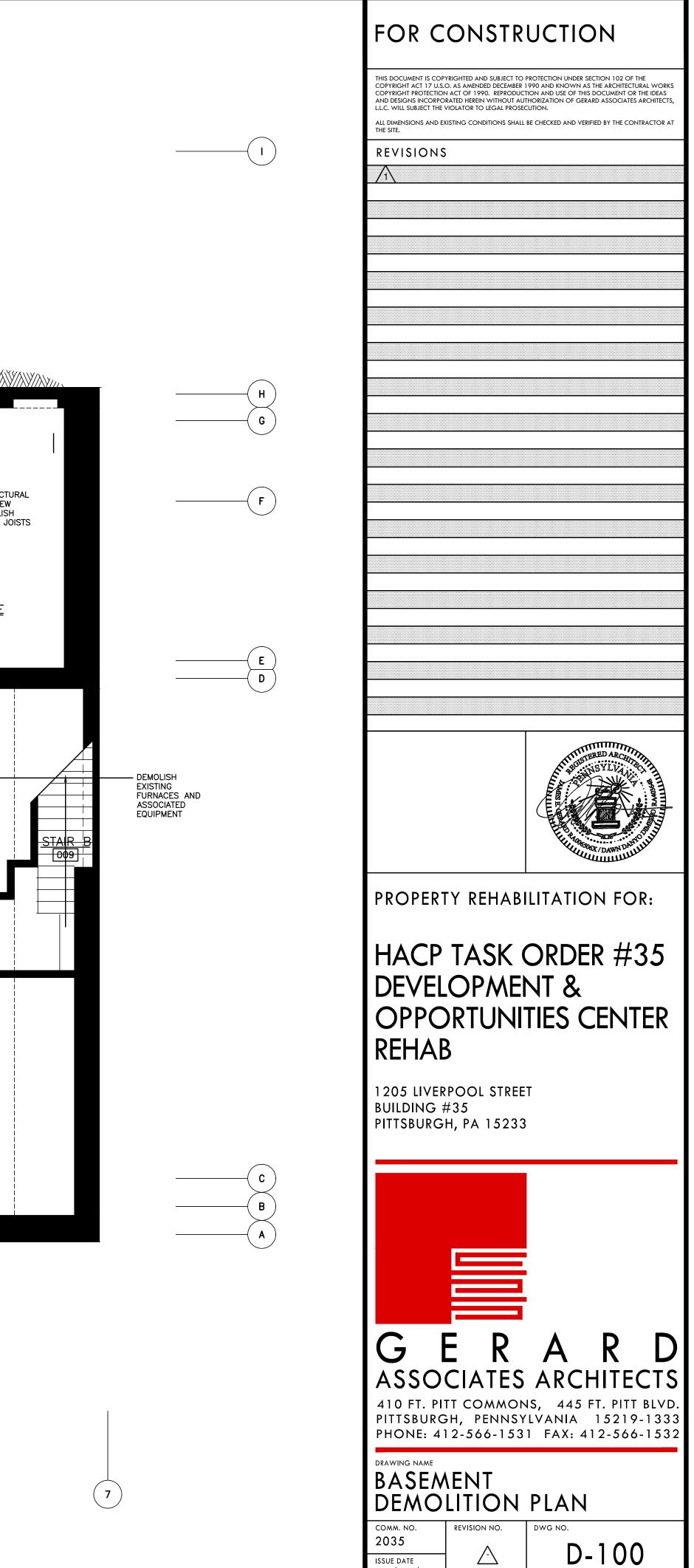


### BASEMENT DEMOLITION PLAN SCALE: 1/4"=1'-0"

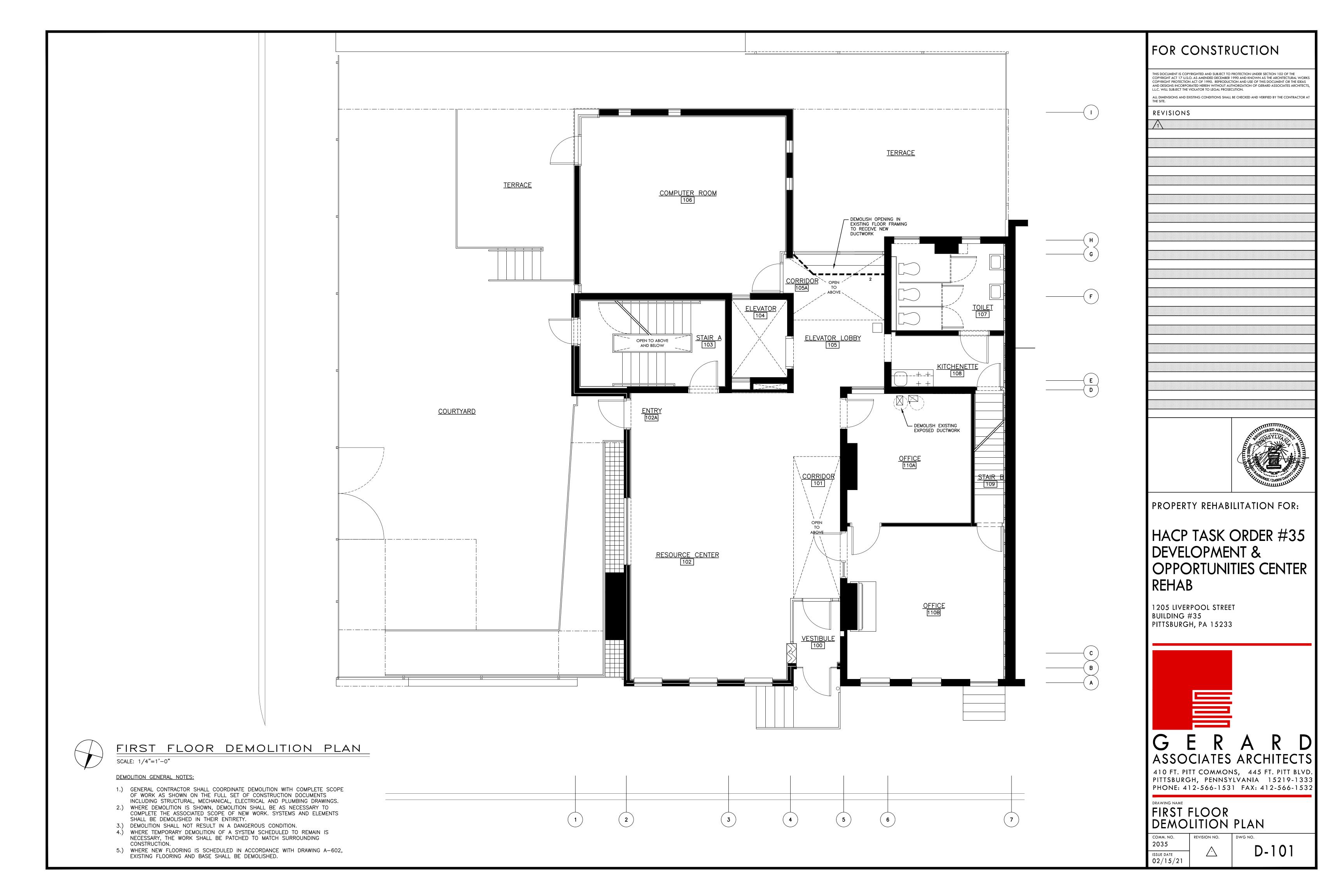
DEMOLITION GENERAL NOTES:

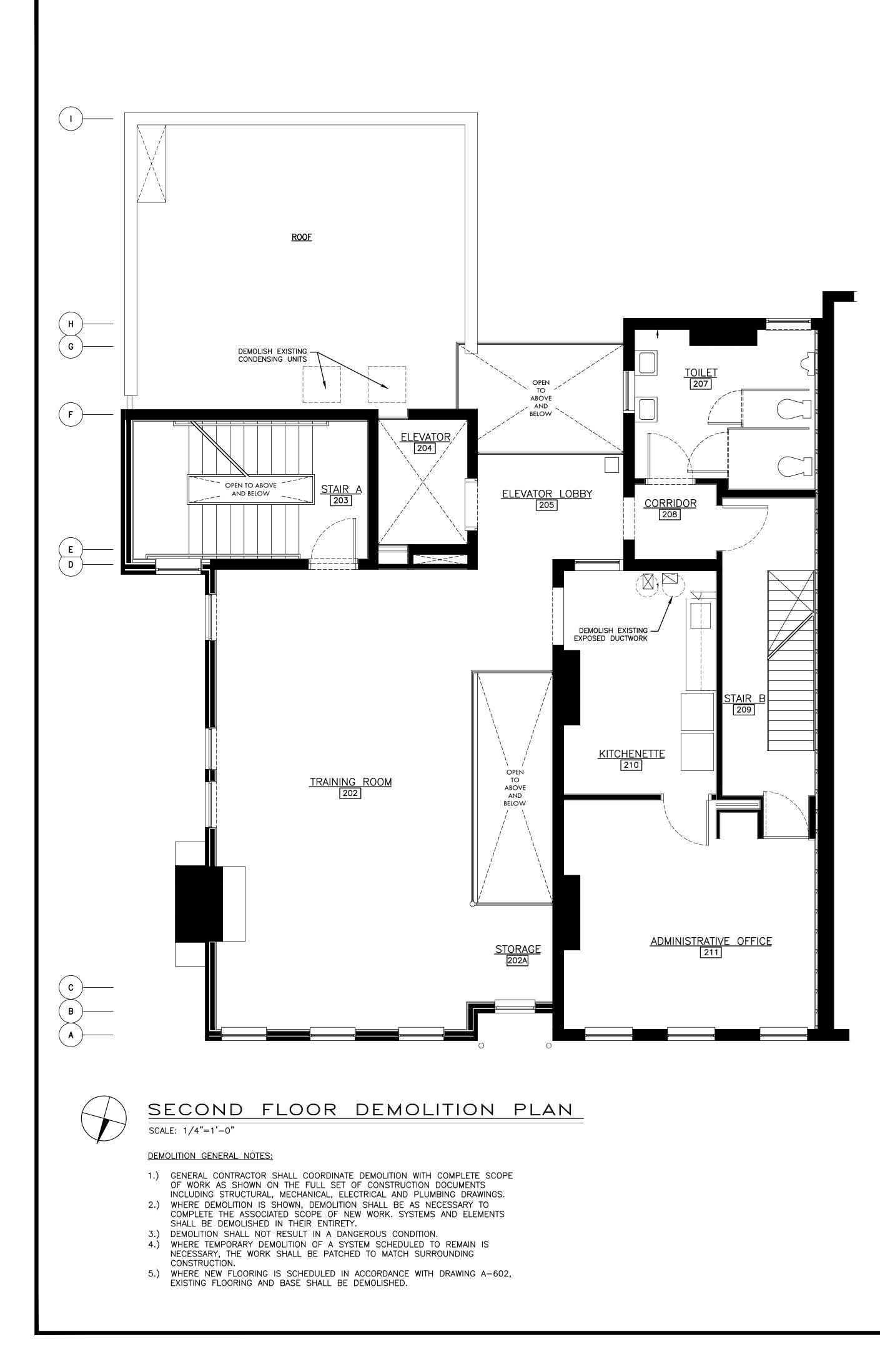
- 1.) GENERAL CONTRACTOR SHALL COORDINATE DEMOLITION WITH COMPLETE SCOPE OF WORK AS SHOWN ON THE FULL SET OF CONSTRUCTION DOCUMENTS
- INCLUDING STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
   WHERE DEMOLITION IS SHOWN, DEMOLITION SHALL BE AS NECESSARY TO COMPLETE THE ASSOCIATED SCOPE OF NEW WORK. SYSTEMS AND ELEMENTS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
- 3.) DEMOLITION SHALL NOT RESULT IN A DANGEROUS CONDITION.
- 4.) WHERE TEMPORARY DEMOLITION OF A SYSTEM SCHEDULED TO REMAIN IS NECESSARY, THE WORK SHALL BE PATCHED TO MATCH SURROUNDING CONSTRUCTION.
- 5.) WHERE NEW FLOORING IS SCHEDULED IN ACCORDANCE WITH DRAWING A-602, EXISTING FLOORING AND BASE SHALL BE DEMOLISHED.

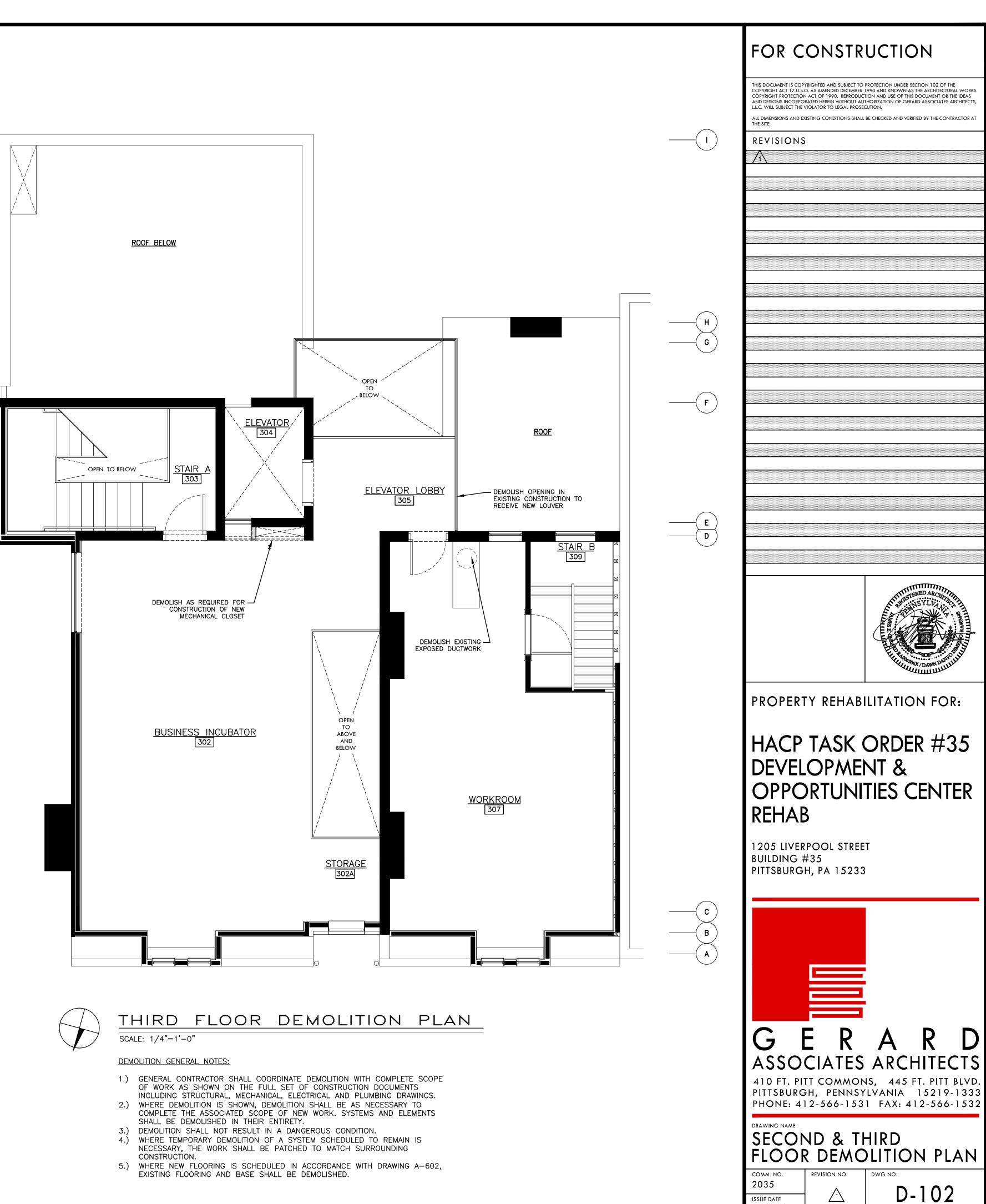




02/15/21

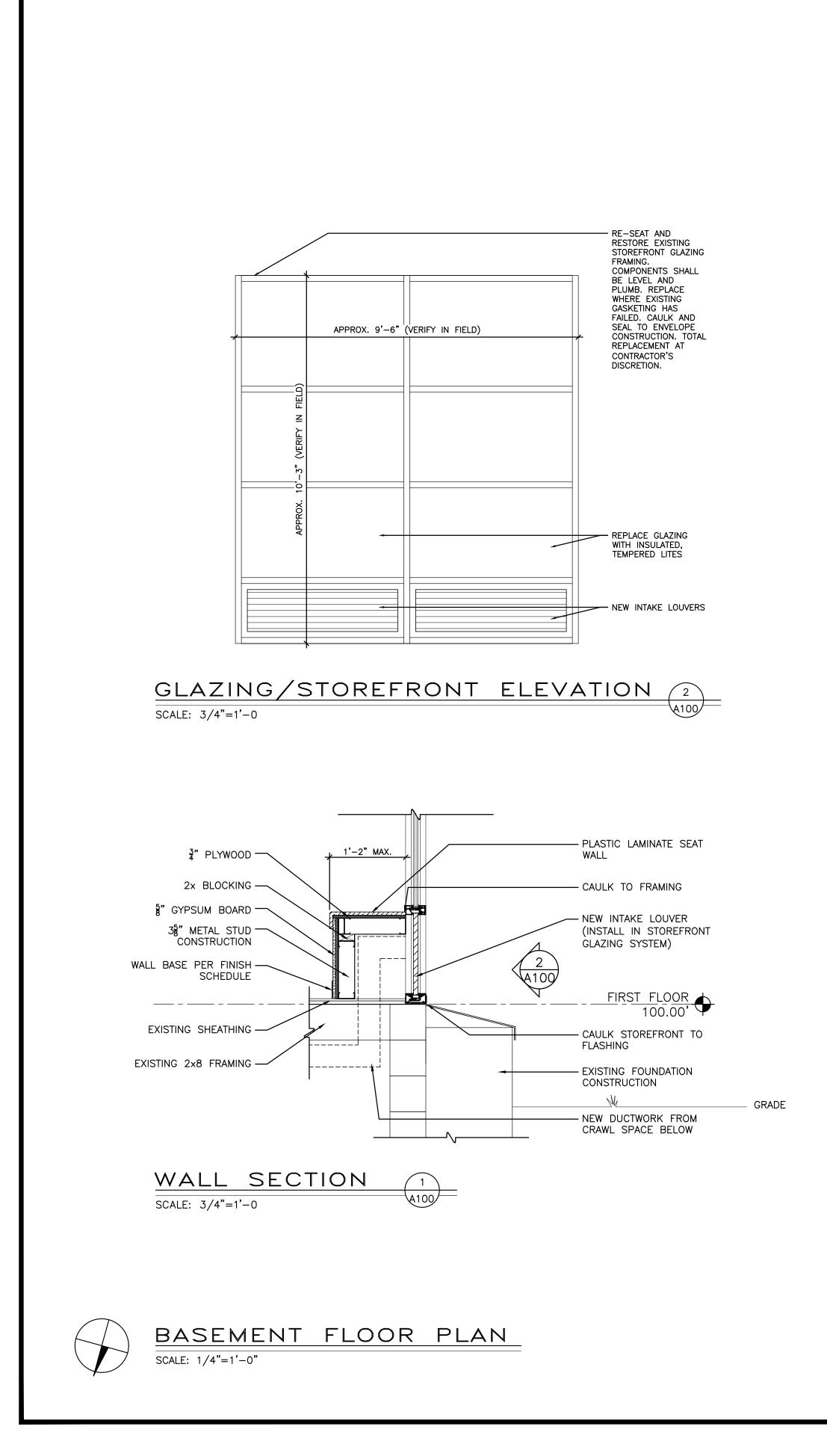


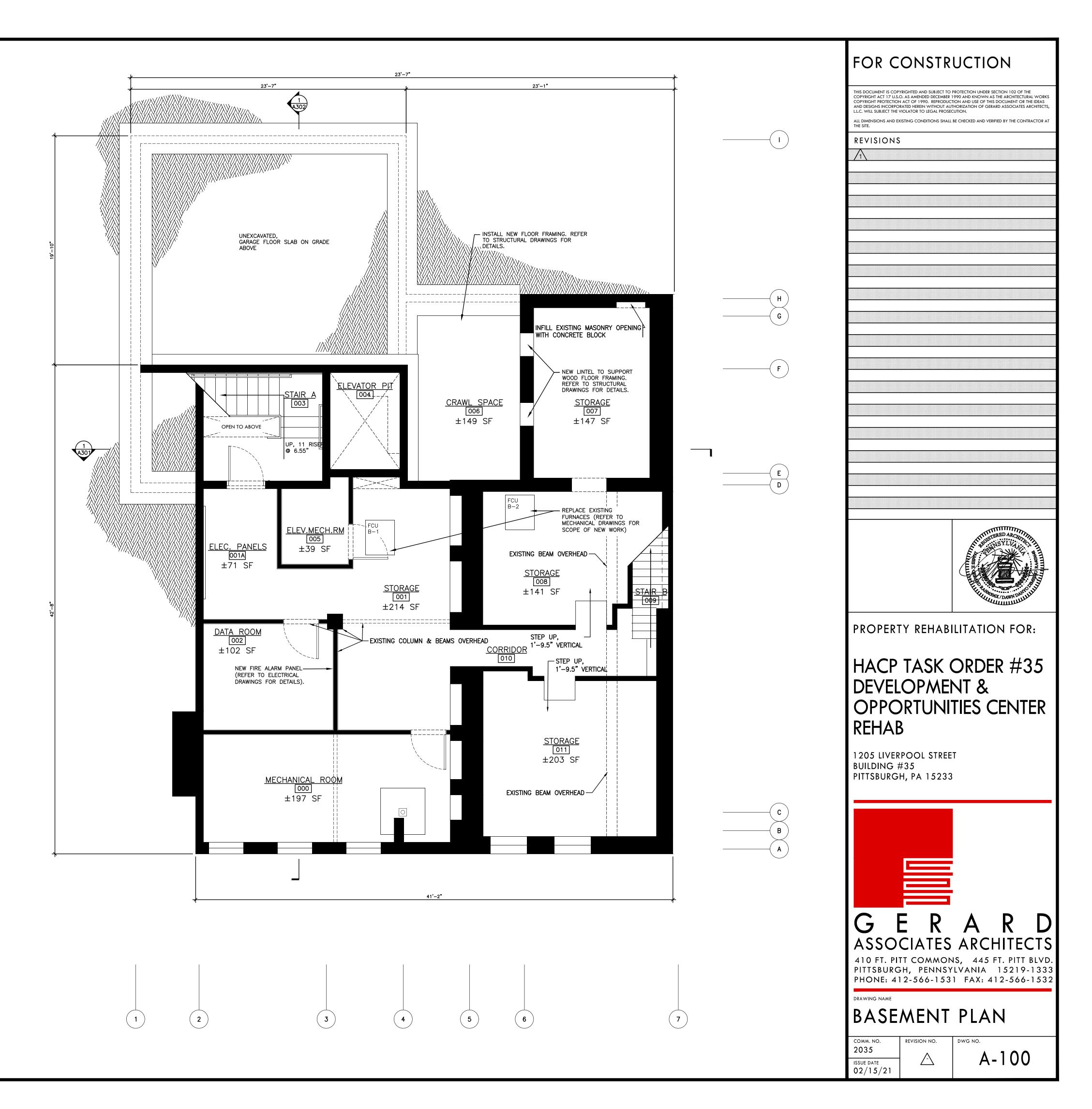


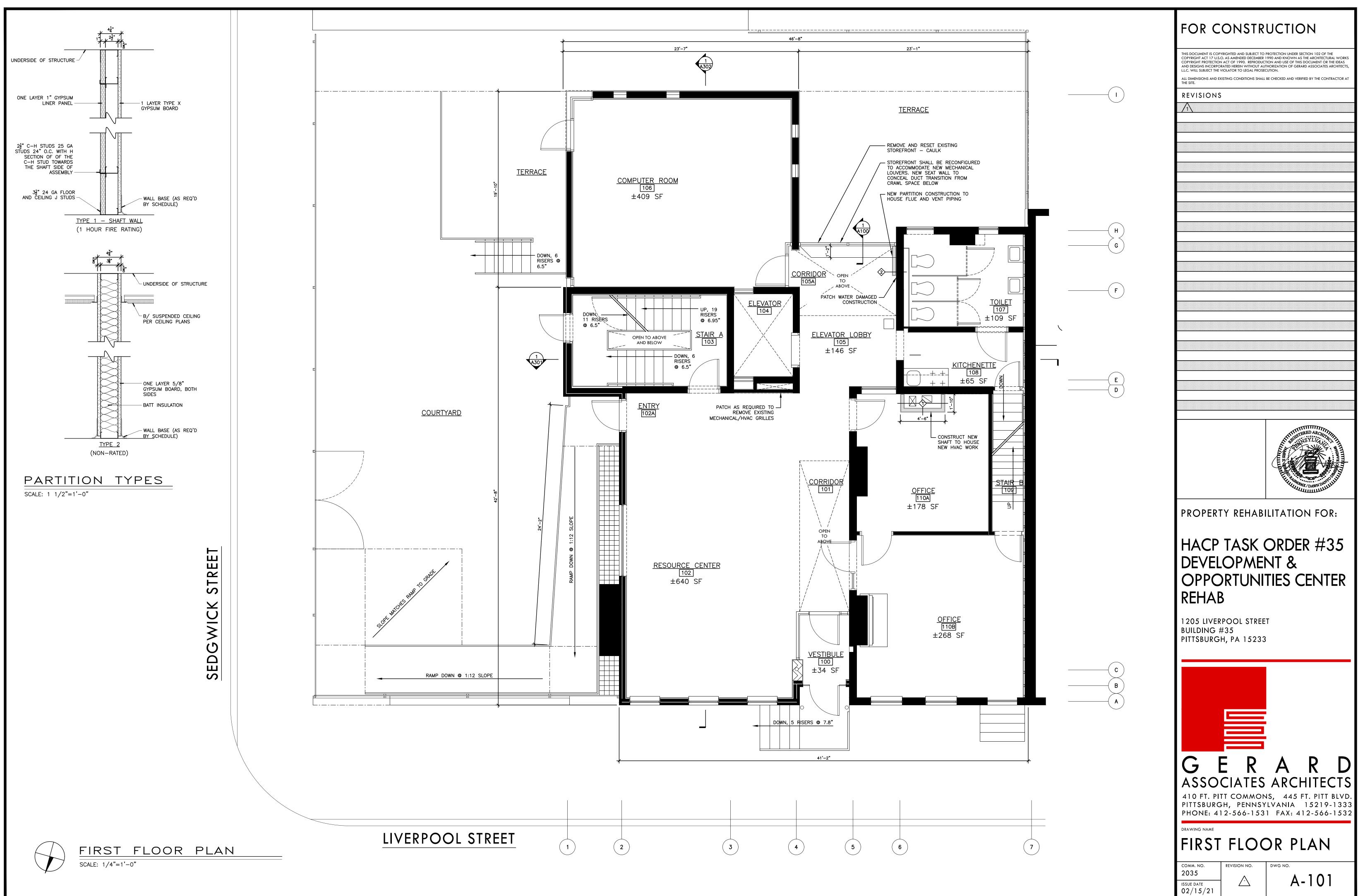


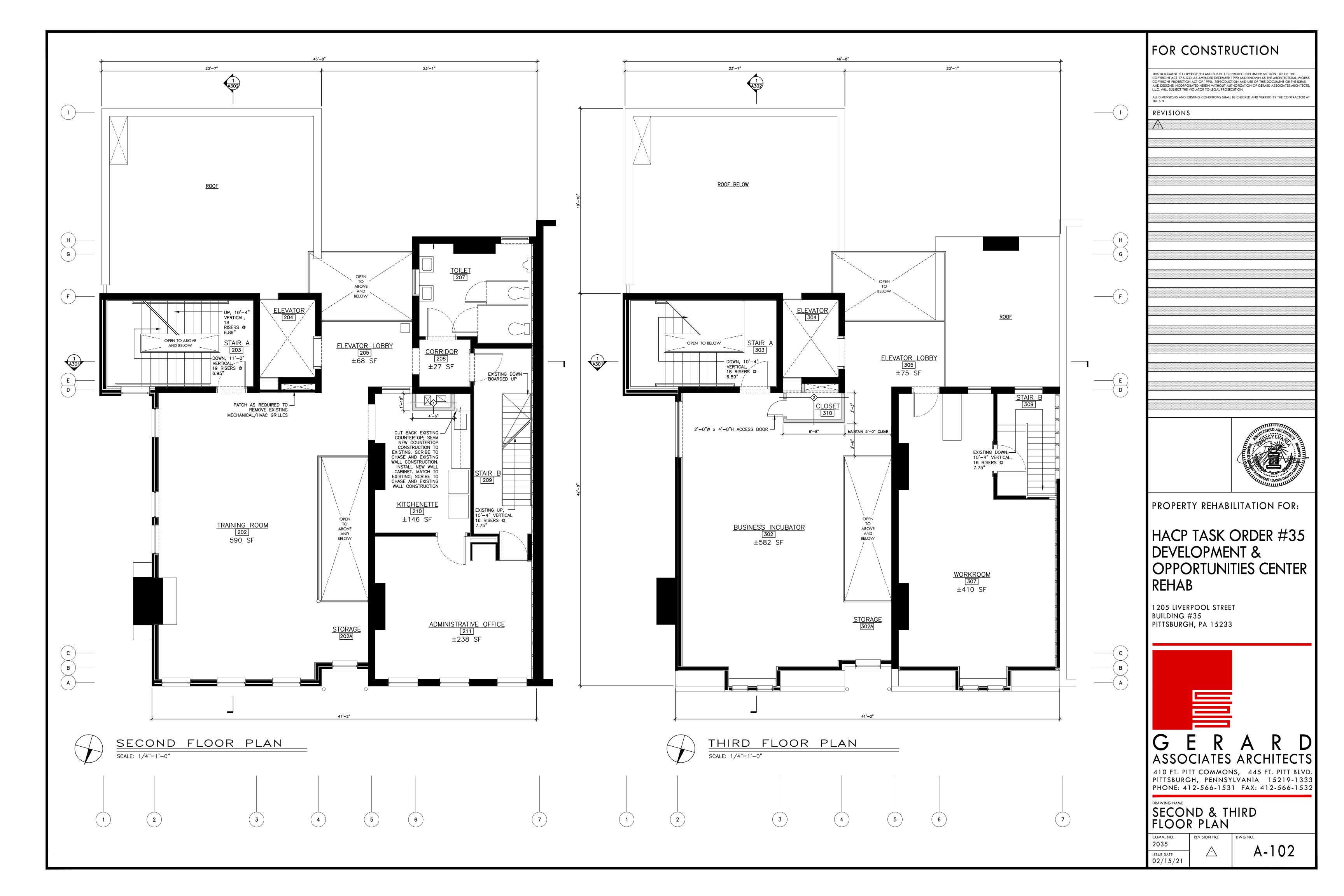
02/15/21

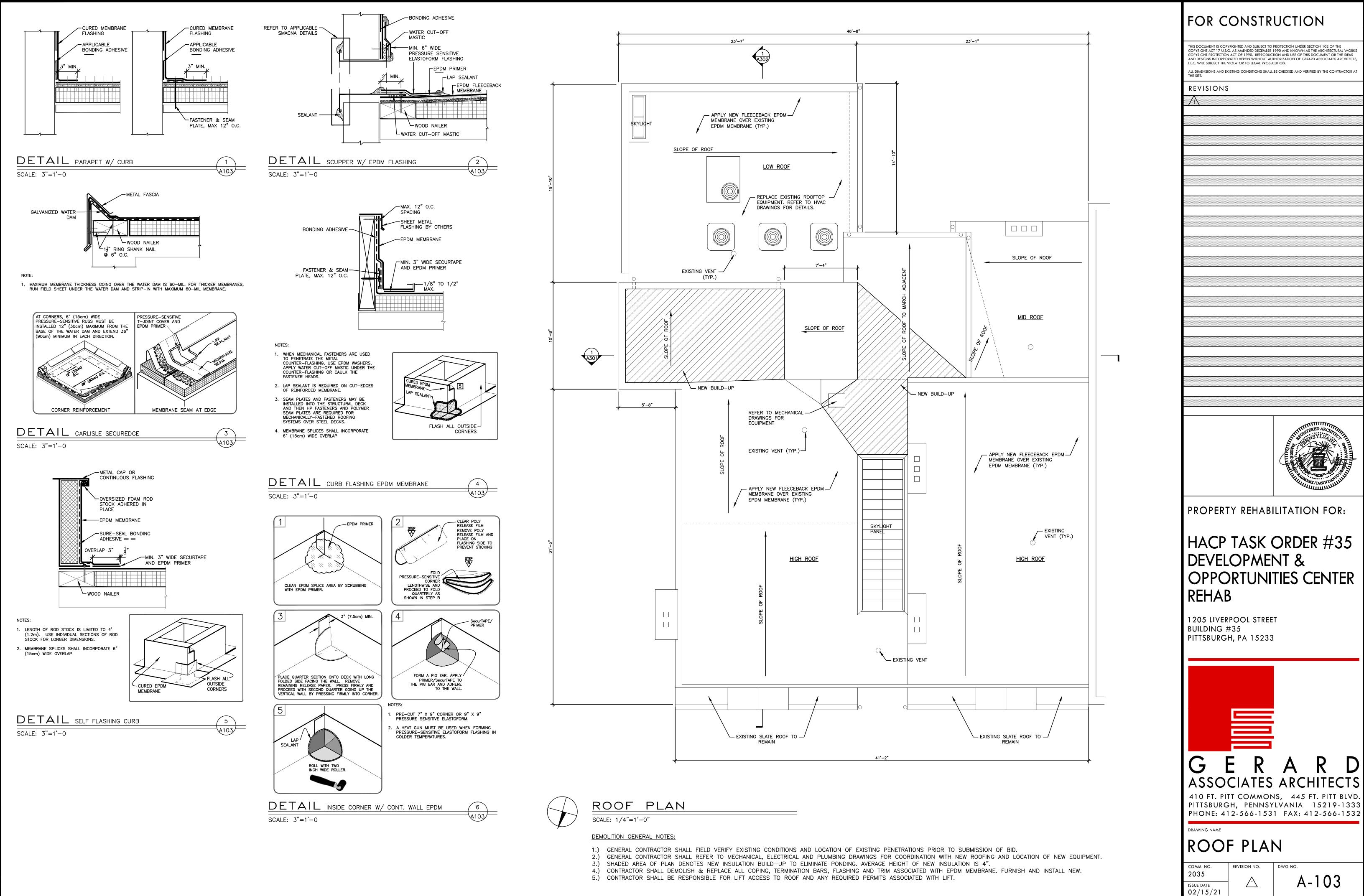












 $\frac{1}{137.33} \bullet$ 

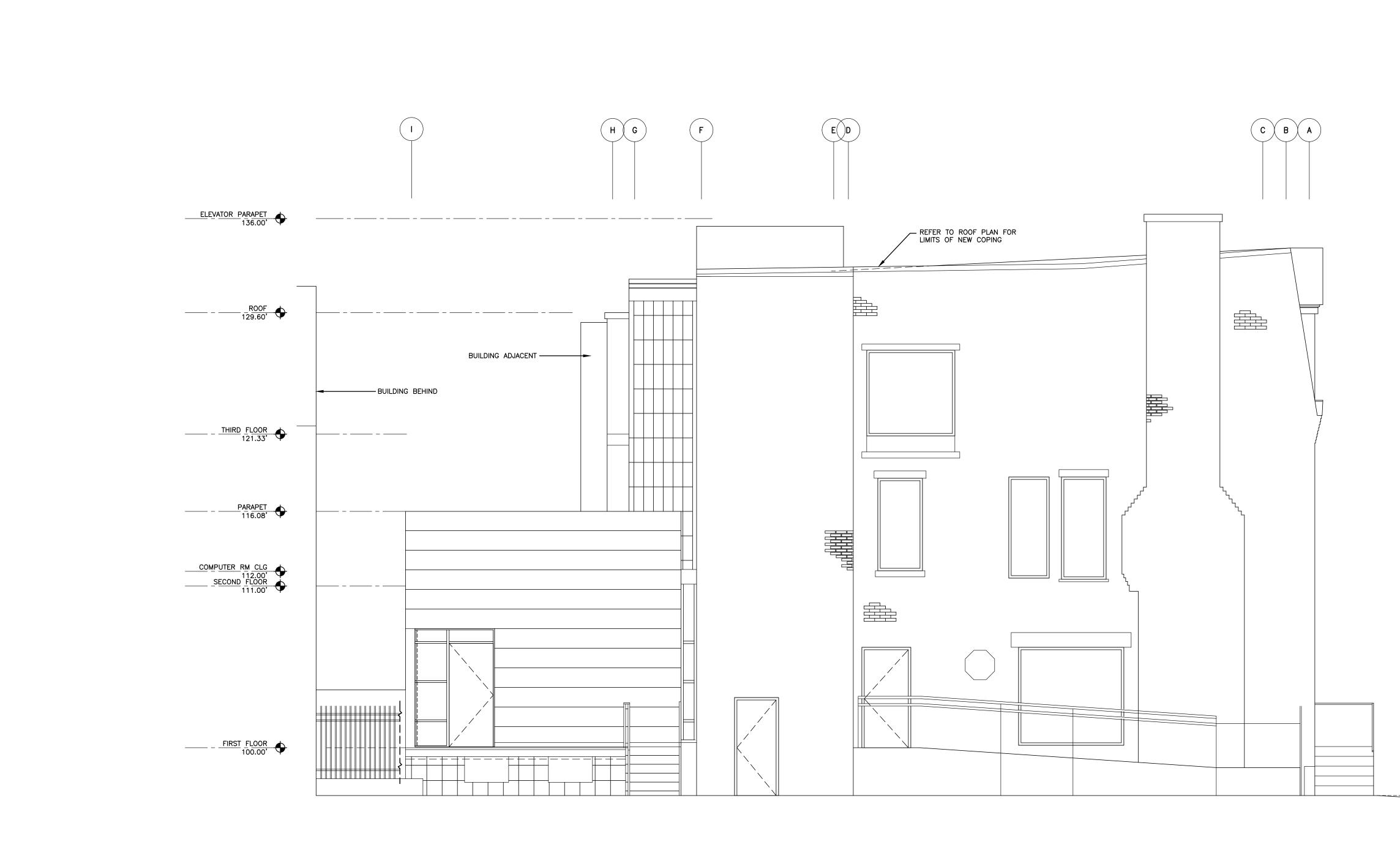
\_\_\_\_\_<u>SECOND\_FLOOR</u> 111.00'



COURTYARD SIDEWALK 96.75'

### NORTH ELEVATION

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



### EAST ELEVATION

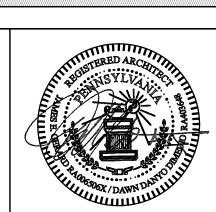
SCALE: 1/4"=1'-0"

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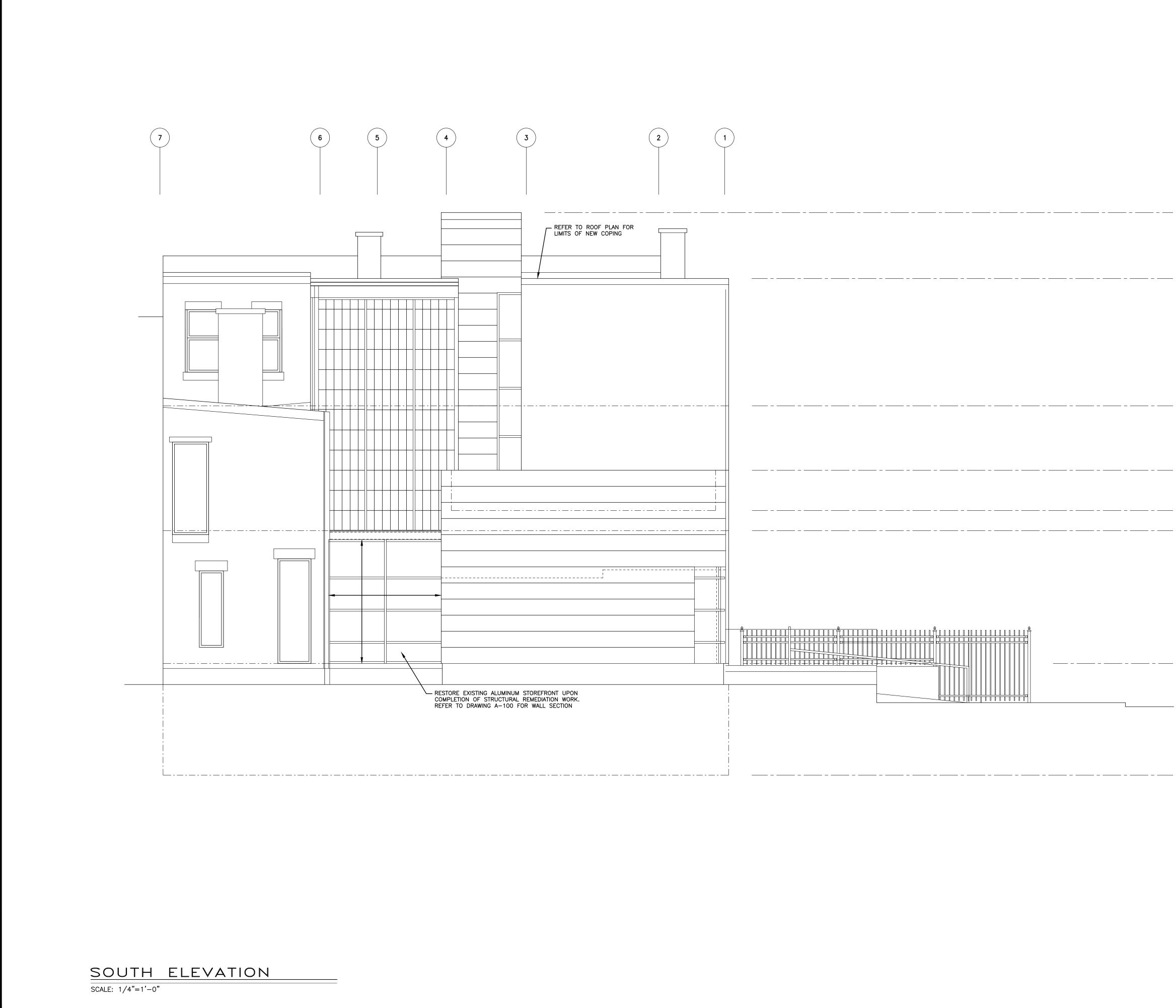
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB

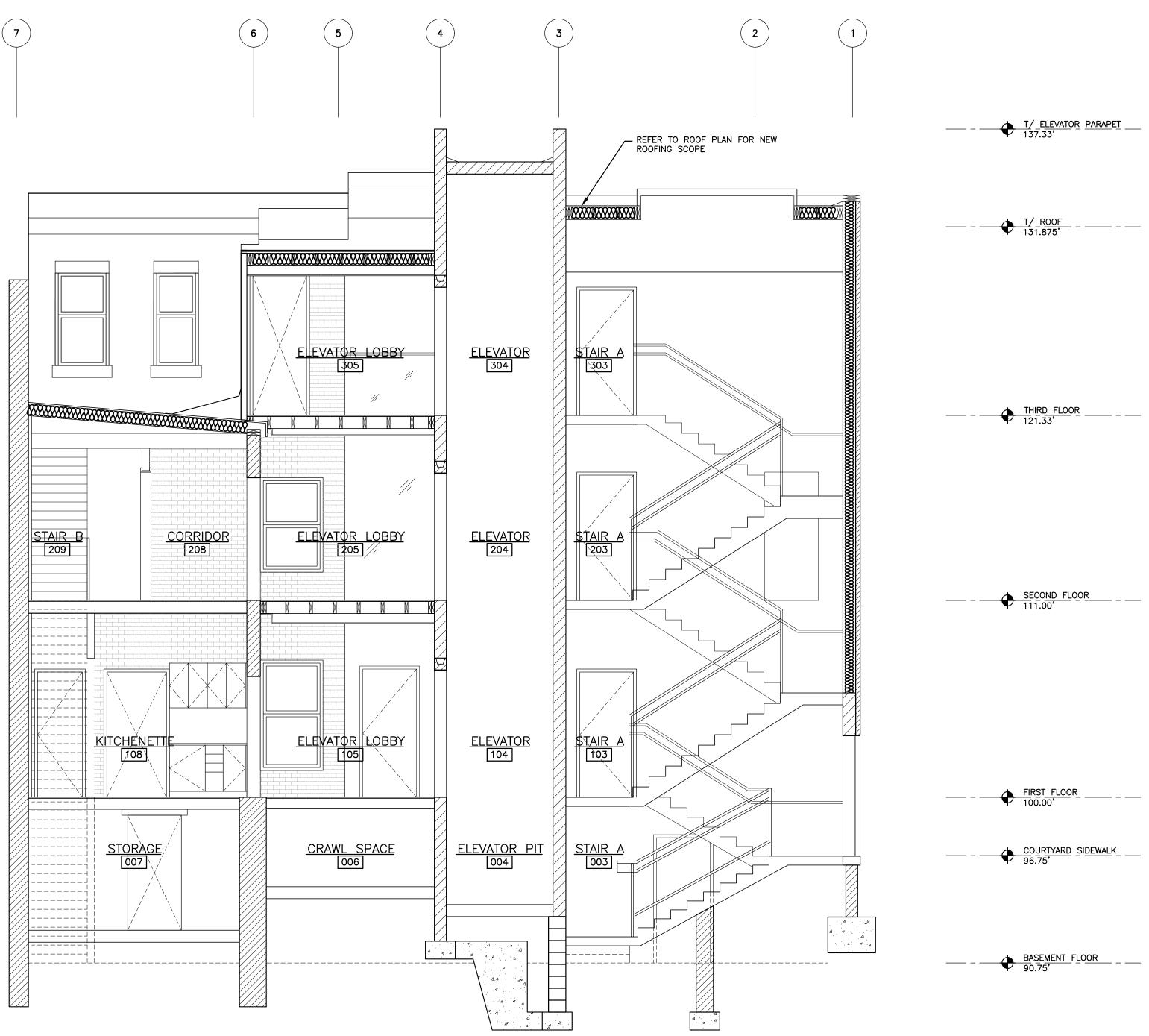




2	
REFER TO ROOF PLAN FOR LIMITS OF NEW COPING	
FRONT UPON IATION WORK. L SECTION	

	FOR CONSTRUCTION
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• T/_ELEVATOR PARAPET 137.33'	
T/ ROOF     T/ ROOF     T/ 131.875'     T/ ■     T/     T/ ■     T/     T/    T/    T/    T/    T/    T/    T/    T/    T/    T/    T/	
<u>→ THIRD FLOOR</u>	
T 121.55	
• <u>PARAPET</u> – –	TUDOSTERED ARCENTRA
	PROPERTY REHABILITATION FOR:
<u>FIRST_FLOOR</u>	HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB
COURTYARD SIDEWALK	1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233
BASEMENT_FLOOR 90.75'	
	GERAARD ASSOCIATES ARCHITECTS 410 FT. PITT COMMONS, 445 FT. PITT BLVD. PITTSBURGH, PENNSYLVANIA 15219-1333
	PHONE: 412-566-1531 FAX: 412-566-1532 DRAWING NAME
	COMM. NO. REVISION NO. DWG NO.
	ISSUE DATE A-203

ISSUE DATE 02/15/21



### BUILDING SECTIONS

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

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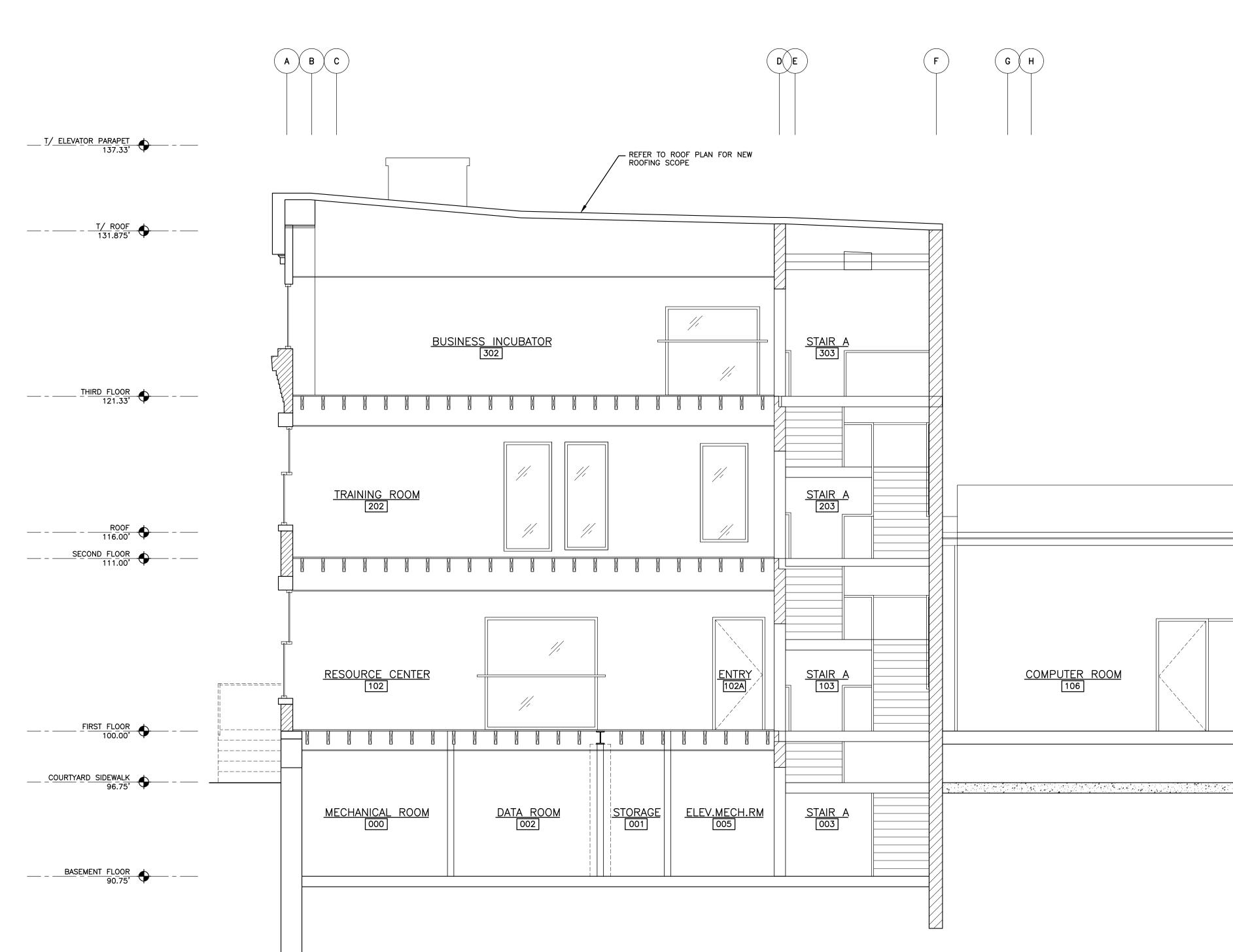
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PROPERTY REHABILITATION FOR:

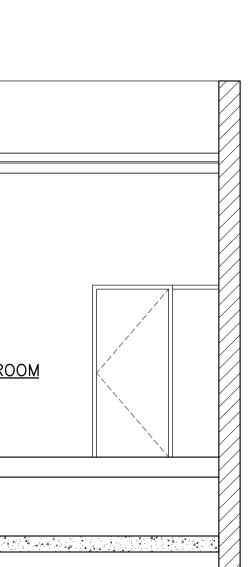
### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER** REHAB





### BUILDING SECTIONS

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

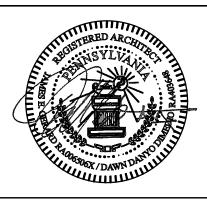


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### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER** REHAB

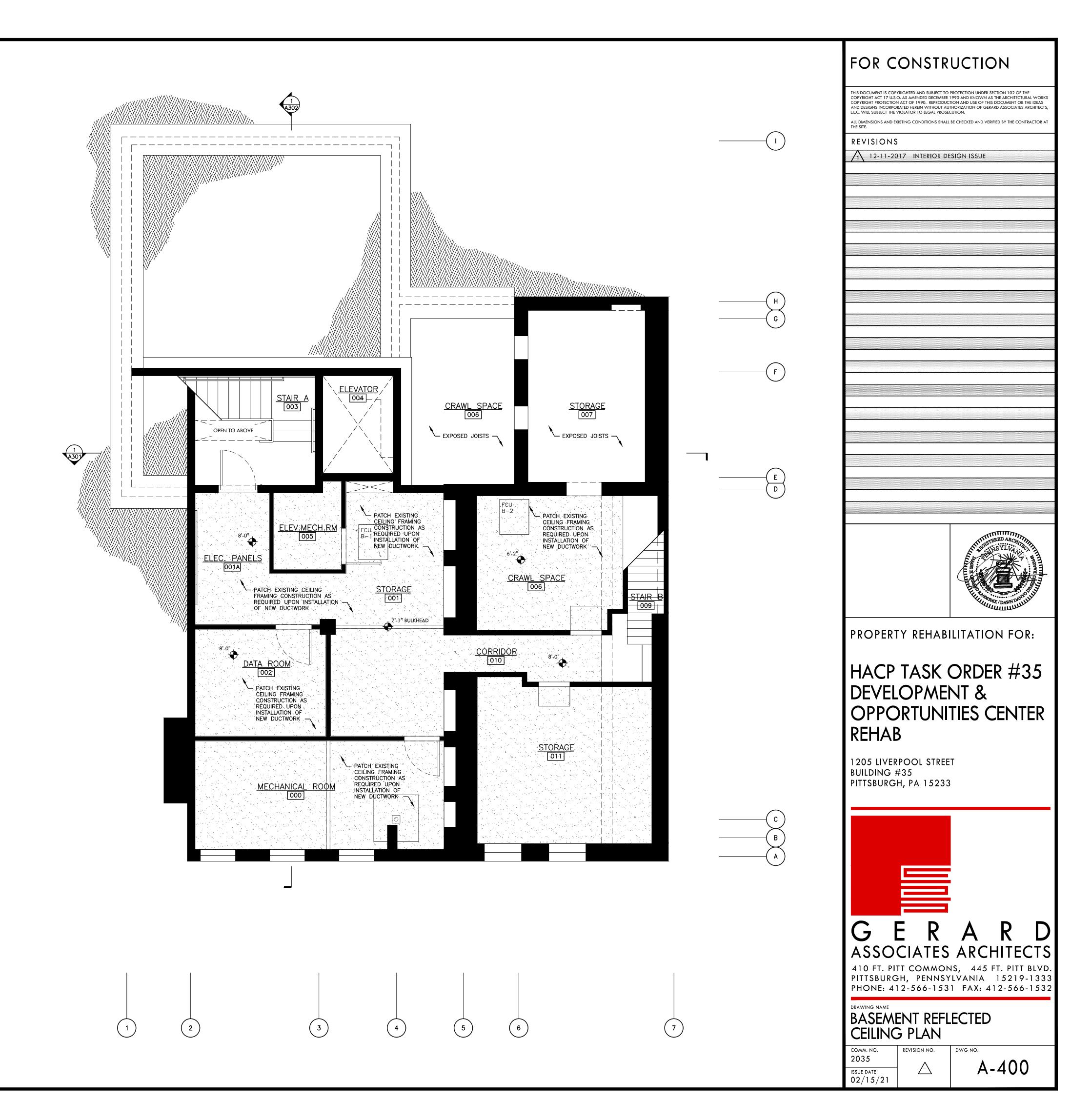


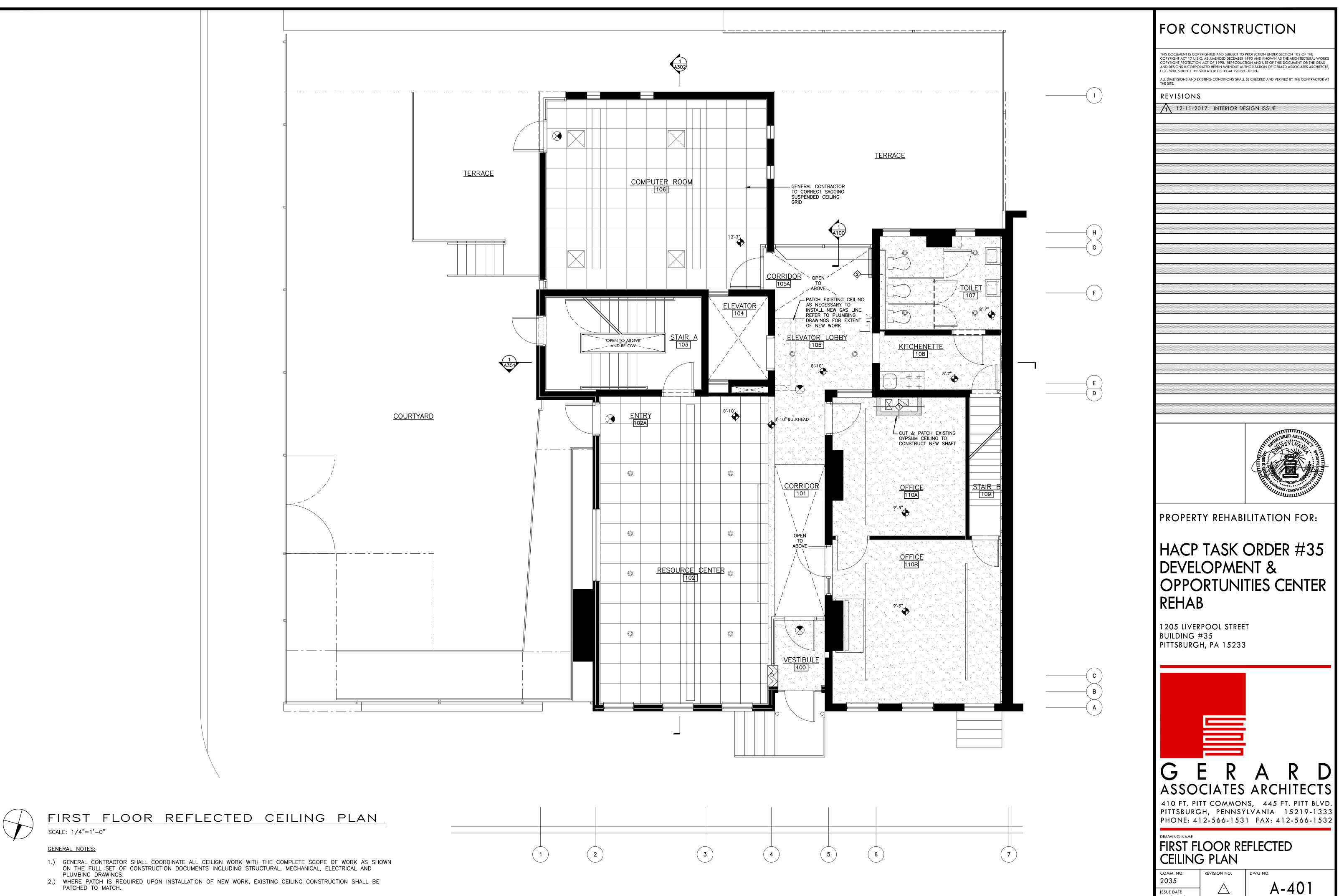


### BASEMENT REFLECTED CEILING PLAN SCALE: 1/4"=1'-0"

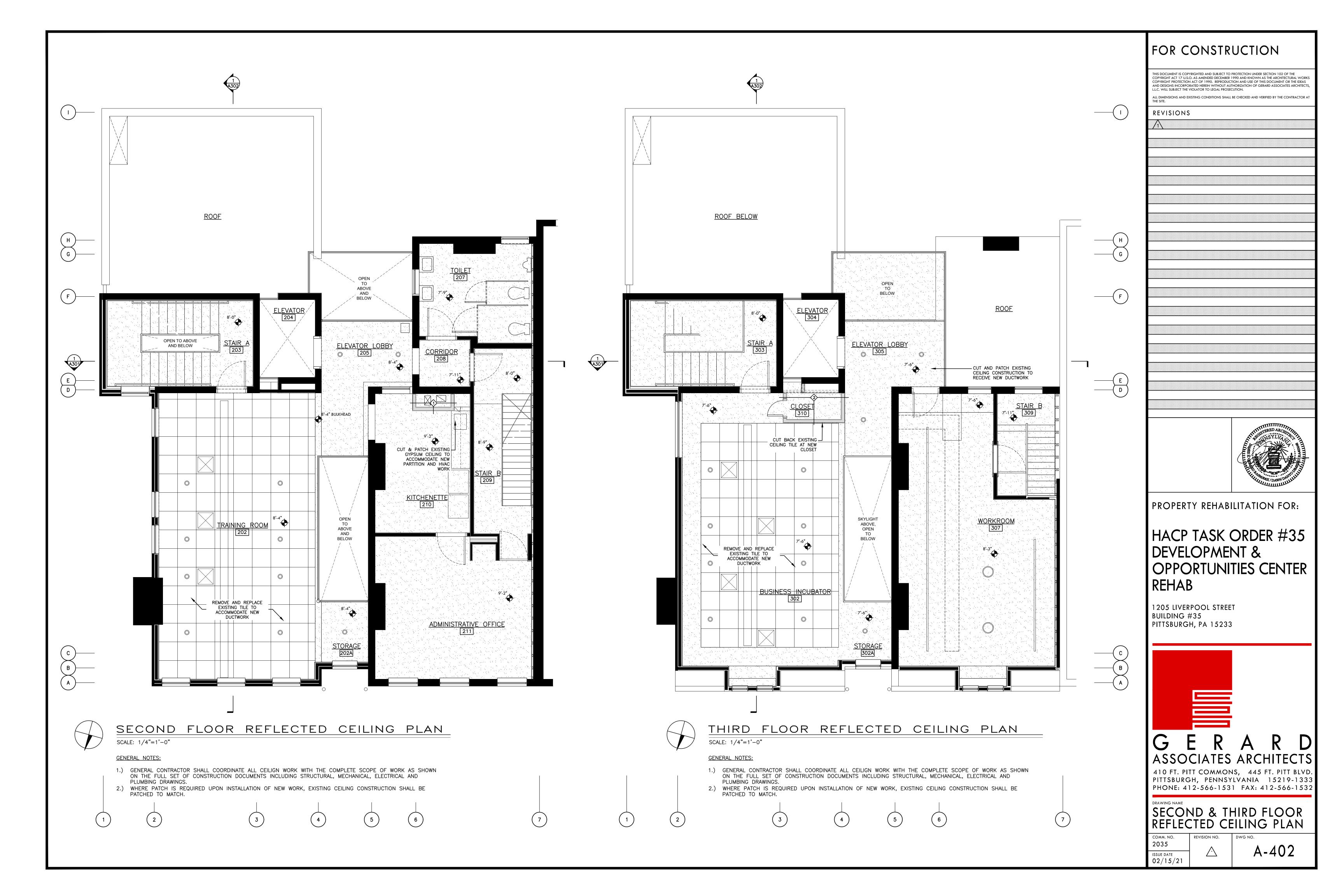
GENERAL NOTES:

- GENERAL CONTRACTOR SHALL COORDINATE ALL CEILIGN WORK WITH THE COMPLETE SCOPE OF WORK AS SHOWN ON THE FULL SET OF CONSTRUCTION DOCUMENTS INCLUDING STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 2.) WHERE PATCH IS REQUIRED UPON INSTALLATION OF NEW WORK, EXISTING CEILING CONSTRUCTION SHALL BE PATCHED TO MATCH.





02/15/21



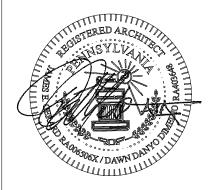
			FIN	ISH SCHEDULE		
	FLOOR	BASE	WALLS CEILING	CEILING HEIGHT SILL	SPECIAL TRIM OR EQUIPMENT (NUMBER REQUIRED INDICATED)	REMARKS
ROOM NAME BASEMENT 000 MECHANICAL ROOM 001 STORAGE 001A ELECTRICAL PANELS 002 DATA ROOM 003 STAIR A	Image: constraint of the second state of the second sta	10       F11       F12       F12       F13       F1	M8       M9       M10       M1       M1 <t< td=""><td>How See Structure         See Structure         How See Structure         See Structure         How See Structure         See Structure      <t< td=""><td>SP2       SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11</td><td>WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.</td></t<></td></t<>	How See Structure         See Structure         How See Structure         See Structure         How See Structure         See Structure <t< td=""><td>SP2       SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11</td><td>WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.</td></t<>	SP2       SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11	WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
005ELEVATOR MACHINE ROOM006CRAWL SPACE007STORAGE	F3 F3 F3	B3         W3           B3         W1	C4 C4 C4	CH5 CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
007STORAGE009STAIR B010CORRIDOR	F3       F3       F3	B3     W3       B3     W3       B3     W3       B3     W3       W3     W3	C4           C4           C4           C4           C4           C4           C4	CH5        CH5        CH5        CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
FIRST FLOOR100VESTIBULE101CORRIDOR102RESOURCE CENTER102AENTRY103STAIR A105ELEVATOR LOBBY106ACORRIDOR106COMPUTER ROOM107TOILET108KITCHENETTE109STAIR B110AOFFICE110BOFFICE	F3       F3         F3       F3         F3       F3         F3       F3         F3       F3         F1       F1         F1       F1         F1       F1         F1       F1         F1       F1         F1       F3	Image: Sector of the sector	C4       C4	CH5       CH5       I       I       I         CH5       I       I       I       I         I       CH5       I       I       I         I       CH5       I       I       I	Image: selection of the se	WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDP
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202ASTORAGE203STAIR A205ELEVATOR LOBBY	F1 F3 F1	B1       B1       W1       B1       W1       W1 <td< td=""><td>C4       C4       C4       C4       C4       C4</td><td>CH5         CH5           CH5         CH5           CH5         CH5</td><td></td><td>WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.</td></td<>	C4       C4       C4       C4       C4       C4	CH5         CH5           CH5         CH5           CH5         CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
207TOILET208CORRIDOR209STAIR B	F3 F3 F1 F3	B3     W3       B1     W1       B3     W3	C4 C4 C4	CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
210KITCHENETTE211ADMINISTRATIVE OFFICE	F1         F1           F1         F1	B1     B1     W1     M3     M3       B1     W1     W1     M3     M3	C4           C4           C4           C4	CH5 CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
THIRD FLOOR         302       BUSINESS INCUBATOR         302A       STORAGE         303       STAIR A         305       ELEVATOR LOBBY         307       WORKROOM         309       STAIR B         310       CLOSET	F1       F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F1       F3       F1         F3       F1	B1       W1       W1 <td< td=""><td>C4       C4         C4       C4         C1       C4         C1       C1         C1       C1</td><td>CH5       CH5       I</td></td<> <td></td> <td>WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         COORDINATE CONSTRUCTION OF ROOM WITH NEW HVAC WORK.</td>	C4       C4         C1       C4         C1       C1	CH5       CH5       I		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         COORDINATE CONSTRUCTION OF ROOM WITH NEW HVAC WORK.

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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB



### GENERAL NOTES

#### 1.0 <u>GENERAL</u>

- 1.1 The structural drawings shall govern the work for structural features, unless otherwise noted. Discrepancies between the architectural and structural drawings shall be reported to the architect and engineer for review and clarification before proceeding with related work.
- 1.2 In case of conflict between the General Notes, Specifications, and Drawings regarding structural issues, the Contractor shall submit an RFI for clarification.
- 1.3 Work not indicated on a part of the drawings, but reasonably implied to be similar to that shown at corresponding places, shall be repeated.
- 1.4 The contractor is responsible for means and methods of construction and construction procedures, fabrication processes, coordination of work with other trades and job site safety.
- 1.5 Existing building information shown is as indicated on existing building drawings] [and] [from field observation. Information shown may not necessarily reflect actual conditions. The Contractor shall field verify existing building information shown (dimensions, elevations, etc.) and notify the Architect of any discrepancies prior to fabrication of any structural component.
- 1.6 The structure has been designed for its final/in use condition. Temporary bracing, sheeting, shoring, etc., required to ensure the structural integrity/stability of the structure, adjacent existing structures, sidewalks, utilities, etc., during construction is the Contractor's responsibility and shall be designed by a Registered Professional Engineer employed by the Contractor. Contractor shall be required to demolish owner furnished scaffolding and install temporary shoring upon award of contract.
- 1.7 Information contained on the hard copy of this drawing retained by Keystone Structural Solutions controls over variances or changes that might be introduced due to plotting by others via electronic document transfer.
- 1.8 The distribution and/or use of the electronic files of the structural drawings is strictly prohibited unless written authorization is provided by Keystone Structural Solutions.
- 1.9 The structural construction documents are instruments of professional services and shall remain the property of KSS. The documents are not intended or represented to be suitable for reuse by the Client or others on extensions of this project or on any other project.

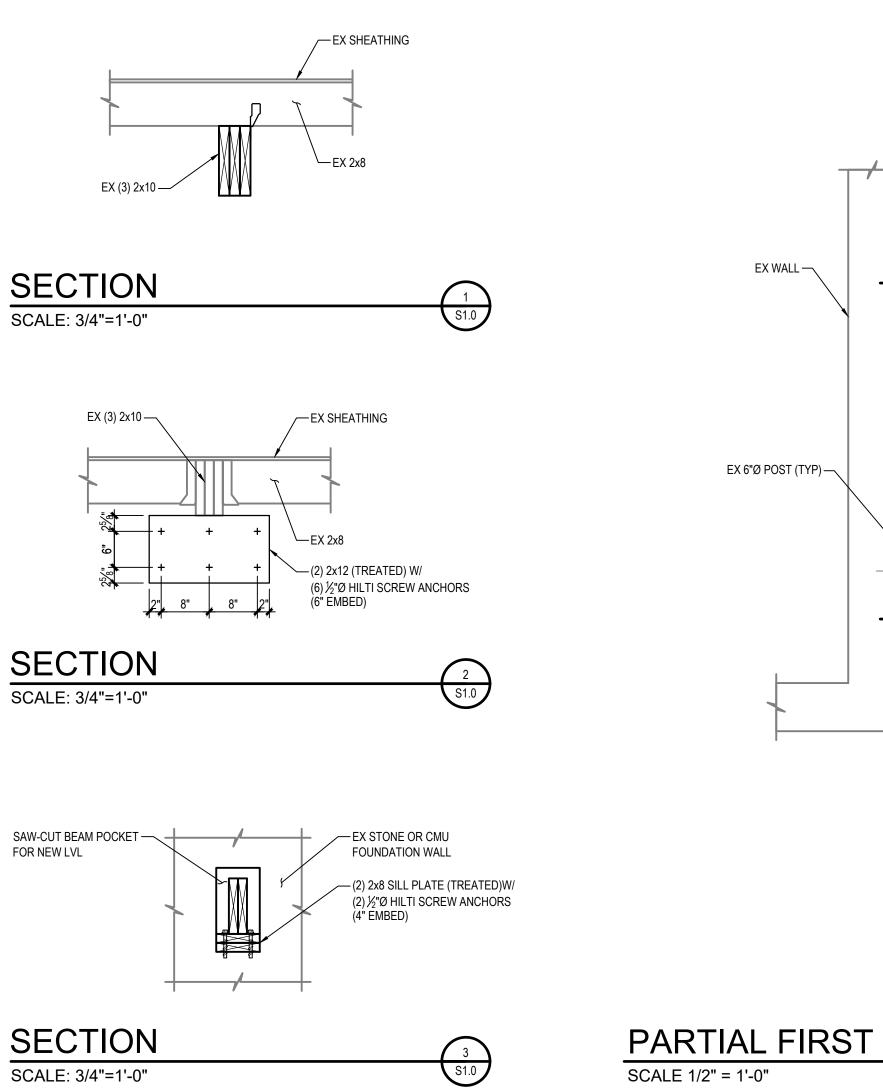
#### 2.0 DESIGN CRITERIA

- 2.1 Design Codes:
  - a. IBC 2015
  - b. ANSI/ASCE-7 2010 c. PA Uniform Construction Code (UCC)
- 2.2 Live Loads:
- a. Common Area

100 psf

#### 3.0 STRUCTURAL WOOD

- 3.1 Design, fabrication and construction of wood framing shall conform with:
  - a. "Timber Construction Manual", latest edition, as adopted by the American Institute of Timber Construction (AITC), including the "Code of Standard Practice", AITC 106.
  - b. "National Design Specifications for Wood Construction" (NDS), latest edition.
  - c. Design Specifications for Metal Plate Connected Wood Trusses" (TPI-85), and for "Parallel Chord Wood Trusses" (PCT-80).
  - d. Commentary & Recommendations for Handling, Installing and Bracing Metal Plate Connected Wood Trusses" (TPI/HIB-91).
- 3.2 Sawn lumber shall be Spruce-Pine-Fir (SPF) No.1/No.2 or better, graded in accordance with the NFPA National Design Specification with the following base design values: a. Fb=875 psi (bending – single member use)
  - b. Fv=135 psi (horizontal shear)
  - c. Fc=1150 psi (compression parallel to grain)
  - d. E=1,400,000 psi (modulus of elasticity)
- 3.3 Parallel Strand Lumber (PSL) shall be as manufactured by iLevel (Parallam) or equal with the following base design values: a. Fb=2900 psi (bending)
  - b. Fv=290 psi (horizontal shear)
  - c. Fc=2900 psi (compression parallel to grain)
  - d. E=2,000,000 psi (modulus of elasticity)
- 3.4 If alternate manufactured products are used, the contractor is responsible for confirming that those products design properties are equal to or greater than those specified.
- 3.5 Plywood or OSB sheathing shall be in conformance with American Plywood Association (APA) specifications. Panels should be installed with a 1/8" spacing at all panel end and edge joints. Floor sheathing to be glued and nailed.
- 3.6 Wood sills, sleepers, blocking, furring, stripping and similar concealed members in contact with masonry or concrete shall be preservative treated by pressure process in accordance with AWPA UC2.



## PARTIAL FIRST FLOOR FRAMING PLAN

2 S1.0

10'-6"±

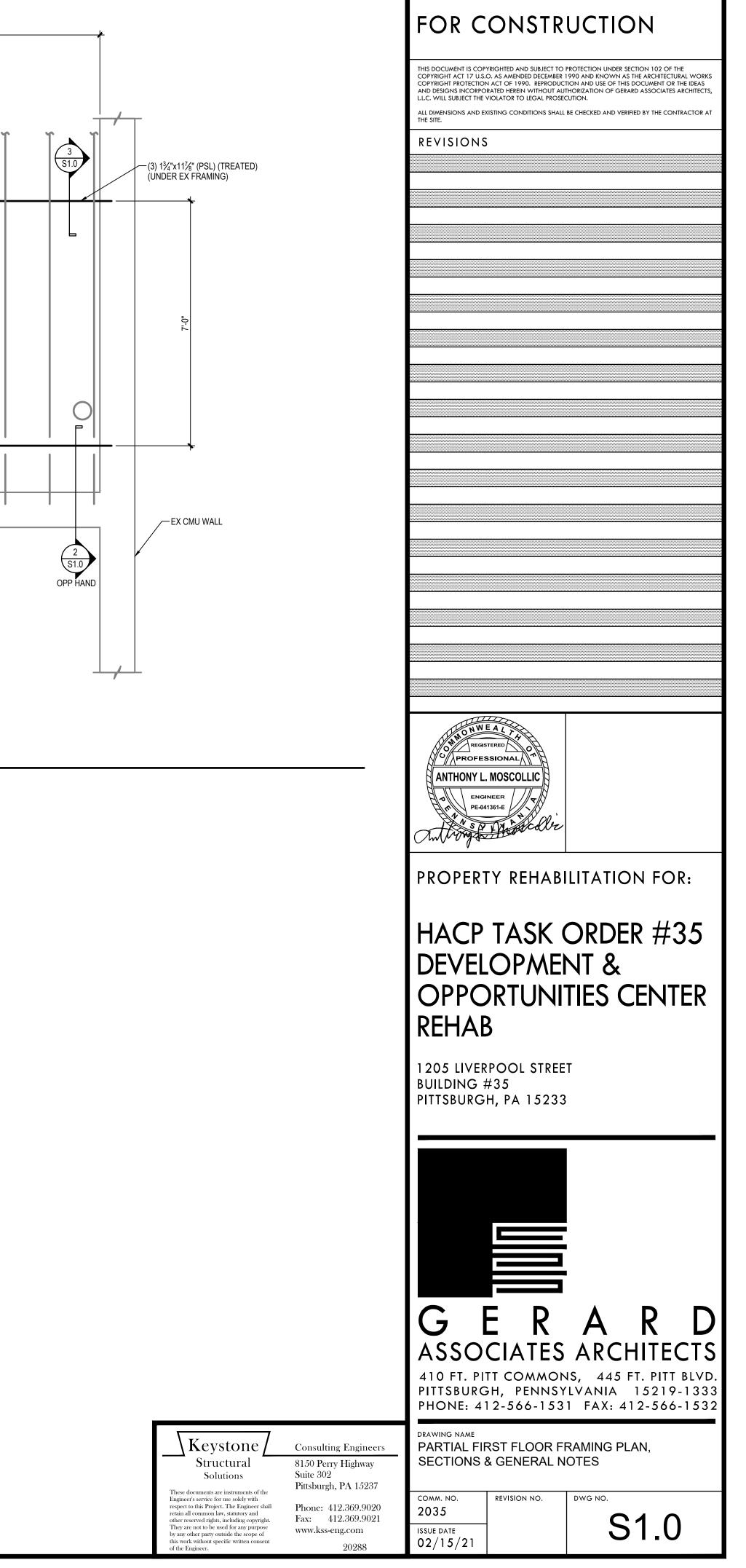
1 S1.0

-CUT BACK RAFTER TO

DUCTWORK FROM CRAWL SPACE BELOW

EX (3) 2x10 TO RECEIVE

NOTES:



GENERAL MECHANICAL NOTES (ALL DRAWINGS):

- 1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND REQUIRED BY CODE.
- 2. THE CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC ONLY, AND ARE INTENDED TO CONVEY THE SCOPE AND GENERAL ARRANGEMENT OF WORK.
- 3. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR BY FIELD INSPECTION PRIOR TO BIDDING. ANY INTERFERENCES TO INSTALLATION SHALL BE NOTED AND THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE THE COST TO AVOID OR RELOCATE ALL ITEMS, INCLUDING ITEMS OF OTHER TRADES, THAT INTERFERE. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. ALL OFFSETS, RISES, TRANSITIONS AND DROPS IN DUCTS AND PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 4. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS OR PIPE ADAPTERS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
- 5. PROVIDE ACCESS IN WALLS & CEILINGS TO ACCESS ALL EQUIPMENT, VALVES, CONTROL DEVICES, VOLUME DAMPERS, AND FIRE/SMOKE DAMPERS.
- 6. FOLLOW MANUFACTURE'S RECOMMENDATIONS FOR INSTALLATION OF EQUIPMENT. ALSO REFER TO TYPICAL DETAILS FOR INSTALLATION OF EQUIPMENT.
- 7. ALL MATERIALS FURNISHED, AND ALL WORK PERFORMED BY THE MECHANICAL CONTRACTOR SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE LATEST APPLICABLE EDITIONS OF NFPA, IEEE, OSHA, SMACNA, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, AND ANY STATE, COUNTY, AND LOCAL CODES.
- 8. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED SUFFICIENTLY AND ANY ADDITIONAL SUPPORT SHALL BE PROVIDED AS REQUIRED TO PROVIDE VIBRATION FREE AND SAFE INSTALLATION. ALL MISCELLANEOUS STEEL REQUIRED AND/OR AS SHOWN IN DETAILS FOR DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. SUPPORT ALL DUCTWORK, PIPING AND EQUIPMENT MOUNTED ABOVE THE CEILING DIRECTLY FROM THE STRUCTURE. ALL ATTACHMENTS TO BEAMS, TRUSSES, OR JOIST SHALL BE MADE AT PANEL POINTS WITH BEAM CLAMPS MEETING MSS STANDARDS.
- 9. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND ELECTRICAL SPECIFICATIONS FOR THIS PROJECT.

DUCTWORK GENERAL NOTES (ALL DRAWINGS):

- 1. ALL DUCTWORK INDICATED IS SCHEMATIC AND SHOW ONLY RELATIVE POSITIONS. PROVIDE OFFSETS, RISES, TRANSITIONS AND ELBOWS AS NEEDED TO INSTALL PROPERLY.
- 2. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL HVAC DEVICES, FANS, DAMPERS, (FIRE, SMOKE, BALANCING) COILS, AND TERMINAL EQUIPMENT.
- 3. LOCATIONS OF TERMINAL DEVICES, AIR OUTLETS AND INLETS ARE APPROXIMATE. LOCATE PER THE ARCHITECTURAL DRAWINGS AND TO AVOID OTHER TRADE'S WORK. COORDINATE LOCATIONS WITH OTHER TRADES. CONSULT ARCHITECT/ENGINEER FOR CLARIFICATION IF CONFLICTS OCCUR.
- 4. DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE FACE-TO-FACE DIMENSIONS AND DO NOT INCLUDE DUCT LINER WHERE SPECIFIED. INCREASE DIMENSIONS OF LINED DUCTWORK TO PROVIDE FREE INSIDE AREA EQUAL DIMENSIONS SHOWN. REFER TO THE SPECIFICATIONS FOR LOCATION OF LINED DUCTWORK.
- 5. FINAL CONNECTIONS FROM HIGH VELOCITY MAIN DUCTS TO AIR TERMINAL UNITS SHALL BE MADE WITH FLEXIBLE DUCTWORK NOT EXCEEDING 3 FEET IN LENGTH. CONNECTIONS BETWEEN LOW VELOCITY DUCTWORK AND/OR TERMINAL UNITS TO AIR INLETS AND OUTLETS SHALL BE MADE WITH FLEXIBLE DUCTWORK NOT EXCEEDING 6 FEET IN LENGTH. LONGER DUCT RUN OUTS SHALL BE CONSTRUCTED OF HARD DUCT OF THE SAME MATERIAL SPECIFIED FOR THE SYSTEM SERVED AND INSULATED AS SPECIFIED FOR THAT SYSTEM. FLEXIBLE DUCTWORK SHALL BE OF THE PRESSURE CLASS AND FACTORY INSULATED AS SPECIFIED FOR THE SYSTEM WHERE INSTALLED.
- 6. FLEXIBLE DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITHOUT ANY SAGS, SHARP TURNS OR KINKS. AT THE MINIMUM, THE FLEXIBLE DUCTWORK SHALL BE FASTENED TO THE HARD DUCT BY A NYLON STRAP SECURED BY SHEETMETAL SCREWS TO PREVENT SLIPPING OFF FROM COLLAR.
- 7. PROVIDE VOLUME DAMPERS AT EACH AIR OUTLET, AIR INLET AND TERMINAL DEVICE AND AT EACH BRANCH TAKE-OFF CONNECTION FROM THE MAIN.

MECHANICAL PIPING GENERAL NOTES (ALL DRAWINGS):

- 1. ALL PIPING SHOWN HAS BEEN DRAWN SCHEMATICALLY FOR CLARITY AND SHOW ONLY RELATIVE POSITIONS. PROVIDE OFFSETS AND ELBOWS AS NEEDED TO INSTALL PROPERLY AND TO AVOID INTERFERENCES.
- 2. ALL NEW OR REPLACED HYDRONIC PIPING SHALL BE INSTALLED SO THAT IT CAN BE COMPLETELY VENTED AT HIGH POINTS AND DRAINED AT LOW POINTS. PROVIDE AIR VENTS AT HIGH POINTS, TYPE PER SPECIFICATIONS. PROVIDE 1/2" BALL VALVES WITH HOSE END CONNECTIONS AND CAPS AT LOW POINT. ALL WATER MAINS SHALL BE INSTALLED LEVEL, UNLESS OTHERWISE NOTES.
- 3. PROVIDE SERVICE VALVES AT EACH BRANCH CONNECTION FROM MAINS AND AT EACH TERMINAL DEVICE OR EQUIPMENT CONNECTION.
- 4. CONTRACTOR SHALL PROVIDE NEW VALVES ON EXISTING PIPING WHERE THE PIPES ARE TO BE REMOVED SO THAT THE SYSTEM DOES NOT HAVE TO BE DRAINED WHILE REMOVING EXISTING UNITS, INSTALLING NEW UNITS AND MAKING CONNECTIONS TO NEW EQUIPMENT.



		CTWORK & GENERAL SYMBOLS LEGEND		1	NICAL PIPING SYMBOLS LEGEND
SYMBOL	ABRV. XTR	DESCRIPTION EXISTING EQUIPMENT OR DUCTWORK TO REMAIN	SYMBOL	ABRV. HWS	DESCRIPTION HEATING WATER SUPPLY PIPING
<u> </u>	RX	EXISTING EQUIPMENT OR DUCTWORK TO BE REMOVED	— — HWR— —	HWR	HEATING WATER RETURN PIPING
<u>⊢−−−</u> →		NEW EQUIPMENT OR DUCTWORK	Cws	cws	CONDENSER WATER SUPPLY PIPING
<u>⊢−−−</u> →		LINED DUCTWORK	——————————————————————————————————————	CWR	CONDENSER WATER RETURN PIPING
		SUPPLY DUCT UP	— CHWS—	CHWS	CHILLED WATER SUPPLY PIPING
		SUPPLY DUCT DOWN		CHWR	CHILLED WATER RETURN PIPING
		RETURN / EXHAUST DUCT UP	G	G	NATURAL GAS PIPING
		RETURN / EXHAUST DUCT DOWN	D	D	CONDENSATE DRAIN PIPING
		ROUND DUCT ELBOW UP	—— R — —	R	REFRIGERANT PIPING
		ROUND DUCT ELBOW DOWN	LPS	LPS	LOW PRESSURE STEAM SUPPLY PIPING (0-15 PSIG)
		ELBOW WITH TURNING VANES		MPS	MEDIUM PRESSURE STEAM SUPPLY PIPING (16-60 PSIG)
		DUCT OFFSET UP	HPS	HPS	HIGH PRESSURE STEAM SUPPLY PIPING (61 TO 200 PSIC
		DUCT OFFSET DOWN	— — LPR — —	LPR	LOW PRESSURE STEAM CONDENSATE RETURN
		SQUARE / RECTANGULAR DUCT TRANSITION	— — MPR — —	MPR	MEDIUM PRESSURE STEAM CONDENSATE RETURN
		SQUARE/RECTANGULAR TO ROUND DUCT TRANSITION	— — HPR — —	HPR	HIGH PRESSURE STEAM CONDENSATE RETURN
$\bowtie$	CD	CEILING DIFFUSER ROUND NECK - # THROW DIRECTIONS	PC	PC	PUMPED STEAM CONDENSATE
$\square$	SD	SUPPLY DIFFUSER - RECTANGULAR - MULTI-DIRECT.	v	v	VENT PIPING
 ┨ ┨-∽	SG/EG	SIDEWALL SUPPLY or RETURN GRILLE - (R = REGISTER)	CW	CW	CITY (DOMESTIC) WATER
	LD	LINEAR DIFFUSER. SEE SCHEDULE FOR INFORMATION.	FOS	FOS	FUEL OIL SUPPLY PIPING
	RG/EG	RETURN or EXHAUST GRILLE - (R = REGISTER)	FOR	FOR	FUEL OIL RETURN PIPING
		FLEXIBLE DUCT	0		ELBOW TURNED UP
	FLEX	FLEXIBLE DUCT CONNECTION (TO EQUIPMENT)			ELBOW TURNED DOWN
<u>⊢-™∟</u> ∓		SPIN TAP WITH VOLUME CONTROL DAMPER			BOTTOM PIPE CONNECTION
╘╴╴	VD	VOLUME CONTROL DAMPER	۱ ۱		TOP PIPE CONNECTION
<u>1</u> −−1 T <sup>4</sup> T <sub>□□□</sub>					
	BDD	BACKDRAFT DAMPER			PIPING CAP
	MD	MOTORIZED DAMPER			UNION
	FD	VERTICAL FIRE DAMPER (WALL)			FLANGED CONNECTION
	HFD	HORIZONTAL FIRE DAMPER (FLOOR)			CONCENTRIC PIPE REDUCER
	SD	VERTICAL SMOKE DAMPER (WALL)			ECCENTRIC PIPE REDUCER
$\longrightarrow$	HSD	HORIZONTAL SMOKE DAMPER (FLOOR)			FLOW ARROW
	FD/SD	COMBINATION VERTICAL FIRE & SMOKE DAMPER	<b>—</b>	BV	BALL VALVE
	HFD/SD	COMBINATION HORIZONTAL FIRE & SMOKE DAMPER	I[	BFV	BUTTERFLY VALVE
DD	DD	DUCT SMOKE DETECTOR	<u> </u>	PV	PLUG VALVE
T		THERMOSTAT		GV	GATE VALVE
H		HUMIDISTAT		GBV	GLOBE VALVE
SP		STATIC PRESSURE SENSOR		CV	CHECK VALVE
(CO)		CARBON DIOXIDE SENSOR			2-WAY CONTROL VALVE
CO		CARBON MONOXIDE SENSOR	<u> </u>		3-WAY CONTROL VALVE
TAG #		EQUIPMENT UNIT DESIGNATION	· · · · · · · · · · · · · · · · · · ·		CIRCUIT SETTER (BALANCING VALVE)
TAG CFM		DIFFUSER, REGISTER & GRILLE UNIT DESIGNATION W/ CFM			STRAINER (W/ BALL VALVE AND CAP)
		UNDER CUT DOOR			BACKFLOW PREVENTER
—(L)—►		LOUVERED DOOR			PRESSURE REGULATING VALVE
•		CONNECTION POINT, NEW TO EXISTING			PRESSURE RELIEF VALVE
		DISCONNECTION POINT	<u>+</u> 		TRIPLE DUTY VALVE WITH MEASURING CONNECTIONS
$\overline{(1)}$		DRAWING KEYNOTE			PRESSURE GAGE W/ SHUT-OFF
		DEMOLITION DRAWING KEYNOTE			
(1) 		·			
		REVISION NUMBER	<u>A</u>		AUTOMATIC AIR VENT

	MECHANICAL ABBREVIATIONS
ABRV.	DESCRIPTION
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
MBH	1000 - BRITISH THERMAL UNITS
KW	1000-WATT (1 KW = 3,412 BTUH)
SENS.	SENSIBLE
LAT.	LATENT
E.A.T.	ENTERING AIR TEMPERATURE
L.A.T.	LEAVING AIR TEMPERATURE
E.W.T.	ENTERING WATER TEMPERATURE
L.W.T.	LEAVING WATER TEMPERATURE
DB/WB	DRY BULB / WET BULB
IN. W.G.	INCHES WATER GAUGE (AIR)
FT. W.G.	FEET WATER GAUGE (HYDRONIC)
E.S.P.	EXTERNAL STATIC PRESSURE
T.S.P.	TOTAL STATIC PRESSURE
TG	TRANSFER GRILLE
TR	TOP REGISTER
(E)	EXISTING
R / R	REMOVE EXISTING ITEM & RELOCATE TO NEW LOCATION
UNO	UNLESS NOTED OTHERWISE
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
Ø OR PH	PHASE
Ø	DIAMETER
AFF	ABOVE FINISHED FLOOR
ELEV.	ELEVATION FROM DATUM
ES:	

NOTES:

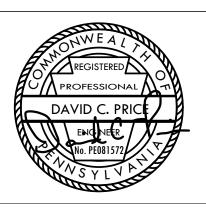
1. NOT ALL SYMBOLS AND ABBREVIATIONS ARE IN USE FOR THIS PROJECT.

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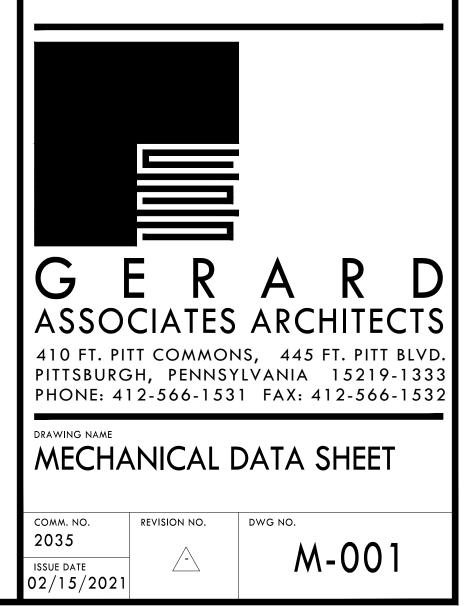
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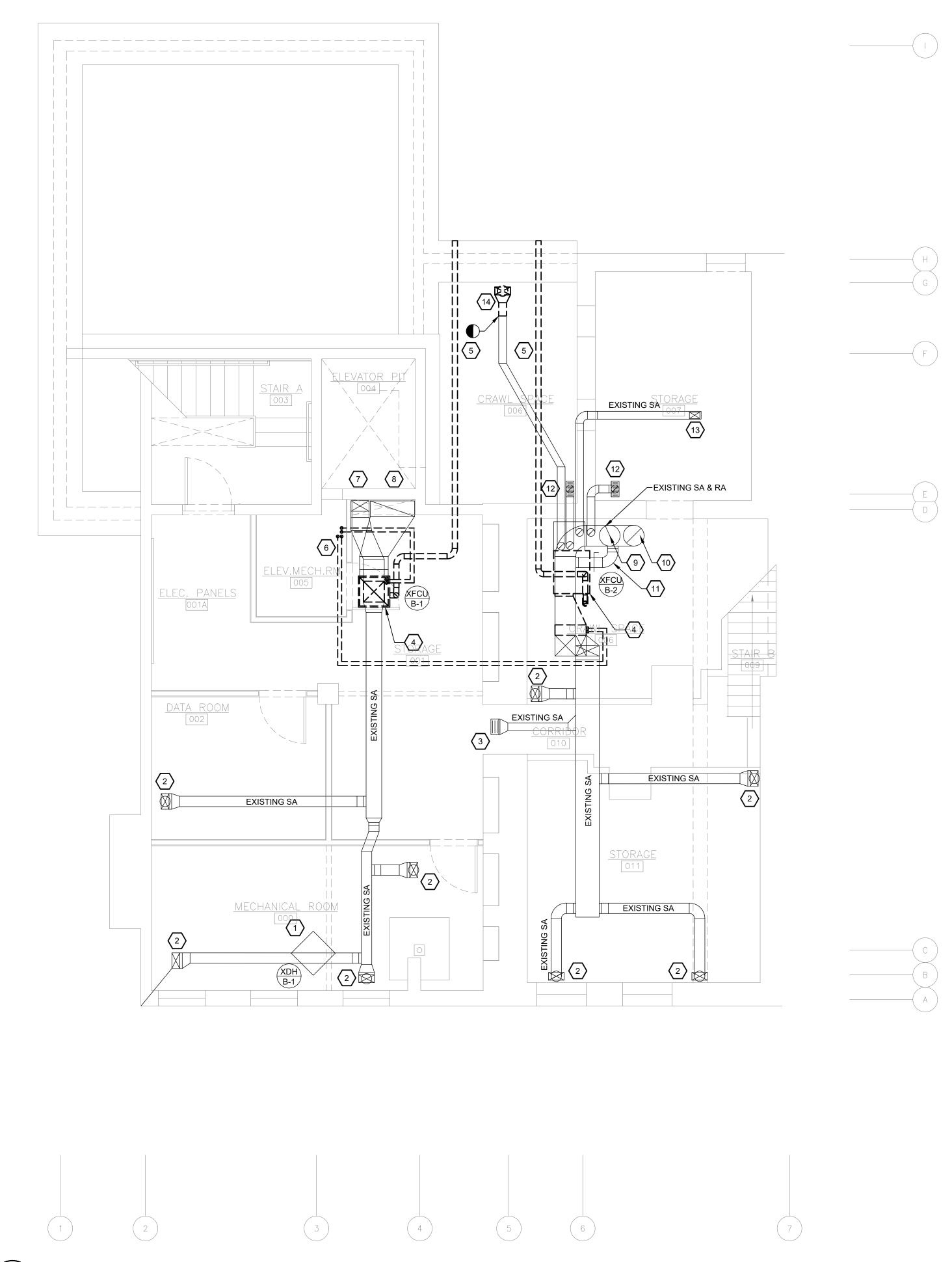
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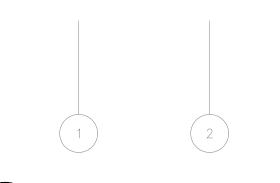


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### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER











BASEMENT MECHANICAL DEMOLITION PLAN

#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

#### MECHANICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

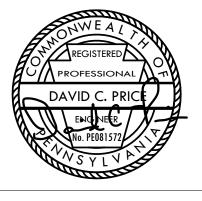
- 1. EXISTING PLUG-IN DEHUMIDIFIER AND ASSOCIATED APPURTENANCES TO REMAIN. VERIFY LOCATION IN FIELD.
- 2. EXISTING SUPPLY DUCT UP TO FLOOR REGISTER AT FLOOR ABOVE TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 3. EXISTING DUCT MOUNTED SUPPLY GRILLE, ASSOCIATED APPURTENANCES AND BRANCH TAP SHALL REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 4. EXISTING FURNACE, ASSOCIATED COOLING COIL, AND ASSOCIATED APPURTENANCES TO BE DEMOLISHED IN THEIR ENTIRETY. VERIFY SIZE AND LOCATION OF ALL EQUIPMENT AND APPURTENANCES IN FIELD.
- 5. FLUE PIPING ASSOCIATED WITH FURNACE SHALL BE DEMOLISHED IN ITS ENTIRETY. MC SHALL VERIFY ROUTING IN FIELD.
- 6. (2) SUCTION AND LIQUID REFRIGERANT LINESETS FROM ASSOCIATED FURNACES TO CONDENSING UNITS AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED IN THEIR ENTIRETY. VERIFY EXACT LOCATION AND ROUTING IN FIELD.
- 7. EXISTING SUPPLY DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 8. EXISTING RETURN DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 9. EXISTING SUPPLY DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 10. EXISTING RETURN DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 11. EXISTING BYPASS DAMPER AND ASSOCIATED APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 12. EXISTING SUPPLY DIFFUSER AND ASSOCIATED BRANCH DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 13. EXISTING SUPPLY DUCT UP TO WALL GRILLE AT FLOOR ABOVE TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 14. EXISTING SUPPLY DUCTWORK AND TRANSITION UP TO FLOOR GRILLE ABOVE TO BE DISCONNECTED FROM SUPPLY AIR DUCT AND DEMOLISHED.

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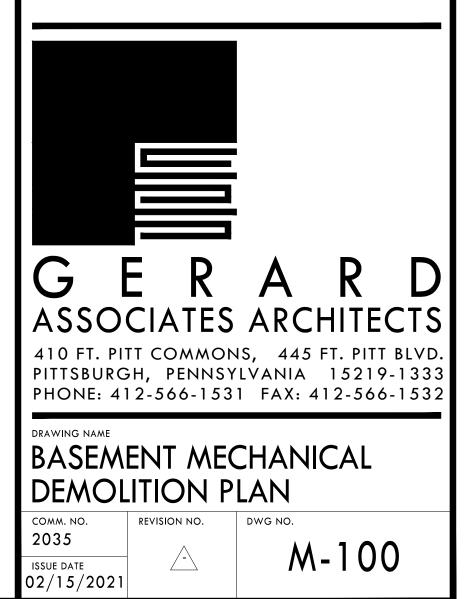
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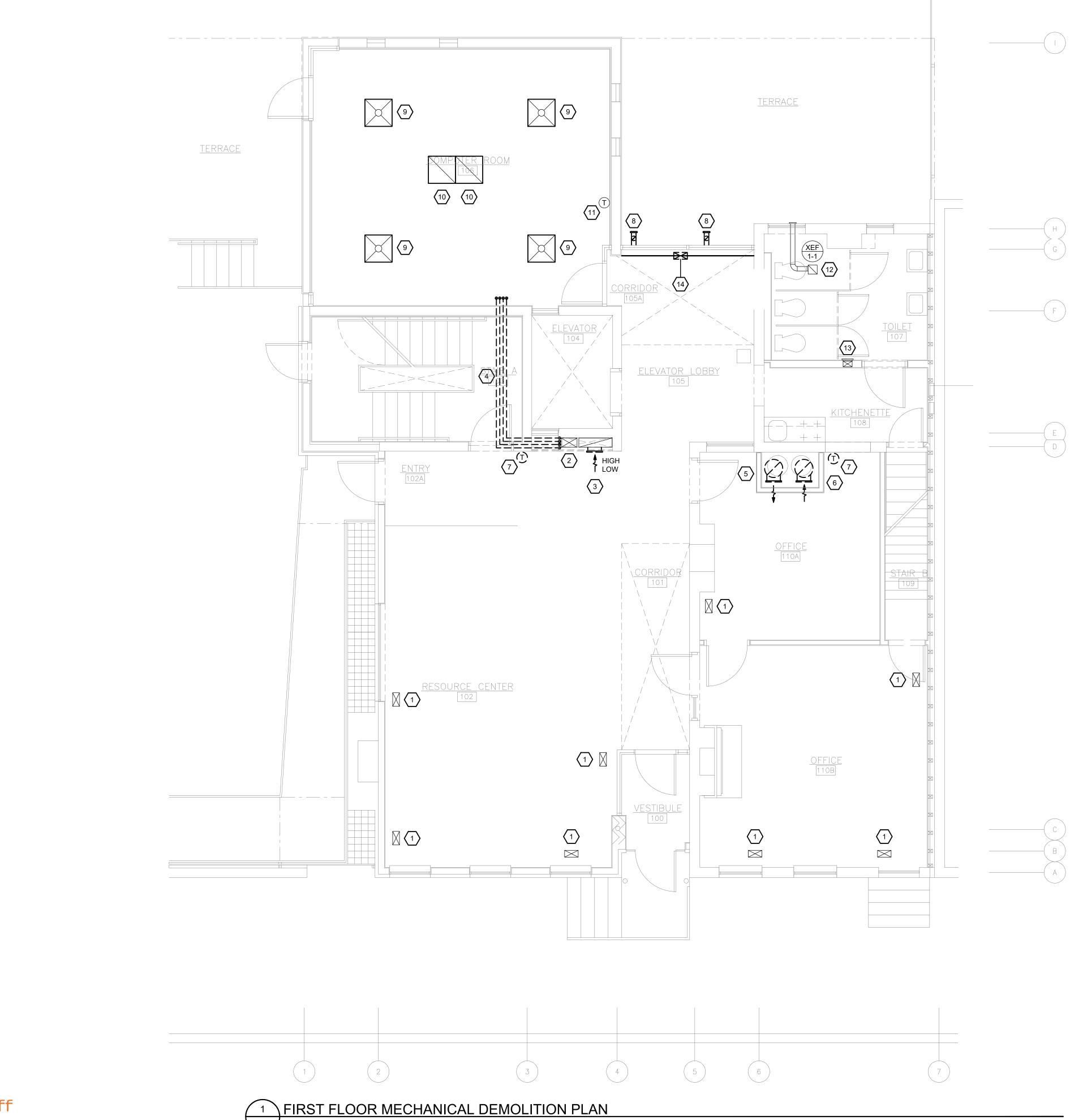
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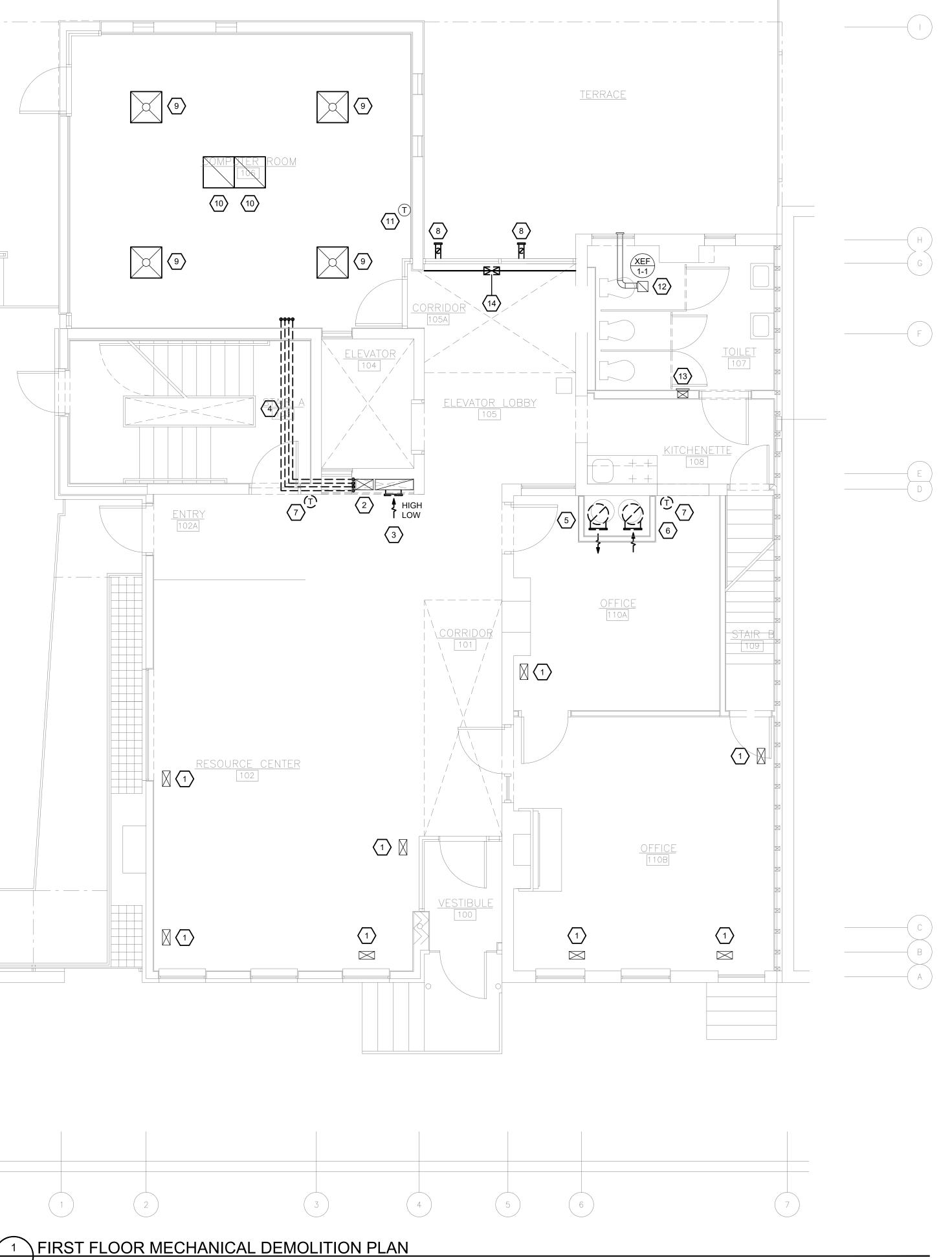


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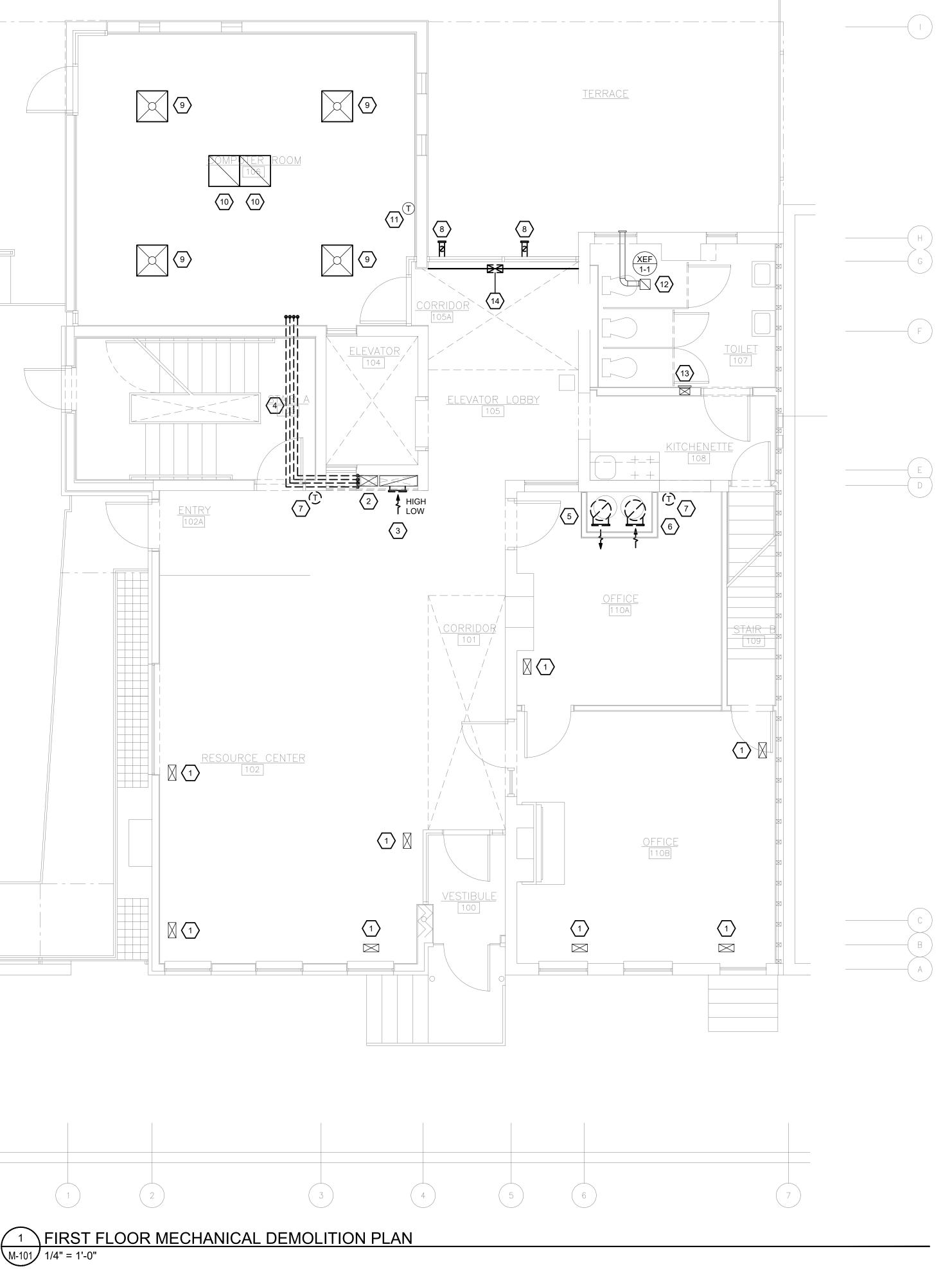
### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**











#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

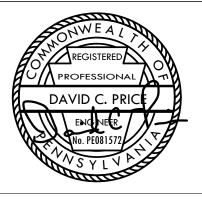
#### MECHANICAL DEMOLITION KEY NOTES: (#)

- 1. EXISTING SUPPLY FLOOR GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 2. EXISTING SUPPLY DUCT IN CHASE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 3. EXISTING RETURN DUCT IN CHASE TO REMAIN. RETURN GRILLES LOCATED HIGH AND LOW AT GYPSUM WALL SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH WALL TO MATCH EXISTING CONSTRUCTION AND EXISTING FIRE RATING AT GYPSUM WALL ENCLOSURE. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 4. (2) SUCTION AND LIQUID REFRIGERANT LINESETS FROM ASSOCIATED FURNACES TO CONDENSING UNITS AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED IN THEIR ENTIRETY. VERIFY EXACT LOCATION AND ROUTING IN FIELD.
- 5. EXISTING SUPPLY DUCT UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW TO BE DEMOLISHED. DUCT MOUNTED SUPPLY GRILLE AND BRANCH TAP AT THIS FLOOR SHALL BE DEMOLISHED. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 6. EXISTING RETURN DUCT UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW TO BE DEMOLISHED. DUCT MOUNTED RETURN GRILLE AND BRANCH TAP AT THIS FLOOR SHALL BE DEMOLISHED. MC SHALL REPLACE VERTICAL RETURN DUCT SECTION AT WHICH SUPPLY TAP WAS LOCATED IN KIND. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 7. EXISTING THERMOSTAT FOR FURNACE AND CONDENSING UNIT SYSTEM AND ALL ASSOCIATED CONTROL WIRING TO BE DEMOLISHED. MC SHALL VERIFY ROUTING OF CONTROL WIRING IN FIELD.
- 8. EXISTING FLUE AND TERMINATION SHALL BE DEMOLISHED IN ITS ENTIRETY. EXTERIOR WALL PENETRATION SHALL BE TEMPORARILY COVERED FOR FUTURE FLUE PIPING INSTALLATION. VERIFY EXACT LOCATION AND ROUTING IN FIELD.
- 9. EXISTING SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY LOCATION IN FIELD.
- 10. EXISTING RETURN GRILLE AND ASSOCIATED DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY LOCATION IN FIELD.
- 11. EXISTING THERMOSTAT FOR ROOFTOP UNIT AND ALL ASSOCIATED CONTROL WIRING TO BE REMAIN.
- 12. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND TERMINATION TO REMAIN. VERIFY LOCATION IN FIELD.
- 13. EXISTING WALL MOUNTED SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 14.MC SHALL DISCONNECT FLOOR GRILLE AND ASSOCIATED APPURTENANCES AND SHALL DEMOLISHED. VERIFY SIZE AND LOCATION OF DUCT IN FIELD. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING FLOOR CONSTRUCTION, MATERIAL AND FINISH.

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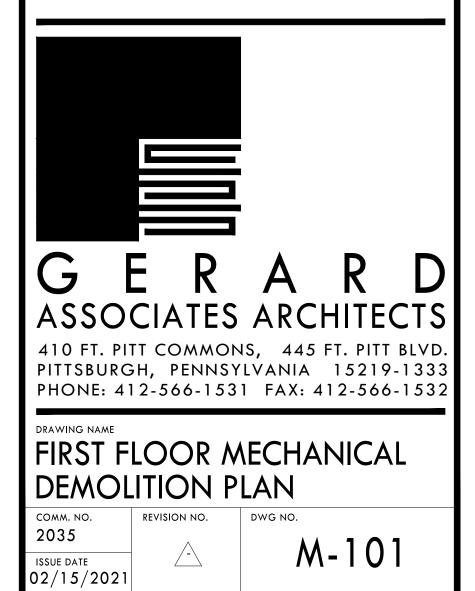
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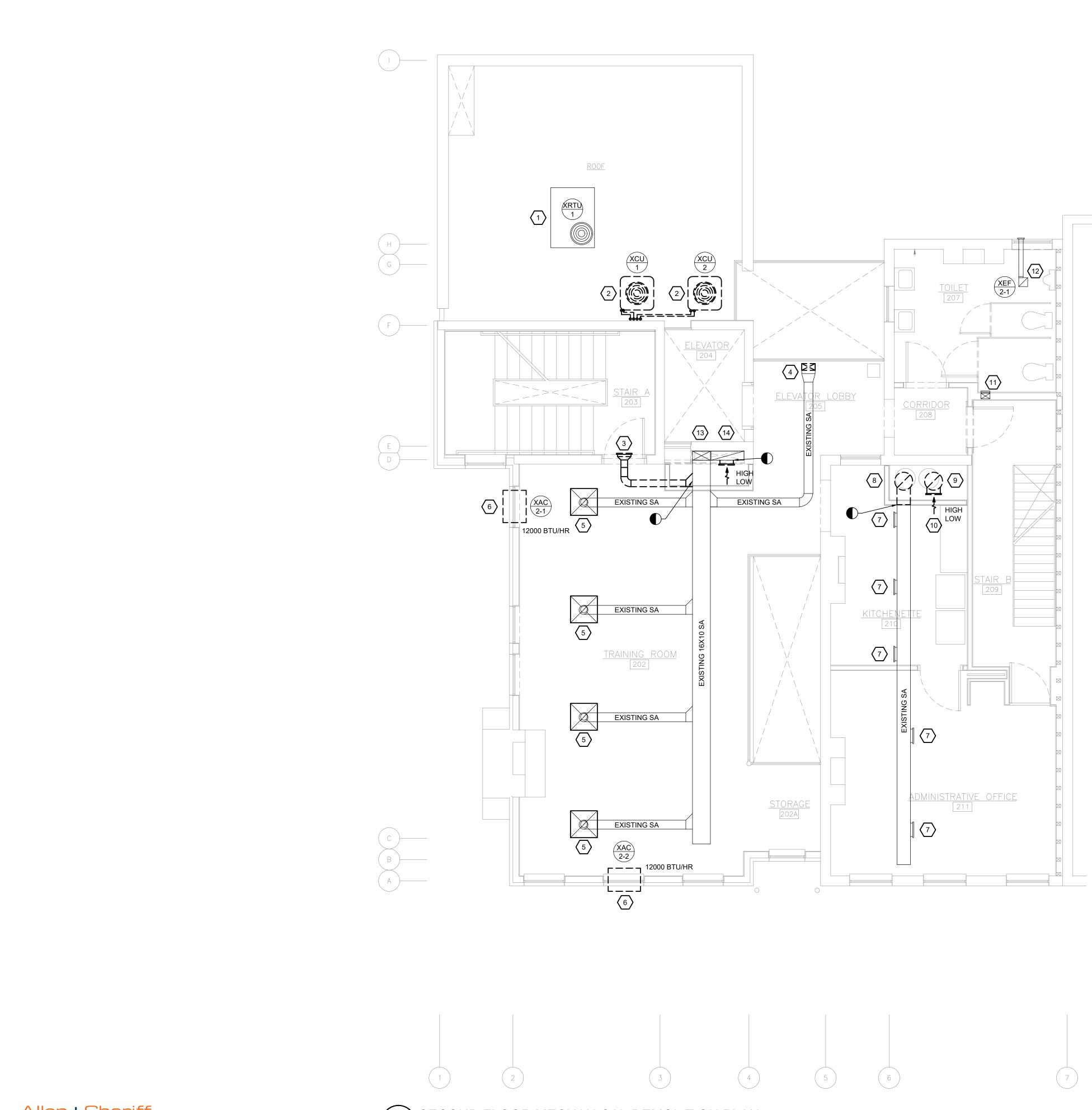
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### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





M-102 1/4" = 1'-0"





#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

#### MECHANICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

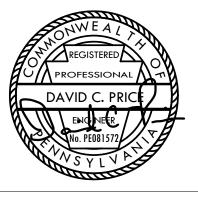
- 1. EXISTING ROOFTOP UNIT AND ALL ASSOCIATED APPURTENANCES TO REMAIN. VERIFY LOCATION AND SIZE IN FIELD.
- 2. EXISTING CONDENSING UNIT AND ALL ASSOCIATED APPURTENANCES BE DEMOLISHED. SUCTION AND LIQUID REFRIGERANT LINESETS FROM EACH CONDENSING UNIT TO BE DEMOLISHED. MC SHALL PATCH ROOF TO MATCH EXISTING CONSTRUCTION. VERIFY SIZE, LOCATION AND ROUTING OF REFRIGERANT IN FIELD.
- 3. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY BRANCH DUCTWORK SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH STAIRWELL PENETRATION SUCH THAT FIRE RATING OF STAIRWELL IS MAINTAINED. VERIFY SIZE AND LOCATION OF DIFFUSER AND WALL PENETRATION IN FIELD.
- 4. EXISTING SUPPLY BRANCH DUCTWORK ASSOCIATED WITH SUPPLY FLOOR GRILLE AT FLOOR ABOVE TO BE DISCONNECTED FROM FLOOR GRILLE. VERIFY SIZE AND LOCATION IN FIELD.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED FLEXIBLE DUCT CONNECTION TO BE RELOCATED IN ACOUSTIC TILE CEILING. VERIFY LOCATION OF DIFFUSER IN FIELD.
- 6. EXISTING COOLING ONLY PTAC UNIT SHALL BE REMOVED FROM WINDOW AND RETURNED INTACT AND FULLY OPERATIONAL TO BUILDING OWNER.
- 7. EXISTING DUCT MOUNTED DIFFUSER TO REMAIN. VERIFY LOCATION IN FIELD.
- 8. EXISTING VERTICAL SUPPLY DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE TO BE DEMOLISHED. BRANCH DUCTWORK SHALL BE DEMOLISHED TO POINT INDICATED ON DRAWINGS. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 9. EXISTING VERTICAL RETURN DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE AND ASSOCIATED RETURN GRILLES AT THIS FLOOR TO BE DEMOLISHED. VERIFY EXACT LOCATION IN FIELD. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 10. EXISTING DUCT MOUNTED RETURN GRILLE HIGH AND LOW TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 11. EXISTING SUPPLY GRILLE AND ASSOCIATED DUCTWORK IN WALL TO REMAIN. VERIFY LOCATION IN FIELD.
- 12. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND TERMINATION TO REMAIN. VERIFY LOCATION IN FIELD.
- 13. EXISTING VERTICAL SUPPLY DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE TO REMAIN. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 14. EXISTING VERTICAL RETURN DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE TO REMAIN. RETURN GRILLES LOCATED HIGH AND LOW AT GYPSUM WALL SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH WALL TO MATCH EXISTING CONSTRUCTION AND

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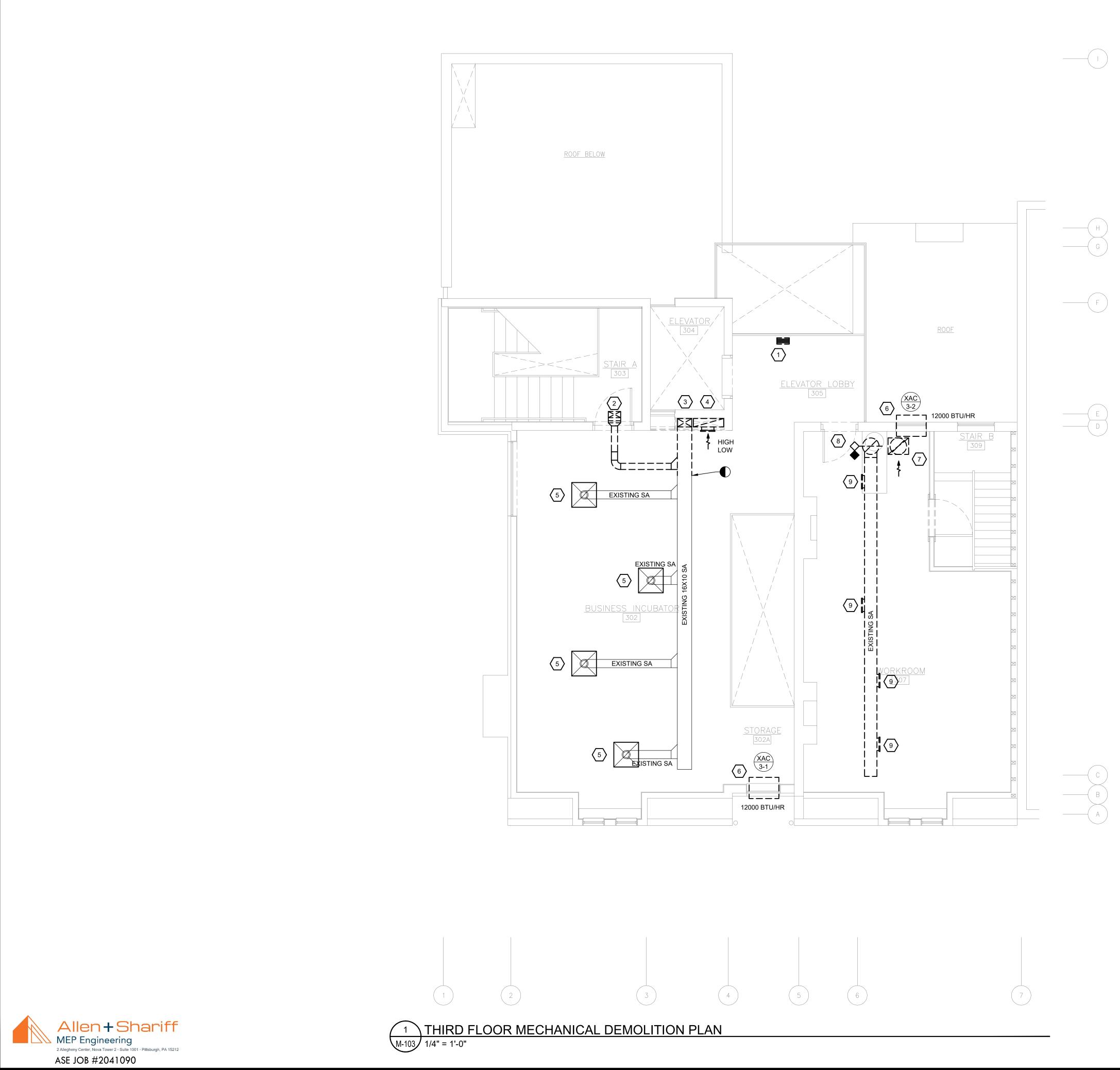
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### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER





#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

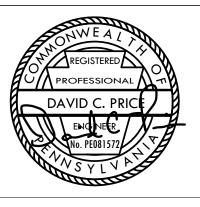
#### MECHANICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

- 1. EXISTING FLOOR GRILLE TO BE DEMOLISHED. MC SHALL VERIFY SIZE AND LOCATION IN FIELD. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING CONSTRUCTION AND FINISH.
- 2. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY BRANCH DUCTWORK SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH STAIRWELL PENETRATION SUCH THAT FIRE RATING OF STAIRWELL IS MAINTAINED. VERIFY SIZE AND LOCATION OF DIFFUSER AND WALL PENETRATION IN FIELD.
- 3. EXISTING SUPPLY AIR DUCTWORK IN CHASE SHALL BE DISCONNECTED FROM EXISTING 16"X10" SA DUCT TRUNK AND DEMOLISHED DOWN TO FLOOR LEVEL AT THIRD FLOOR. VERTICAL DUCT RISER SHALL BE CAPPED AT THIRD FLOOR AND MC SHALL COORDINATE WITH GC TO PROVIDE PATCHING OF WALL ENCLOSURE. VERIFY SIZE AND LOCATION OF EXISTING SUPPLY DUCT IN FIELD.
- 4. EXISTING RETURN AIR DUCTWORK IN CHASE SHALL BE DISCONNECTED FROM EXISTING HIGH AND LOW RETURN GRILLES AT WALL AND DEMOLISHED DOWN TO FLOOR LEVEL AT THIRD FLOOR. VERTICAL DUCT RISER SHALL BE CAPPED AT THIRD FLOOR AND MC SHALL COORDINATE WITH GC TO PROVIDE PATCHING OF WALL ENCLOSURE. VERIFY SIZE AND LOCATION OF EXISTING RETURN DUCT IN FIELD.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED FLEXIBLE DUCT CONNECTION TO BE RELOCATED IN ACOUSTIC TILE CEILING. VERIFY LOCATION OF DIFFUSER IN FIELD.
- 6. EXISTING COOLING ONLY PTAC UNIT SHALL BE REMOVED FROM WINDOW AND RETURNED INTACT AND FULLY OPERATIONAL TO BUILDING OWNER.
- 7. EXISTING VERTICAL RETURN DUCTWORK AND ASSOCIATED FLOOR GRILLE SHALL BE DEMOLISHED DOWN TO AND CAPPED AT FLOOR LEVEL. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING CONSTRUCTION AND FINISH. VERIFY EXACT LOCATION IN FIELD. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 8. EXISTING VERTICAL SUPPLY DUCTWORK SHALL BE DEMOLISHED DOWN TO AND CAPPED AT FLOOR LEVEL. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING CONSTRUCTION AND FINISH. VERIFY EXACT LOCATION IN FIELD. VERIFY EXACT LOCATION AND SIZE IN FIELD..
- 9. EXISTING DUCT MOUNTED DIFFUSER AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED. VERIFY LOCATION IN FIELD.

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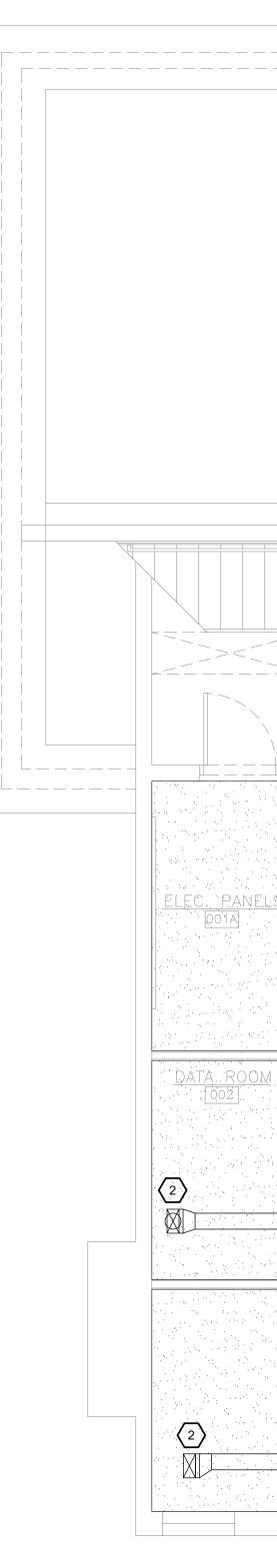
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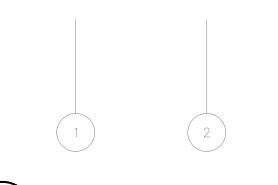


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**

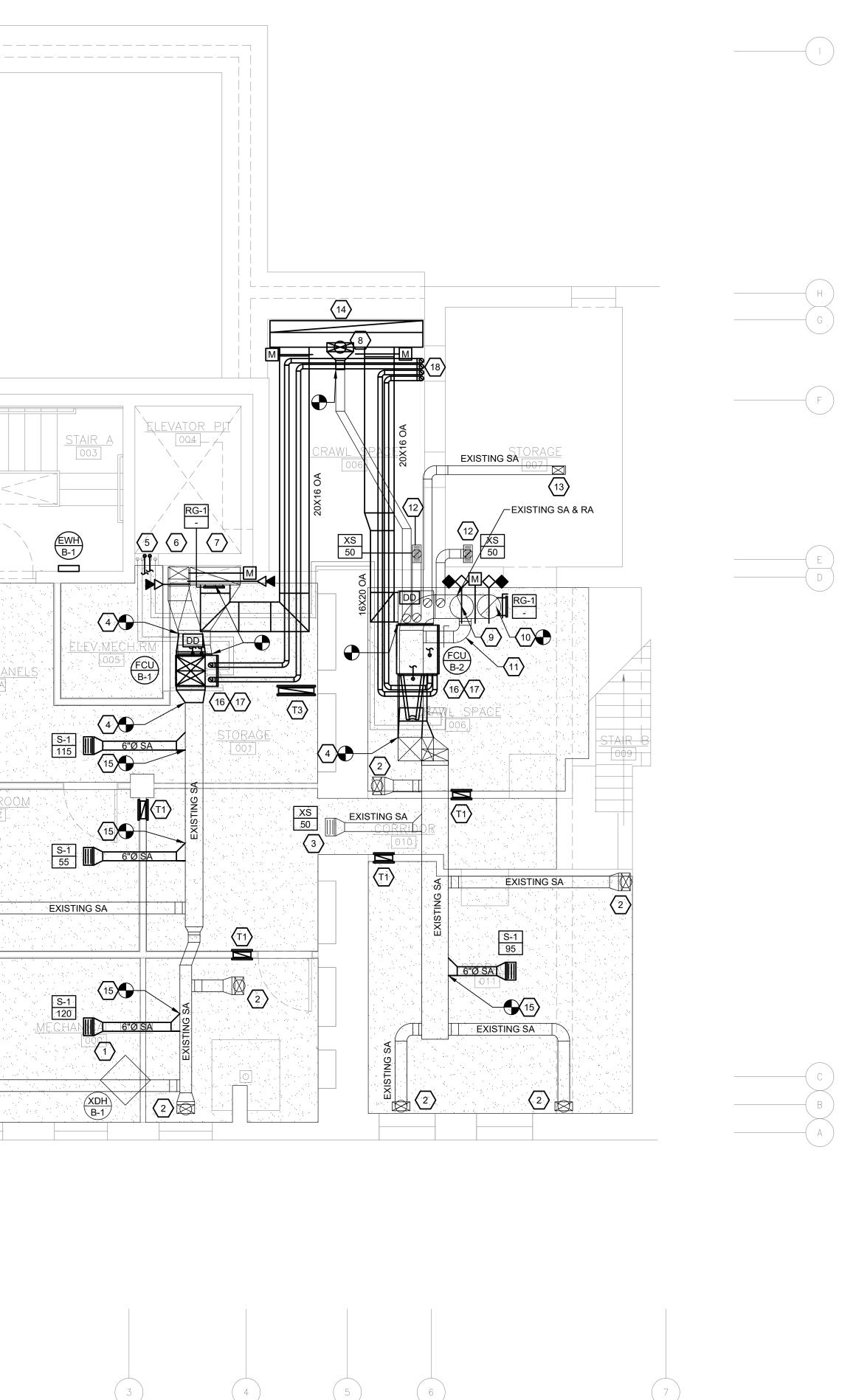












#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MECHANICAL EQUIPMENT AND/OR CONTROL DEVICES IN CRAWL SPACE SHALL BE INSTALLED SUCH THAT THEY CAN BE ACCESSED FOR PROPER SERVICE AND MAINTENANCE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS AND IMC 2015 ACCESS REQUIREMENTS.
- 6. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 7. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 8. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 9. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

MECHANICAL KEY NOTES: (#)

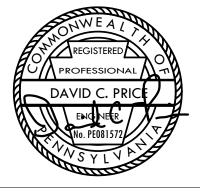
- 1. EXISTING PLUG IN DEHUMIDIFIER TO REMAIN.
- 2. EXISTING BRANCH DUCTWORK AND TRANSITION UP TO FLOOR GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 3. EXISTING DUCTWORK AND CEILING SUPPLY GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 4. NEW SUPPLY AIR DUCTWORK CONNECTS TO EXISTING SUPPLY AIR MAIN. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION.
- 5. (2) SETS OF SUCTION AND LIQUID REFRIGERANT PIPING LINESETS UP IN CHASE TO FLOOR ABOVE. (2) 3/4 CONDENSATE DRAINS FROM FLOOR ABOVE SHALL BE ROUTED TO EXISTING FLOOR DRAIN IN MECHANICAL ROOM. COORDINATE ROUTING IN FIELD.
- 6. EXISTING SUPPLY DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF SUPPLY DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 7. EXISTING RETURN DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF RETURN DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 8. NEW SUPPLY DUCTWORK CONNECTS TO EXISTING DUCTWORK IN CRAWL SPACE. NEW DUCTWORK CONNECTS TO SUPPLY PLENUM BOX. MAKE TRANSITIONS AS NECESSARY. NEW SUPPLY FLOOR GRILLE SHALL BE INSTALLED AT FLOOR ABOVE.
- 9. EXISTING ROUND SUPPLY DUCTWORK UP IN RATED CHASE TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF RETURN DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 10. EXISTING ROUND RETURN DUCTWORK UP IN RATED CHASE TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF RETURN DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 11. EXISTING BYPASS DAMPER AND DUCTWORK TO REMAIN. VERIFY EXACT SIZE AND LOCATION IN FIELD.
- 12. EXISTING SUPPLY AIR GRILLE AND ASSOCIATED DUCTWORK SERVING BASEMENT TO REMAIN. VERIFY EXACT SIZE AND LOCATION IN FIELD.
- 13. EXISTING SUPPLY UP THROUGH BATHROOM WALL ABOVE TO REMAIN.
- 14.NEW 104" X8" OUTSIDE AIR DUCT UP TO FLOOR ABOVE. 104"X8" TRANSITIONS VERTICALLY TO 104"X18" IN CRAWL SPACE. (2) 20"X16" OA DUCTWORK CONNECTS TO 104"X18" DUCTWORK. PROVIDE MOTORIZED CONTROL DAMPER AT EACH CONNECTION.
- 15.NEW SUPPLY DUCT CONNECTS TO EXISTING SUPPLY MAIN ABOVE CEILING. VERIFY EXACT LOCATION AND SIZE OF EXISTING DUCTWORK IN FIELD.
- 16.NEW FURNACE SHALL BE INSTALLED ON NEW 4" CONCRETE HOUSEKEEPING PAD WITH NEOPRENE GASKET VIBRATION ISOLATION PADS.
- 17.(2) 3/4" CONDENSATE DRAINS SHALL BE ROUTED TO EXISTING FLOOR DRAIN IN MECHANICAL ROOM. COORDINATE ROUTING IN FIELD. FURNACE SHALL BE INSTALLED WITH DRAIN PAN WITH DRAIN PAN WATER LEVEL SENSOR ALARM SUCH THAT FURNACE SHALL DE-ENERGIZE UPON ALARM ACTIVATION.
- 18.(2) SETS OF 3" COMBUSTION AIR AND VENT FLUE PIPING UP ALONG MASONRY WALL TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD.

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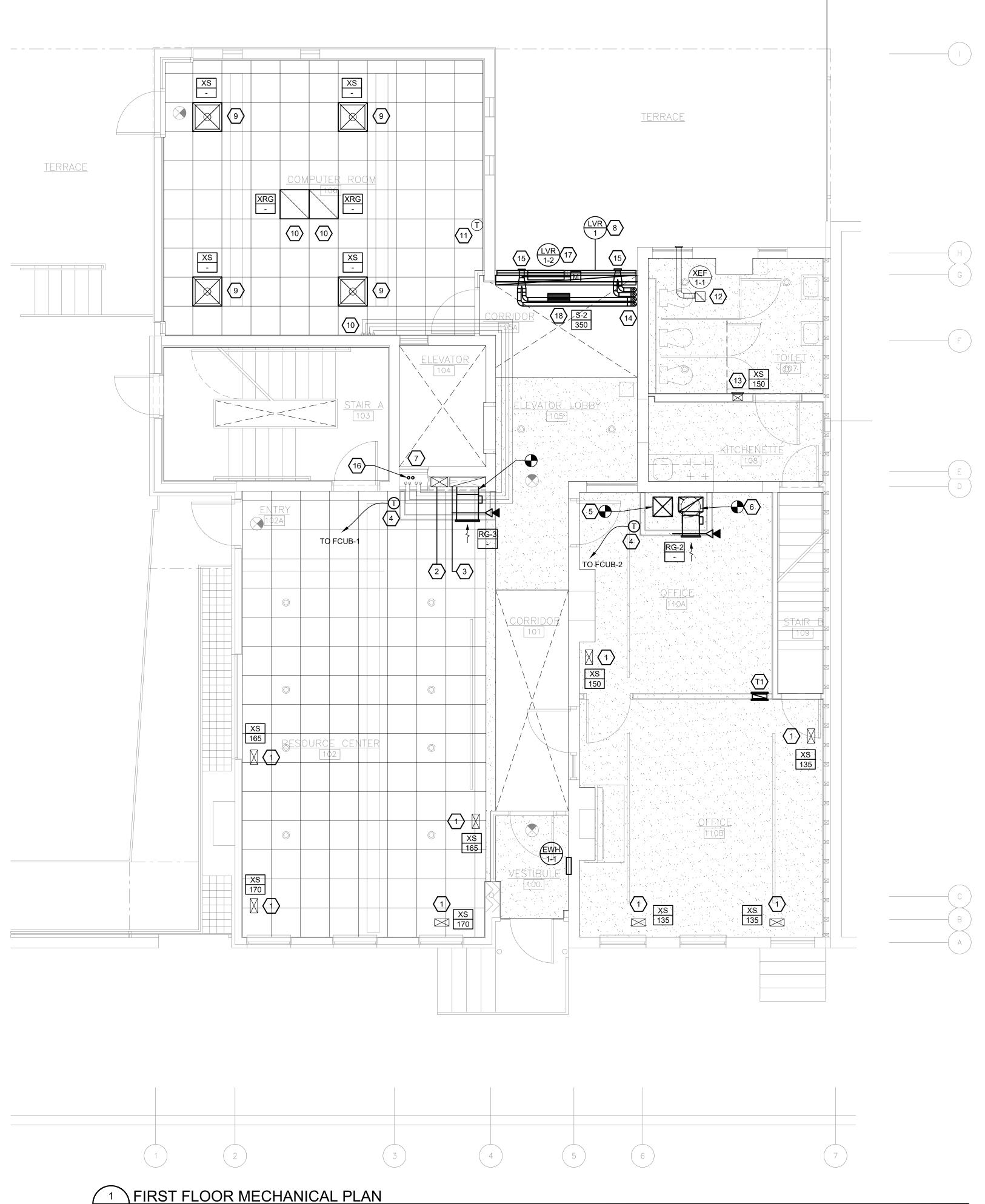
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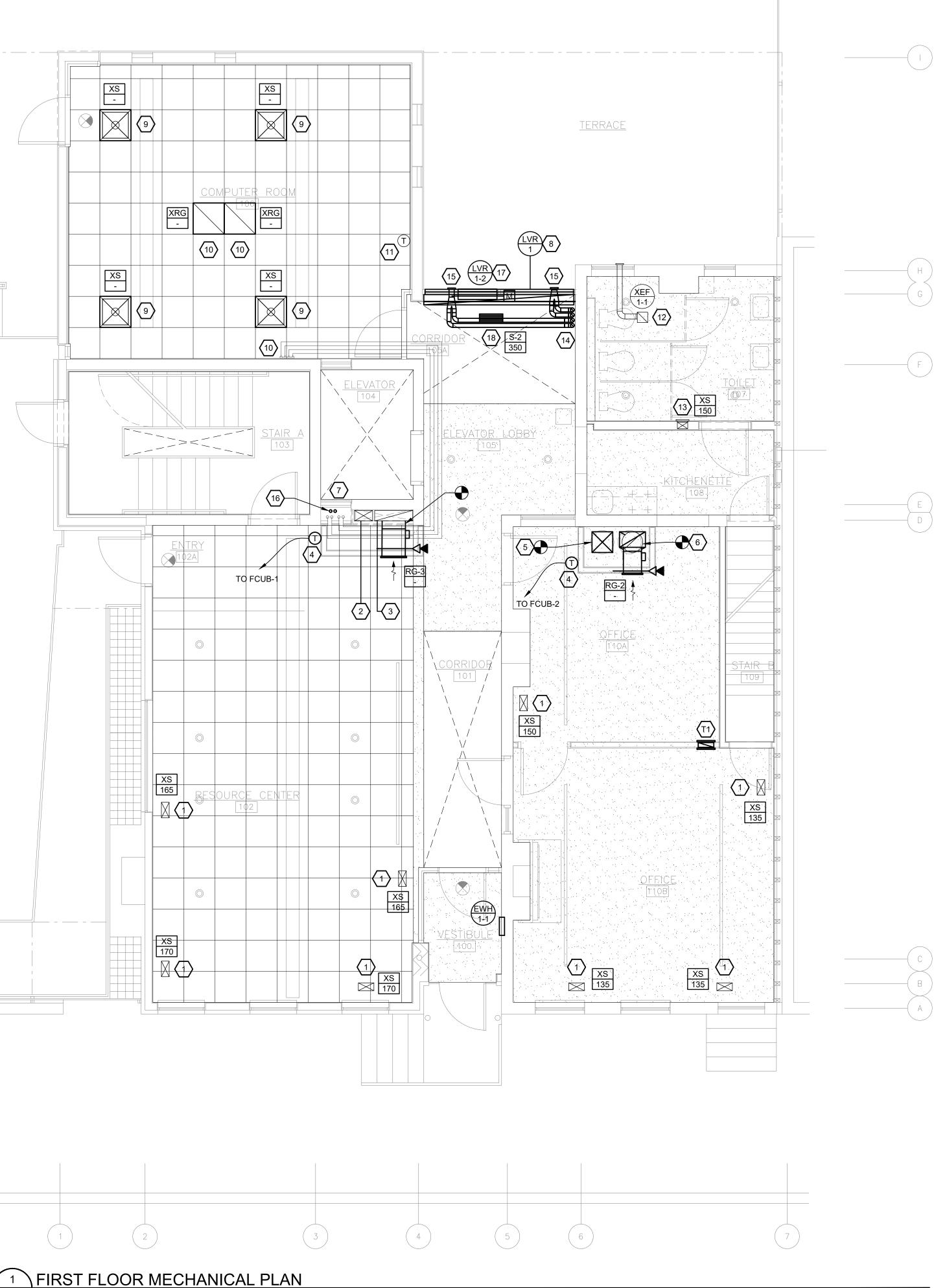


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**









M-201 1/4" = 1'-0"

#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 6. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 7. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 8. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

MECHANICAL KEY NOTES: (#)

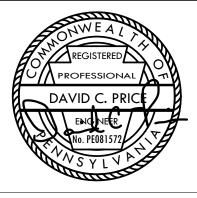
- 1. EXISTING SUPPLY FLOOR GRILLE AND ASSOCIATED DUCTWORK BELOW TO REMAIN. VERIFY LOCATION IN FIELD.
- 2. EXISTING SUPPLY DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW.
- 3. EXISTING RETURN DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW. MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL.
- 4. NEW PROGRAMMABLE 7 DAY THERMOSTAT SHALL BE INSTALLED 44" ABOVE FINISHED FLOOR AT CHASE WALL.
- 5. EXISTING ROUND SUPPLY AIR DUCTWORK IN NEW RATED CHASE DN TO FLOOR BELOW. ROUND SUPPLY DUCTWORK TRANSITIONS AND CONNECTS TO NEW 16"X16" AT FLOOR OPENING. 16"X16" SA UP IN CHASE TO FLOOR ABOVE.
- 6. EXISTING ROUND RETURN DUCT DN IN NEW RATED CHASE DOWN TO FLOOR BELOW. ROUND RETURN DUCTWORK TRANSITIONS AND CONNECTS TO NEW 12"X20" RETURN DUCT AT FLOOR OPENING. NEW MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL
- 7. (2) SETS OF SUCTION AND LIQUID REFRIGERANT PIPING LINESETS DOWN IN CHASE TO FLOOR BELOW. REFRIGERANT LINESET SHALL BE ROUTED CHASE AND ABOVE CEILING TO COORDINATE ROUTING IN FIELD.
- 8. NEW LOUVER LVR-1 SHALL BE INSTALLED IN LOWER SECTION OF EXISTING STOREFRONT WINDOW. FINAL SIZE OF LOUVER SHALL BE COORDINATED TO MATCH DIMENSIONS OF EXISTING LOWER SECTION OF STOREFRONT WINDOW. LOUVER CONNECTS TO 120"X8" FRESH AIR DUCTWORK LOCATED WITHIN NEW WINDOW SEAT AND SHALL BE ROUTED DOWN TO FLOOR BELOW.
- 9. EXISTING SUPPLY GRILLE TO REMAIN. VERIFY LOCATION IN FIELD.
- 10. EXISTING RETURN GRILLE TO REMAIN. VERIFY LOCATION IN FIELD.
- 11. EXISTING THERMOSTAT TO REMAIN.
- 12. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND TERMINATIONS TO REMAIN. VERIFY LOCATION IN FIELD.
- 13. EXISTING SUPPLY AIR DUCT IN WALL DN TO FLOOR BELOW AND UP TO FLOOR ABOVE. EXISTING SUPPLY AIR GRILLE IN WALL TO REMAIN. VERIFY SIZE AND LOCATION OF GRILLE AND DUCTWORK IN FIELD.
- 14.(2) SETS OF 3" COMBUSTION AIR AND VENT FLUE PIPING UP ALONG MASONRY WALL TO CEILING LEVEL. 14.(2) SETS OF 3" COMBUSTION AIR AND VENT FLUE PIPING DN ALONG MASONRY WALL TO FLOOR BELOW. COORDINATE ROUTING IN FIELD.
- 15.3" COMBUSTION AIR AND VENT FLUE PIPING TERMINATES AT EXTERIOR WALL VIA 4" CONCENTRIC VENT TERMINATION. INSTALL TERMINATION PER THE MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS.
- 16.(2) 3/4" CONDENSATE DRAINS SHALL BE ROUTED DN IN CHASE TO FLOOR BELOW AND UP TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD. COORDINATE ROUTING IN FIELD.
- 17. RELIEF AIR LOUVER 1-2 SHALL BE INSTALLED NO LESS THAN 3 FEET ABOVE TOP OF LOUVER 1-1. PROVIDE MOTORIZED DAMPER AT LOUVER AND PROVIDE BIRDSCREEN AT DUCT OPENING TO OCCUPIED SPACE.
- 18.NEW SUPPLY FLOOR GRILLE SHALL BE INSTALLED IN THIS LOCATION.

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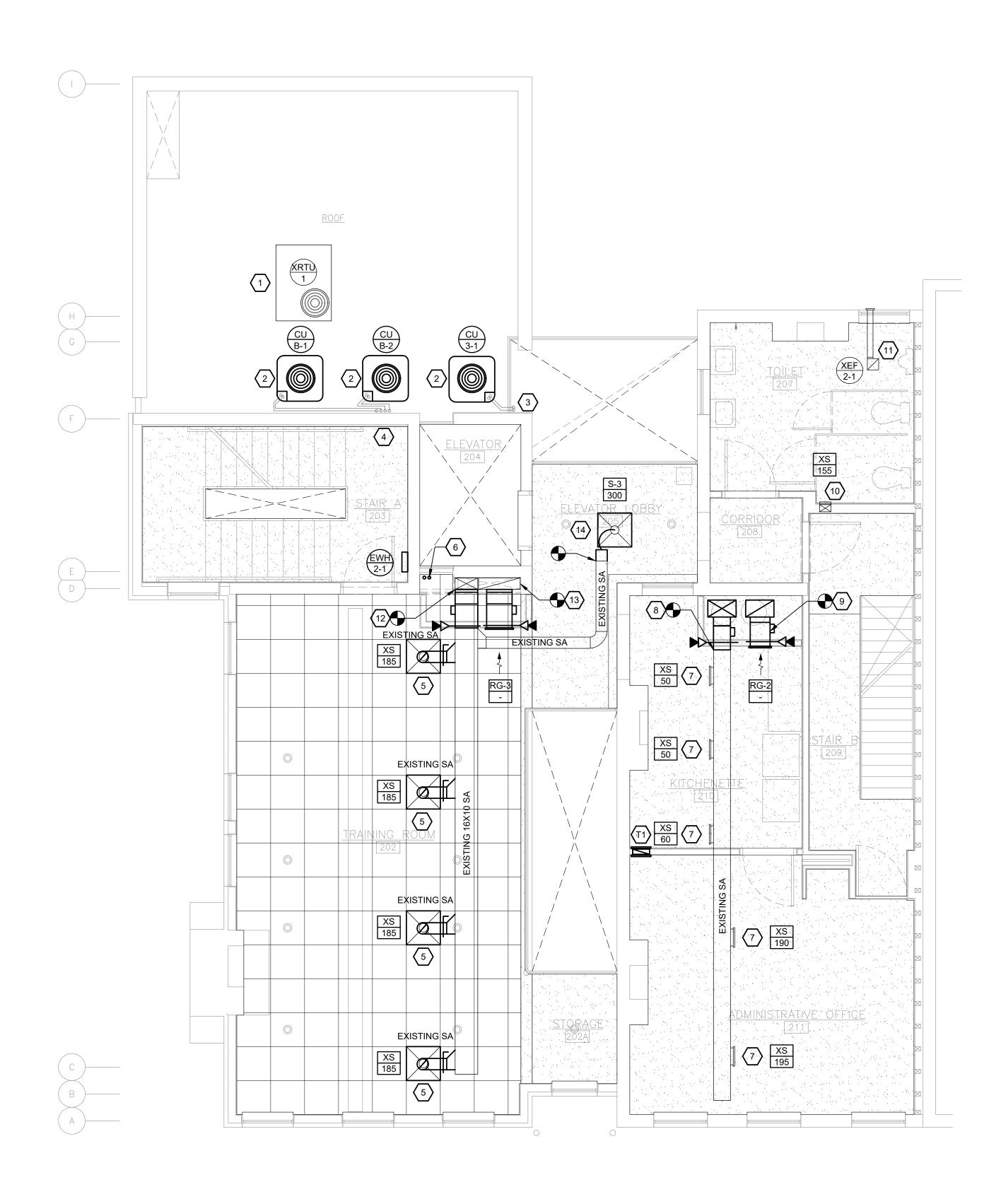
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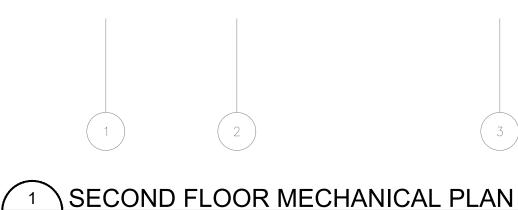


**PROPERTY REHABILITATION FOR:** 

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**







M-202 1/4" = 1'-0"



#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 6. MC SHALL PROVIDE AND INSTALL SERVICE RAILING FOR ALL MECHANICAL EQUIPMENT ON ROOF LOCATED WITHIN 10 FEET OF ROOF EDGE UNLESS ROOF PARAPET IS GREATER THAN 42" TALL. SERVICE RAILING SHALL BE INSTALLED IN ACCORDANCE WITH IMC, IBC, AND OSHA CODES AND STANDARDS.
- 7. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 8. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 9. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

#### MECHANICAL KEY NOTES: (#)

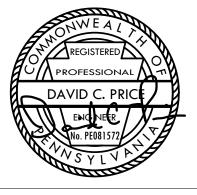
- 1. EXISTING ROOFTOP UNIT AND ASSOCIATED APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 2. NEW CONDENSING UNIT SHALL BE INSTALLED ON 6" CONCRETE PAD WITH CONDENSING UNIT STANDS AND VIBRATION ISOLATION PADS.
- 3. SUCTION AND LIQUID REFRIGERANT LINESET SHALL BE ROUTED THROUGH EXTERIOR WALL AND UP TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD.
- 4. (2) SETS OF REFRIGERANT SUCTION AND LIQUID LINESETS SHALL BE ROUTED DOWN TO FLOOR BELOW. PROVIDE INSULATED 12" HIGH ROOF CURB WITH PIPE PORTALS AT ROOF PENETRATION.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY DUCTWORK SHALL BE RELOCATED TO THIS LOCATION. COORDINATE ROUTING IN FIELD.
- 6. (2) 3/4" CONDENSATE DRAIN PIPING DOWN IN CHASE TO FLOOR BÉLOW AND UP IN CHASE TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD.
- 7. EXISTING SUPPLY GRILLE AND ASSOCIATED BRANCH DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 8. 16"X12" SUPPLY AIR DUCTWORK DN IN CHASE TO FLOOR BELOW. 12" ROUND BRANCH TAP SHALL BE ROUTED TO AND SHALL CONNECT TO EXISTING SUPPLY AIR DUCTWORK. MC SHALL MAKE TRANSITIONS AS NECESSARY. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.
- 9. 12"X20" RETURN DUCT DN IN NEW RATED CHASE DOWN TO FLOOR BELOW. NEW MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL.
- 10. EXISTING SUPPLY AIR DUCT IN WALL DOWN TO FLOOR BELOW AND WALL SUPPLY GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 11. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, APPURTENANCES, AND TERMINATION TO REMAIN. VERIFY SIZE AND LOCATION OF FAN AND DUCTWORK IN FIELD.
- 12. EXISTING SUPPLY AIR DUCTWORK DN IN CHASE TO FLOOR BELOW. 16"X10" BRANCH TAP SHALL BE ROUTED TO AND SHALL CONNECT TO EXISTING SUPPLY AIR DUCTWORK. MC SHALL MAKE TRANSITIONS AS NECESSARY. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.
- 13. EXISTING RETURN DUCT DN IN NEW RATED CHASE DOWN TO FLOOR BELOW. NEW MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL.
- 14.NEW SUPPLY AIR DIFFUSER AND ASSOCIATED BRANCH DUCTWORK SHALL CONNECT TO EXISTING BRANCH DUCTWORK. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.

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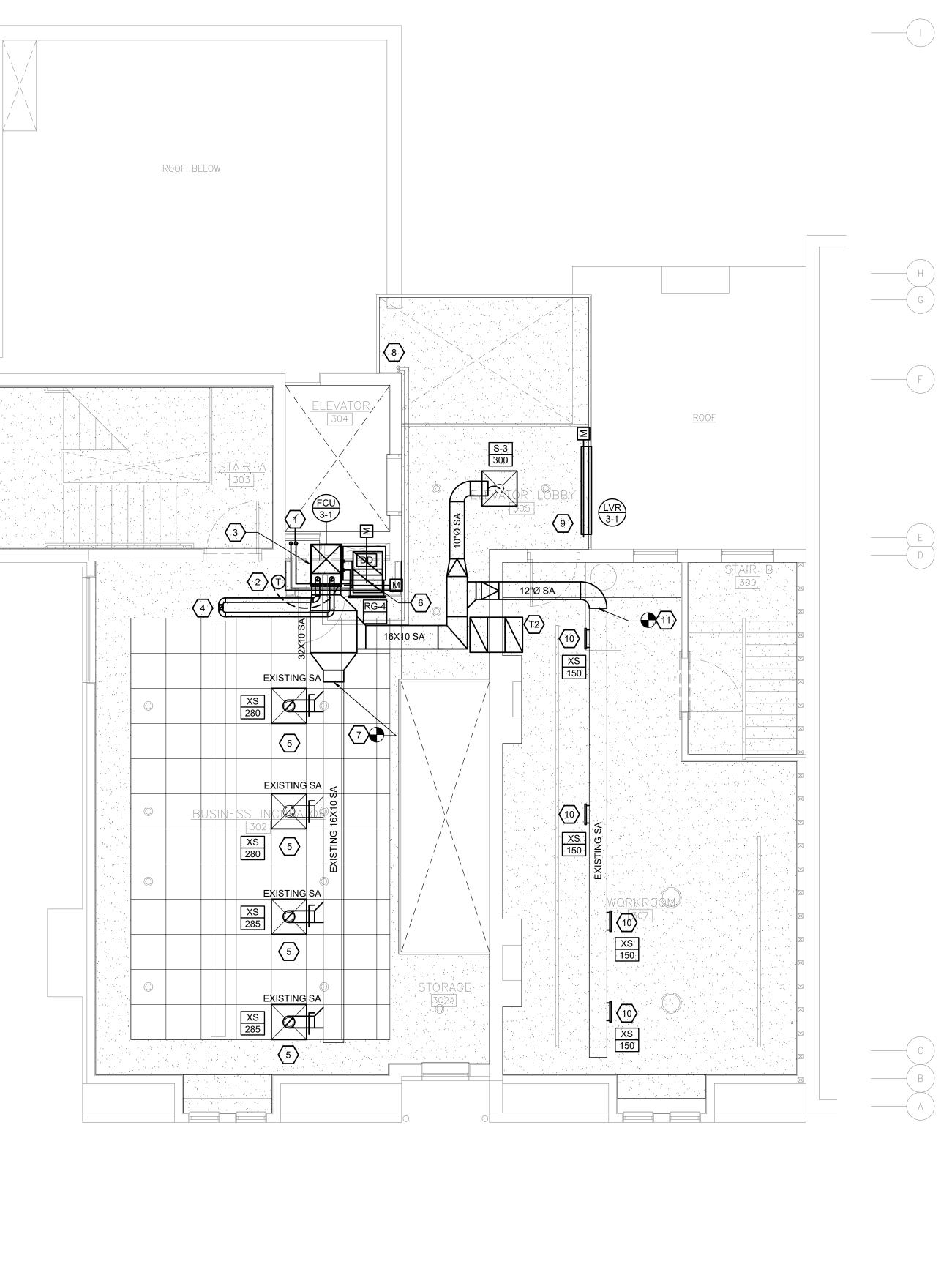
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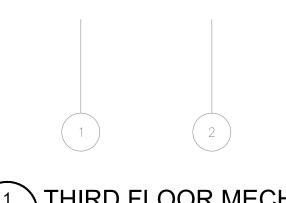


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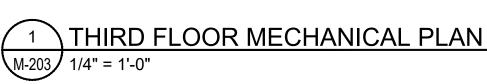
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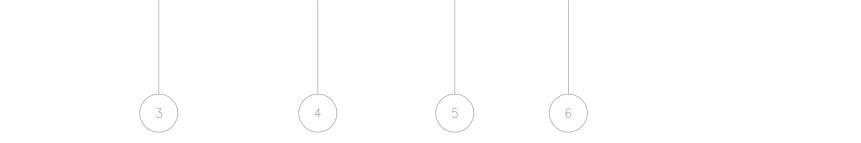












#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 6. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 7. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 8. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

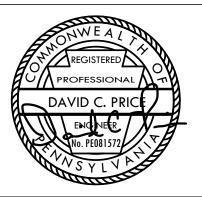
### <u>MECHANICAL KEY NOTES:</u> $\langle \# \rangle$

- 1. (2) 3/4" CONDENSATE DRAIN PIPING DOWN IN CHASE TO FLOOR BELOW. COORDINATE ROUTING IN FIELD.
- 2. NEW PROGRAMMABLE 7 DAY THERMOSTAT SHALL BE INSTALLED 44" ABOVE FINISHED FLOOR AT CHASE WALL.
- 3. NEW FURNACE SHALL BE INSTALLED ON NEW 4" CONCRETE HOUSEKEEPING PAD WITH NEOPRENE GASKET VIBRATION ISOLATION PADS.
- 4. 3" COMBUSTION AIR PIPING AND FLUE PIPING SHALL BE ROUTED UP TO CONCENTRIC VENT TERMINATION AT ROOF ABOVE. COORDINATE ROUTING IN FIELD.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY DUCTWORK SHALL BE RELOCATED TO THIS LOCATION. COORDINATE ROUTING IN FIELD.
- 6. 20"x20" RETURN AIR DUCT TRANSITIONS UP TO GRAVITY INTAKE VENTILATOR AT ROOF ABOVE. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION.
- 7. NEW SUPPLY AIR DUCTWORK SHALL CONNECT TO EXISTING SUPPLY MAIN DUCTWORK. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.
- 8. (1) SET OF SUCTION AND LIQUID REFRIGERANT PIPING SHALL BE ROUTED DOWN TO FLOOR BELOW. COORDINATE ROUTING IN FIELD.
- 9. 60"x24" POTTORFF EFD-245 RELIEF AIR LOUVER SHALL BE INSTALLED AT EXTERIOR WALL. MC SHALL PROVIDE MOTORIZED CONTROL DAMPER AND BIRDSCREEN AT LOUVER.
- 10. EXISTING SUPPLY GRILLE AND ASSOCIATED BRANCH DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 11. NEW SUPPLY AIR DUCTWORK SHALL CONNECT TO EXISTING SUPPLY MAIN DUCTWORK. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.

### FOR CONSTRUCTION

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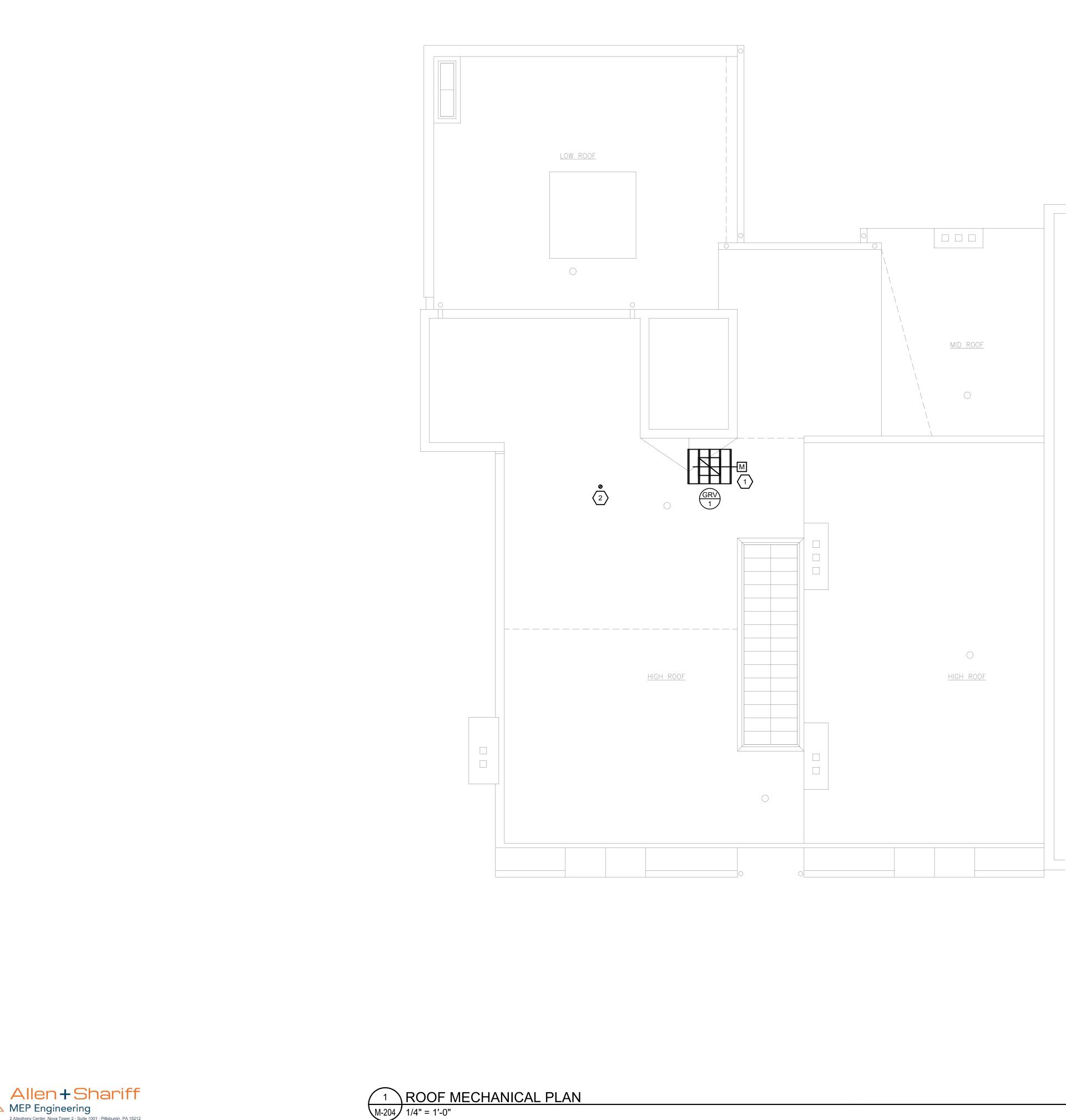
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





2 Allegheny Center, Nova Tower 2 º Suite 1001 º Pittsburgh, PA 15212 ASE JOB #2041090

#### MECHANICAL GENERAL NOTES:

- 1. NO EQUIPMENT OR CONTROL DEVICES SHALL BE SERVICED OR ACCESSED VIA ROOF.
- 2. MECHANICAL TERMINATIONS AT ROOF SHALL BE EQUIPPED WITH A 14" HIGH MINIMUM ROOF CURB. ROOF CURB SHALL BE CANTED AS NECESSARY TO COORDINATE WITH ROOF PITCH.
- 3. MECHANICAL FRESH AIR INTAKES SHALL BE LOCATED NO LESS THAN 10 FEET FROM MECHANICAL EXHAUST OUTLETS. MECHANICAL FRESH AIR INTAKES LOCATED WITHIN 10 FEET OF MECHANICAL EXHAUST OUTLETS SHALL BE INSTALLED NO LESS THAN 3 FEET BELOW SUCH EXHAUST AIR OUTLETS.

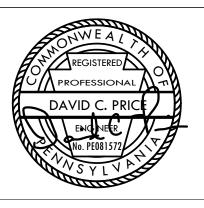
### MECHANICAL KEY NOTES: (#)

- 1. GRV-1 SHALL BE INSTALLED ON 14" HIGH INSULATED ROOF CURB. PROVIDE BIRDSCREEN FOR GRAVITY RELIEF VENTILATOR. 20"X16' FRESH AIR DUCTWORK WITH MOTORIZED CONTROL DAMPER DOWN TO FLOOR BELOW.
- 2. 3" VERTICAL CONCENTRIC VENT TERMINATION TERMINATES AT 14" INSULATED ROOF CURB AT ROOF. INSTALL TERMINATION PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.

### FOR CONSTRUCTION

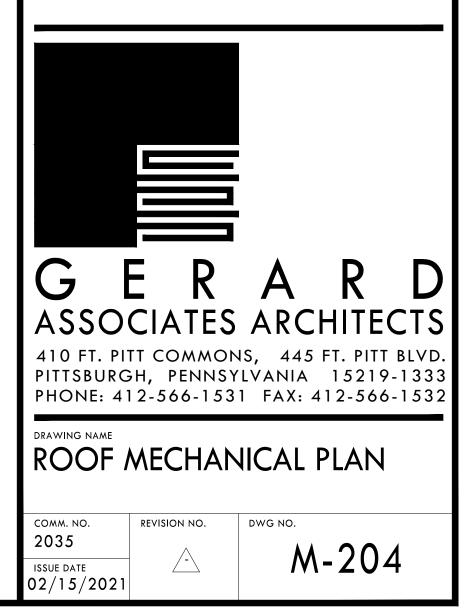
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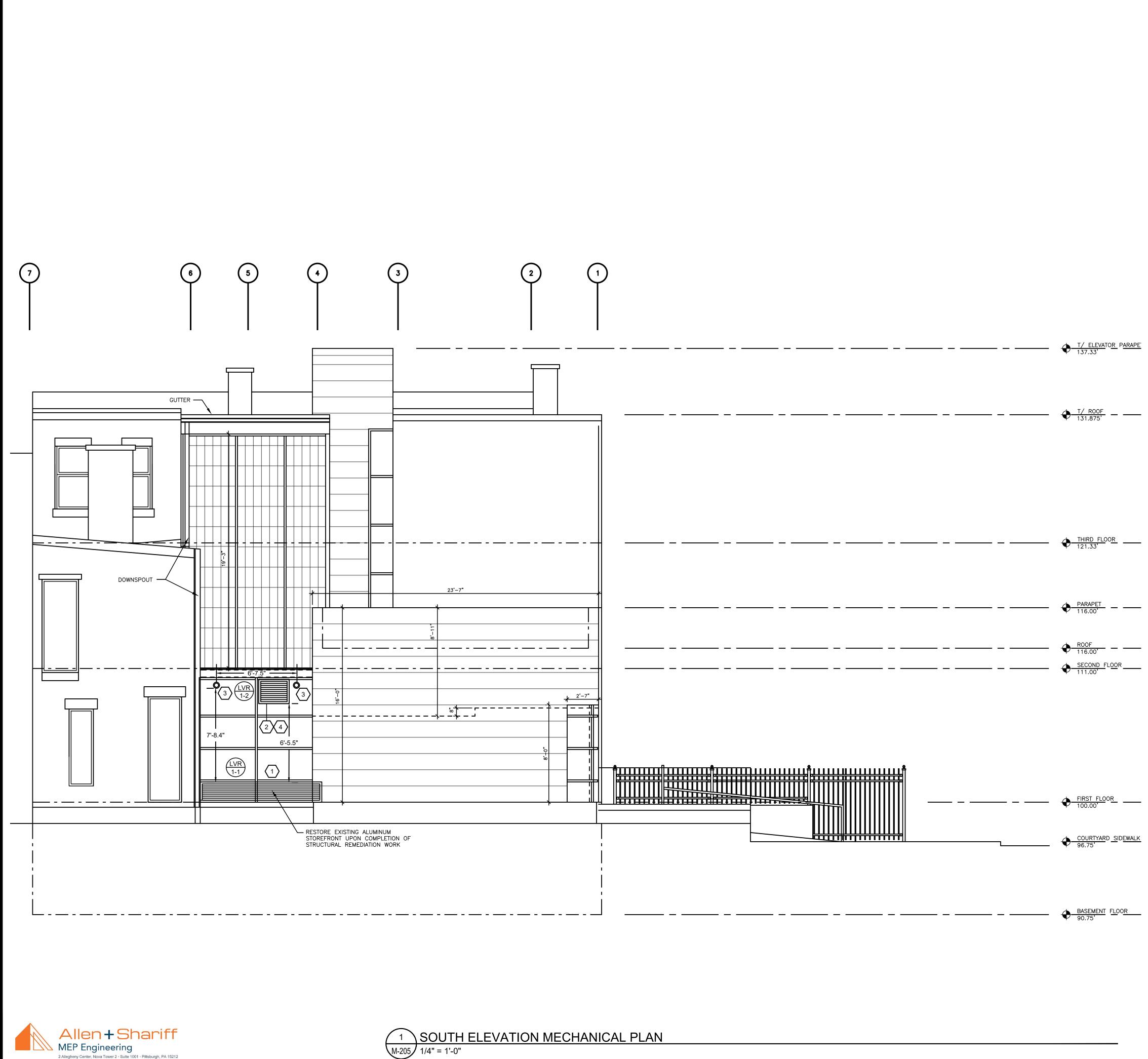
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





ASE JOB #2041090

#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
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- 7. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.

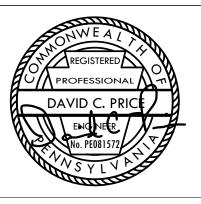
#### MECHANICAL KEY NOTES: (#)

- 1. NEW LOUVER LVR1-1 SHALL BE INSTALLED IN LOWER SECTION OF EXISTING STOREFRONT WINDOW. FINAL SIZE OF LOUVER SHALL BE COORDINATED TO MATCH DIMENSIONS OF EXISTING LOWER SECTION OF STOREFRONT WINDOW. PROVIDE BIRDSCREEN AT LOUVER.
- 2. NEW LOUVER LVR1-2 SHALL BE INSTALLED IN LOWER SECTION OF EXISTING STOREFRONT WINDOW. FINAL HEIGHT OF LOUVER SHALL BE COORDINATED TO MATCH DIMENSIONS OF EXISTING LOWER SECTION OF STOREFRONT WINDOW. PROVIDE BIRDSCREEN AT LOUVER.
- 3. 3" COMBUSTION AIR AND VENT FLUE PIPING TERMINATES AT EXTERIOR WALL VIA 4" CONCENTRIC VENT TERMINATION. INSTALL TERMINATION PER THE MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS.
- 4. RELIEF AIR LOUVER LVR1-2 SHALL BE INSTALLED NO LESS THAN 3 FEET ABOVE TOP OF LOUVER LVR1-1. PROVIDE MOTORIZED DAMPER AT LOUVER AND PROVIDE BIRDSCREEN AT DUCT OPENING TO OCCUPIED SPACE.

## FOR CONSTRUCTION

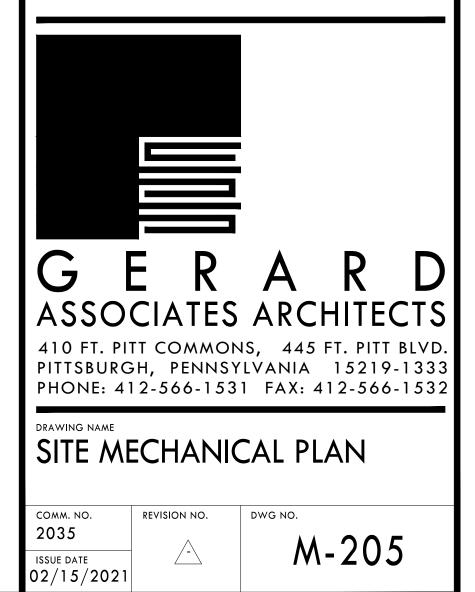
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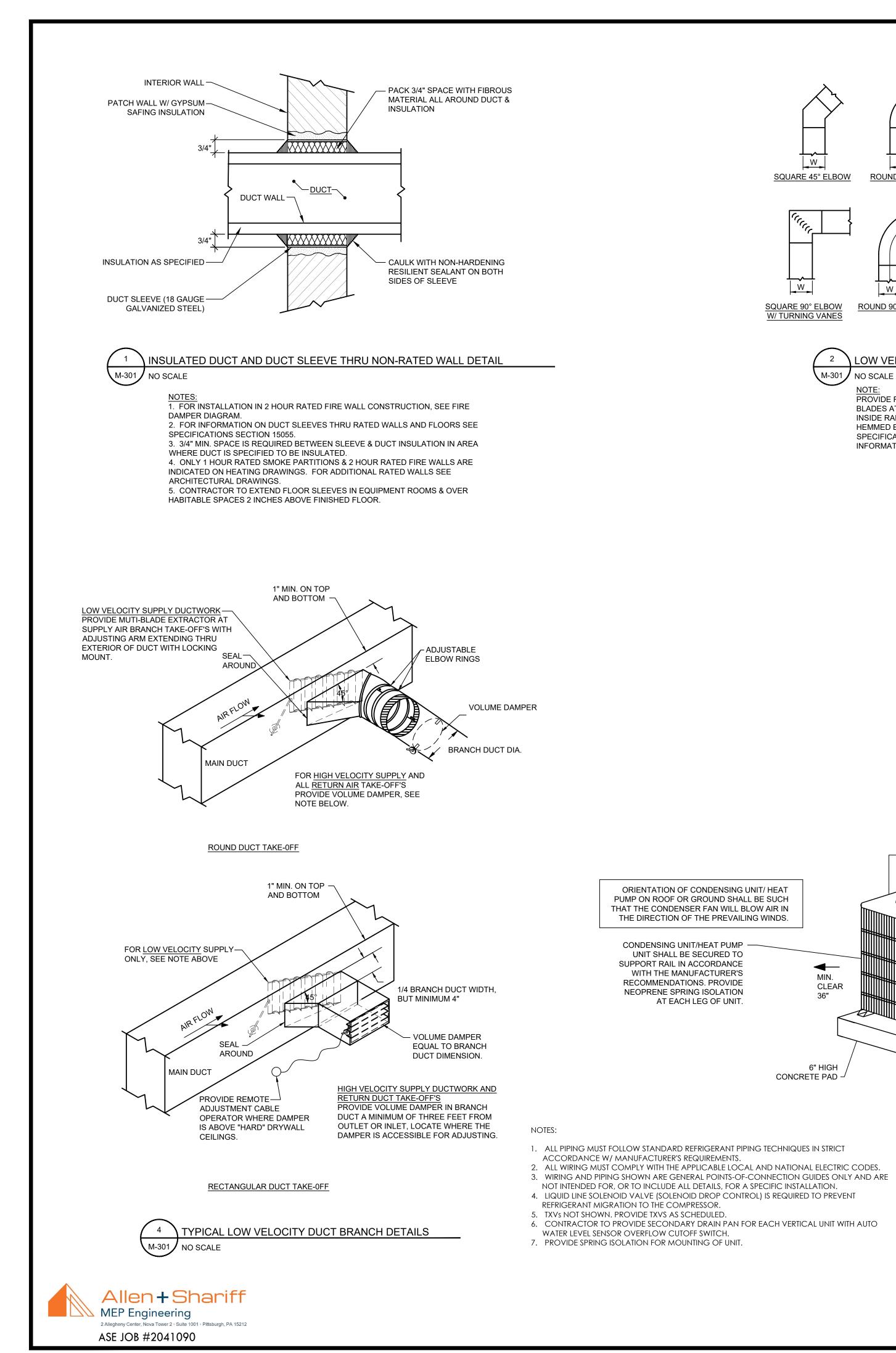
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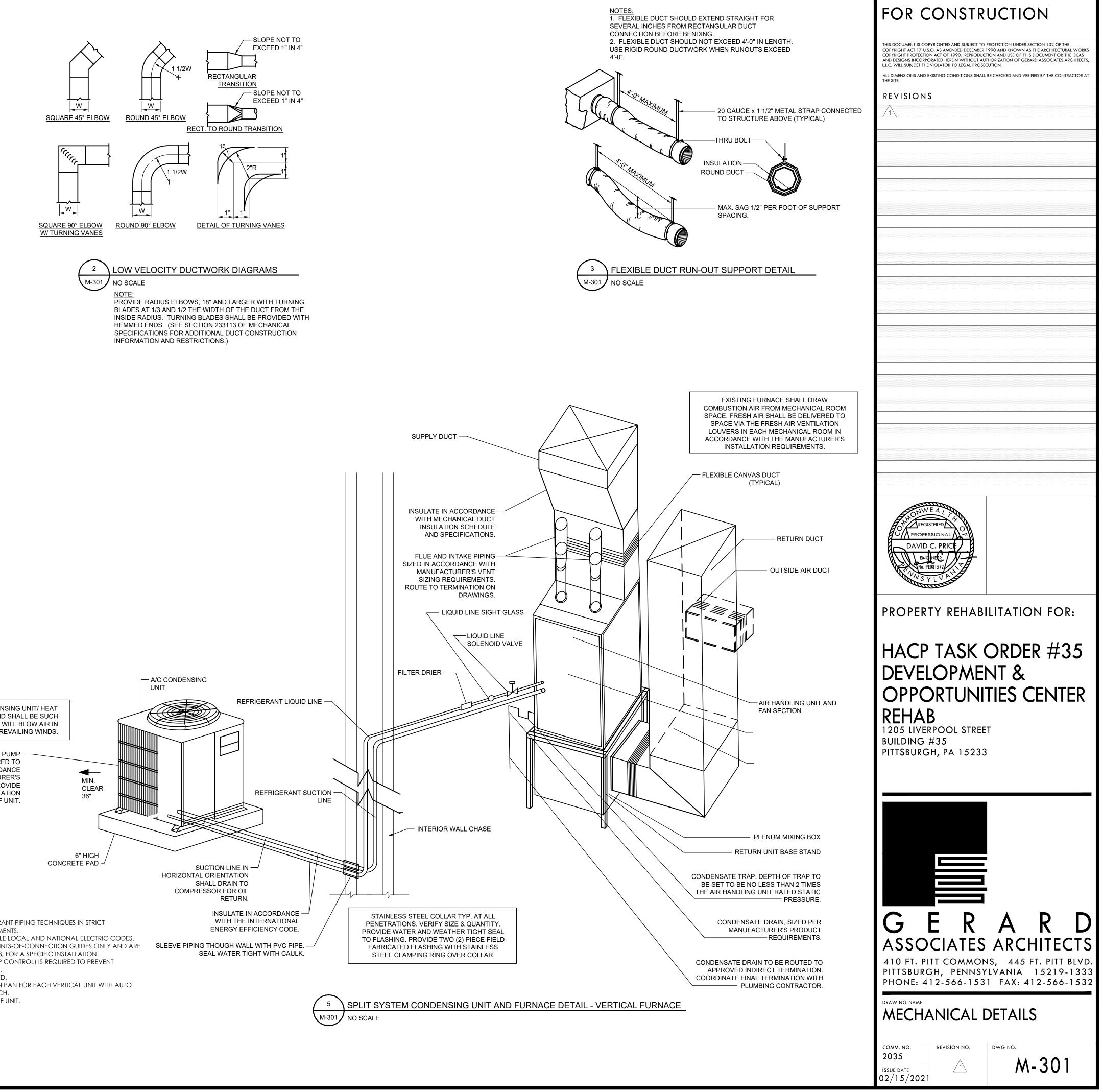


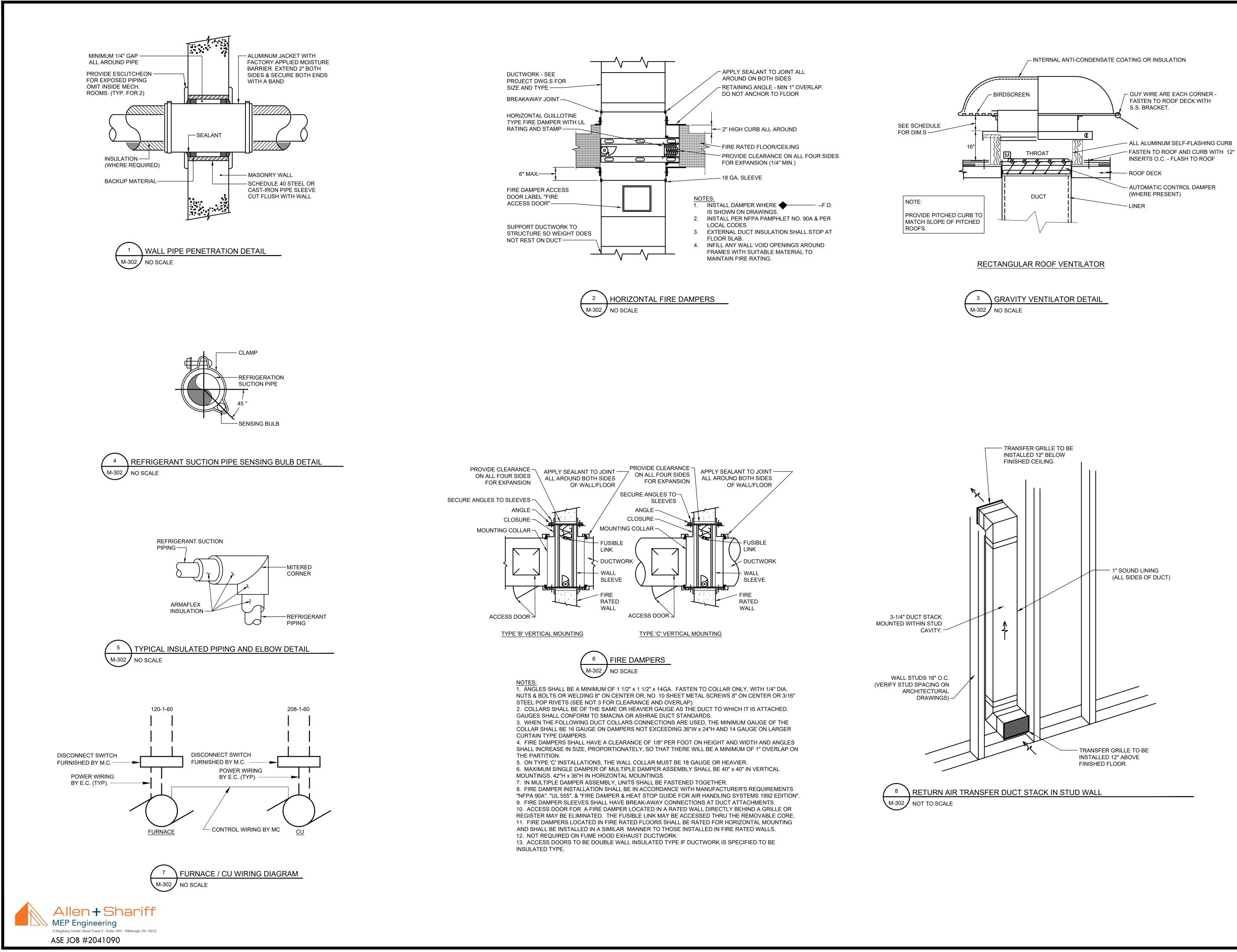
PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





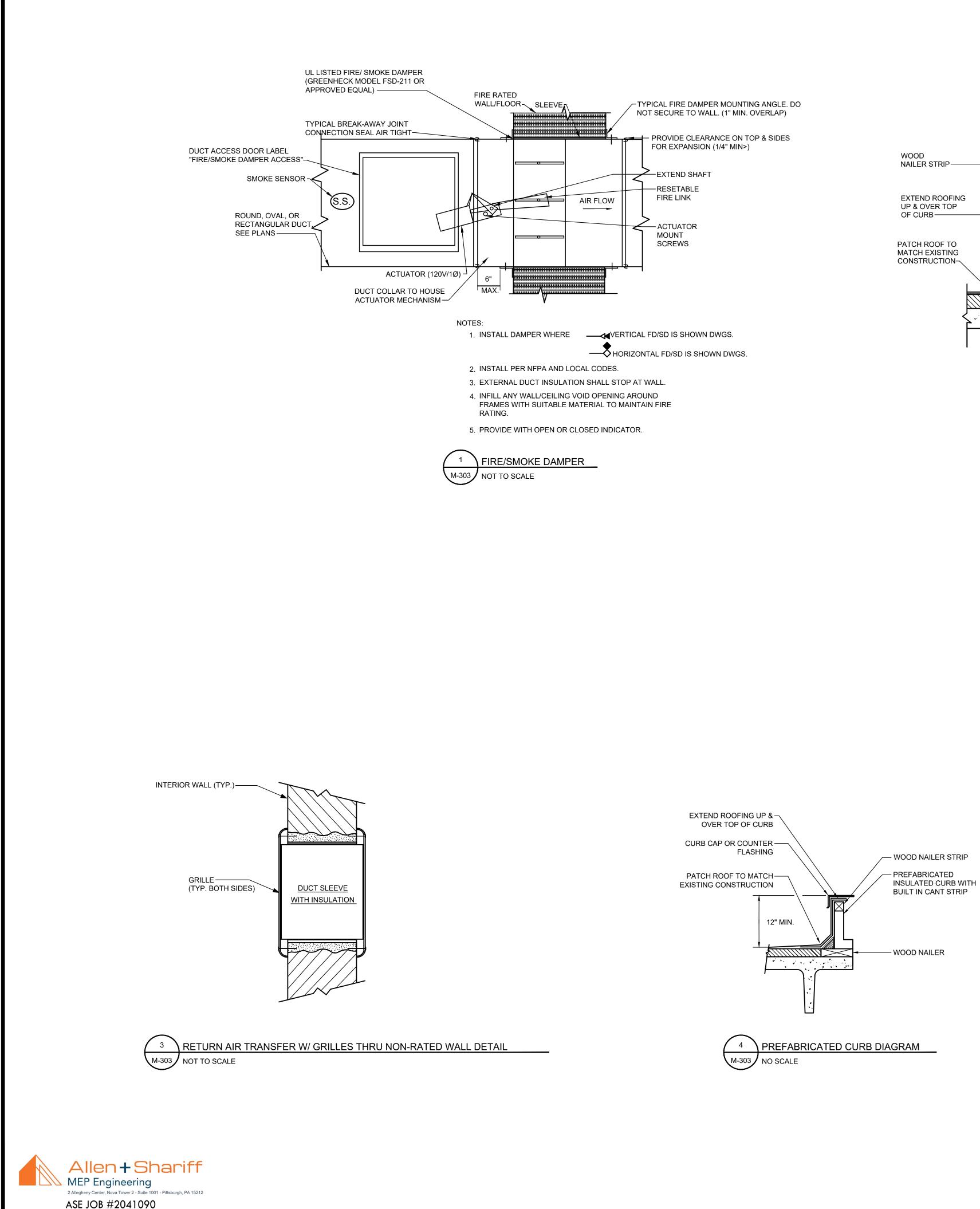


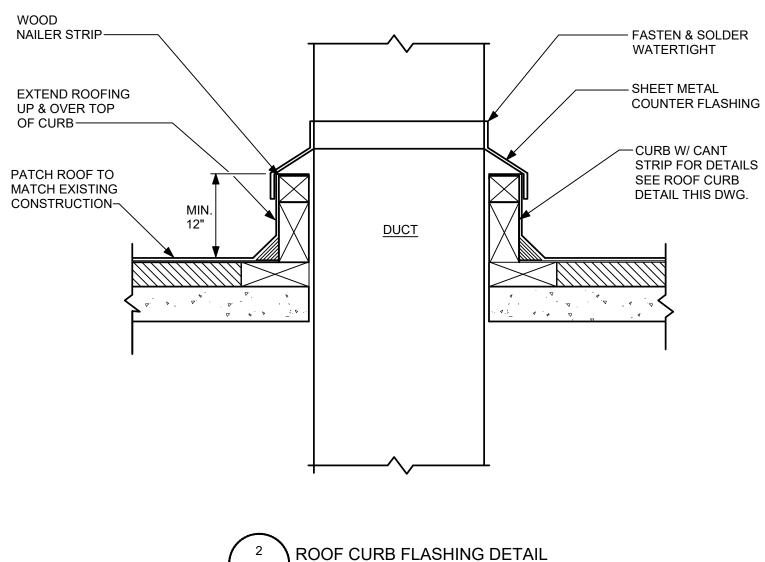


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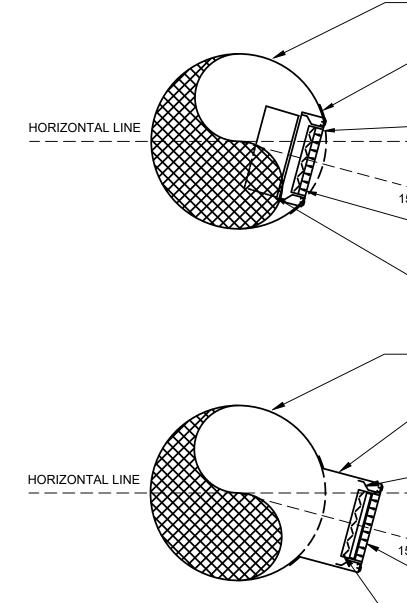


02/15/2021





M-303 / NOT TO SCALE





-ROUND SUPPLY DUCT SEE PLAN FOR SIZE

-SECURE GRILLE TO DUCT AIRTIGHT

- SUPPLY GRILLE FOR DETAILS SIZE

-ROUND SUPPLY DUCT SEE PLAN FOR SIZE

—16 GA. BOOT WITH 45 DEGREE TAKEOFF, SECURE TO DUCT AIRTIGHT

- TURN BOOT COLLAR IN TO PROVIDE SMOOTH AIR FLOW TO GRILLE

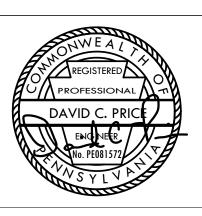
-DOUBLE DEFLECTION SUPPLY AIR GRILLE

- OPPOSED BLADE DAMPER

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REVISIONS



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**

REHAB 1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233



\_\_\_\_

ISSUE DATE

02/15/2021

		SUPPLY	FAN DA	ΓA				HEAT	ING CAPACI	ΤY					C	DX COOLII	IG COIL				ELECTR	ICAL DA	TA				
UNIT DES.	SUPPLY CFM	MAX OA CFM	E.S.P. IN. WG	RPM	HP	FUEL TYPE	STAGES	INPUT MBH	OUTPUT MBH	EAT DB DEG F.	LAT DB DEG F.	AFUE	DX COIL MODEL		LAT WB DEG F.				TOTAL MBH	SEER	VOLTS/PH	FLA	МОСР	MODEL	WEIGHT	BASIS OF DESIGN	REMARKS
FCUB-1	2000	397	1.0	-	1.0	NAT. GAS	1	110.0	107.2	56.5	105.2	96%	CX35-60C-F	76.9	64.4	55.0	54.0	47.5	58.3	14.5	120V/1PH.	11.5	15.0	ML196UH110XE60C	177 LBS.	LENNOX	1 THRU 12
FCUB-2	2000	271	1.0	-	1.0	NAT. GAS	1	110.0	107.2	60.8	109.5	96%	CX35-60C-F	76.0	63.6	55.0	54.0	45.4	56.3	14.5	120V/1PH.	11.5	15.0	ML196UH110XE60C	177 LBS.	LENNOX	1 THRU 12
FCU3-1	2030	182	1.0	-	1.0	NAT. GAS	1	110.0	107.2	63.9	111.9	96%	CX35-60C-F	75.3	62.9	55.0	54.0	44.6	55.6	14.5	120V/1PH.	11.5	15.0	ML196UH110XE60C	177 LBS.	LENNOX	1 THRU 12

1. PROVIDE APPROPRIATE CLEARANCE TO COMBUSTIBLES.

2. PROVIDE (2) NEW 3/4" CONDENSATE DRAINS. PROVIDE HORIZONTAL DRAIN PAN BENEATH UNIT WITH AUTO WATER LEVEL SENSOR CUTOFF DEVICE. 3. PROVIDE NEW MERV 8 FILTER AND FILTER RACK FOR RETURN AIR INLET.

4. PROVIDE NEW VIBRATION ISOLATION PADS.

5. PROVIDE THERMAL EXPANSION VALVE (TXV).

6. PROVIDE PRESSURE SWITCH. 7. PROVIDE FLUE CONDENSATE TRAP ASSEMBLY.

8. PROVIDE GAS CONTROL VALVE.

9. PROVIDE CONCENTRIC VENT TERMINATION KIT.

10. REMOTE OUTDOOR TEMPERATURE SENSOR AND HUMIDITY SENSOR FOR ECONOMIZER OPERATION. 11. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT.

12. PROVIDE HIGH PERFORMANCE ECONOMIZER OPTION.

AIR COC	DLED CONDEN	SING UN	IT SCHE	DULE															
UNIT	SERVES	STAGES	NOM CAPA	IINAL ACITY	COOLING EFF.	HEAT	NOM. CONN.	EAT D	DEG F.	ELEC	TRICAL		REFRIGERA	NT LINESET	SOUND PRESS.		MANUF.	MODEL	REMARKS
DES.	3LIVE3	NO. OF	COOL MBTUH	HEAT MBTUH	SEER	СОР	CAP. %	COOL -ING	HEAT -ING	VOLTS/PH.	MCA	rfs	SUCTION	LIQUID	DBA	WEIGHT	MANOT.	WODEL	ILMARINO -
CUB-1	FCUB-1	1	60	N/A	14.0	N/A	97.1	89	N/A	208V/1PH.	34.8	60	1-1/8"	3/8"	80	238	LENNOX	ACX14060-230-1	1 THRU 17
CUB-2	FCUB-2	1	60	N/A	14.0	N/A	93.8	89	N/A	208V/1PH.	34.8	60	1-1/8"	3/8"	80	238	LENNOX	ACX14060-230-1	1 THRU 17
CU3-1	FCU3-1	1	60	N/A	14.0	N/A	92.7	89	N/A	208V/1PH.	34.8	60	1-1/8"	3/8"	80	238	LENNOX	ACX14060-230-1	1 THRU 17

1. MCA - MINIMUM CIRCUIT AMPACITY, RFS - RECOMMENDED FUSE SIZE, MFS- MAXIMUM FUSE SIZE

2. PROVIDE DISCONNECT. 3. MOUNT UNIT ON 6" CONCRETE OUTDOOR PAD WITH EQUIPMENT SUPPORT RAIL AND VIBRATION ISOLATION PADS.

4. PROVIDE LIQUID LINE SOLENOID VALVE KIT. 5. PROVIDE LONG LINE APPLICATION KIT FOR REFRIGERANT LINE RUNS GREATER THAN 80 FEET IN TOTAL LENGTH.

6. FREEZE PROTECTION KIT.

7. LOW AMBIENT KIT.

8. FILTER DRIER.

9. HIGH AND LOW PRESSURE SWITCHES. 10. THERMOSTATIC EXPANSION VALVE.

11. BRASS SUCTION AND LIQUID SERVICE VALVES WITH SWEAT CONNECTIONS AND SERVICE PORTS.

12. CRANKCASE HEATER. 13. COMPRESSOR SOUND JACKET.

14. PROVIDE FUSED DISCONNECT.

15. SIGHT GLASS.

16. HARD START KIT.

17. REMOTE OUTDOOR TEMPERATURE SENSOR AND HUMIDITY SENSOR FOR ECONOMIZER OPERATION.

PIPE INSULATION T	HICKNESS SCH	IEDULE						THERMAL
	INSULATION	CONDUCTIVITY		NOMINAL PI	PE OR TUBE	SIZE (IN)		
FLUID OPERATING TEMPERATURE AND USAGE (°F)	CONDUCTIVITY BTU·IN.(h·ft <sup>2</sup> ·°F)	MEAN RATING TEMPERATURE (°F)	< 1	1 to < 1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub> < 4	4 to < 8	≥8	SYSTE
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0	DUCT
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5	DUCT
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0	DUCT
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0	DUCT
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5	DUCT
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0	DUCT
40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5	DUCT

REMARKS:

PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE ABOVE (IECC 2015 TABLE C403.2.10) WITH THE FOLLOWING EXCEPTIONS: 1. FACTORY-INSTALLED PIPING WITHIN HVAC EQUIPMENT TESTED AND RATED IN ACCORDANCE WITH A TEST PROCEDURE REFERENCED

BY THIS CODE. 2. FACTORY-INSTALLED PIPING WITHIN ROOM FAN-COILS AND UNIT VENTILATORS TESTED AND RATED ACCORDING TO AHRI 330 (EXCEPT THAT THE SAMPLING AND VARIATION PROVISIONS OF SECTION 6.5 SHALL NOT APPLY) AND AHRI 840, RESPECTIVELY.

3. PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60°F AND 105°F. 4. PIPING THAT CONVEYS FLUIDS THAT HAVE NOT BEEN HEATED OR COOLED THROUGH THE USE OF FOSSIL FUELS OR ELECTRIC POWER. 5. STRAINERS, CONTROL VALVES, AND BALANCE VALVES ASSOCIATED WITH PIPING 1 INCH OR LESS IN DIAMETER.

6. DIRECT BURIED PIPING THAT CONVEYS FLUIDS AT OR BELOW 60°F.



					SMAC	NA CLASS			
SYSTEM	SYSTEM- LOCATION	OPERATING TEMPERATURE	MATERIAL	TYPE	THICKNESS IN.S	DENSITY LB/CU. FT.	INSTALLED "R" VALUE/ CONDUCTIVITY	JACKET	REMARK
DUCT	SUPPLY AIR DUCT - INDOOR CONCEALED, ACCESSIBLE,	40-120	MINERAL-FIBER	BLANKET	2.0"	0.75	5.0	FSK	1, 5
DUCT	SUPPLY AIR DUCT - INDOOR CONCEALED, INACCESSIBLE	40-120	MINERAL-FIBER	BOARD	1.5 "	2.25	6.5	FSK	2
DUCT	SUPPLY AIR DUCT - INDOOR EXPOSED	40-120	MINERAL-FIBER	LINER	1.0"	4.0	4.3	-	8
DUCT	RETURN AIR DUCT - INDOOR CONCEALED	40-120	MINERAL-FIBER	LINED	1.0 "	2.25	4.0	-	2
DUCT	RETURN AIR DUCT - INDOOR EXPOSED	40-120	MINERAL-FIBER	LINED	1.0 "	2.25	4.0	-	8
DUCT	TRANSFER AIR DUCT - INDOOR	40-120	MINERAL-FIBER	LINED	1.0 "	2.25	4.0	-	8
DUCT	EXHAUST DUCT WITHIN 10 FEET OF EXTERIOR OPENING - INDOOR	40-120	MINERAL-FIBER	BOARD	1.0 "	2.25	4.3	FSK	7
DUCT	OUTSIDE AIR DUCT - INDOOR	0-100	MINERAL-FIBER	BOARD	3.0 "	2.25	12.0	FSK	7
PIPING	REFRIGERANT - CONDITIONED SPACE	40-60	MINERAL-FIBER	PRE-MOLDED				ASJ+SSL	6
PIPING	REFRIGERANT - UNCONDITIONED SPACE	40-60	MINERAL-FIBER WICKING	PRE-MOLDED	REFER TO F	PIPING INSULAT SCHEDULE	ION THICKNESS	ASJ+SSL	6
PIPING	COLD CONDENSATE DRAIN - INDOOR, ONLY ON METAL PIPE	40-60	MINERAL-FIBER	PRE-MOLDED	1			ASJ+SSL	7
PIPING	OUTDOOR PIPING EXPOSED TO FREEZING (HEAT TRACED PIPE)	40-100	MINERAL-FIBER	PRE-MOLDED	1			ALUM.	

CONCEALED, ACCESSIBLE LOCATIONS - ABOVE LAY-IN OR ACCESSIBLE CEILINGS, ACCESSIBLE MECHANICAL SHAFTS. 2. CONCEALED, INACCESSIBLE LOCATIONS - ABOVE HARD CEILINGS, (DRY WALL, PLASTER), MECHANICAL SHAFTS, BEHIND WALLS.

3. FOR DUCTS LOCATED OUTDOORS PROVIDE WATERPROOF CONSTRUCTION WITH WATER & UV RESISTANT MASTIC ON ALL JOINTS. INTERNALLY LINE WITH ACOUSTICAL DUCT LINER. CROSS-BREAK TOP TO SHED WATER. 4. CONSTRUCT PER NFPA 96 STANDARDS FOR KITCHEN EXHAUST. WHERE LOCATED WITH 3" OF COMBUSTIBLE PROTECT COMBUSTIBLE MATERIALS, WRAP EXTERIOR WITH FIRE RESISTANT INSULATION. 5. DO NOT INSULATE:

- MAKE-UP AIR DUCTWORK OPERATING AT SURROUNDING AMBIENT CONDITIONS - TRANSFER AIR DUCTWORK (ACOUSTICALLY LINE DUCT)

- EXPOSED SUPPLY DUCTWORK LOCATED IN CONDITIONED SPACE. (DOES NOT INCLUDE RETURN AIR PLENUM)

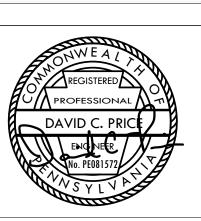
6. COVER ALL EXPOSED PIPING LOCATED BELOW 7' 0" ABOVE FINISHED FLOOR WITH PVC JACKET. 7. MULTIPLE INSULATION METHODS MAY BE USED TO ACHIEVE THE TOTAL REQUIRED R-VALUE.

8. DUCTWORK SHALL BE PAINTED WHERE EXPOSED OR VISIBLE TO OCCUPANTS. COLOR TO BE SELECTED BY ARCHITECT.

### FOR CONSTRUCTION

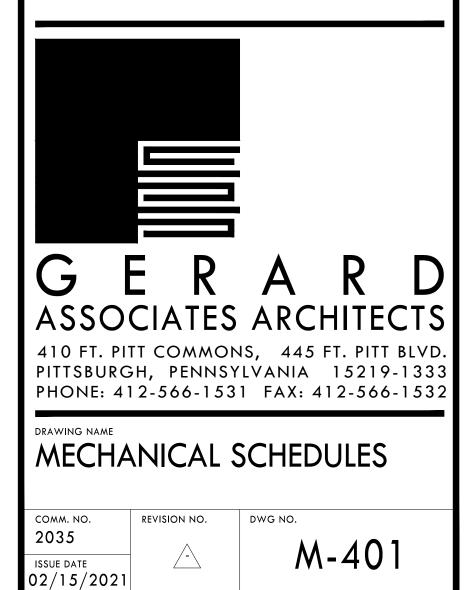
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



TAG	TYPE	ĸw	ELEC. VOLT/PH	AMPS	BASIS OF DESIGN	MODEL	REMARKS
EWH B-1	WALL	3.0	208/1	14.5	BERKO	FRA4024F	2,3,4,5
EWH 1-1	WALL	3.0	208/1	14.5	BERKO	FRA4024F	1,3,4,5
EWH 2-1	WALL	3.0	208/1	14.5	BERKO	FRA4024F	2,3,4,5

TAG	MAKE/MODEL		INTAKE OR		SIZE		FREE AREA VEL.	P.D.	MATERIAL	FRAME	BLADE	FINISH/COLOR	NOTES
		FLOW CFM	EXH.	W	Н	D	FPM	IN W.C.		TYPE	TYPE		
LVR1-1	POTTORFF EFD-245	2000	INTAKE	110" (FV)	20" (FV)	2"	900	0.08	ALUMINUM	CHANNEL, DRAINABLE HEAD	45 DEG.	BY ARCHITECT	1
LVR1-2	POTTORFF EFD-245	2000	RELIEF	30"	24"	2"	950	0.08	ALUMINUM	CHANNEL, DRAINABLE HEAD	45 DEG.	BY ARCHITECT	1
LVR3-1	POTTORFF EFD-245	4000	RELIEF	60"	24	2"	950	0.08	ALUMINUM	CHANNEL, DRAINABLE HEAD	45 DEG.	BY ARCHITECT	1

REMARKS:

1. FULLY RECESSED ELECTRIC WALL HEATER.

2. SURFACE MOUNTED ELECTRIC WALL HEATER. 3. INTEGRAL DISCONNECT.

4. TAMPER PROOF COVER.

5. INTEGRAL THERMOSTAT.

VENTILATION SCHEDULE (PHASE I)

AIR ANDLING	AREA SERVED	SPACE DESIGNATION		AREA RATE			PEOPLE RA	TE		TOTAL REQ'D VENT @ ROOM	VENT EFFECTIVENES	TOTAL REQ'D VENT @ AHU	REMARKS
UNIT			AREA (SQFT)	REQ'D VENT (CFM/SQFT)	REQ'D VENT (CFM)	PEOPLE	REQ'D VENT (CFM/PERSON)	DIVERSITY	REQ'D VENT (CFM)	(CFM)	S (%)	INLET (CFM)	
	000 MECHANICAL ROOM	MECHANICAL ROOM	197	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	001/010 STORAGE/CORRIDOR	CORRIDOR	162	0.06	10	0	0.0	1.0	0	10	0.8	12.2	
	001A - ELECTRICAL PANEL AREA	ELECTRICAL EQUIPMENT AREA	287	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	002 DATA ROOM	ELECTRICAL EQUIPMENT AREA	103	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	005 ELEVATOR MECHANICAL ROOM	ELECTRICAL EQUIPMENT AREA	40	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	100 ENTRY VESTIBULE	VESTIBULE	36	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	102 RESOURCE CENTER	OFFICE	645	0.06	39	6	5.0	1.0	32	71	0.8	88.7	
	202 TRAINING	LECTURE CLASSROOM	687	0.06	41	25	7.5	1.0	188	229	0.8	285.9	
	205 ELEVATOR LOBBY	CORRIDOR	142	0.06	9	0	0.0	1.0	0	9	0.8	10.7	
												397.4	TOTAL FOR FCUE
	106 COMPUTER ROOM	COMPUTER (NOT PRINTING)	413	0.06	25	2	5.0	1.0	10	35	0.8	43.9	
	007 STORAGE	STORAGE - DRY MATERIALS	150	0.12	18	0	0.0	1.0	0	18	0.8	22.5	
	006 STORAGE	STORAGE - DRY MATERIALS	141	0.12	17	0	0.0	1.0	0	17	0.8	21.1	
	011 STORAGE	STORAGE - DRY MATERIALS	203	0.12	24	0	0.0	1.0	0	24	0.8	30.4	
	105 ELEVATOR LOBBY	CORRIDOR	150	0.06	9	0	0.0	1.0	0	9	0.8	11.3	
	107 TOILET	RESTROOM	115	-	-	0	0.0	1.0	0	-	-	150 CFM CONTINUOUS EXHAUST	EXHAUST - EXISTING
	108 KITCHENETTE	BREAK ROOM	72	0.12	9	4	5.0	1.0	18	27	0.8	33.3	
	110A OFFICE	OFFICE	177	0.06	11	1	5.0	1.0	4	15	0.8	18.8	
	110B OFFICE	OFFICE	293	0.06	18	1	5.0	1.0	7	25	0.8	31.1	
	207 TOILET	RESTROOM	155	-	-	0	0.0	1.0	0	-	-	150 CFM CONTINUOUS EXHAUST	EXHAUST - EXISTING
	208 CORRIDOR	CORRIDOR	28	0.06	2	0	0.0	1.0	0	2	0.8	2.1	
	210 KITCHENETTE	BREAK ROOM	157	0.12	19	8	5.0	1.0	39	58	0.8	72.6	
	211 ADMINISTRATIVE OFFICE	OFFICE	263	0.06	16	1	5.0	1.0	7	22	0.8	27.9	
												271.2	TOTAL FOR FCU
	302 BUSINESS INCUBATER	OFFICE	674	0.06	40	10	5.0	1.0	50	90	0.8	113.1	
	305 ELEVATOR LOBBY	CORRIDOR	165	0.06	10	0	0.0	1.0	0	10	0.8	12.4	
	307 WORKROOM	OFFICE	430	0.06	26	4	5.0	1.0	20	46	0.8	57.3	
												182.7	TOTAL FOR FCU

REMARKS: 1. CALCULATIONS WERE PERFORMED BASED ON IMC-2015 SECTIONS 402 & 403. MINIMUM OA FOR FURNACE UNITS ARE SCHEDULED ON M-401 EXCEPT FOR EXISTING ROOFTOP UNIT, FOR WHICH IT HAS BEEN ASSUMED THAT AVAILABLE FRESH AIR VOLUME FOR THE EXISTING UNIT IS NO GREATER THAN 20% OF THE DESIGN SUPPLY FLOW.



1. PROVIDE BIRD SCREEN ON INSIDE FACE OF LOUVER.

GRILL	E, REG	ISTER &	DIFFU	ISER S	CHEDU	JLE (P	HASE	1)		
TAG	FACE SIZE (SLOT WIDTH)	# SLOTS/ BAR, GRID SPACE	DEFLECTION/ THROW	CONN. SIZE	MAX CFM	P.D. IN. W.C.	MAX. NC	BASIS OF DESIGN	MODEL	REMARKS
S-1	14/8	N/A	2-WAY	12/6	310	0.17	23	PRICE	520D	1,2,3
S-2	20/8	N/A	1-WAY	18/6	350	0.11	29	PRICE	LFG-15A	1,2,3,4,5,6
S-3	24/24	N/A	4-WAY	8"Ø	314	0.06	22	PRICE	SCD	1,2,3
RG-1	14/8	1/2"	0°	12/6	312	0.18	32	PRICE	530D	1,2,3
RG-2	16/14	1/2"	0°	14/12	749	0.14	33	PRICE	530D	1,2,3
RG-3	20/16	1/2"	0°	18/14	1120	0.14	35	PRICE	530D	1,2,3
RG-4	26/22	1/2"	0°	24/20	2000	0.12	33	PRICE	530D	1,2,3

REQUIREMENTS. 2. COLOR SELECTED BY ARCHITECT. HARD CEILING OR WALL. 4. HEAVY DUTY LINEAR FLOOR GRILLE. 5. PROVIDE INSULATED PLENUM BOX FOR SUPPLY DUCT CONNECTION.

TRANSFER AI	R DUCT SCHEE	OULE	
DESIGNATION	DUCT SIZE	CFM RANGE	DETAIL
T1	12 x 6	0-300	#8/M-302
T2	24 x 12	0-1200	-
Т3	24 x 12	0-1200	#3/M-303
NOTES:		-	-

 SIZING BASED ON 0.05"/100 FT. P.D. ~ 700 FPM
 REFER TO DETAIL FOR DUCT CONFIGURATION.
 PROVIDE 1" THICK ACOUSTICAL LINER. SINGE DEFLECTION RETURN GRILLE OF EQUAL SIZE (MODEL PRICE 530D).

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES AND MOUNTING

3. PROVIDE OPPOSED BLADE DAMPERS AT DIFFUSERS, GRILLES, OR REGISTERS IF INSTALLED IN

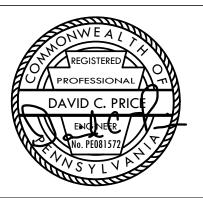
6. PROVIDE BUTTERFLY DAMPER AT ROUND SUPPLY DUCT OPENING.

4. EACH END OF TRANSFER DUCT SHALL BE EQUIPPED WITH LOUVERED

### FOR CONSTRUCTION

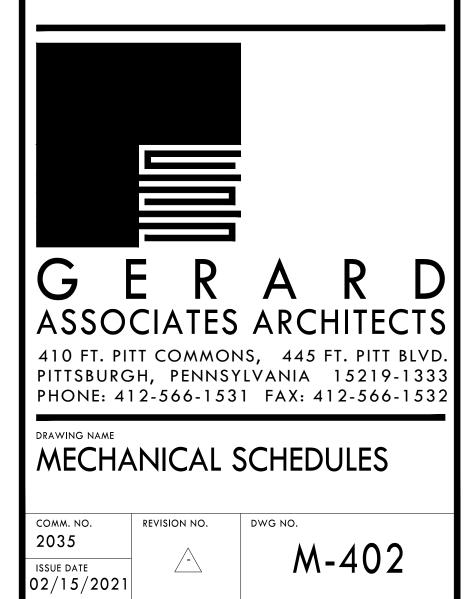
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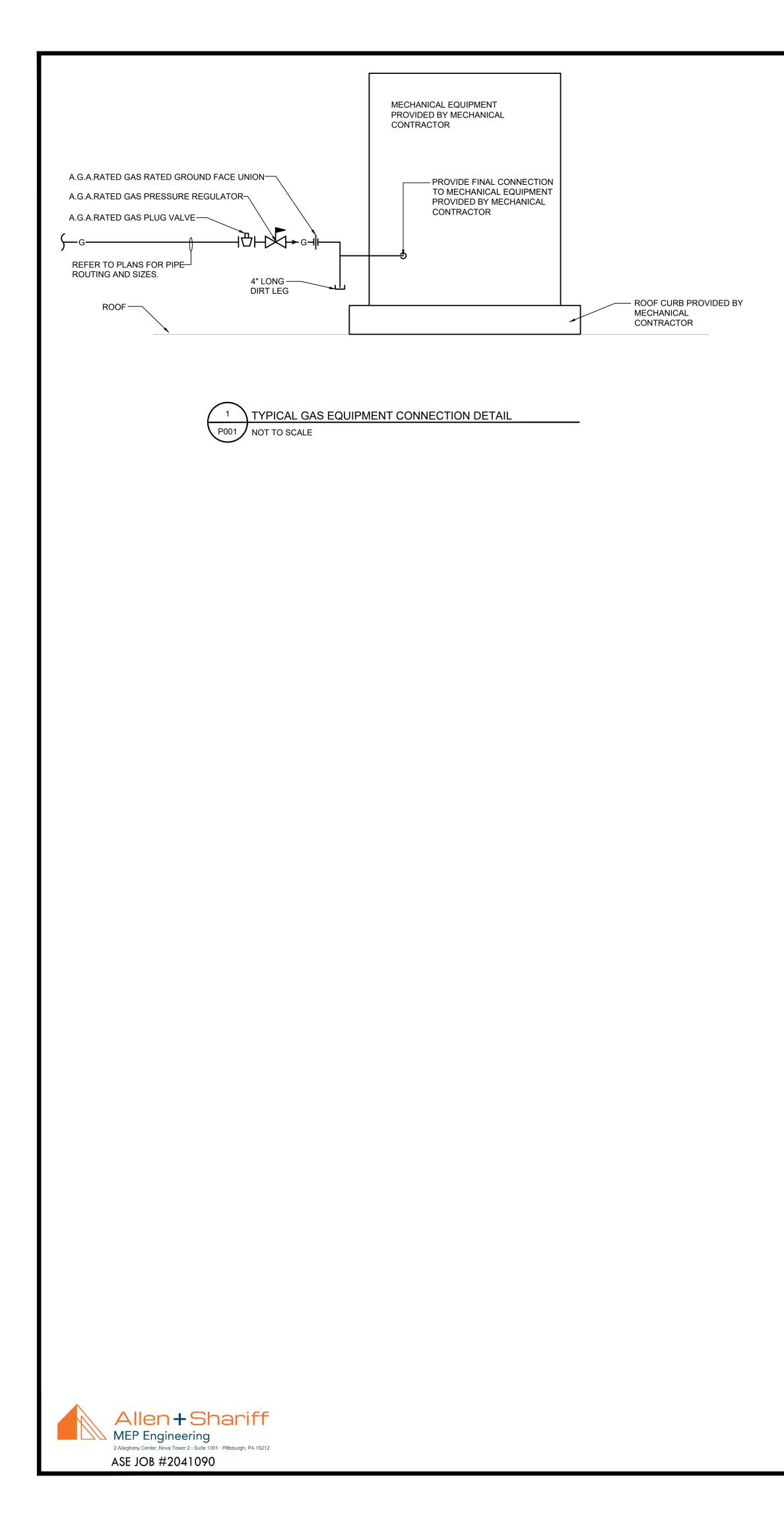
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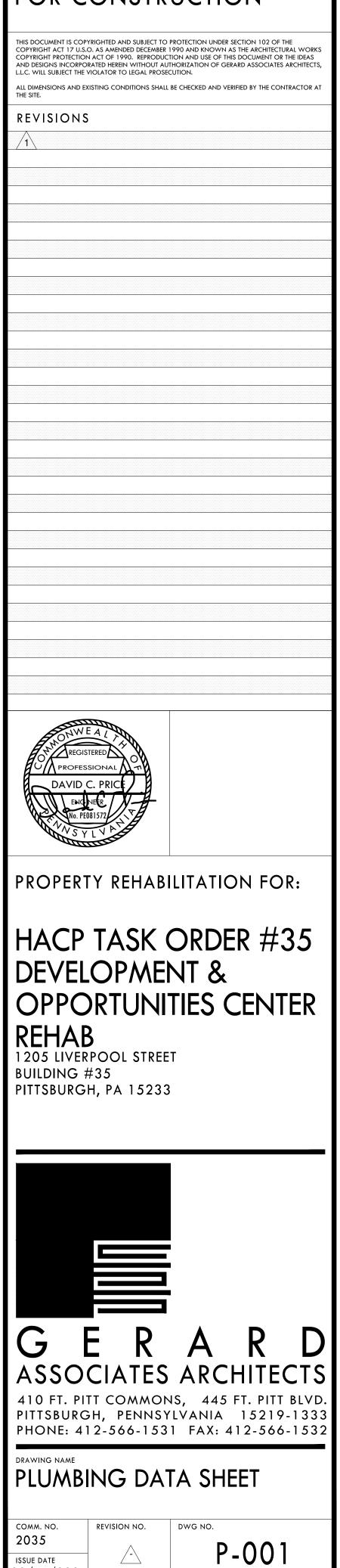
### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



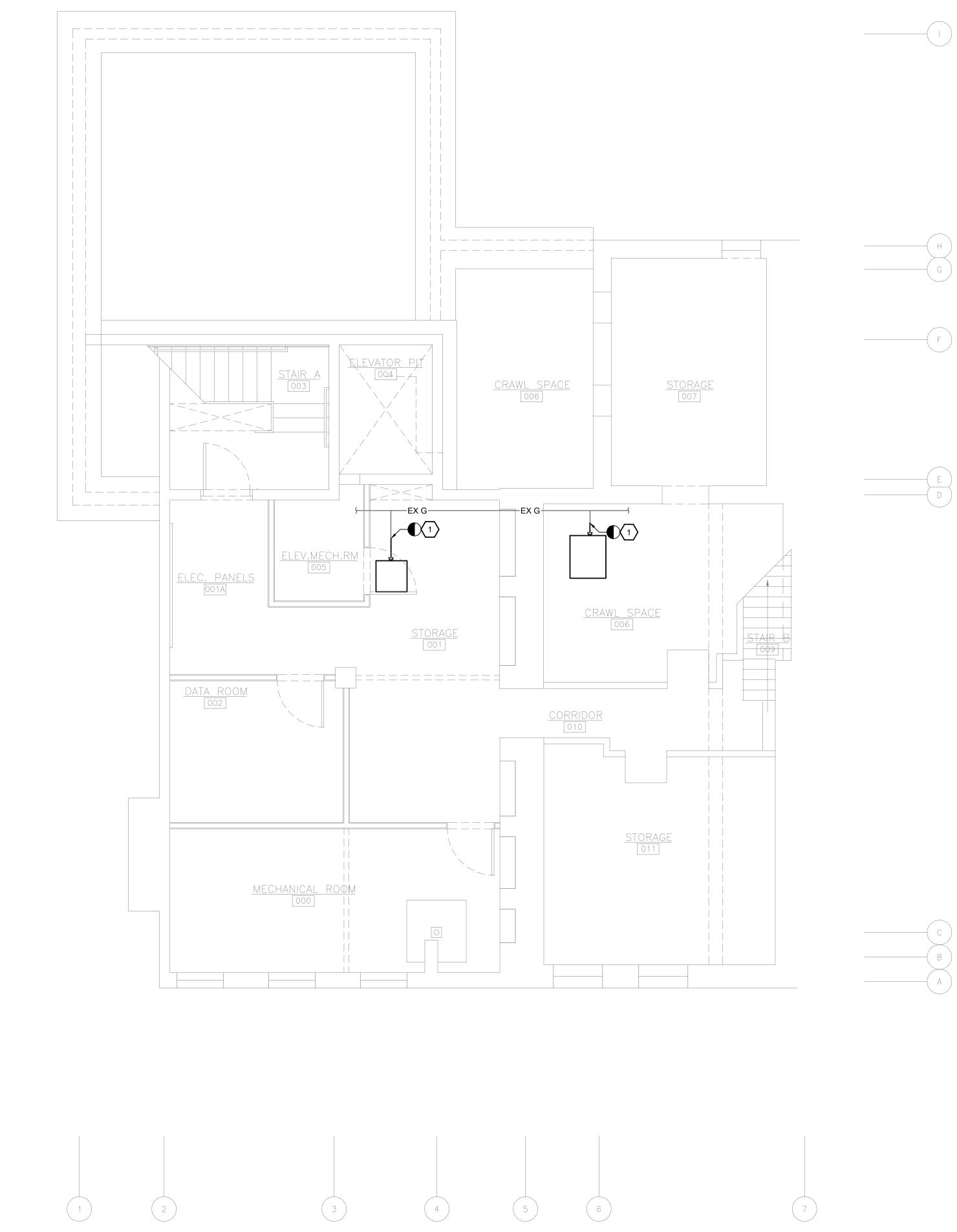


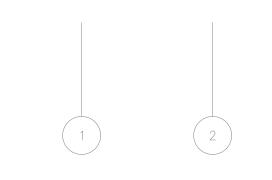
		PLUMBING	LEGEND		
SYMBOL	ABRV.	DESCRIPTION	SYMBOL	ABRV.	DESCRIPTION
\$	SAN		<b>~</b> ہ		PIPE UP
<b>⊱</b> K₩ <b></b> \$	KW	KITCHEN WASTE PIPING (TO GREASE INTERCEPTOR)	<b>ج</b>		PIPE DOWN
<b>۶−−−−−</b> \$	ST	STORM PIPING (PRIMARY)	<b>⊱ ≎ →</b> {		PIPE TEE DOWN
<b>\$</b> OD <b>\$</b>	OD	SECONDARY / OVERFLOW DRAIN PIPING	<u>۶</u>		PIPE UNION
\$\$	V	VENT PIPING	<u>ب</u>		PIPE CAP
<b>۲</b>	CW	COLD WATER PIPING	8		PIPE TRAP
<b>۶</b> HW <b></b> ۲	HW	HOT WATER PIPING	⊱–∓–⊰		BALL VALVE
<b>۶</b>	HWR	HOT WATER RETURN PIPING	۶		BALL VALVE OR SHUTOFF VALVE IN RISE
<b>\$</b> TP <b>\$</b>	TP	TRAP PRIMER PIPING	،ہ <b>ل</b> مز		GLOBE VALVE
<b>⊱</b> G <b></b> \$	G	GAS PIPING (NATURAL OR PROPANE)	<del>۶6،</del>		BUTTERFLY VALVE
<b>5</b> FO	FO	FUEL OIL PIPING	нXH		GATE VALVE
<b>۶−−−−</b> \$	S	SPRINKLER PIPING	÷-⊽۲		GAS COCK
<b>⊱−−−−−−</b> CD <b>−−−−∫</b>	CD	CONDENSATE DRAIN PIPING	HT H	M∨	MIXING VALVE
<u>ب</u>		PIPING ROUTED BELOW GRADE / SLAB			VACUUM RELIEF VALVE
ب ب EX (X)ز	EX	(LINE TYPE INDICATES SERVICE TYPE UNO) EXISTING PIPING TO REMAIN -	 	VB	VACUUM BREAKER
, E∧ (∧) , , RX (X)	RX	(X) DESIGNATES SERVICE EXISTING PIPING TO BE REMOVED -	, <u></u> , , , , , , , , , , , , , , , , , ,		GAS SOLENOID VALVE
	RA.	(X) DESIGNATES SERVICE			
			<b>⊱</b>	BV	
			<u>به</u>	PRV	PRESSURE REDUCING VALVE
			HAH	PRV	PRESSURE REGULATING VALVE
			F77	CV	CHECK VALVE
			۶ <del>۰۱۰۶۱۰۶</del>		STRAINER
			L T	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
				BFP	BACK FLOW PREVENTER
				PG	PRESSURE GAUGE
			<u>بال</u>		THERMOMETER
			<del>، ک</del> ,		AQUASTAT
			بطب		HOT WATER RECIRC. PUMP
			<del>، س</del> م		INTERIOR HOSE BIBB OR HOSE END DRAIN VALVE
			+		EXTERNAL WALL HYDRANT
			₅₽ <sup>×</sup> _₅		DOMESTIC SHOCK ABSORBER/WATER HAMMER ARRESTER; TEXT DENOTES SIZE (PDI: A ~ F)
			<u>ه</u> ــــز	FCO	CLEAN OUT, FLOOR
			۶ <b></b> ۱	со	CLEAN OUT, EXPOSED
			•	FD	FLOOR DRAIN
				RD	ROOF DRAIN
					FLOOR DRAIN WITH TRAP PRIMER
					FLOOR SINK/RECEPTOR WITH HALF GRATE
			 برگھرہ کھے	OS&Y	OS&Y VALVE
				T.S.	OS&Y VALVE
				1.5.	
			<u>بر</u> ج		FIRE DEPARTMENT SIAMESE CONNECTION
			****		FIRE PUMP TEST HEADER
				FHV	FIRE HOSE VALVE CABINET
			(I.E. XX.XX		INVERT ELEVATION B.F.F. (IN FEET)
			$\otimes$		KITCHEN EQUIPMENT DESIGNATION; REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DETAILS
			⊊		UTILITY METER
			$\bullet$		CONNECT TO EXISTING
					DISCONNECT FROM EXISTING

### FOR CONSTRUCTION



02/15/2021









#### PLUMBING DEMOLITION GENERAL NOTES:

- 1. COORDINATE SERVICE SHUTDOWNS WITH BUILDING OWNER'S MAINTENANCE PERSONNEL AND UTILITY COMPANY.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY.

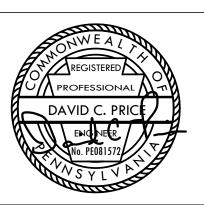
#### PLUMBING DEMOLITION KEY NOTES: (#)

1. REMOVE EXISTING GAS CONNECTION FROM MECHANICAL EQUIPMENT AND CAP.

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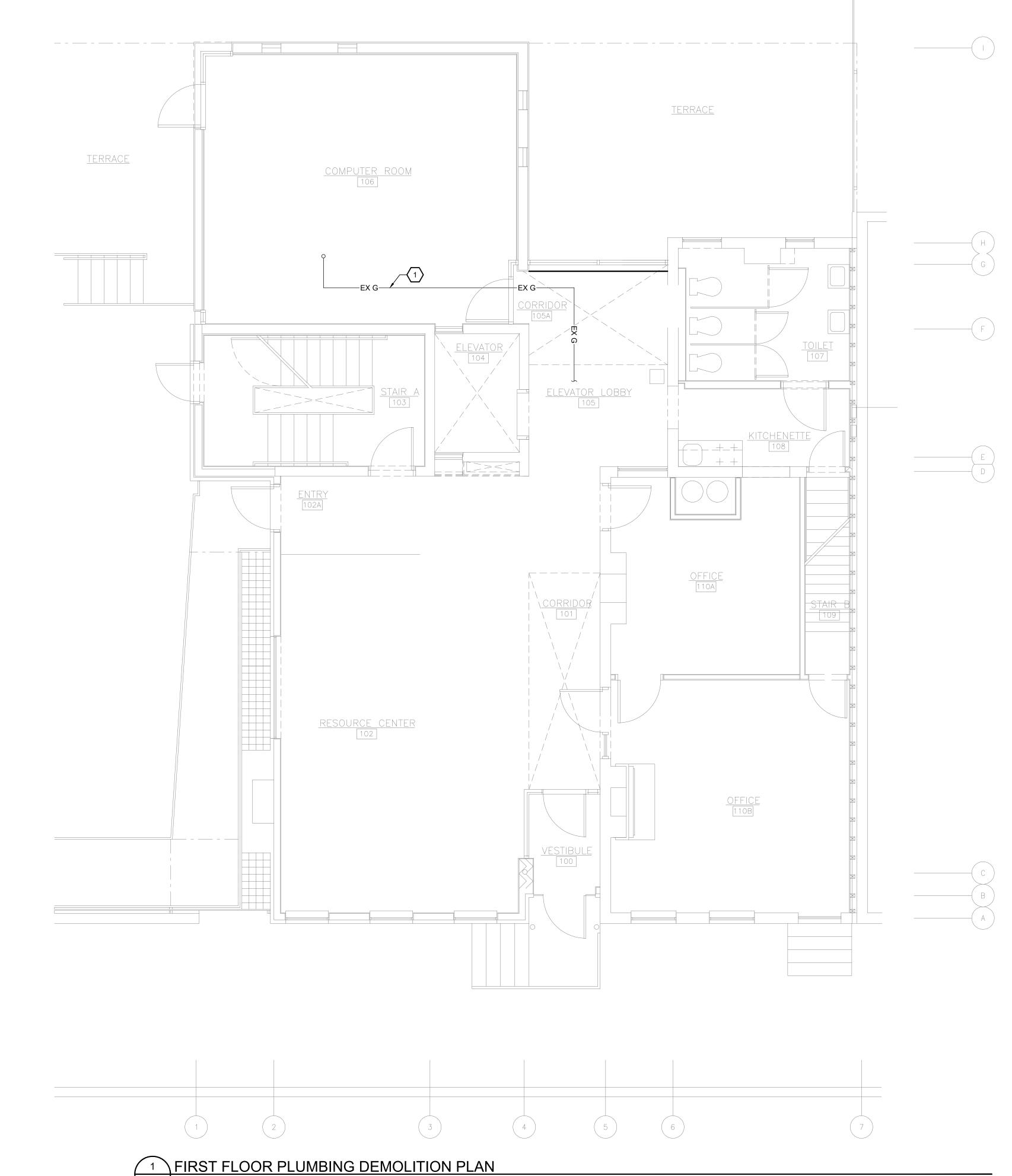
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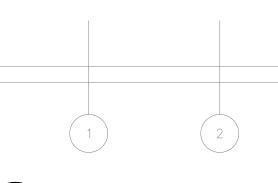


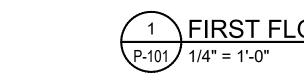
PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**











PLUMBING DEMOLITION GENERAL NOTES:

1. COORDINATE SERVICE SHUTDOWNS WITH BUILDING OWNER'S MAINTENANCE PERSONNEL AND UTILITY COMPANY.

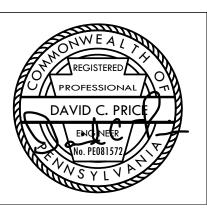
PLUMBING DEMOLITION KEY NOTES: (#)

1. EXISTING GAS PIPING SHALL REMAIN AND CONTINUE IN USE.

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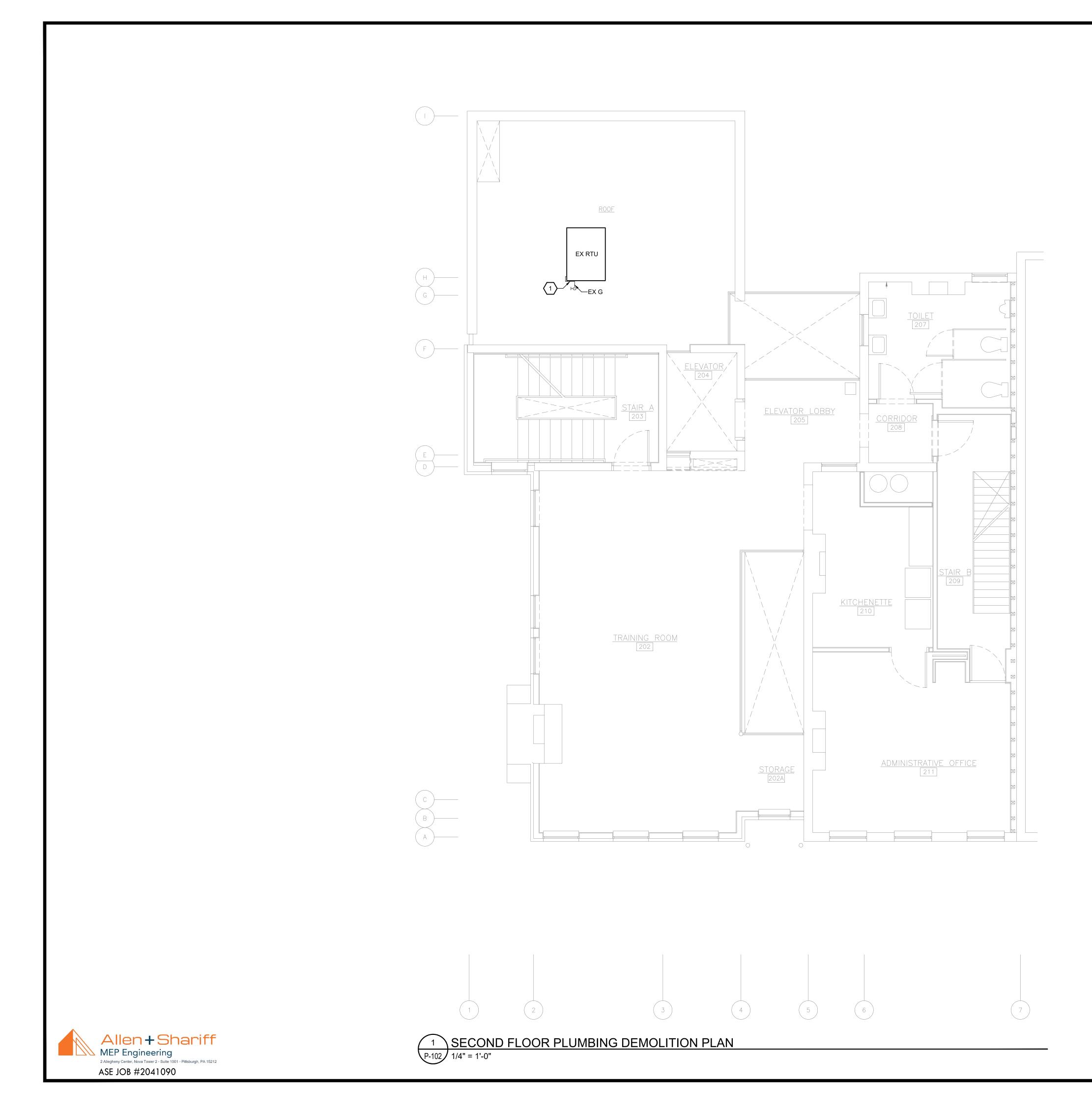
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





#### PLUMBING DEMOLITION GENERAL NOTES:

- COORDINATE SERVICE SHUTDOWNS WITH BUILDING OWNER'S MAINTENANCE PERSONNEL AND UTILITY COMPANY.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY

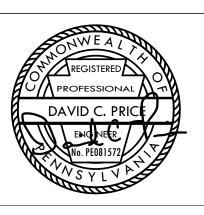
PLUMBING DEMOLITION KEY NOTES: (#)

1. EXISTING GAS PIPING AND CONNECTION TO EXISTING ROOFTOP UNIT SHALL REMAIN AND CONTINUE IN USE.

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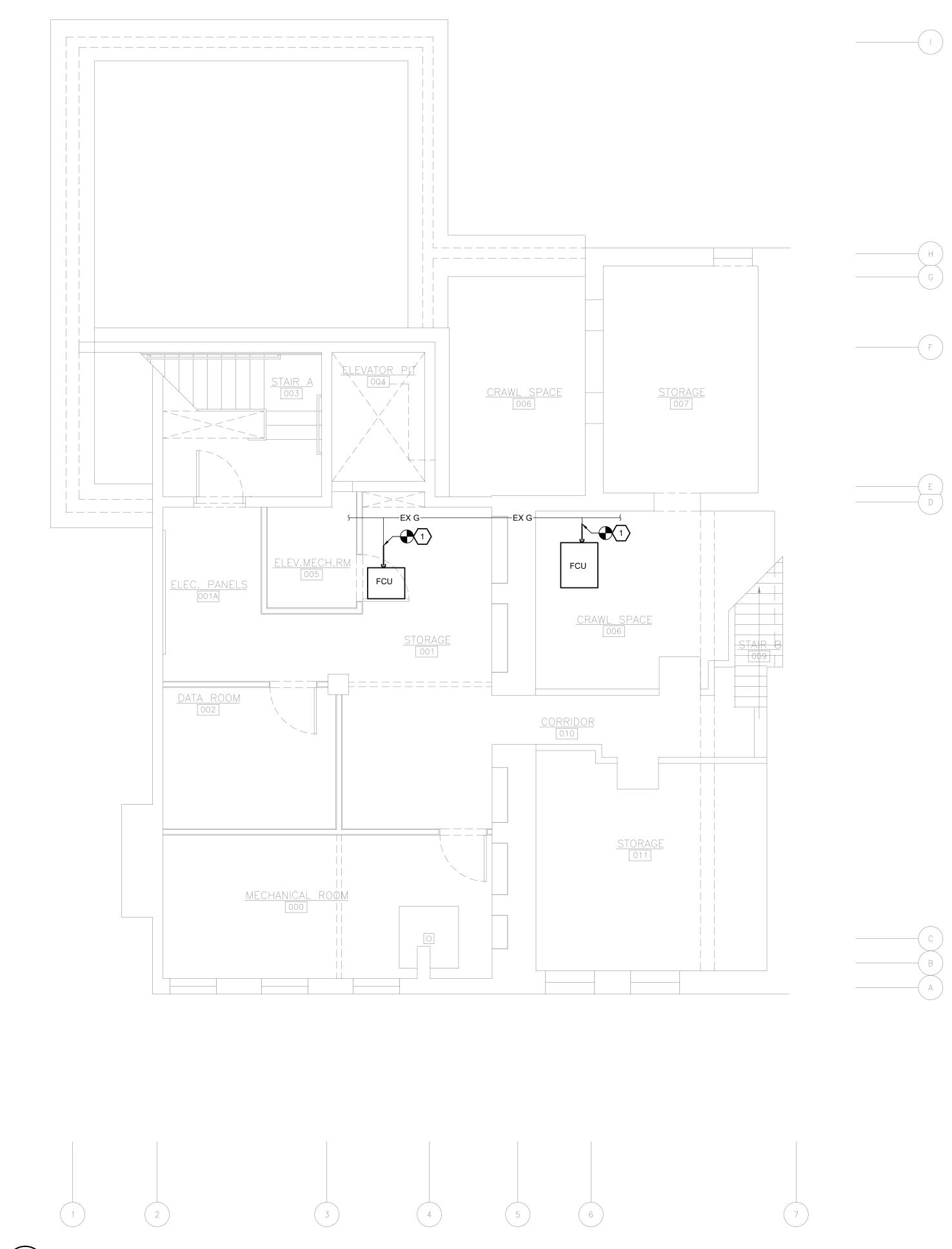
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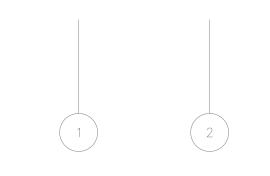


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER











#### PLUMBING GENERAL NOTES:

- COORDINATE LOCATIONS OF PIPING AND FIXTURES WITH ARCHITECT.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY.

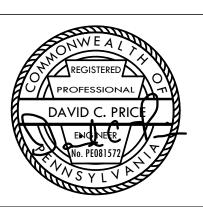
#### PLUMBING KEY NOTES: (#)

1. PROVIDE GAS CONNECTION TO MECHANICAL EQUIPMENT AT THIS APPROXIMATE LOCATION. REFER TO DETAIL 1 ON SHEET P001 FOR WORK REQUIRED. CONNECT TO GAS PIPING CAPPED DURING DEMOLTION.

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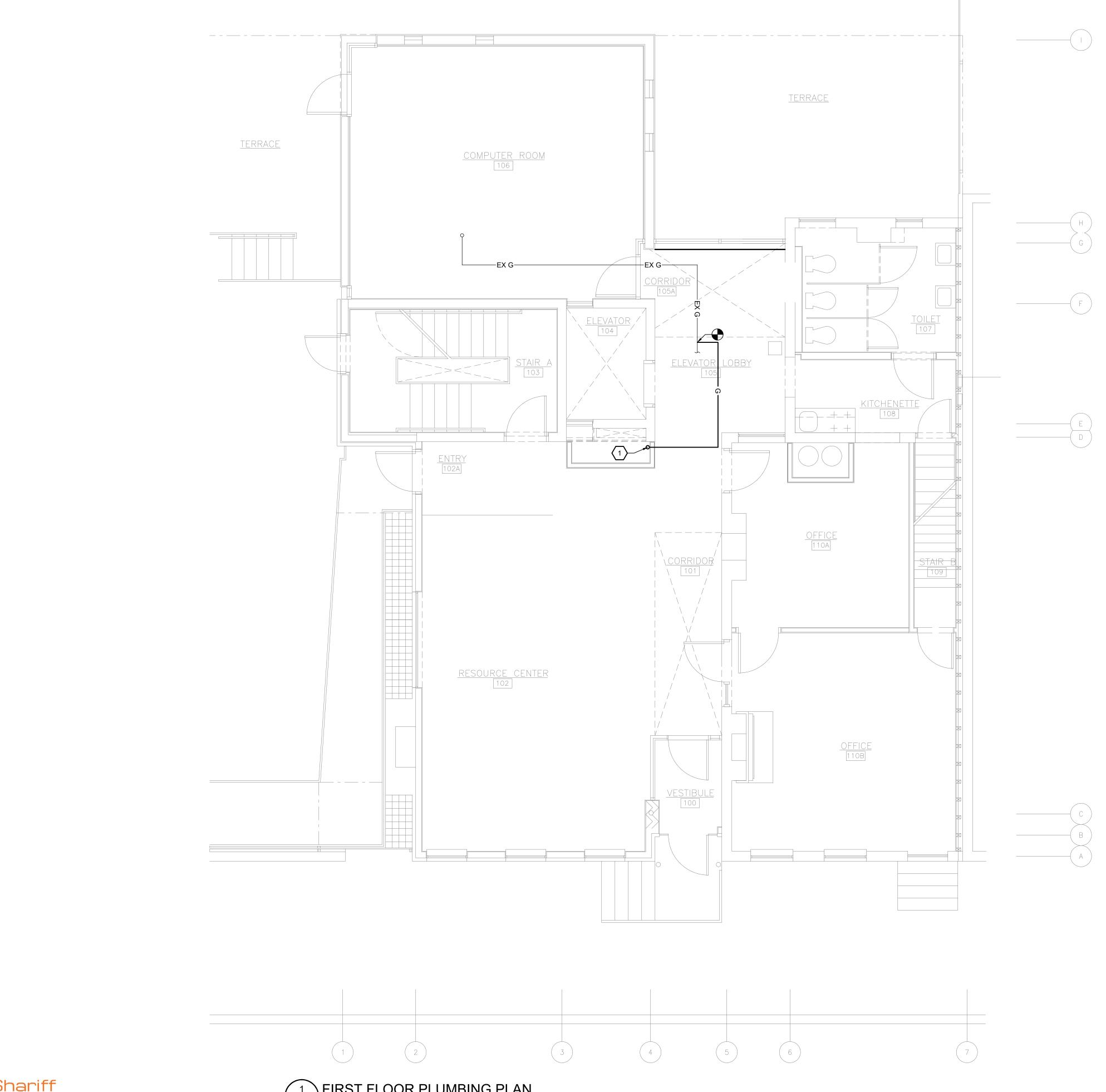
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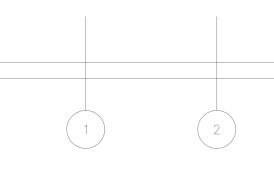


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**











#### PLUMBING GENERAL NOTES:

COORDINATE LOCATIONS OF PIPING AND FIXTURES WITH ARCHITECT.

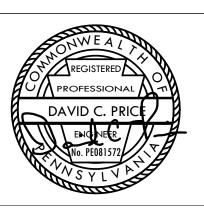
#### PLUMBING KEY NOTES: (#)

PROVIDE GAS PIPING UP TO SERVE NEW MECHANICAL EQUIPMENT ON 3RD FLOOR.

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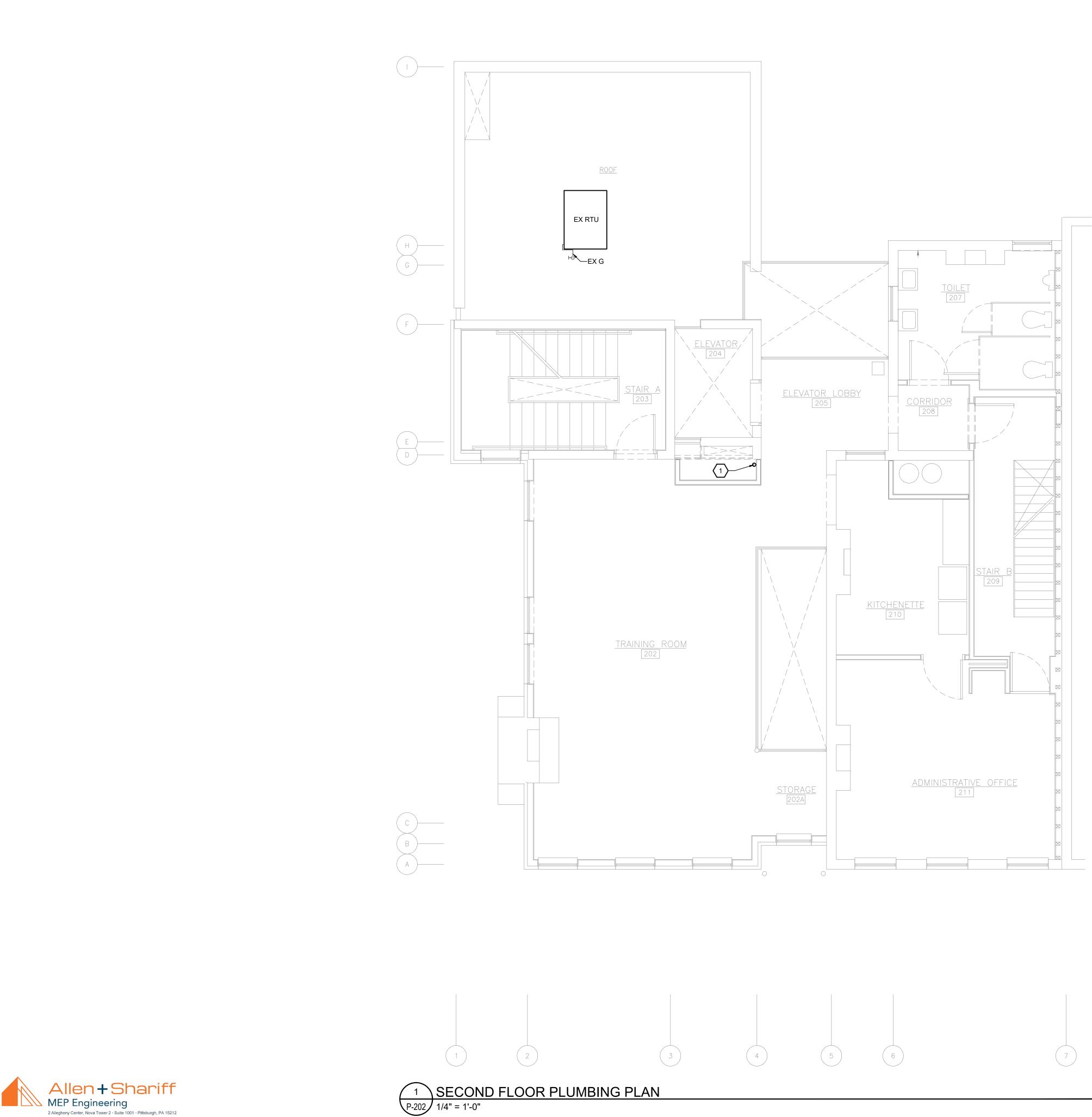
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





ASE JOB #2041090

#### PLUMBING GENERAL NOTES:

- COORDINATE LOCATIONS OF PIPING AND FIXTURES WITH ARCHITECT.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY.

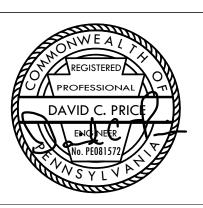
#### PLUMBING KEY NOTES: (#)

PROVIDE GAS PIPING UP TO SERVE NEW MECHANICAL EQUIPMENT ON THE 3RD FLOOR.

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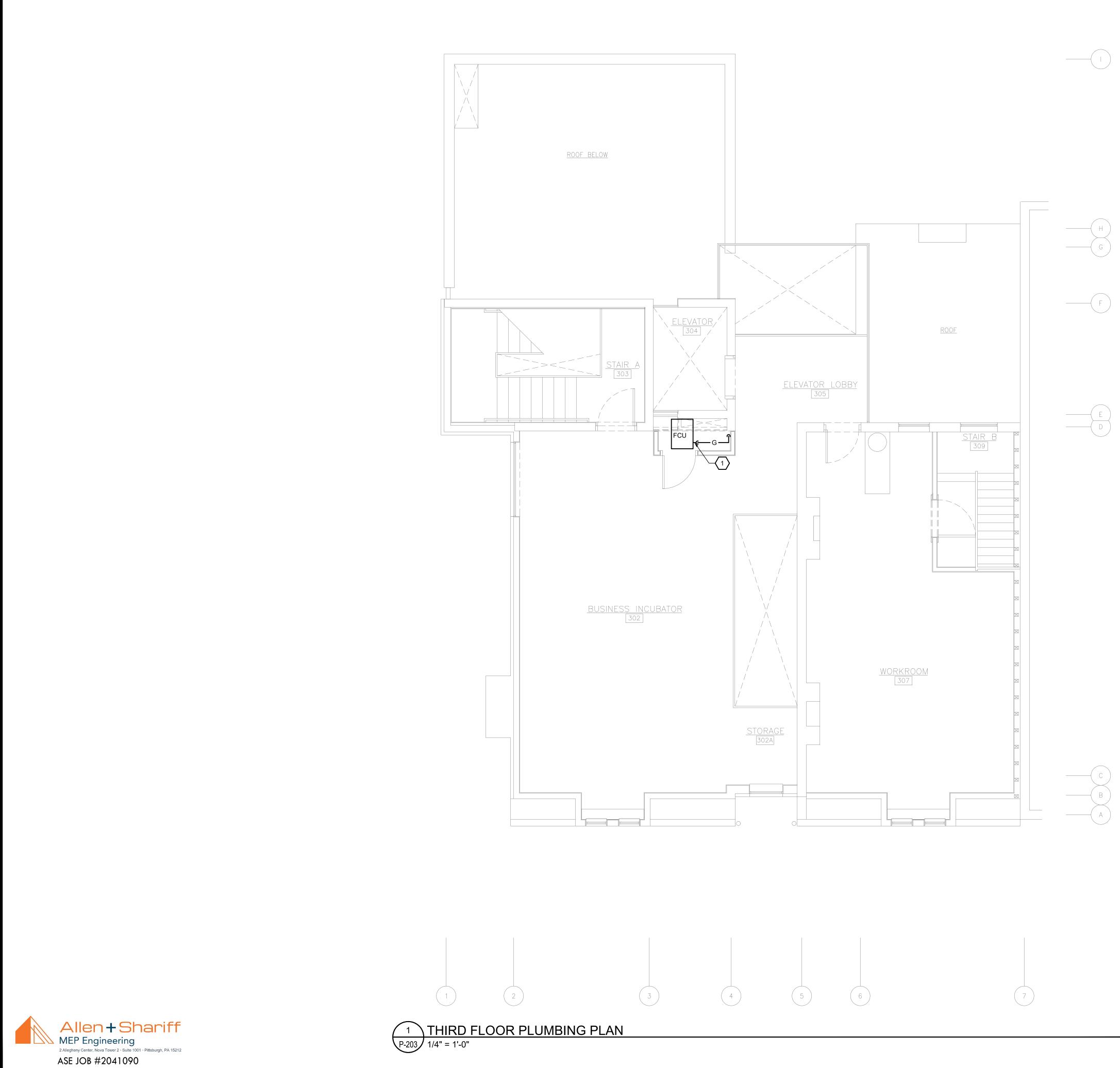
REVISIONS



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





#### PLUMBING GENERAL NOTES:

- COORDINATE LOCATIONS OF PIPING AND FIXTURES WITH ARCHITECT.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY.

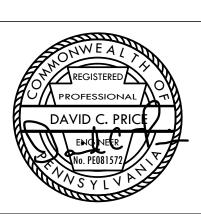
#### PLUMBING KEY NOTES: (#)

1. PROVIDE GAS CONNECTION TO MECHANICAL EQUIPMENT AT THIS APPROXIMATE LOCATION. REFER TO DETAIL 1 ON SHEET P001 FOR WORK REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.

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REVISIONS



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



#### GENERAL ELECTRICAL NOTES:

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

DEMOLITION: SEE "ELECTRICAL GENERAL DEMOLITION NOTES FOR ADDITIONAL DEMOLITION REQUIREMENTS.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT.

RECORD DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ARCHITECT OR ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #8 OR LARGER TO ENSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

<u>GROUNDING:</u> PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ELECTRICAL SYSTEM, INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL CIRCUITS.

LABELS: PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD, INCLUDING EXISTING PANELBOARDS MODIFIED FOR THIS PROJECT, WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING. NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS, AS THEY ARE OFTEN DIFFERENT.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS. PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN AND INSTALL MOTOR STARTERS.

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSIBLE SWITCHES IN LIEU OF NON-FUSIBLE SWITCHES OR FUSIBLE ENCLOSED CIRCUIT BREAKERS OR OTHER DEVICES INDICATED.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS. ROUGH-IN AND HOOK UP DETAILS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

EQUIPMENT DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

LIGHTING ARRANGEMENT: ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

LIGHTING COORDINATION: COORDINATE LIGHTING FIXTURES WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, ACCESS PANELS, ETC.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURES OR DEVICES ARE FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES AND FIRE ALARM DEVICES ARE TO THE BOTTOM OF THE FIXTURE OR DEVICE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, AND TELE/DATA OUTLETS WITH OTHER WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL STATIONS. DO NOT MOUNT WIRING DEVICES BACK TO BACK.

EWC RECEPTACLES: RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE EWC ENCLOSURE. VERIFY THE MOUNTING HEIGHT WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

DEVICE COORDINATION: THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK, DOOR SWINGS, AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

BARRIERS: WHERE A MULTIPLE GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION, USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

FIRE PROOFING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE RATED STRUCTURES, PROVIDE FIRE-PROOFING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE PROOFING FOR PENETRATIONS SHALL BE UL APPROVED PER THE THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT, CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES, AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

OWNER FURNISHED EQUIPMENT: CONTRACTOR SHALL OBTAIN CUT SHEETS, INSTALLATION DATA, AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT AND COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY ASSOCIATED WORK.

CONDUIT ROUTING: ALL CONDUIT RUN OVERHEAD SHALL BE RUN AT THE BOTTOM OF THE FLOOR, ROOF STRUCTURE, OR LOWEST CHORD OF JOIST SPACE (AS APPLICABLE) ABOVE IN ORDER TO AVOID CONFLICTS WITH OTHER TRADES.

WIRING DEVICES: ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH CLEAR PLASTIC LAMINATED LABEL WITH BLACK TEXT, NOTING PANELBOARD DESIGNATION AND CIRCUIT NUMBER FROM WHICH IT IS FED.

EQUIPMENT DEMONSTRATION: PROVIDE A DEMONSTRATION OF THE OPERATION OF ALL ELECTRICAL COMPONENTS.

CEILING AND MECHANICAL ROOM PLENUM: ALL WIRING THAT WILL NOT BE RUN IN METAL CONDUIT SHALL BE PLENUM RATED.

#### Allen+Sharif MEP Engineering 2 Allegheny Center, Nova Tower 2 · Suite 1001 · Pittsburgh, PA 15212 ASE JOB #2041090

#### ELECTRICAL GENERAL DEMOLITION NOTES

GENERAL: DEMOLITION DRAWINGS ARE BASED ON EXISTING PLANS AND FIELD INVESTIGATION PRIOR TO DEMOLITION. VISIT THE EXISTING BUILDI PRIOR TO BID IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND IN ORDER TO AVOID CONFLICTS.

DASHED ITEMS: ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS ARE EXISTING AND SHALL BE REMOVED COMPLETE INCLUDING BOXES, CONDUIT, WIRE, FASTENERS, AND ASSOCIATED APPURTENANCES UON.

SOLID ITEMS: ALL ITEMS SHOWN SOLID ON DEMOLITION PLANS ARE EXISTING TO REMAIN.

CIRCUITING TO REMAIN: WHERE AFFECTED BY NEW WORK, EXISTING CIRCUITING TO REMAIN SHALL BE REROUTED OR RECONNECTED AS REQUIRED, IN ORDER TO MAINTAIN CONTINUITY OF CIRCUIT.

REUSE OF EXISTING CIRCUITRY: EXISTING CIRCUITS SHALL BE REUSED WHERE CONVENIENT TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS INDICATED OR REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS THAT REMAIN.

EXISTING CONDUIT: ALL EXISTING CONDUITS AND WIRING THAT WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUIT TO REMAIN CONCEALED IN WALLS SHALL BE ABANDONED. EXISTING CONDUIT TO REMAIN BELOW FLOOR SLAB SHALL BE CUT OFF ONE INCH BELOW ROUGH FLOOR AND GROUTED FLUSH. ALL EXISTING WIRING IN CONDUITS TO BE ABANDONED SHALL BE DISCONNECTED FROM POWER SOURCE AND REMOVED.

REPAIR DAMAGE: EXERCISE CARE IN REMOVAL OF DEMOLITION ITEMS. REPAIR, AT NO ADDITIONAL COST TO OWNER, ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN.

ASSOCIATED APPURTENANCES: REMOVE ALL ELECTRICAL APPURTENANCES (DISCONNECTS, STARTERS, WIRING, CONDUIT, ETC.) ASSOCIATED WITH EQUIPMENT TO BE REMOVED BY OTHERS.

KNOCKOUT PLUGS AND COVERS: ALL CONDUIT REMOVED SHALL BE REMOVED IN ITS ENTIRETY, INCLUDING FITTINGS, MOUNTING DEVICES, MOUNTING HARDWARE, ETC. PROVIDE CONDUIT PLUGS AND BLANKS FOR ALL OPENINGS CREATED BY THE REMOVAL OF CONDUIT. PROVIDE BLANK COVER PLATES FOR ALL OPENED OUTLET BOXES CREATED BY THE REMOVAL OF THE EQUIPMENT AND/OR DEVICES.

DEMOLISHED MATERIALS: ALL MATERIALS REMOVED UNDER DEMOLITION. NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE.

SCHEDULE OUTAGES: ALL WORK AND ALL POWER OUTAGES SHALL BE SCHEDULED AT TIMES CONVENIENT TO THE OWNER.

EXISTING CIRCUITS: IF DURING THE COURSE OF CONSTRUCTION, IT IS DETERMINED BY THE CONTRACTOR THAT AN EXISTING CIRCUIT BECOMES SPARE, THE CONTRACTOR SHALL UPDATE THE PANELBOARD DIRECTORY TO INDICATE SUCH, EVEN IF IT IS NOT EXPLICITLY MARKED ON THE ELECTRICAL PLANS.

GENERAL SPECIAL SYSTEM NOTES:

TELEPHONE AND DATA SYSTEMS

THE TELEPHONE AND DATA SYSTEMS WILL BE FURNISHED AND INSTALLED THROUGH THE OWNER'S VENDOR (THE VENDOR) UNDER A SEPARATE CONTRACT. ALL CABLING AND WIRING (EXCEPT FOR POWER WIRING), J-HOOKS, JACKS, COVER PLATE COMPATIBLE WITH THE EQUIPMENT, DEVICES, RACKS, AND COMPONENT EQUIPMENT WILL BE PROVIDED BY THE VENDOR, UNLESS INDICATED OTHERWISE. THE VENDOR WILL PROVIDE INSTALLATION DURING CONSTRUCTION. THE ELECTRICAL CONTRACTOR (THE CONTRACTOR) SHALL COORDINATE ALL ROUGH-IN, BOX SIZES AND CONFIGURATIONS, CONDUIT SIZES AND ROUTING WITH THE VENDOR PRIOR TO INSTALLATION OF THE RACEWAY SYSTEM.

THE CONTRACTOR SHALL PROVIDE ALL CONDUIT WITH PULL WIRE, AND 4"X4"X2 1/4"BOX WITH SINGLE GANG PLASTER RING UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELECTRICAL REQUIREMENTS WITH THE VENDOR PRIOR TO ROUGH-IN.

STUB ALL CONDUITS WITH PULL WIRE FOR COMMUNICATIONS DEVICES TO ABOVE AN ACCESSIBLE CORRIDOR CEILING AND TERMINATE WITH INSULATED NYLON BUSHING. THE VENDOR WILL PROVIDE J-HOOKS ABOVE THE CEILING FROM THE STUB OUT TO EQUIPMENT LOCATION AS REQUIRED FOR HIS CABLING AND TERMINATE WITH INSULATED NYLON BUSHING. WHERE A WALL SEPARATES THE CONDUIT STUB OUT FROM THE EQUIPMENT LOCATION, PROVIDE A 1" MINIMUM SLEEVE THROUGH THE WALL, ABOVE AN ACCESSIBLE CEILING, TO ACCOMMODATE THE CABLING, ALL CONDUITS AND SLEEVES PENETRATING RATED FIRE OR SMOKE WALLS SHALL BE PROVIDED WITH APPROVED FIRE RETARDANT TO PROVIDE A UL RATED WALL PENETRATION ASSEMBLY. MAINTAIN VENDOR RECOMMENDED SEPARATION BETWEEN WIRING OF DIFFERENT SYSTEMS AND FROM INTERFERENCE PRODUCING ELECTRICAL DEVICES SUCH AS FLUORESCENT LIGHTS. BALLAST, TRANSFORMERS, RELAYS, MOTOR CONTROLS, ETC.

PROVIDE POWER CIRCUITS FOR TELECOMMUNICATIONS EQUIPMENT AS INDICATED.

THE CONTRACTOR SHALL PROVIDE ALL BACKBOXES, CONDUIT, GROUNDING AND SHALL INSTALL ALL SPECIAL BOXES WITH PLASTER RING FURNISHED BY THE VENDOR FOR THE TELECOMMUNICATIONS SYSTEMS IN ACCORDANCE WITH THE APPLICABLE CODES.

THE CONTRACTOR SHALL INSTALL ALL COMMUNICATIONS SLEEVES AND CONDUIT IN ACCORDANCE WITH DRAWINGS, ELECTRICAL SPECIFICATIONS, VENDOR WIRING DIAGRAMS, AND ALL APPLICABLE CODES.

THE GENERAL CONTRACTOR SHALL PROVIDE IN-WALL REINFORCEMENT AS NECESSARY FOR ALL COMMUNICATIONS CABINETS, SHELVES, BRACKETS, FURNITURE MOUNTS, ETC. AND SHALL MOUNT CABINETS, SHELVES, BRACKETS, AND FURNITURE MOUNTS IN ACCORDANCE WITH DRAWINGS, VENDOR SUBMITTALS, AND ALL APPLICABLE CODES.

COORDINATE FINAL LOCATIONS AND ELEVATIONS OF ALL TELECOMMUNICATIONS DEVICES AND OUTLETS WITH ARCHITECTURAL PLANS, CASEWORK AND ELEVATIONS, AND VENDOR REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE A COMPLETION SCHEDULE BROKEN DOWN BY PROJECT PHASES, FOR TURNOVER OF COMPLETED COMMUNICATIONS ROUGH-IN FOR VENDOR FINISH WORK. THE CONTRACTOR SHALL COORDINATE TURNOVER WITH VENDORS, AND SHALL TURNOVER AREAS FOR VENDOR FINISH WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA VENDOR COST RESULTING FROM INCORRECT COMMUNICATIONS ROUGH-IN.

NOTIFICATION: NOTIFY THE OWNER PRIOR TO TURNING OFF ANY CIRCUITS.

	-					
${\pmb \Phi}^{\sf WP}$	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTING TYPE, 20A, 120V, WITH COOPER MODEL WIU-1D (OR EQUAL) "WHILE-IN-USE" WEATHERPROOF COVER, 18"AFG UON.					
J	JUNCTION BOX - ABOVE CEILINGS OR FLUSH IN WALLS.					
	ELECTRICAL PANELBOARD					
	ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR, AND 1 #12 GROUNDING CONDUCTOR IN 3/4" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS SHALL BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. NEUTRAL AND GROUNDING CONDUCTORS SHALL BE SHARED AS ALLOWED BY THE NEC. CONDUIT LARGER THAN 3/4" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.					
	FIRE ALARM					
FACP	FIRE ALARM CONTROL PANEL, SURFACE MOUNTED, TOP 5'-9" AFF.					
FAAP	FIRE ALARM ANNUNCIATOR PANEL, RECESSED, TOP 5'-0" AFF.					
NACP	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL, SURFACE MOUNTED, TOP, 5'-9" AFF.					
F	FIRE ALARM MANUAL PULL STATION, 44"AFF TO ACTUATING ARM, UON.					
SD	ADDRESSABLE FIRE ALARM SYSTEM PHOTO-ELECTRIC SMOKE DETECTOR, CEILING MOUNTED.					
DD	DUCT MOUNTED ADDRESSABLE FIRE ALARM SYSTEM PHOTO-ELECTRIC SMOKE DETECTOR.					
MM FIRE ALARM SYSTEM MONITOR MODULE.						
CM FIRE ALARM SYSTEM CONTROL MODULE.						
$\sum_{30}$	FIRE ALARM VISUAL (STROBE) APPLIANCE, CEILING MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.					
$\mathcal{Q}_{_{30}}$	FIRE ALARM SYSTEM VISUAL (STROBE) APPLIANCE, WALL MOUNTED AT 80" AFF TO BOTTOM OF LENS, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.					

FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, CEILING

FIRE ALARM SYSTEM AUDIO/VISUAL (HORN/STROBE), WALL MOUNTED AT

WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA

SMOKE DAMPER CONNECTION, 120V. REFER TO DETAIL 2/E-501 FOR

MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.

80" AFF TO BOTTOM OF LENS, OR 6" BELOW FINISHED CEILING,

FIRE ALARM SYSTEM ADDRESSABLE REMOTE TEST SWITCH.

POWER

	LIGHTING
	LIGHTING FIXTURE.
0	DOWNLIGHT FIXTURE.
2 🖵	WALL MOUNTED LIGHTING FIXTURE.
	LIGHTING FIXTURE WITH EMERGENCY BATTERY. TYPICAL ALL FIXTU TYPES.
Y	EMERGENCY LIGHTING REMOTE UNIT, CONNECT AHEAD OF LOCAL CONTROLS.
	EMERGENCY BATTERY LIGHTING UNIT, CONNECT AHEAD OF LOCAL CONTROLS.
	EXIT LIGHTING FIXTURE WITH EMERGENCY HEADS AND DIRECTIONA ARROWS AS INDICATED ON DRAWINGS. CONNECT TO LIGHTING CIR AHEAD OF LOCAL CONTROLS. SHADED AREA DENOTES LIGHTED FA
\$ <sub>a</sub>	SINGLE POLE SWITCH, 20A, 120/277V, 44"AFF UON. SUBSCRIPT "a" INDICATES ASSOCIATED FIXTURES TO BE CONTROLLED.
\$ <sub>L1a</sub>	LOW VOLTAGE SWITCH FOR ON/OFF CONTROL OF A SINGLE ZONE, 4 AFF UON. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C2X OR APPROVED EQUAL.
\$ <sub>D1a</sub>	LOW VOLTAGE SWITCH FOR ON/OFF AND RAISE/LOWER CONTROL O SINGLE ZONE, 44" AFF UON. SUBSCRIPT "a", WHERE USED, INDICATE ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C4X OR APPROVED EQUAL.
\$ <sub>D2a,b</sub>	LOW VOLTAGE SWITCH FOR ON/OFF AND RAISE/LOWER CONTROL O TWO ZONES, 44" AFF UON. SUBSCRIPT "a,b", WHERE USED, INDICATE ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C8X OR APPROVED EQUAL.
\$ <sub>VSa</sub>	LINE VOLTAGE DUAL TECHNOLOGY WALL SWITCH VACANCY SENSO WITH ON/OFF CONTROL (MANUAL ON), 44" AFF UON. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO BE CONTROLL PROVIDE GREENGATE MODEL #VNW-D OR APPROVED EQUAL.
VSa	ANALOG 360-DEGREE MULTI-TECHNOLOGY VACANCY SENSOR. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO CONTROLLED. PROVIDE LEVITON MODEL #OSC10-MOW OR APPROVE EQUAL. PROVIDE COMPATIBLE SMART PACK FOR EACH CONTROL ZO PROVIDE COMPATIBLE 2-PORT ANALOG INTERFACE.
OS a	ANALOG 360-DEGREE MULTI-TECHNOLOGY OCCUPANCY SENSOR. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO CONTROLLED. PROVIDE LEVITON MODEL #OSC10-MOW OR APPROVE EQUAL. PROVIDE COMPATIBLE SMART PACK FOR EACH CONTROL ZO PROVIDE COMPATIBLE 2-PORT ANALOG INTERFACE. (NOTE: SAME PRODUCT AS "VACANCY" SENSOR, NOTED DIFFERENT TO INDICATE CONTROL STRATEGY)
SP a	GREENMAX DRC SMART PACK MODEL #DRD07-EDO OR APPROVED EQUAL. SUBCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTU TO BE CONTROLLED.
2P	LEVITON 2-PORT ANALOG INTERFACE MODEL #DRIDO-CB2 OR APPROVED EQUAL.
RC	GREENMAX DRC LINE VOLTAGE ROOM CONTROLLER MODEL # DRC07-EDO OR APPROVED EQUAL.
	LIGHTING FIXTURE KEY
Aa O NL	<ol> <li>LETTER "A" DENOTES FIXTURE TYPE. REFER TO LIGHTING FIXTUR SCHEDULE.</li> <li>ASSOCIATED LETTER "a", WHERE USED, INDICATES LIGHTING FIXT CONTROL DEVICE DESIGNATION.</li> <li>"NL" INDICATES A NIGHT LIGHT FIXTURE CIRCUITED AHEAD OF LO CONTROLS.</li> </ol>

GENERAL

MORE INFORMATION.

KEYNOTE.

AV30

MFSD

RT

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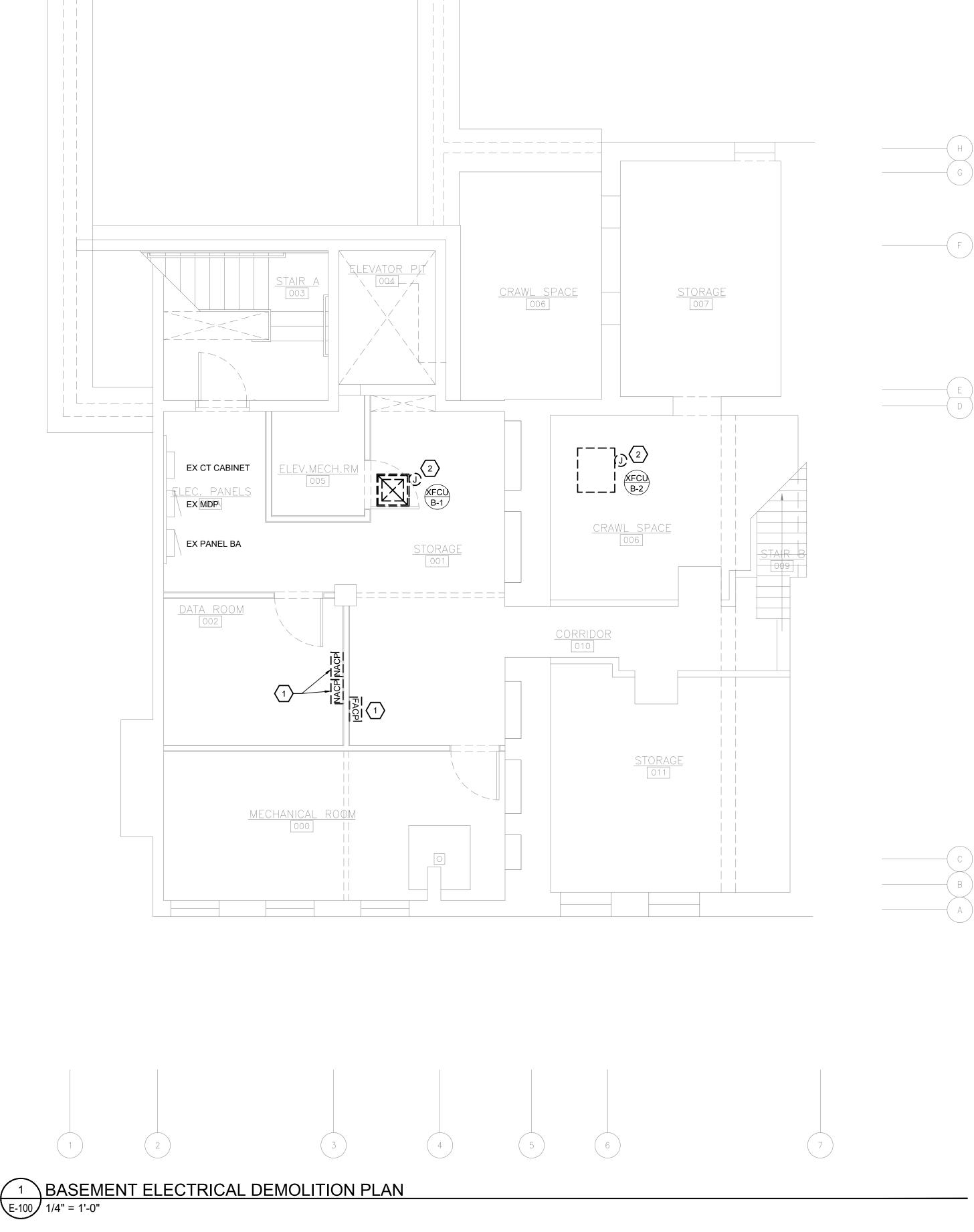
LINEWEIGHTS						
	NEW					
	EXISTING					
	REMOVE EXISTING					

			ELECTRICAL ABBREVIATIONS	FOR	CONSTR	UCTION
		А	AMPERE			
		AFF				
	_	AFG AHU	ABOVE FINISHED GRADE	COPYRIGHT PROT AND DESIGNS INC	TECTION ACT OF 1990. REPRODUC	1990 AND KNOWN AS THE ARCHITECTURAL WORKS TION AND USE OF THIS DOCUMENT OR THE IDEAS THORIZATION OF GERARD ASSOCIATES ARCHITECTS,
	-	AIC	AMPERE INTERRUPTING CURRENT			BE CHECKED AND VERIFIED BY THE CONTRACTOR AT
L ALL FIXTURE		ATS	AUTOMATIC TRANSFER SWITCH	REVISIO	) N S	
		AV	AUDIO/VISUAL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
OF LOCAL		BFG C	BELOW FINISHED GRADE			
OF LOCAL	_	СВ	CIRCUIT BREAKER			
DIRECTIONAL GHTING CIRCUIT	_	СКТ	CIRCUIT			
LIGHTED FACE.		EBU	EMERGENCT BATTERY UNIT			
CRIPT "a"		EC	EMPTY CONDUIT			
GLE ZONE, 44" OCIATED		EC	ELECTRICAL CONTRACTOR			
DDEL		ECB				
	-	EF ETR	EXHAUST FAN EXISTING TO REMAIN			
CONTROL OF A D, INDICATES GREENMAX		EWC	ELECTRIC WATER COOLER			
	-	EWH	ELECTRIC WATER HEATER			
CONTROL OF A		EX	EXISTING			
D, INDICATES BREENMAX		FLA	FULL LOAD AMPS			
		GC	GENERAL CONTRACTOR			
NCY SENSOR SCRIPT "a",		GFCI	GROUND FAULT CIRCUIT INTERRUPTER			
CONTROLLED. QUAL.		GND	GROUND			
NSOR.		HID	HIGH INTENSITY DISCHARGE			
IXTURES TO BE OR APPROVED CONTROL ZONE.		HP	HORSE POWER/HEAT PUMP			
JONTROL ZONE.		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING			
SENSOR. IXTURES TO BE	_	IG	ISOLATED GROUND			
OR APPROVED CONTROL ZONE.		JB	JUNCTION BOX			
DIFFERENTLY		KVA	KILO-VOLT AMPERE			
PPROVED			KILO-WATT			
ATED FIXTURES	_	LC LTG	LIGHTING CONTACTOR			
32 OR	_	MAU	MAKE UP AIR UNIT			
52 01		MCA	MINIMUM CIRUIT AMPS	ENO.	AWEAL IN	
DEL #		MC	MECHANICAL CONTRACTOR			
		MC	METAL CLAD			
		MCB	MAIN CIRCUIT BREAKER		ENGINER No. PE081572	
ING FIXTURE			MANUFACTURER		VSYLVA SYLVA	
HEAD OF LOCAL	_		MAIN LUGS ONLY			
	-		NON-FUSED	PROPE	ERTY REHAB	LITATION FOR:
	_		NIGHT LIGHT			
		NTS	NOT TO SCALE		DTACK	ORDER #35
		OC	ON CENTER			
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		ELOPME	
		Р	POLE		ORTUNI	TIES CENTER
	_		PLUMBING CONTRACTOR	REH/	ΔR	
	-		PUMP CONTROL PANEL		VERPOOL STREE	Т
	_		POWER FACTOR PANEL	BUILDIN	G #35 RGH, PA 15233	
	-  -		PANELBOARD	111300		
	┝	Ø PRI	PHASE			
	-		ROOF TOP UNIT			
	-	SEC	SECONDARY			
		TBB	TELEPHONE BACKBOARD			
		TR	TAMPER RESISTANT			
		TYP	TYPICAL			
	_		UNLESS OTHERWISE NOTED			I
	_	V VAC	VOLTS VOLTS ALTERNATING CURRENT			
	F	VAV	VARIABLE AIR VOLUME	IG	ER	AKD
	F	VDC	VOLTS DIRECT CURRENT	ASS		ARCHITECTS
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		W	WATTS/WIRE	PITTSBL	JRGH, PENNSY	IVANIA 15219-1333
	Ļ	WP	WEATHERPROOF	PHONE	: 412-566-153	1 FAX: 412-566-1532
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CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHING. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH SALVAGING AND REINSTALLING EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.

1





#### ELECTRICAL DEMOLITION GENERAL NOTES:

- 1. ELECTRICAL DISTRIBUTION EQUIPMENT IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
- 6. ALL EXISTING LIGHTING FIXTURES, EMERGENCY BATTERY HEADS, EMERGENCY LIGHTING INVERTERS, EXIT SIGNS AND ASSOCIATED CONTROL DEVICES SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. THE MAJORITY OF LIGHTING EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE. REFER TO ALTERNATE NOTE ON THIS SHEET FOR MORE INFORMATION.
- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATING DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.

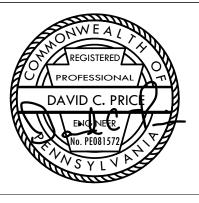
#### ELECTRICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

- 1. DEMOLISH EXISTING FIRE ALARM HEAD-END EQUIPMENT INCLUDING BUT NOT LIMITED TO FACP, NACP, DACT, FAAP, ETC. MAINTAIN ALL EXISTING FIRE ALARM CIRCUITS TO EXISTING TO REMAIN FIRE ALARM NOTIFICATION AND INITIATING DEVICES FOR CONNECTION TO NEW FACP. REFER TO NEW FIRE ALARM WORK PLANS FOR MORE INFORMATION.
- 2. DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO EXISTING FURNACE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW FURNACE. REFER TO NEW BASEMENT POWER WORK PLAN FOR MORE INFORMATION.

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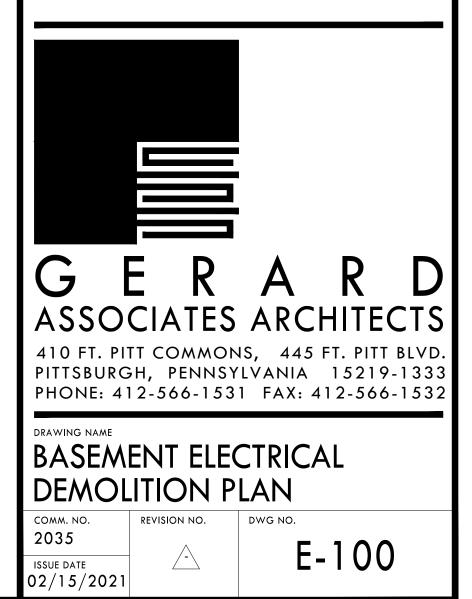
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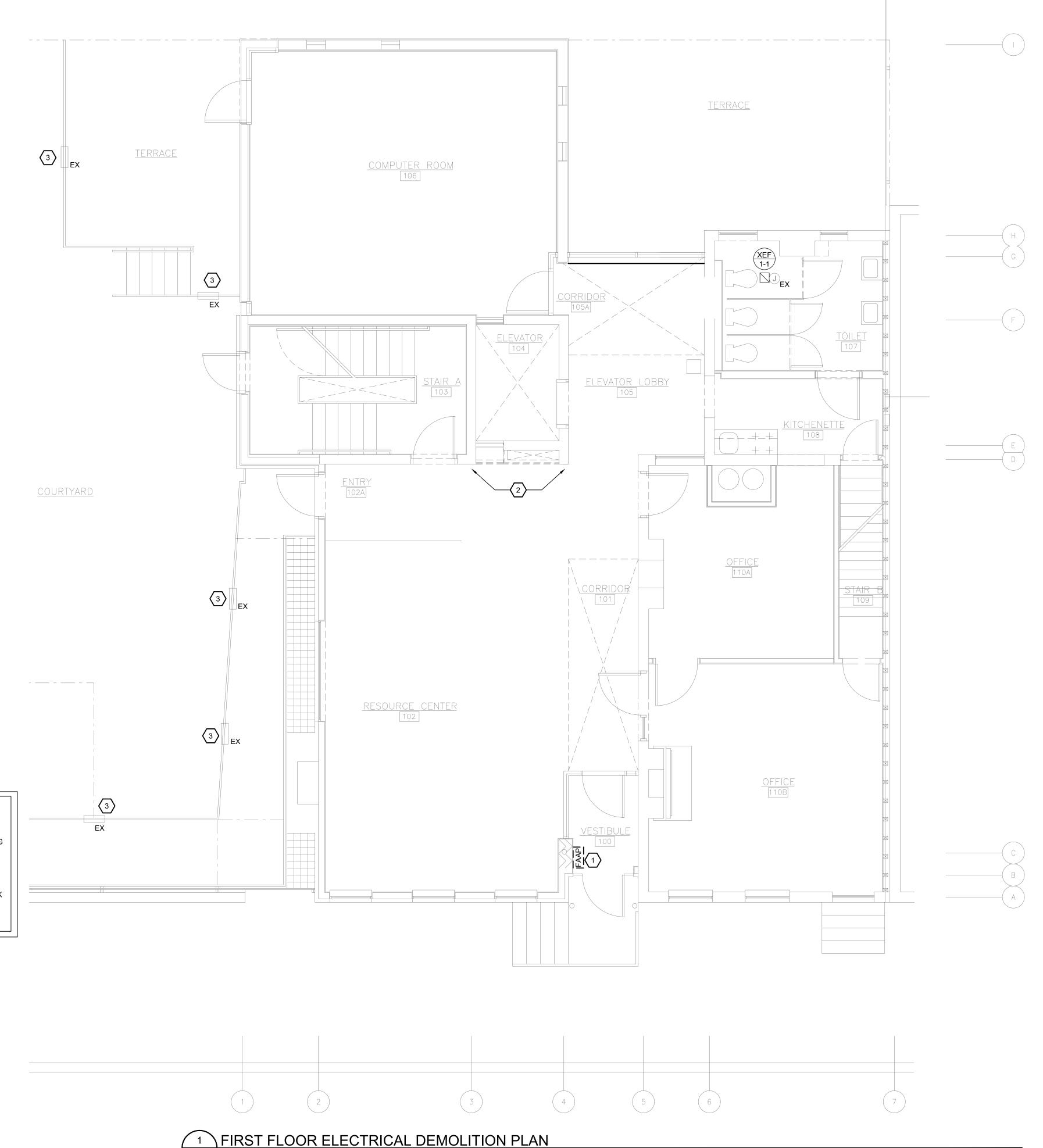
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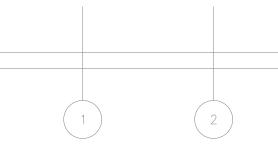
### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





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E-101 1/4" = 1'-0"

#### ELECTRICAL DEMOLITION GENERAL NOTES:

- 1. ELECTRICAL DISTRIBUTION EQUIPMENT IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
- 6. ALL EXISTING LIGHTING FIXTURES, EMERGENCY BATTERY HEADS, EMERGENCY LIGHTING INVERTERS, EXIT SIGNS AND ASSOCIATED CONTROL DEVICES SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. THE MAJORITY OF LIGHTING EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE. REFER TO ALTERNATE NOTE ON THIS SHEET FOR MORE INFORMATION.
- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.

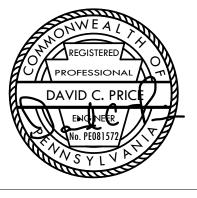
ELECTRICAL DEMOLITION KEY NOTES:  $\langle \# \rangle$ 

- 1. DEMOLISH EXISTING FIRE ALARM ANNUNCIATOR PANEL.
- 2. DISCONNECT AND REMOVE ALL DEVICES THAT CONFLICT WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE SALVAGED FOR REINSTALLATION AND WHICH DEVICES SHALL BE DEMOLISHED. REFER TO NEW WORK PLANS FOR MORE INFORMATION.
- 3. EXTERIOR STEP LIGHT IS EXISTING TO REMAIN. MAINTAIN EXISTING LIGHTING CIRCUIT(S) AND CONTROL DEVICE(S).

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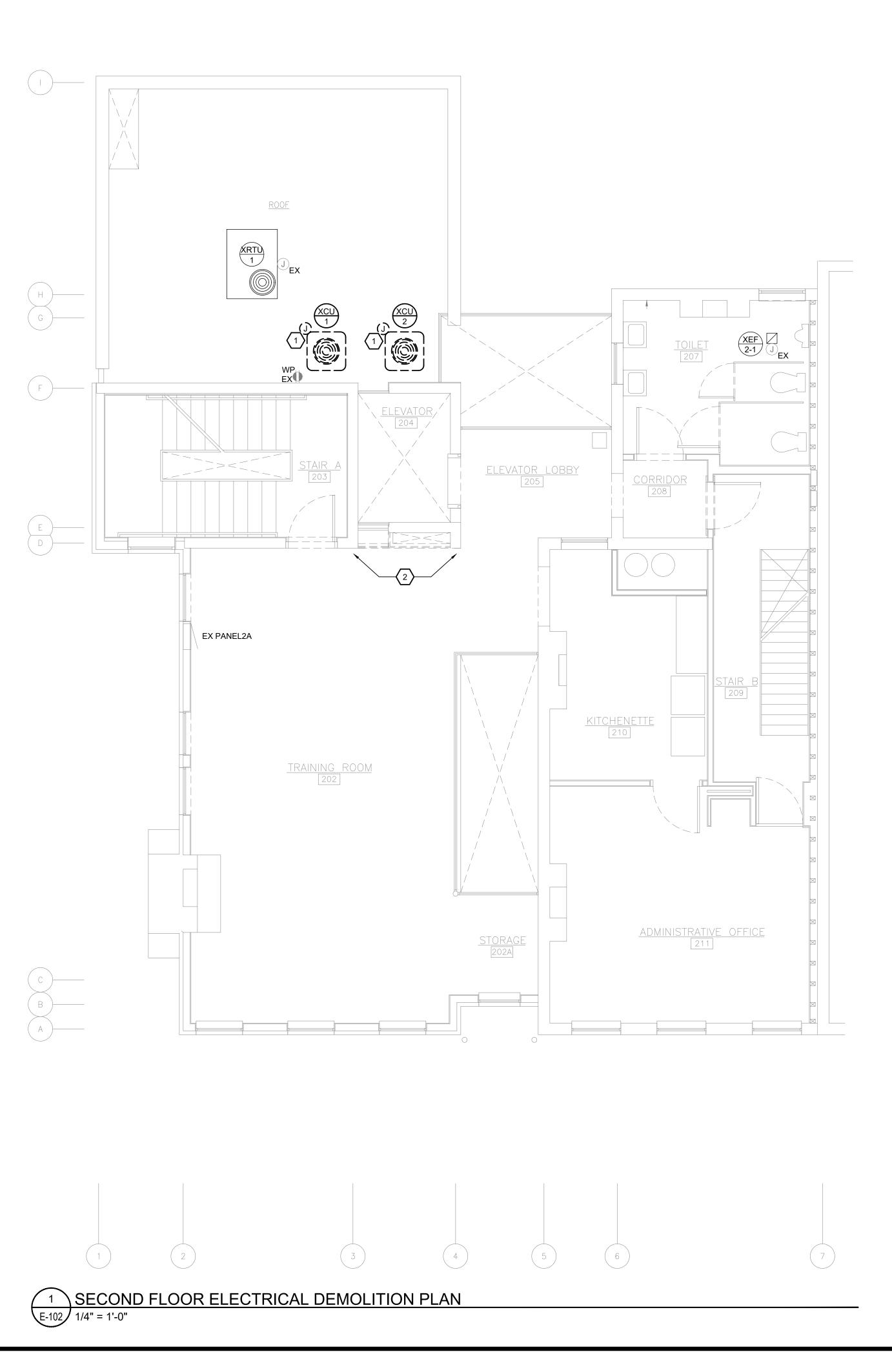
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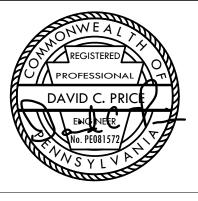
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- ELECTRICAL DEMOLITION KEY NOTES: (#)
- 1. DEMOLISH ELECTRICAL CONNECTION TO EXISTING CONDENSING UNIT BACK TO SOURCE. DEMOLISH ANY AND ALL ASSOCIATED CONDUIT, WIRING, AND DISCONNECTS, ETC.
- 2. DISCONNECT AND REMOVE ALL DEVICES THAT CONFLICT WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE SALVAGED FOR REINSTALLATION AND WHICH DEVICES SHALL BE DEMOLISHED. REFER TO NEW WORK PLANS FOR MORE INFORMATION.

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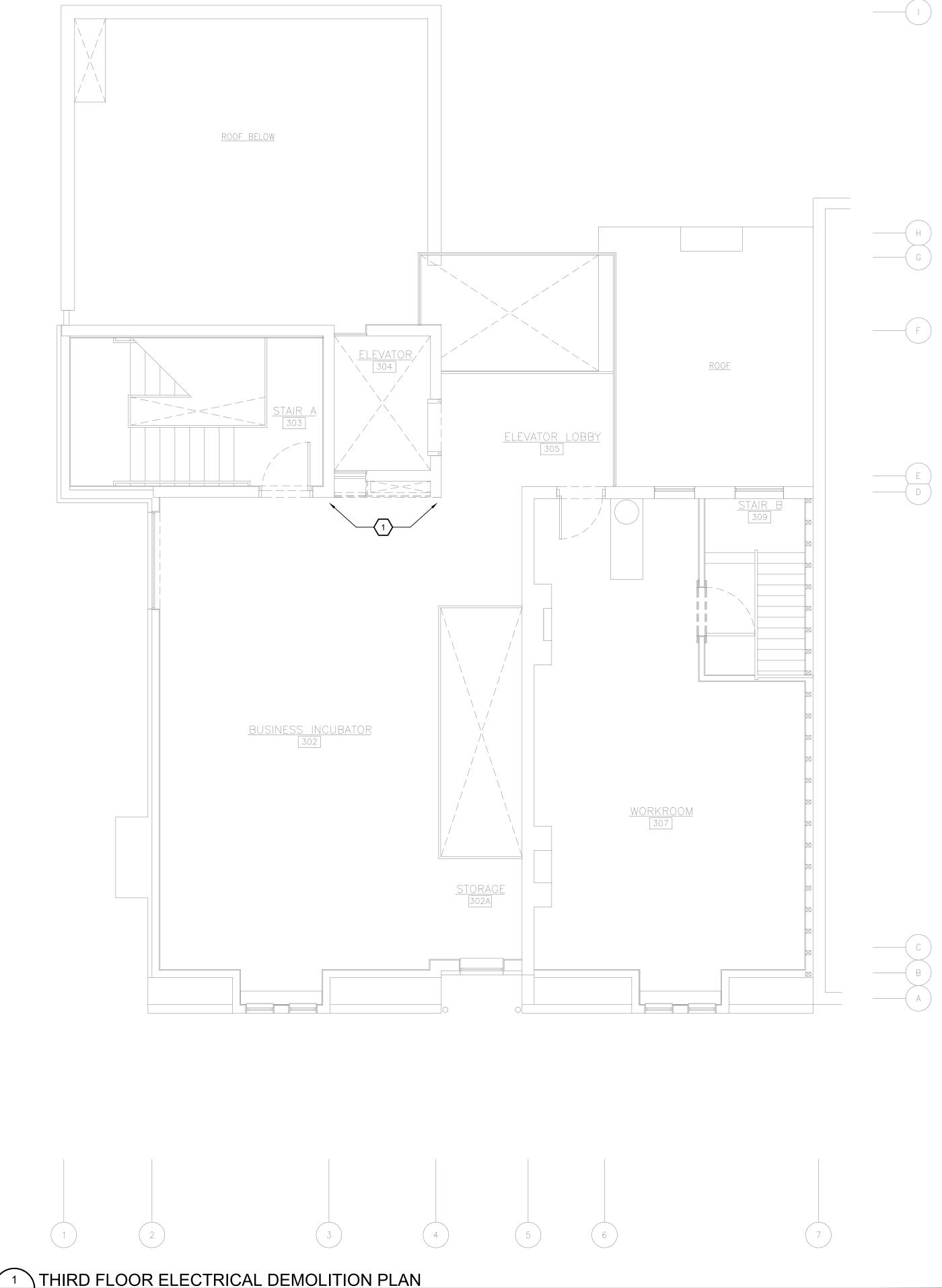
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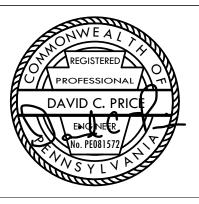
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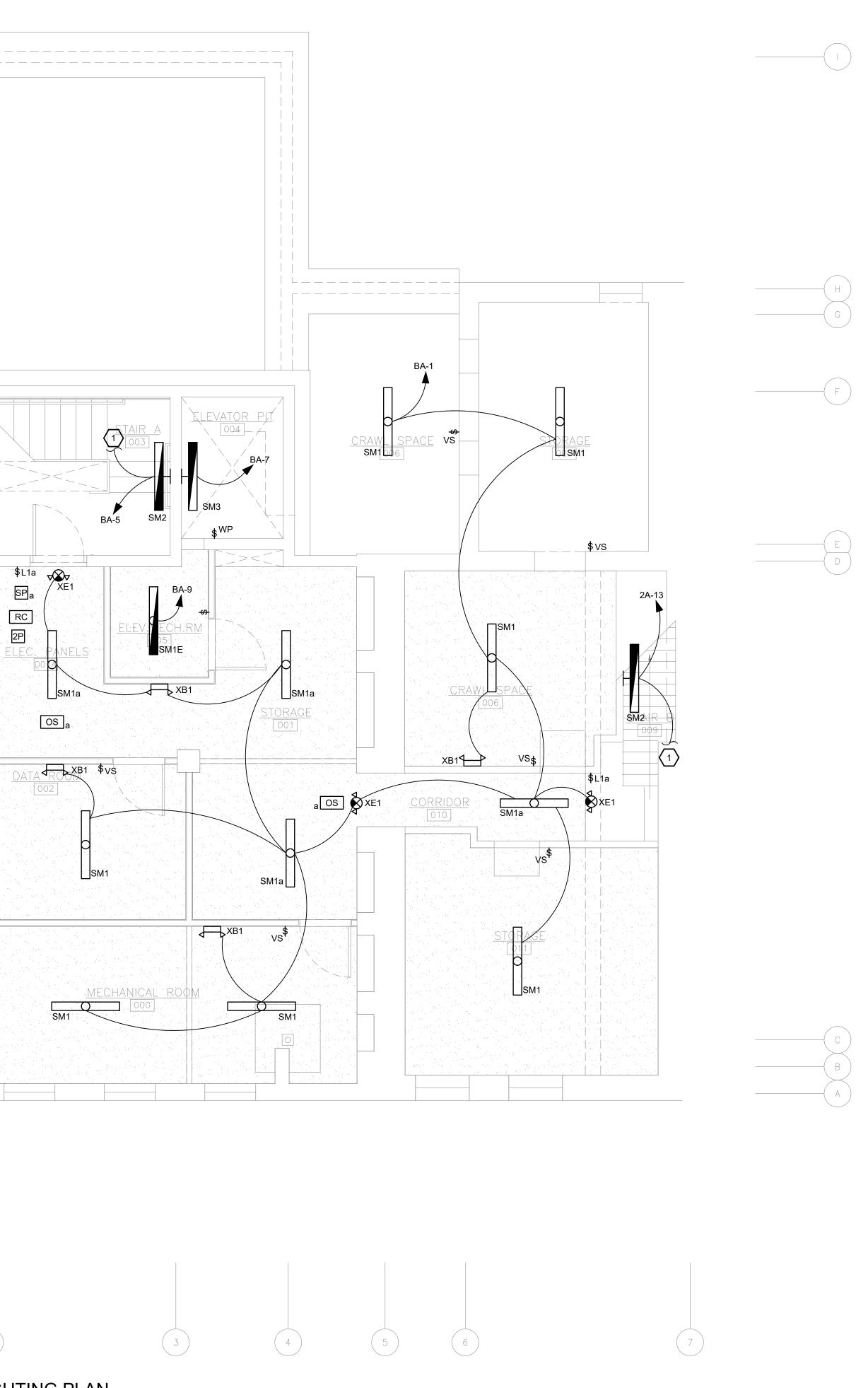
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#### LIGHTING GENERAL NOTES:

- 1. FIRE STOP ALL FIRE RATED FLOORS, CEILINGS, AND WALLS AS REQUIRED BY CODE. PENETRATIONS INTO OR THROUGH FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH IBC CHAPTER 7.
- 2. PROVIDE EXPANSION FITTINGS AS REQUIRED AT ALL EXPANSION JOINTS. COORDINATE WITH ARCHITECTURAL PLANS.
- 3. WHERE EXPOSED, BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. WHERE CONCEALED WITHIN WALLS OR ABOVE CEILING, MC CABLE IS PERMISSIBLE. EXPOSED CONDUIT SHALL BE PAINTED PER ARCHITECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
- 5. EXIT SIGNS AND EMERGENCY WALL PACKS SHALL BE CIRCUITED TO AN UNSWITCHED HOT LEG OF THE CIRCUIT NOTED AHEAD OF LOCAL CONTROLS.
- 6. OCCUPANCY / VACANCY SENSORS HAVE BEEN LOCATED PER THE RECOMMENDED SPACING OF THE BASIS OF DESIGN PRODUCTS. THE EXACT LOCATIONS AND QUANTITY OF SENSORS SHALL BE VERIFIED BY THE MANUFACTURER FOR PRODUCTS SUBMITTED AS EQUALS.

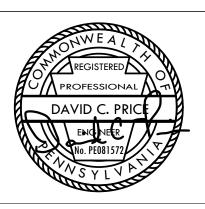
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1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.

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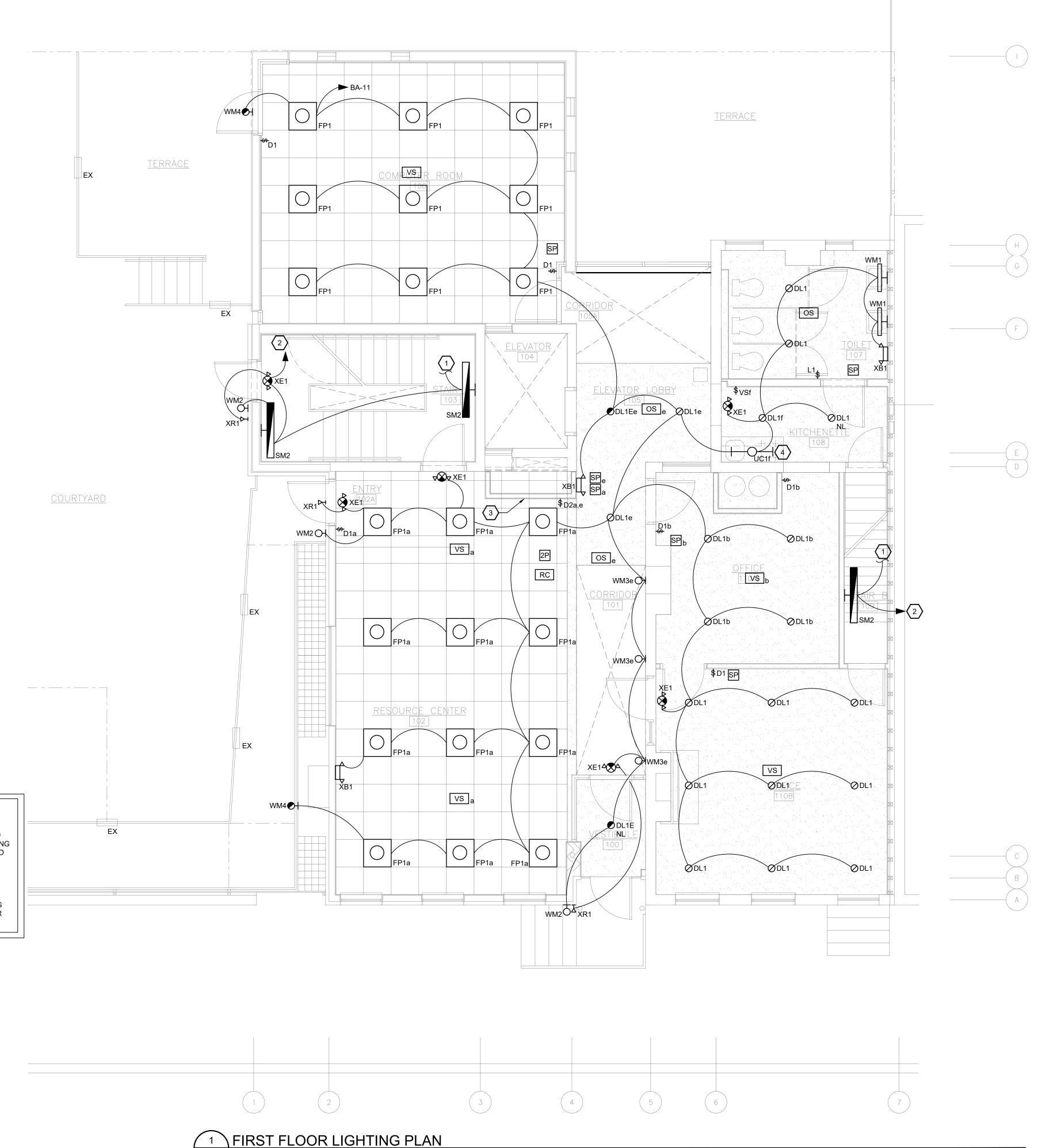
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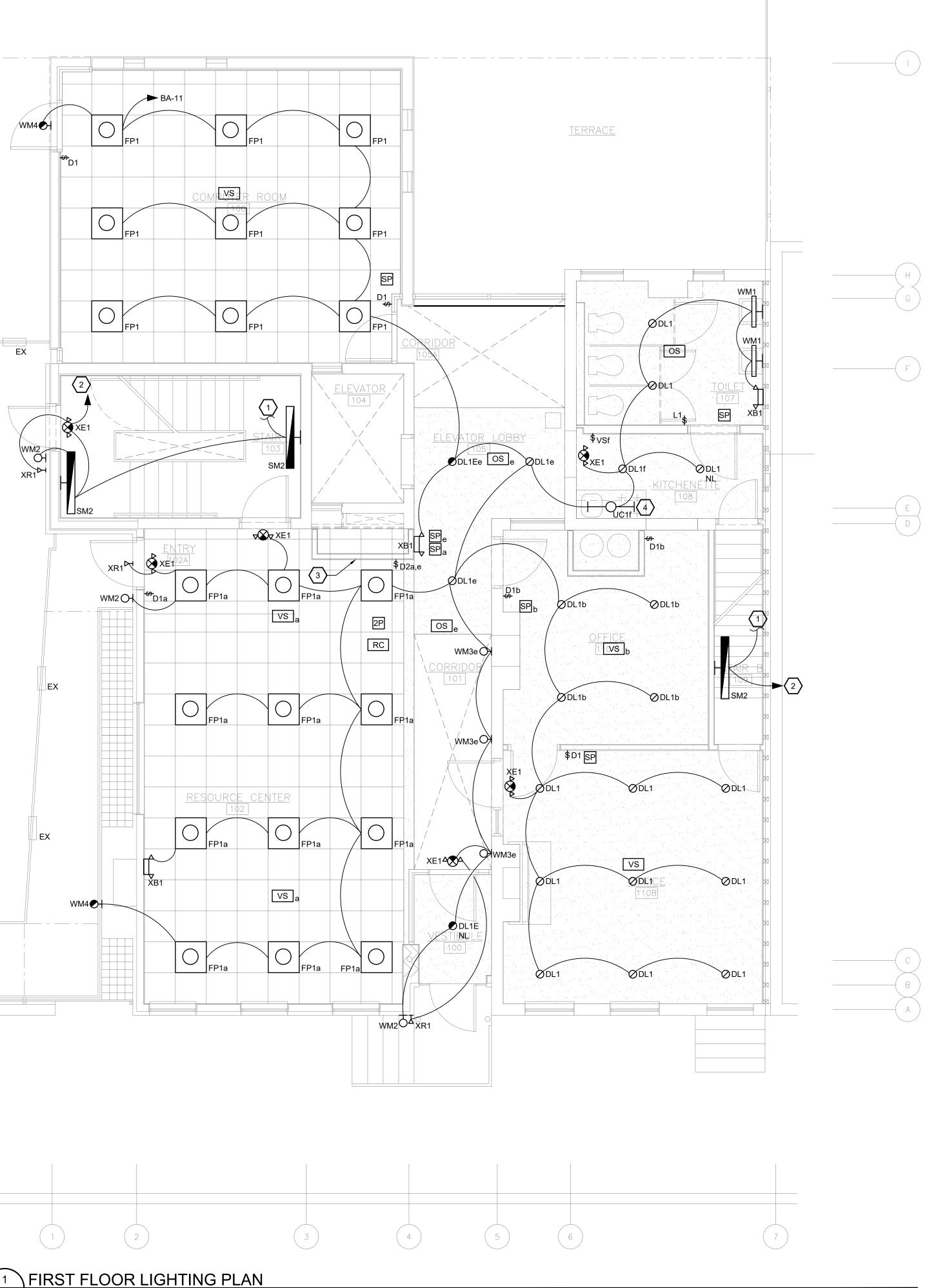
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#### LIGHTING GENERAL NOTES:

- 1. FIRE STOP ALL FIRE RATED FLOORS, CEILINGS, AND WALLS AS REQUIRED BY CODE. PENETRATIONS INTO OR THROUGH FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH IBC CHAPTER 7.
- 2. PROVIDE EXPANSION FITTINGS AS REQUIRED AT ALL EXPANSION JOINTS. COORDINATE WITH ARCHITECTURAL PLANS.
- 3. WHERE EXPOSED, BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. WHERE CONCEALED WITHIN WALLS OR ABOVE CEILING, MC CABLE IS PERMISSIBLE. EXPOSED CONDUIT SHALL BE PAINTED PER ARCHITECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
- 5. EXIT SIGNS AND EMERGENCY WALL PACKS SHALL BE CIRCUITED TO AN UNSWITCHED HOT LEG OF THE CIRCUIT NOTED AHEAD OF LOCAL CONTROLS.
- 6. OCCUPANCY / VACANCY SENSORS HAVE BEEN LOCATED PER THE RECOMMENDED SPACING OF THE BASIS OF DESIGN PRODUCTS. THE EXACT LOCATIONS AND QUANTITY OF SENSORS SHALL BE VERIFIED BY THE MANUFACTURER FOR PRODUCTS SUBMITTED AS EQUALS.

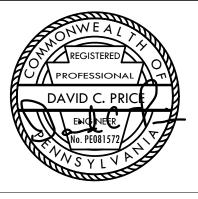
#### LIGHTING KEY NOTES: (#)

- 1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.
- 2. CIRCUIT LIGHTING FIXTURES TO CIRCUIT SERVING THIS STAIRWELL. REFER TO BASEMENT LIGHTING PLAN E-200 FOR CIRCUIT DESIGNATION.
- 3. REINSTALL DEVICES ON THIS WALL THAT WERE SALVAGED THROUGH DEMOLITION AND CONFLICTED WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE REINSTALLED AND WHICH DEVICES SHALL BE DEMOLISHED. EXTEND CIRCUITS AS REQUIRED.
- 4. INSTALL (1) UNDERCABINET LIGHT FIXTURE. FIELD VERIFY TO DETERMINE THE EXACT LENGTH OF FIXTURE NEEDED.

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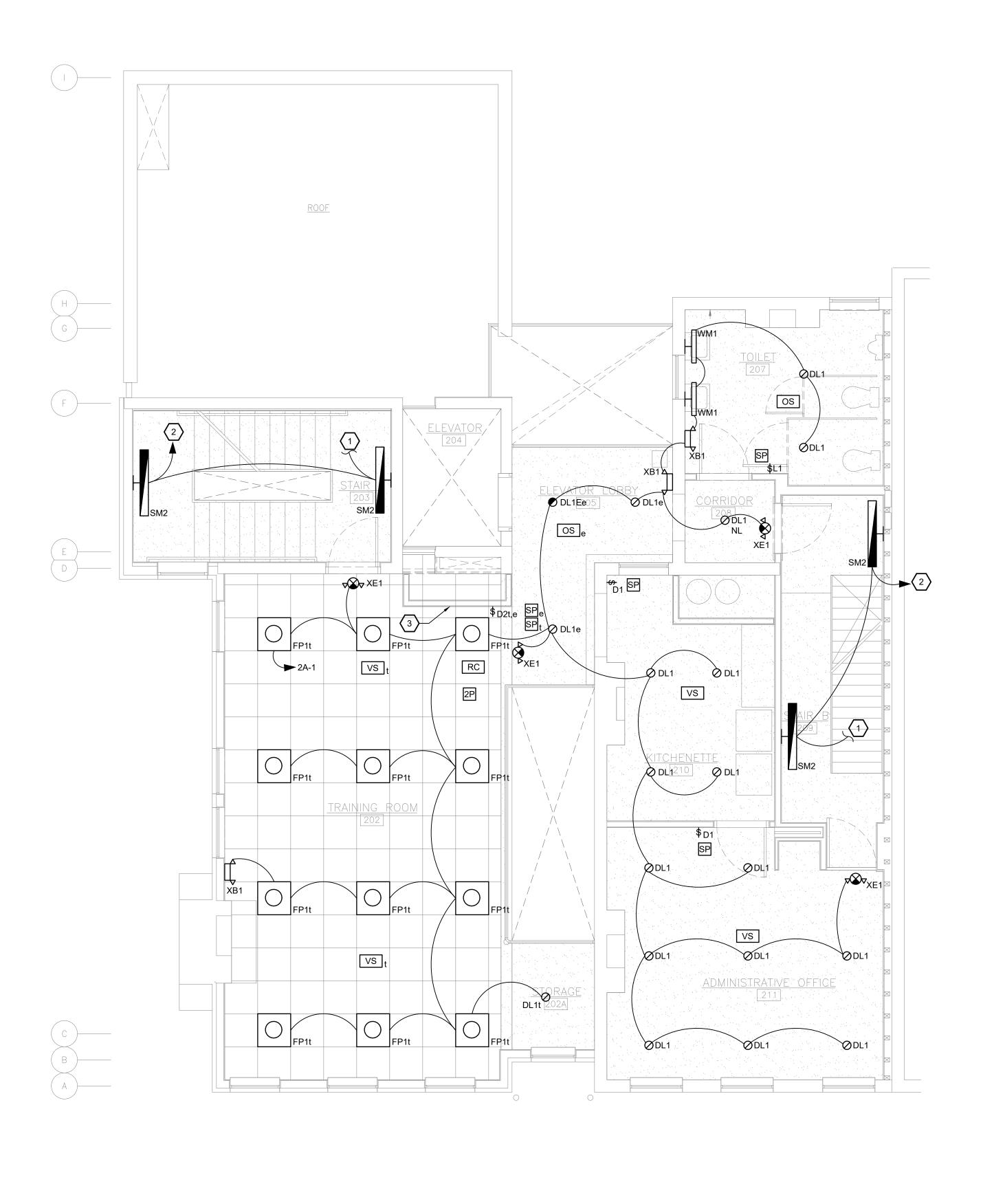
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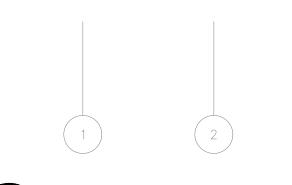
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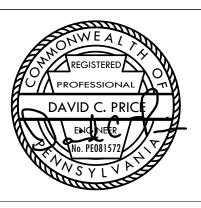
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- 1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.
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- 3. REINSTALL DEVICES ON THIS WALL THAT WERE SALVAGED THROUGH DEMOLITION AND CONFLICTED WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE REINSTALLED AND WHICH DEVICES SHALL BE DEMOLISHED.

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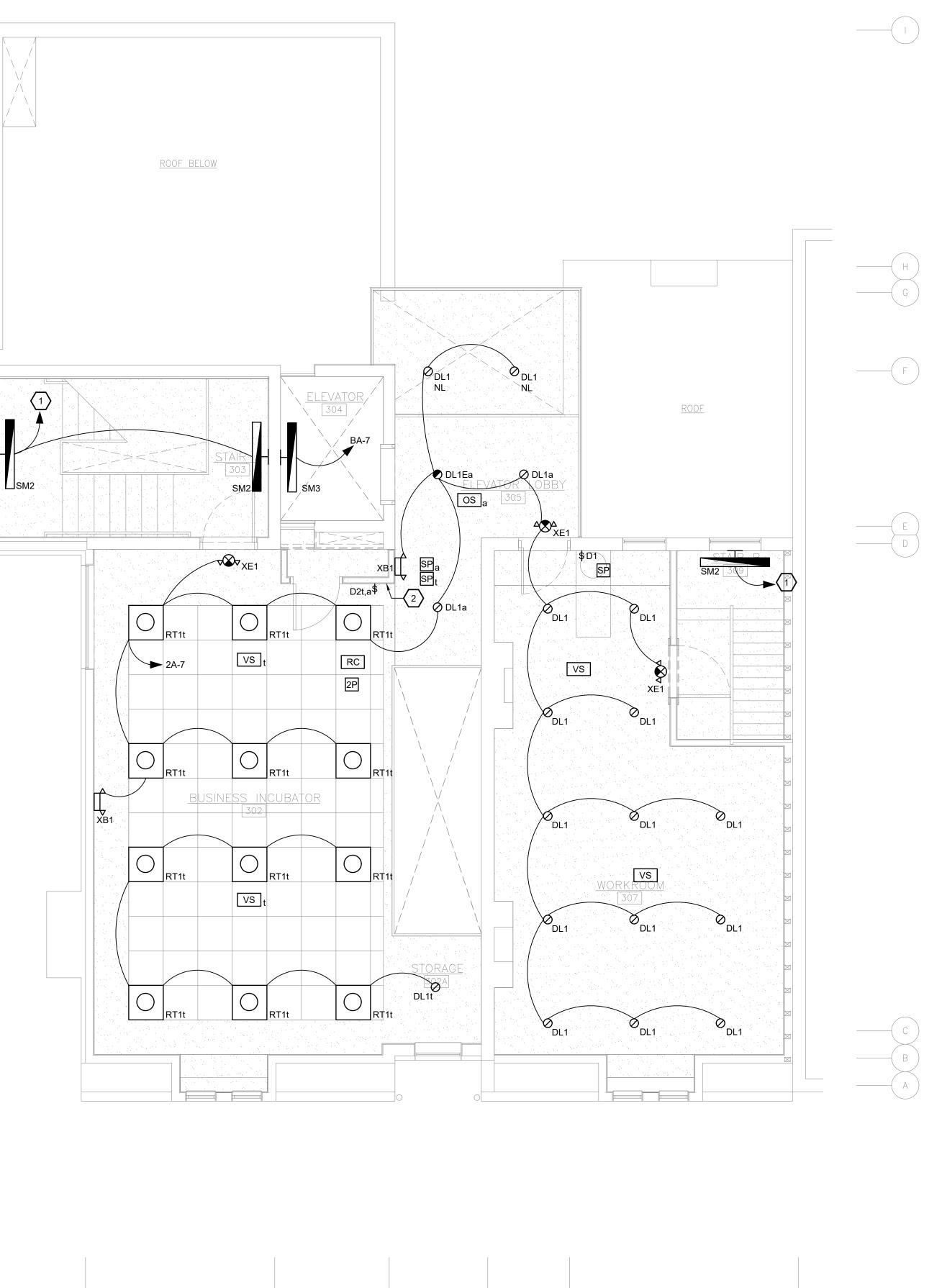
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### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



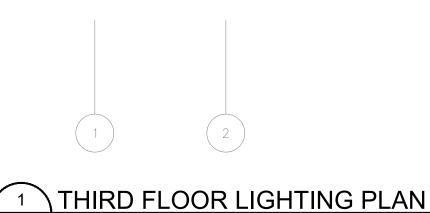


6

#### ALTERNATE:

CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, WIRELESS AND WIRED CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHES. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH THE SALVAGING AND REINSTALLATION OF EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.





E-203 1/4" = 1'-0"

#### LIGHTING GENERAL NOTES:

- 1. FIRE STOP ALL FIRE RATED FLOORS, CEILINGS, AND WALLS AS REQUIRED BY CODE. PENETRATIONS INTO OR THROUGH FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH IBC CHAPTER 7.
- 2. PROVIDE EXPANSION FITTINGS AS REQUIRED AT ALL EXPANSION JOINTS. COORDINATE WITH ARCHITECTURAL PLANS.
- 3. WHERE EXPOSED, BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. WHERE CONCEALED WITHIN WALLS OR ABOVE CEILING, MC CABLE IS PERMISSIBLE. EXPOSED CONDUIT SHALL BE PAINTED PER ARCHITECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
- 5. EXIT SIGNS AND EMERGENCY WALL PACKS SHALL BE CIRCUITED TO AN UNSWITCHED HOT LEG OF THE CIRCUIT NOTED AHEAD OF LOCAL CONTROLS.
- 6. OCCUPANCY / VACANCY SENSORS HAVE BEEN LOCATED PER THE RECOMMENDED SPACING OF THE BASIS OF DESIGN PRODUCTS. THE EXACT LOCATIONS AND QUANTITY OF SENSORS SHALL BE VERIFIED BY THE MANUFACTURER FOR PRODUCTS SUBMITTED AS EQUALS.

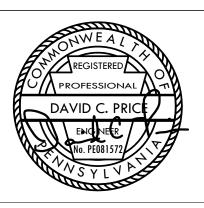
#### LIGHTING KEY NOTES: (#)

- 1. CIRCUIT LIGHTING FIXTURES TO CIRCUIT SERVING THIS STAIRWELL. REFER TO BASEMENT LIGHTING PLAN E-200 FOR CIRCUIT DESIGNATION.
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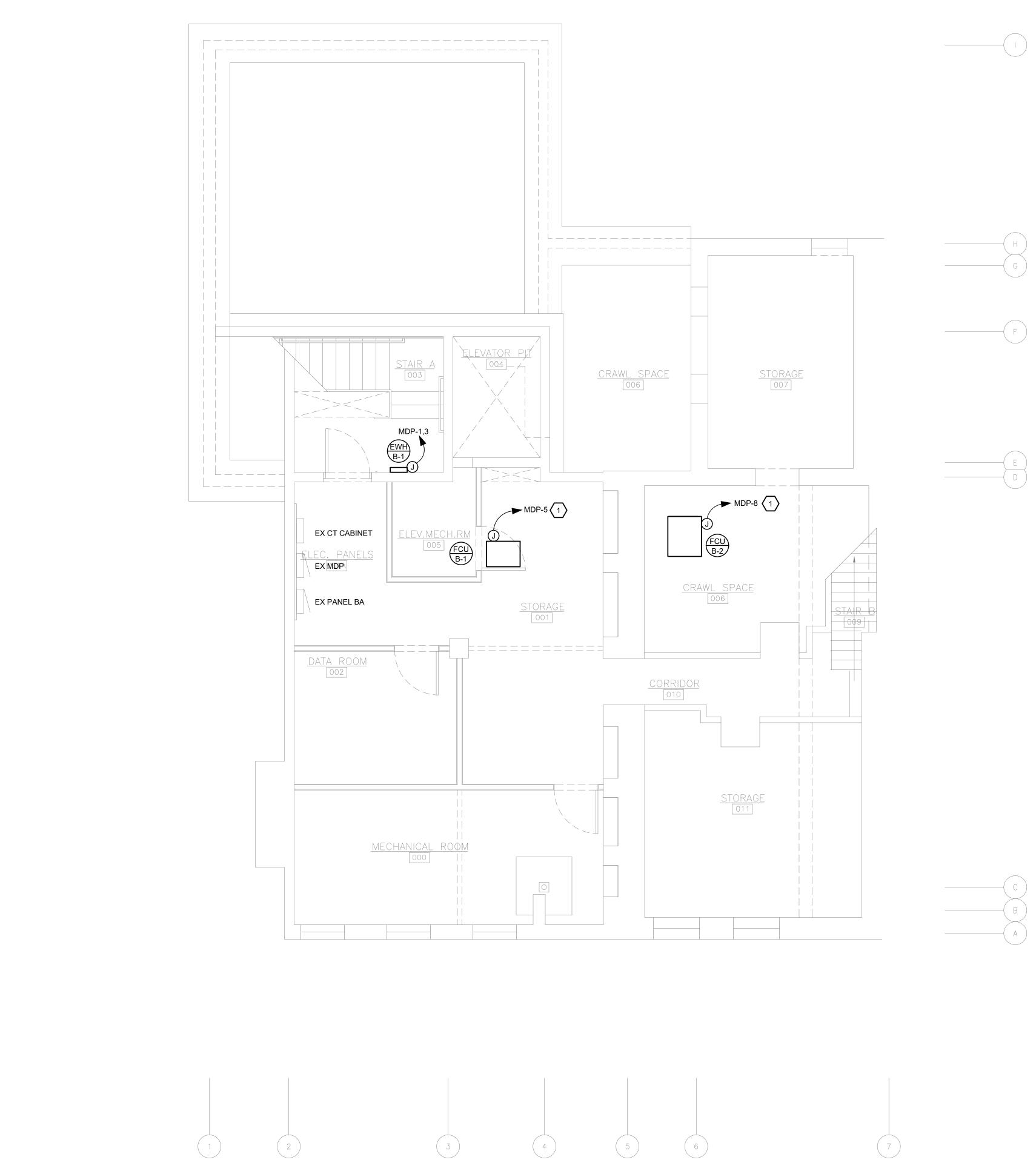
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- 7. ALL ELECTRICAL DEVICES SHALL BE INSTALLED PER ADA.
- 8. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH DIVISION 23. MECHANICAL EQUIPMENT DISCONNECTS AND VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED BY DIVISION 23, INSTALLED AND WIRED BY EC, UNLESS NOTED OTHERWISE. THESE DISCONNECTS HAVE NOT BEEN SHOWN ON THIS PLAN.

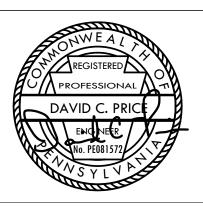
#### <u>POWER KEY NOTES:</u> $\langle \# \rangle$

1. REUSE EXISTING CIRCUIT SALVAGED FROM DEMOLISHED MECHANICAL EQUIPMENT. EXTEND CIRCUIT AS REQUIRED TO NEW FURNACE.

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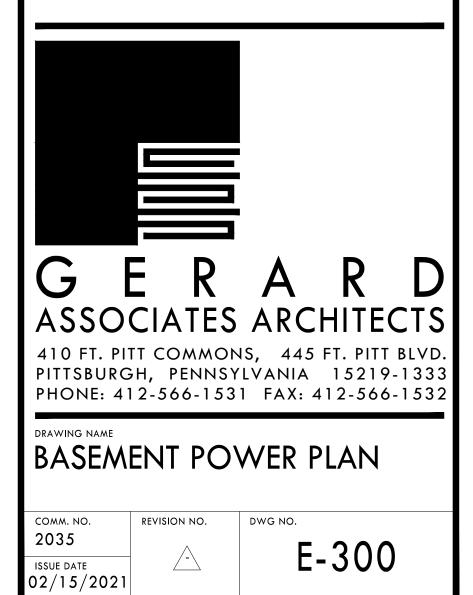
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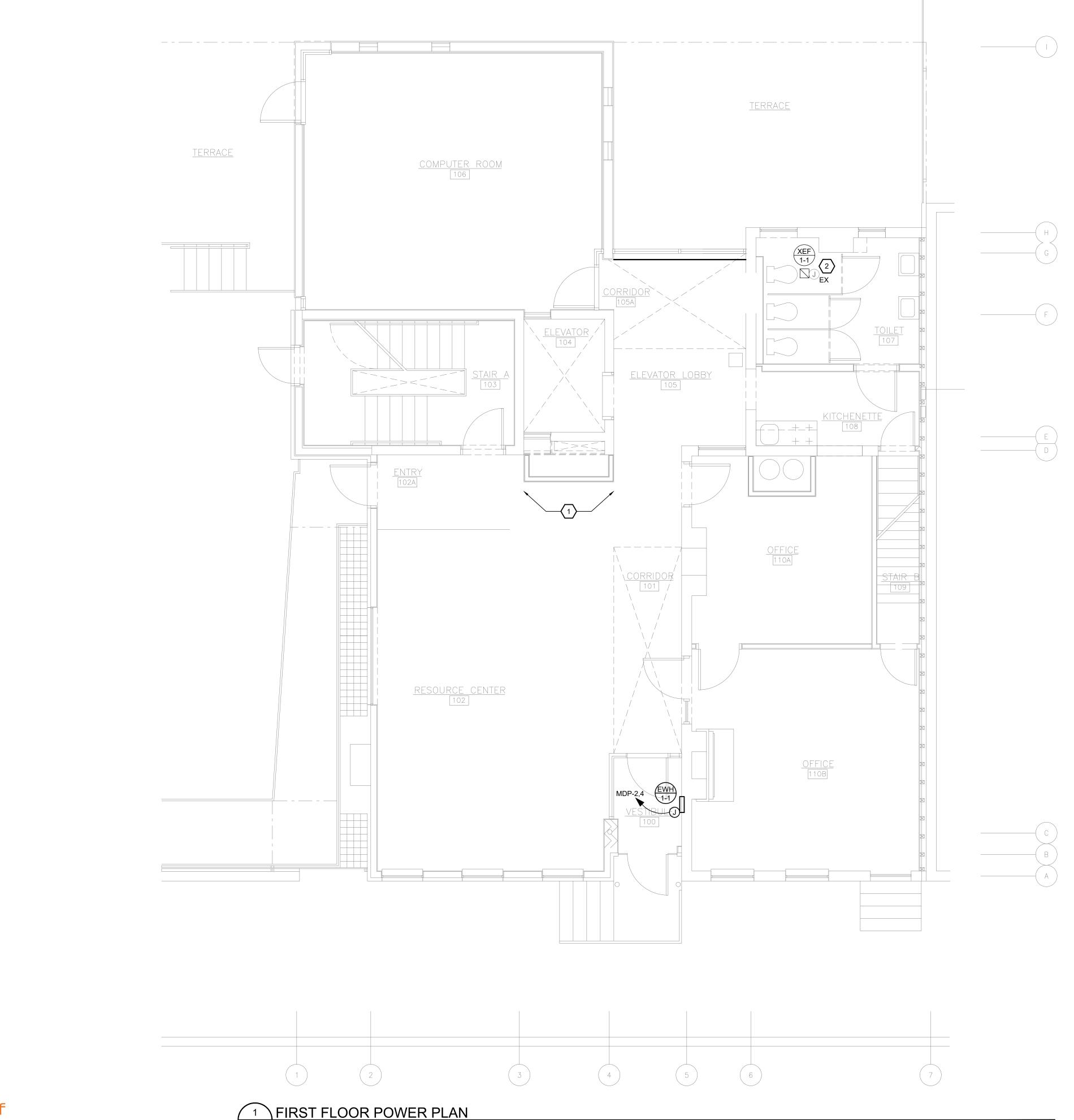


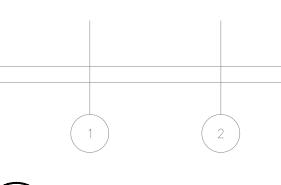
PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233











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- 7. ALL ELECTRICAL DEVICES SHALL BE INSTALLED PER ADA.
- 8. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH DIVISION 23. MECHANICAL EQUIPMENT DISCONNECTS AND VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED BY DIVISION 23, INSTALLED AND WIRED BY EC, UNLESS NOTED OTHERWISE. THESE DISCONNECTS HAVE NOT BEEN SHOWN ON THIS PLAN.

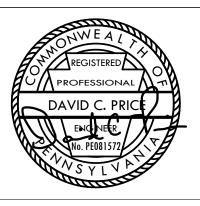
#### POWER KEY NOTES: (#)

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- 2. EXISTING EXHAUST FAN SHALL BE CONTROLLED BY NEW LIGHTING SWITCH SHOWN ON 1ST FLOOR LIGHTING PLAN. CIRCUIT THROUGH LIGHTING POWER PACK/ROOM CONTROLLER FOR CONTROL THROUGH SWITCH AND OCCUPANCY SENSOR. REFER TO LIGHTING PLAN FOR CIRCUIT ASSIGNMENT.

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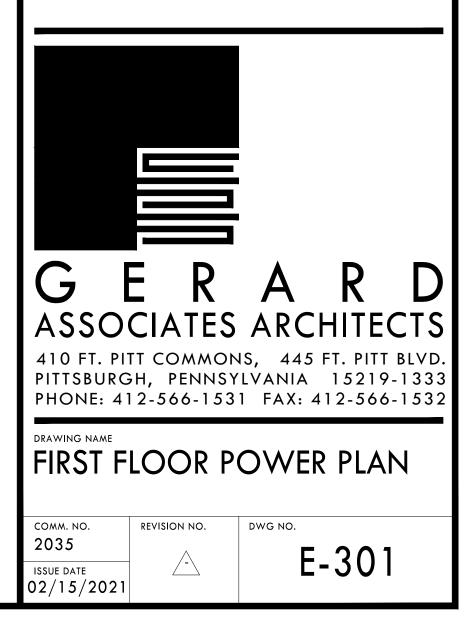
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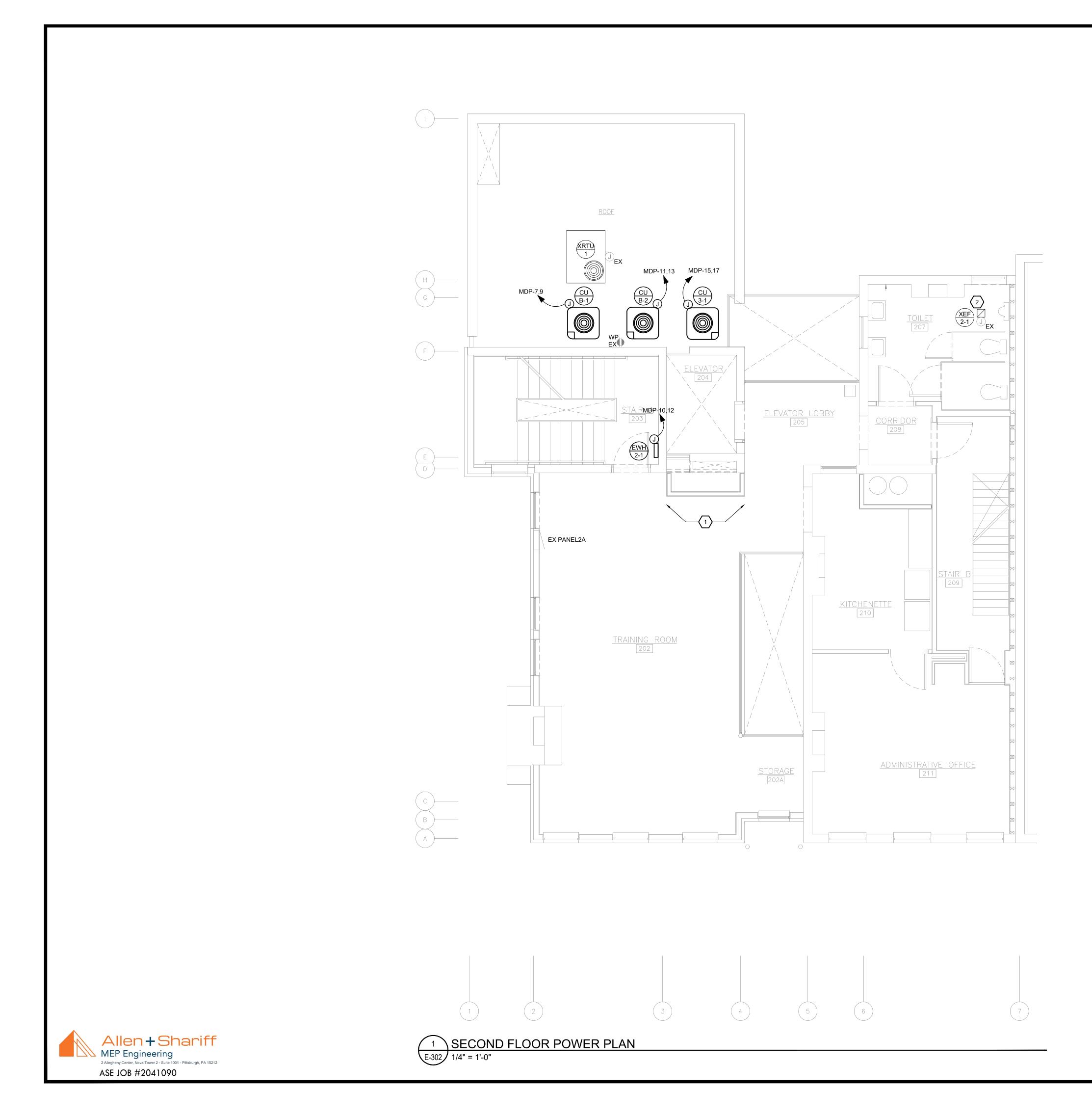


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233





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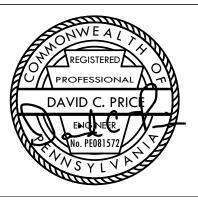
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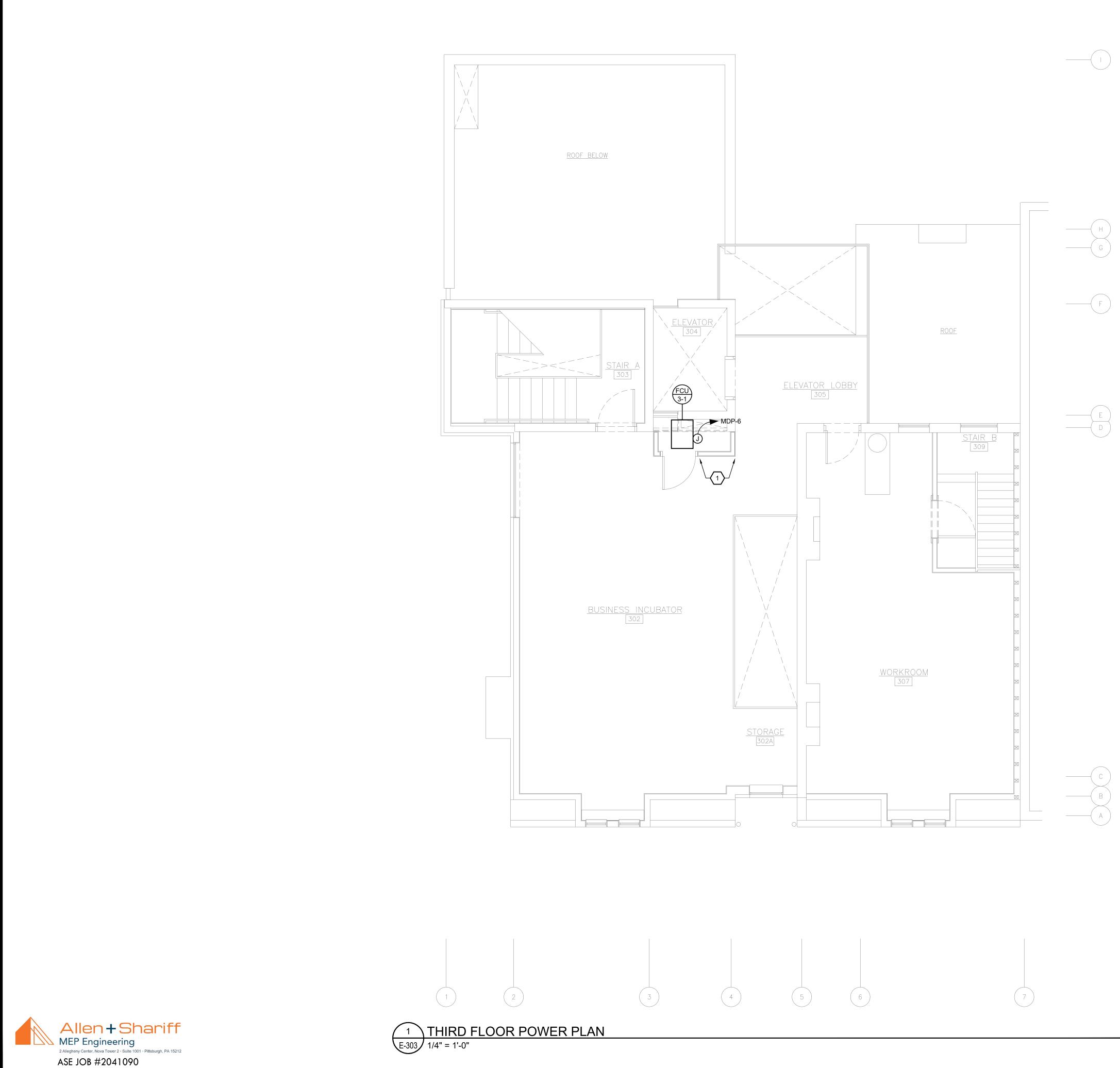
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER





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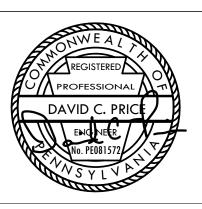
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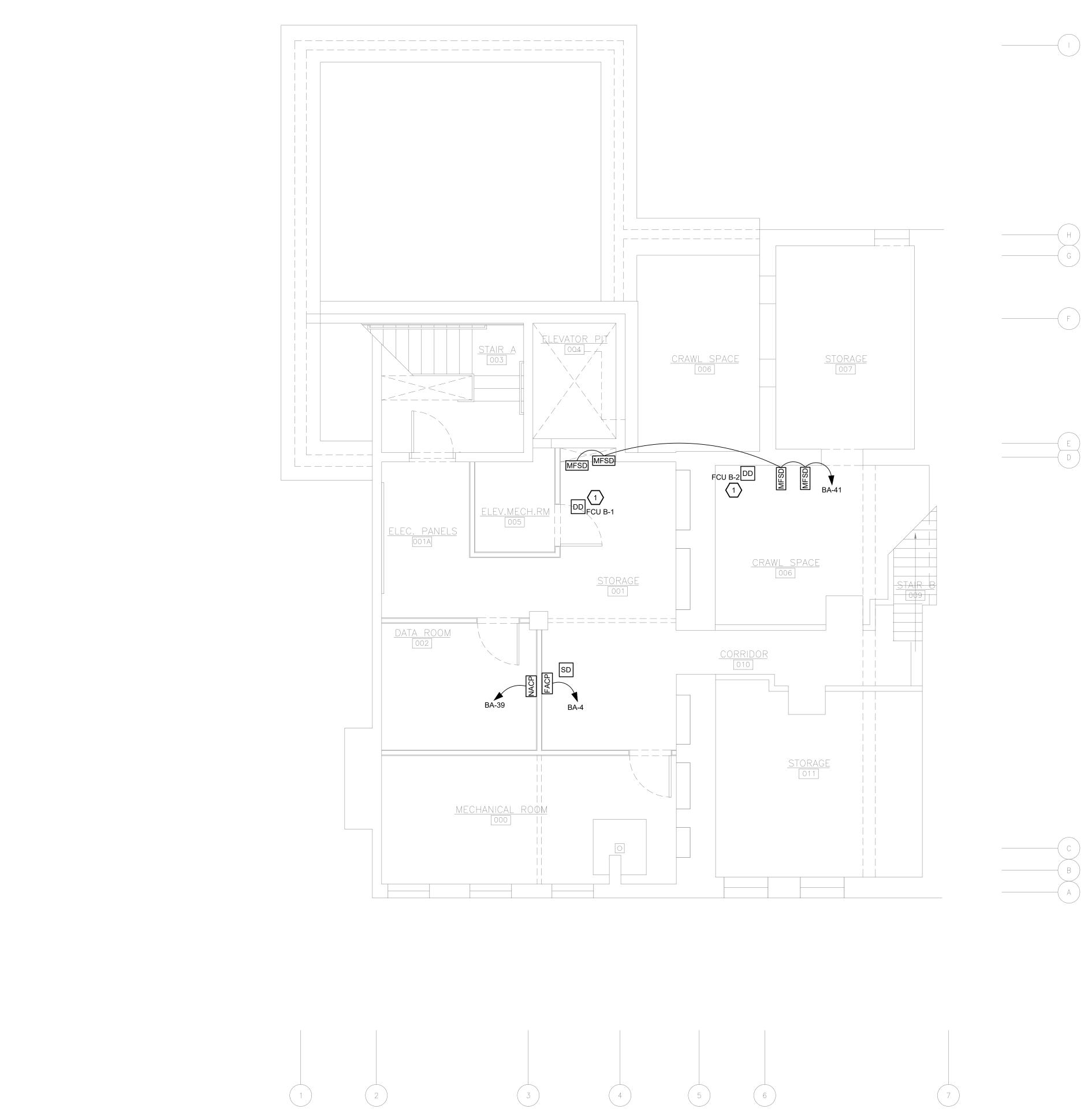


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233









- 1. REFER TO PARTIAL FIRE ALARM RISER DIAGRAM 1/E-601 FOR GENERAL FIRE ALARM SYSTEM NOTES.
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#### <u>FIRE ALARM KEY NOTES:</u> $\langle \# \rangle$

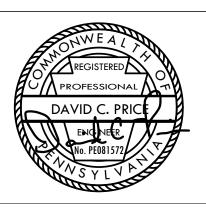
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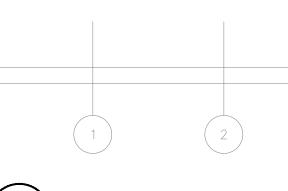


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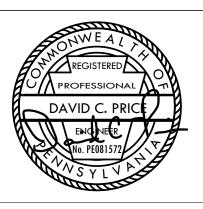
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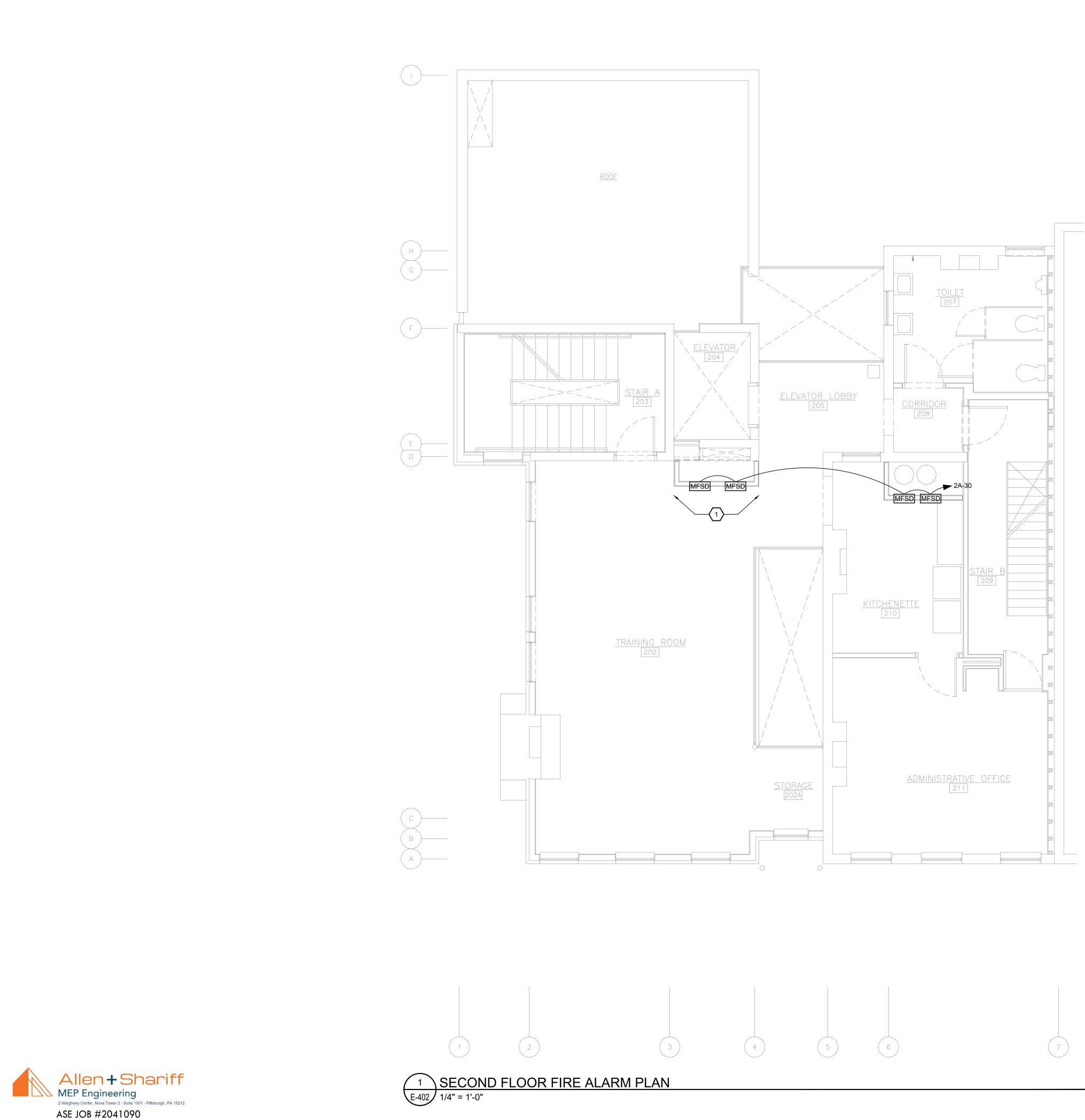
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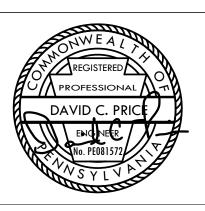
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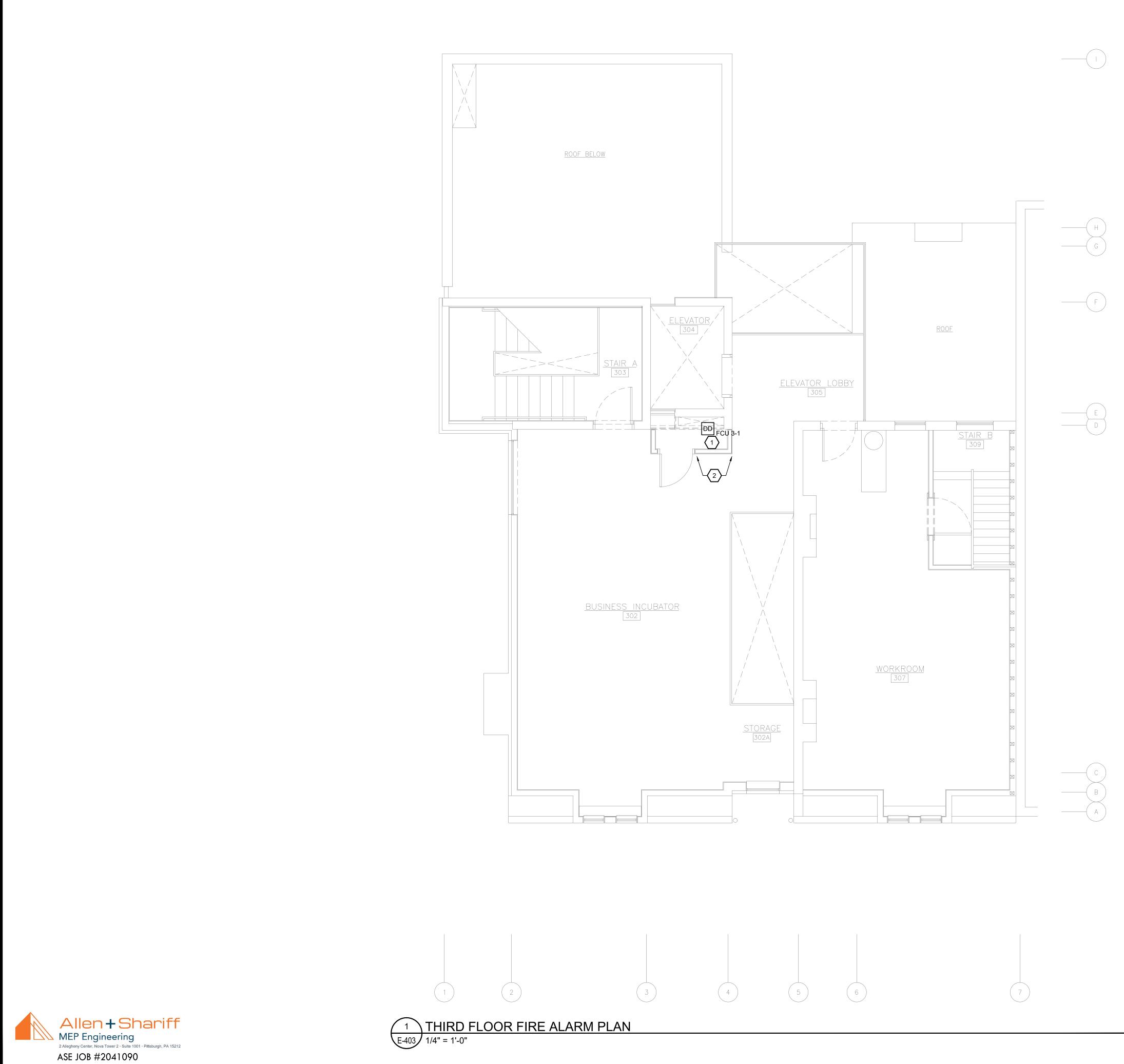
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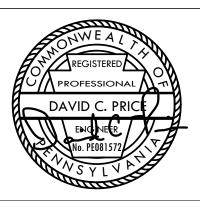
#### $\frac{\text{FIRE ALARM KEY NOTES}}{\#}$

- 1. ELECTRICAL CONTRACTOR SHALL FURNISH DUCT DETECTOR, DIVISION 23 SHALL INSTALL, AND ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM CONNECTION.
- 2. REINSTALL DEVICES ON THIS WALL THAT WERE SALVAGED THROUGH DEMOLITION AND CONFLICTED WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE REINSTALLED AND WHICH DEVICES SHALL BE DEMOLISHED.

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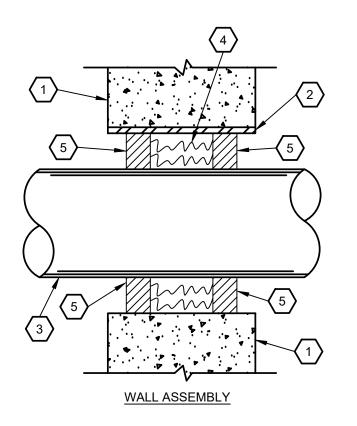
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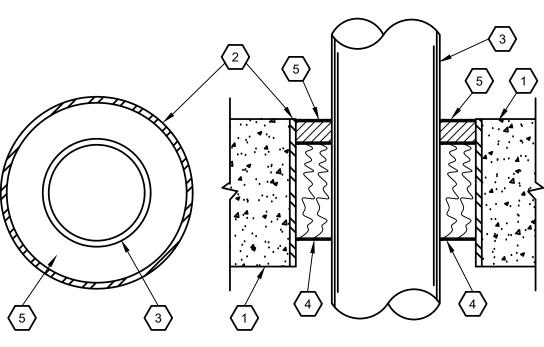


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**







#### <u>KEYED NOTES:</u> $\langle \# \rangle$

1. FLOOR OR WALL ASSEMBLY MINIMUM 5" THICK NORMAL WEIGHT CONCRETE FLOOR OR WALL OR MINIMUM 7-5/8" THICK MASONRY WALL HAVING A MINIMUM 2 HOUR FIRE RESISTIVE RATING WITH A NOMINAL 6" DIAMETER OPENING.

2. STEEL PIPE SLEEVE (OPTIONAL) NOMINAL 6" DIAMETER SCHEDULE 40 OR HEAVIER STEEL PIPE SLEEVE. (2 TRADE SIZES LARGER THAN CONDUIT).

3. STEEL OR EMT CONDUIT NOMINAL 4" DIAMETER CENTERED THROUGH THE OPENING.

4. FORMING MATERIAL MINERAL WOOL, MINIMUM DENSITY OF 4.4 PCF FIRMLY PACKED WITHIN THE OPENING TO A NOMINAL THICKNESS OF 3" FOR FLOORS. FOR WALLS, THE MINERAL WOOL SHALL BE CENTERED IN THE OPENING.

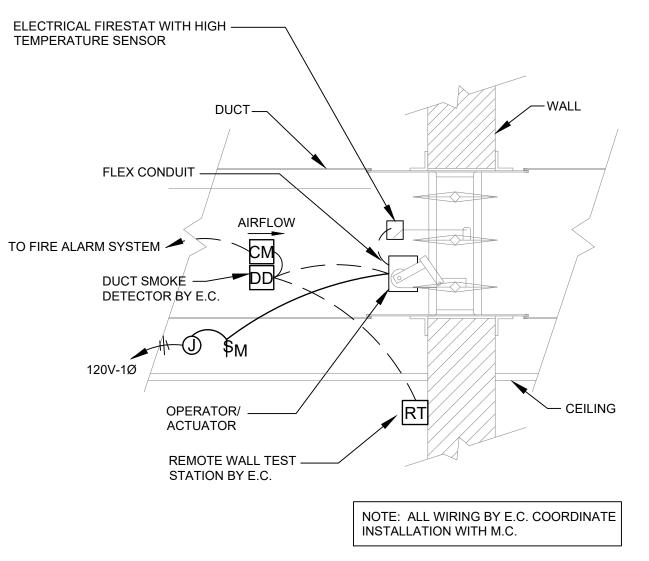
5. FILL, VOID OR CAVITY MATERIAL\* - FILL MATERIAL THAT IS TROWELED INTO THE OPENING TO A MINIMUM THICKNESS OF 1/2" IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. IN WALLS, THE FILL MATERIAL SHALL BE INSTALLED ON BOTH SURFACES OF THE OPENING.

\* BEARING THE "UL" CLASSIFICATION MARKING





FLOOR ASSEMBLY



#### NOTES:

1. MOTORIZED FIRE SMOKE DAMPER (MFSD), FRAC. HP, 120V-1Ø. CONTRACTOR.

3. PROVIDE A JUNCTION BOX ABOVE THE CEILING FOR ALL LINE VOLTAGE POWER WIRING. PROVIDE A MANUAL MOTOR STARTER TOGGLE-STYLE SWITCH AS A DISCONNECTING MEANS FOR THE MFSD AS REQUIRED. 4. PROVIDE 2#12,1#12(G)-3/4"C. FROM THE JUNCTION BOX TO THE DISCONNECTING MEANS AND HOMERUN TO A 20A, 120V CIRCUIT BREAKER, TYING A MAXIMUM OF FOUR MFSD'S TO A 20A/1P CIRCUIT BREAKER.

5. PROVIDE ALL REQUIRED FIRE ALARM SYSTEM TIE-IN WIRING AND PROGRAM FIRE ALARM SYSTEM TO PERFORM THE MECHANICAL SEQUENCE OF OPERATION.



2. PROVIDE A DUCT TYPE SMOKE DETECTOR WITH A REMOTE TEST STATION AND AUXILIARY RELAY CONTACTS TO OPERATE THE DAMPER. COORDINATE THE ROUGH-IN LOCATION WITH MECHANICAL DETAILS AND MECHANICAL

2 MOTORIZED FIRE/SMOKE DAMPER DETAIL "MFSD"

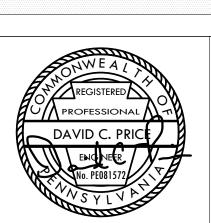
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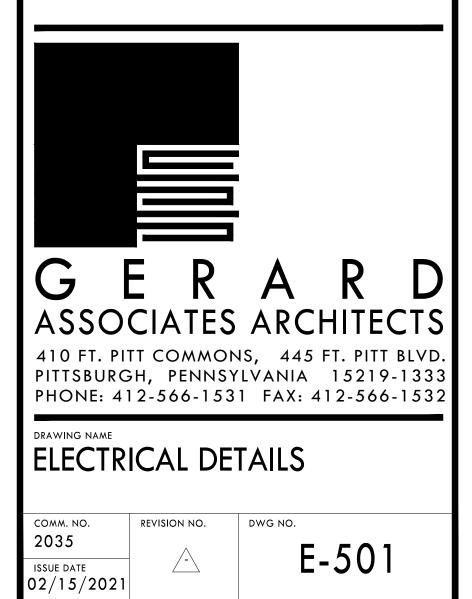
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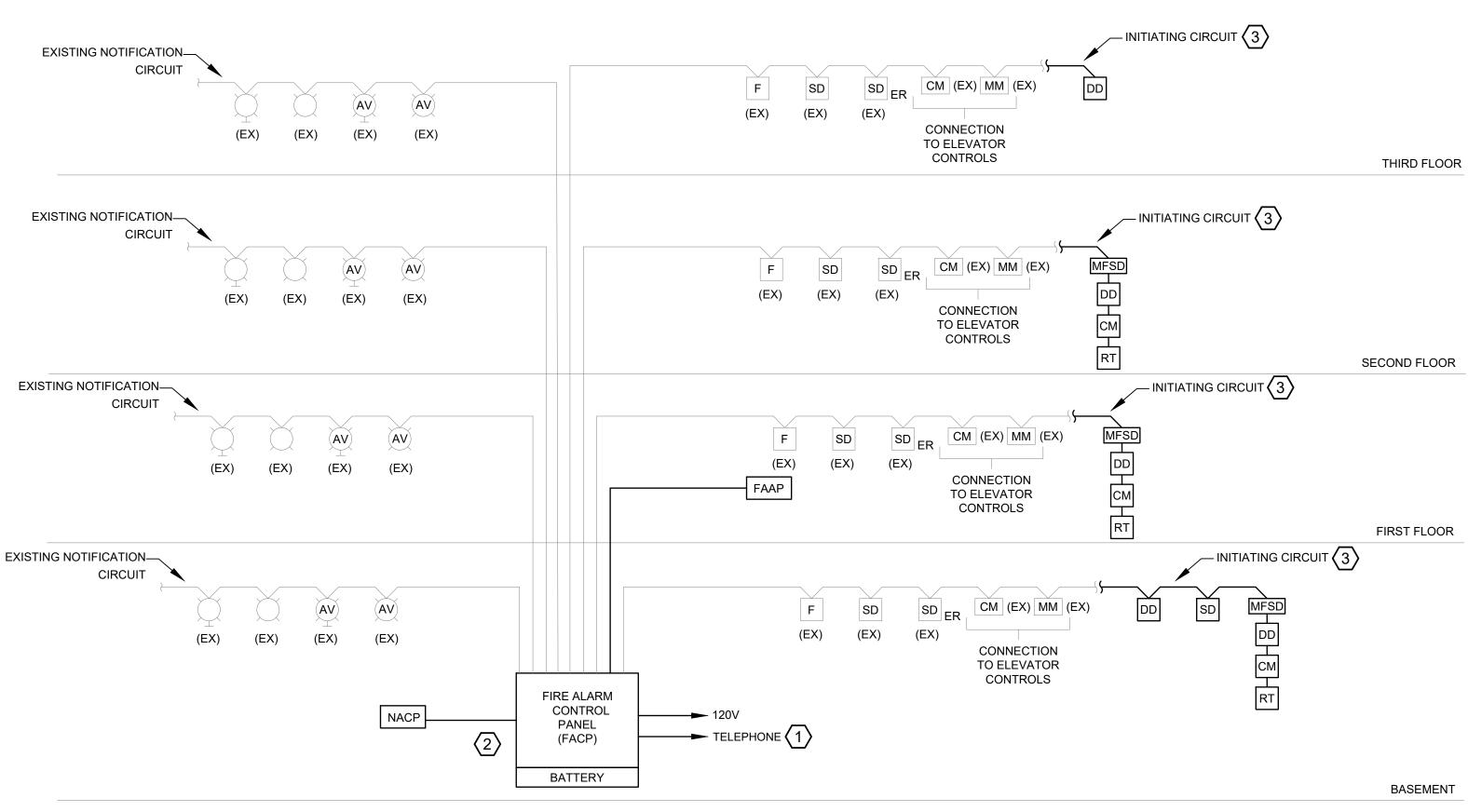
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





#### PARTIAL FIRE ALARM RISER DIAGRAM E-601 NOT TO SCALE

GENERAL FIRE ALARM SYSTEM NOTES:

- 1. THE EXISTING FIRE ALARM SYSTEM IS MANUFACTURED BY SIMPLEX. NEW EQUIPMENT AND DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
- 2. REFER TO FLOOR PLAN FOR QUANTITY AND LOCATION OF SYSTEM COMPONENTS. EXACT ARRANGEMENT AND QUANTITY OF DEVICES SHALL BE INDICATED ON THE SHOP DRAWINGS. PROVIDE COMPLETE RISER DIAGRAM AS PART OF SHOP DRAWINGS.
- 3. VERIFY WIRING SIZES WITH THE FIRE ALARM SYSTEM MANUFACTURER AND INSTALL AS DIRECTED. DO NOT LOAD ANY CIRCUIT BEYOND 80% OF RATED CAPACITY. SUBMIT CALCULATIONS TO SUBSTANTIATE. ADD ADDITIONAL CIRCUITS AS REQUIRED.
- 4. FIRE ALARM WIRING SHALL BE ROUTED VIA A SEPARATE CONDUIT SYSTEM (3/4" MINIMUM). FIRE RATED MC CABLE IS ACCEPTABLE WHERE CONCEALED. MC CABLE SHALL BE COLORED RED. PROVIDE CONDUIT SLEEVES WITH ESCUTCHEON PLATES WHERE PASSING THROUGH WALLS, FLOOR, OR CEILINGS.
- 5. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL POWER SUPPLIES. BATTERIES, EXTENDER PANELS, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 6. THIS CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS, WIRING DIAGRAMS, EQUIPMENT CUTS, ETC. AS PART OF THE SHOP DRAWING SUBMITTAL.
- 7. CANDELA RATING SHALL BE PER NFPA 72 CHAPTER 18 REQUIREMENTS. ALL VISUAL AND AUDIO DEVICES SHALL BE SYNCHRONIZED.
- 8. AUDIBLE ALARM SYSTEM SOUND PRESSURE LEVEL SHALL COMPLY WITH IBC 907.5.2.1.
- 9. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA 72, AND LOCAL FIRE DEPARTMENT REQUIREMENTS BY THE INSTALLER. IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHALL. UPON COMPLETE ON A SUCCESSFUL TEST, THE INSTALLER SHALL SO CERTIFY, IN WRITING, TO THE OWNER AND GENERAL CONTRACTOR.
- 10. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, PRODUCTS, EXECUTION, AND INSTALLATION OF THE FIRE ALARM SYSTEM.
- 11. WIRING SHALL BE INSTALLED IN THE APPROPRIATE RACEWAY TO MEET THE SURVIVABILITY REQUIREMENTS OF THE CITY OF PITTSBURGH CODE ENFORCEMENT.
- 12. PROVIDE REMOTE TEST SWITCHES AND ASSOCIATED CONTROL MODULES FOR ALL FIRE SMOKE AND SMOKE DAMPERS. COORDINATE EXACT LOCATION OF ALL TEST SWITCHES WITH OWNER PRIOR TO ROUGH-IN. THESE SHALL BE LOCATED IN UTILITY/BACK-OF-HOUSESPACES.
- 13. EXISTING DUCT DETECTORS, DAMPERS AND RELATED EQUIPMENT (NOT SHOWN) SHALL REMAIN IN PLACE, IN SERVICE. WHERE REQUIRED, EC SHALL RELOCATE ALL TEST SWITCHES ASSOCIATED WITH EXISTING EQUIPMENT TO MAINTAIN ACCESSIBILITY IN NEW CEILING. EXTEND FIRE ALARM CIRCUIT AS REQUIRED.



#### KEY NOTES: (#)

- 1. IN ORDER TO PROVIDE DIAL OUT TO FIRE DEPARTMENT, TWO SOURCES SHALL BE PROVIDED TO THE DACT WITHIN THE FIRE ALARM SYSTEM PER NFPA 26.6.3.2.1.4. THE SYSTEM SHALL EMPLOY ONE PHONE LINE AND AN ADDITIONAL TRANSMISSION MEANS AS ALLOWABLE UNDER THAT CODE SECTION AND DEEMED AVAILABLE AT THE SITE. THE OWNER MAY ALSO CHOOSE TO EMPLOY AN ALTERNATE TRANSMISSION MEANS APPROVED BY NFPA IN PLACE OF THE SECOND TELEPHONE LINE. COORDINATE WITH OWNER WHETHER DACT SHOULD DIAL DIRECTLY TO FIRE DEPARTMENT OR TO THIRD PARTY 24/7 MONITORING SERVICE CONTRACTED BY OWNER.
- 2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXISTING FIRE ALARM SYSTEM AND PROVIDE A NEW FACP THAT IS COMPATIBLE WITH THE EXISTING INITIATING AND NOTIFICATION DEVICES. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DEVICES FOR THE NEW FACP TO COMMUNICATE WITH THE OLD DEVICES.
- 3. PROVIDE EXTENSION OF EXISTING FIRE ALARM CIRCUITS TO SUPPLY NEW FIRE ALARM DEVICES. WHERE EXISTING CIRCUITS ARE NOT SIZED TO ACCOMMODATE ADDITIONAL FIRE ALARM DEVICES, PROVIDE NEW FIRE ALARM CIRCUIT TO SERVE FLOOR. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL POWER SUPPLIES, BATTERIES, EXTENDER PANELS, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. AII FIRE ALARM DEVICES SHALL BE FULLY COMPATIBLE WITH EXISTING SYSTEM.

THE FIRE ALARM SCOPE INCLUDES THE REPLACEMENT OF THE EXISTING FIRE ALARM CONTROL PANEL AND THE ADDITION OF INITIATING DEVICES WHERE NOTED ON THE FIRE ALARM NEW WORK PLANS. THE NEW FIRE ALARM CONTROL PANEL SHALL BE FULLY COMPATIBLE AND FUNCTIONAL WITH THE EXISTING INITIATING AND NOTIFICATION DEVICES. ALL EXISTING WIRING AND CONDUIT TO DEVICES SHALL BE REUSED UNDER THIS SCOPE.

THE BASIS OF DESIGN FOR THE FIRE ALARM CONTROL PANEL (FACP) IS A SIMPLEX 4100ES PANEL. CONTACT SIMPLEX REPRESENTATIVE JEFF GASPARIK, (724) 741-3474, WITH QUESTIONS REGARDING THE COMPATIBILITY OF THE NEW PANEL WITH THE EXISTING NOTIFICATION AND INITIATING DEVICES.

FIRE ALARM PERMIT NOTE (CITY OF PITTSBURGH):

THE E.C. BID SHALL INCLUDE THE COST FOR AN INDEPENDENT THIRD PARTY PROFESSIONAL ENGINEER TO SIGN, DATE, AND SEAL ALL FIRE ALARM DOCUMENTS REQUIRED FOR BUILDING PERMIT. THE FIRE ALARM DOCUMENTS INCLUDED WITH THE E-SERIES DRAWINGS ARE PROVIDED FOR FIRE ALARM DESIGN INTENT WITHIN THE CITY OF PITTSBURGH. THE CITY OF PITTSBURGH WILL REQUIRE SIGNED/SEALED MANUFACTURER SHOP DRAWINGS (BY THE INDEPENDENT THIRD PARTY) FOR PERMIT APPROVAL BEYOND THE DOCUMENTS CONTAINED IN THE E-SERIES DRAWINGS.

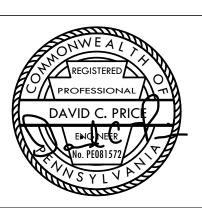
THE FIRE ALARM SHOP DRAWINGS SHALL INCLUDE AT A MINIMUM FIRE ALARM FLOOR PLANS AND A RISER DIAGRAM. EACH PLAN OR RISER SHALL INDICATE THE NUMBER AND TYPES OF FIRE ALARM DEVICES INSTALLED ON EACH CIRCUIT, DEVICE ADDRESSES, CONDUCTOR TYPES AND SIZES, FIRE ALARM ZONES, PRIMARY AND SECONDARY POWER SUPPLIES (AS NECESSARY), AND ALL NEW FIRE ALARM DEVICES AS ADDED TO EXISTING CIRCUITS. DOCUMENTS SHALL ALSO CONTAIN BATTERY AND VOLTAGE DROP CALCULATIONS.

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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



	Donol	
Existing	Fallel	

MDP

Location: MAIN ELECTRICAL ROOM Supply From: EXISTING UTILITY SERVICE Mounting: SURFACE Enclosure: TYPE 1

Volts:	208/120V
Phases:	3
147	

Wires: 4

A.I.C. Rating: EXISTING KAIC Mains Type: MCB Mains Rating: 400 MCB Rating: 400

10 12

14

18 20

24 26

CK

CK	Circuit Description	Wire Size	Trip	Pole			LOAD	D (VA)			Pole	Trip	Wire Size	Circuit Description	
UN		Wile Size	mp	FUIC	, U	A		В	(	С	FUIC	mp	VVIIE SIZE		
1	EWH B-1 (NOTE 4)	3#12, 1#12G - 3/4"C	20	2	1500	1500					2	20	3#12, 1#12G - 3/4"C	EWH 1-1 (NOTE 4)	
3		J#12, 1#12 <b>G -</b> J/4 C	20	2			1500	1500			1 1	20	J#12, 1#12 <b>G</b> - 5/4 C		
5	FCU B-1 (NOTE 3)	2#12, 1#12G - 3/4"C	20	1					1380	1380	1	15	2#12, 1#12G - 3/4"C	FCU 3-1 (NOTE 4)	
7	CU B-1 (NOTE 4)	3#4, 1#10G - 1"C	60	2	3619	1380					1	20	2#12, 1#12G - 3/4"C	FCU B-2 (NOTE 3)	
9	CO B-1 (NO 1E 4)	5#4, 1#10 <b>G</b> - 1 C	00	2			3619	1500			2	20	3#12, 1#12G - 3/4"C	EWH 2-1 (NOTE 4)	
11	CU B-2 (NOTE 4)	3#4, 1#10G - 1"C	60	2					3619	1500	1 2	20	J#12, 1#12 <b>G</b> - 5/4 C		
13	CO B-2 (NO 1E 4)	J#4, 1#10G - 1 C	00	2	3619										
15	CU 3-1 (NOTE 4)	3#4, 1#10G - 1"C	60	2			3619				3	40	EXISTING	EX CONDENSING UN	
17	CU 3-1 (NOTE 4)	3#4, 1#10G - 1°C	00	2					3619		1				
19															
21	EX PANEL 2A	EXISTING	100	3							3	60	EXISTING	EX SPARE	
23											1				
25															
27	EX ELEVATOR	EXISTING	150	3							3	150	EXISTING	EX PANEL BA	
29	-														
		1	Fotal L	oad:	11	618	11	738	114	498					
		Pa	anel A	mps:			96	6.7							
NO	TES:														
1. I	UNLESS OTHERWISE NOTE	D, ALL BRANCH CIRCUIT I	3REAł	KERS	ARE EX	XISTING	TO REM	AIN.							
2. I	LOADS IN BOLD ARE NEW L	OADS ON EXISTING PAN	EL.												
3. (	(WHERE NOTED) REUSE EXI	STING CIRCUIT BREAKEF	THA7	PRE	VIOUSL	Y SERV	ED DEN	OLISHE	D MECH	ANCAL	EQU	IPMEN	IT.		
4. (	(WHERE NOTED) PROVIDE N	IEW CIRCUIT BREAKER S	JZED	AS S	HOWN.	MATCH	THE MA	NUFAC	TURER,	MODEL	, <mark>an</mark> e	AIC F	RATING OF EXISTING BRE	EAKERS.	
F	ixisting Brand	ch Panel	B	Δ											
<b>_</b>	<b>U</b>							V = 14	200/400	W/					
		MAIN ELECTRICAL ROO	VI			Volts: 208/120V							A.I.C. Rating: EXISTING KAIC		
	Supply From:					Phases: 3							Mains Type: MLO		
		SURFACE						Wires:	4				Mains Rating		
Enclosure: TYPE 1 MCB Rating: -													MCB Rating	-	

СКТ	Circuit Description	Wire Size	Trip	Pole			LOAD (VA)				Dolo	Trip	Wire Size	Circuit Description	СКТ
ONT		WIE SIZE	тір	FUIE	A	A	E	3	C	)	FUIE	mp	WIE SIZE		UNI
1	LTG BASEMENT	2#12, 1#12G - 3/4"C	20	1	520						1	20	EXISTING	EX REC BASEMENT	2
3	EX EM BATTERY UNIT	EXISTING	20	1				500			1	20	2#12, 1#12G - 3/4"C	FACP (NOTE 3)	4
5	LTG STAIRWELL A	2#12, 1#12G - 3/4"C	20	1					293		1	20	EXISTING	EX LTG ELEV CAB LTS	6
7	LTG ELEVATOR PIT	2#12, 1#12G - 3/4"C	20	1	102						1	20	EXISTING	EX REC ELEVATOR	8
9	LTG ELEV MACHINE RM	2#12, 1#12G - 3/4"C	20	1			46				1	20	EXISTING	EX REC TELEPHONE REC	10
11	LTG 1ST FLOOR	2#12, 1#12G - 3/4"C	20	1					1550		1	20	EXISTING	EX REC SECURITY REC	12
13	EX LTG ATRIUM	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	14
15	EX LTG 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	16
17	EX LTG 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	18
19	EX CIRCUIT	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	20
21	EX CIRCUIT	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	22
23	EX WATER FOUNTAIN	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	24
25	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	26
27	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	28
29	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	30
31	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC BASEMENT	32
33	EX REC EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX REC BASEMENT	34
35	EX REC EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX SNOW MELT	36
37	EX LTG EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX 1ST FLR BATH & STAIR	38
39	NACP (NOTE 3)	2#12, 1#12G - 3/4"C	20	1			500	500			1	20	2#12, 1#12G - 3/4"C	1ST FL MFSD'S	40
41	BASEMENT MFSD'S	2#12, 1#12G - 3/4"C	20	1					1000		1	20		EX SPARE	42
		Т	otal L	oad:	62	22	15	21/223	28	43					
Panel Amps: 13.9															

NOTES:

. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS ARE EXISTING TO REMAIN.

2. LOADS IN BOLD ARE NEW LOADS ON EXISTING PANEL. . PROVIDE LOCKING DEVICE ON EXISTING BREAKER.

Existing Branch Panel: 2A Location: 2ND FLOOR TRAINING ROOM Volts: 208/120V A.I.C. Rating: EXISTING KAIC Supply From: MDP Mains Type: MLO Phases: 3 Mounting: RECESSED Wires: 4 Mains Rating: 100 Enclosure: TYPE 1 MCB Rating: -LOAD (VA) Circuit Description Wire Size Wire Size Circuit Description R A LTG 2ND FLOOR 2#12, 1#12G - 3/4"C 963 EXISTING EX REC 2ND FLOOR 3 EX LTG 2ND FLOOR EXISTING EXISTING EX REC 2ND FLOOR 5 EX LTG 2ND FLOOR EXISTING 1 20 EXISTING EX REC 2ND FLOOR 7 LTG 3RD FLOOR 2#12, 1#12G - 3/4"C 934 EXISTING EX REC 2ND FLOOR 1 20 9 EX LTG 3RD FLOOR EXISTING 1 20 EXISTING EX REC 2ND FLOOR 11 EX LTG 3RD FLOOR EXISTING EXISTING EX REC 3RD FLOOR 1 20 LTG STAIRWELL B 2#12, 1#12G - 3/4"C 190 EXISTING EX REC 3RD FLOOR 1 20 EX REC ROOFTOP GFI EXISTING EXISTING EX REC 3RD FLOOR 1 20 **EX STEREO** EXISTING EXISTING EX REC 3RD FLOOR EX WATER FOUNTAIN EXISTING EXISTING EX LTG 3RD FLOOR 1 20 EX LTG 2ND FLOOR EXISTING EXISTING EX REC BATHROOM GFI **EX REFRIGERATOR** EXISTING EX RANGE EXISTING 50 EX RIGHT KITCHEN GFI EXISTING EX DISHWASHER EXISTING EXISTING EX CUBICLES 1 20 2#12, 1#12G - 3/4"C 2ND FL MFSD'S 29 EX MICROWAVE EXISTING 20 1000 Total Load: 2087 1000 0

8.6

NOTES:

. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS ARE EXISTING TO REMAIN.

Panel Amps:

. LOADS IN BOLD ARE NEW LOADS ON EXISTING PANEL.



			LIGHTING FIXTUR			ULE		
TYPE	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	LAMP #	AMP(S) LAMP TYPE	DRIVER/ BALLAST		1//
DL1	6" RECESSED DOWNLIGHT	HALO	FRAME: HC6-20-D010 LED MODULE: HM6-12-835		LED, 3500K,	0-10V, DIM TO	21	1
DL1E	6" RECESSED DOWNLIGHT WITH EMERGENCY BATTERY	HALO	REFLECTOR: 61-MD-H FRAME: HC6-20-D010-REM14 LED MODULE: HM6-12-835 REFLECTOR: 61-MD-H		2000LM LED, 3500K, 2000LM	1% 0-10V, DIMTO 1%	21	1
FP1	2'X2' FLAT PANEL	METALUX	22-FPX-42-L835-HCD		LED, 3500K, 4200LM	0-10V, DIM TO 1%	42	1
SM1	4'-0" SURFACE MOUNTED STRIP FIXTURE W/ ROUND LENS	METALUX	4SNLED-LD5-50SL-LW-UNV-L835-CD1-U		LED, 3500K, 5000LM	0-10V, DIM TO 10%	46	1
SM1E	4'-0" SURFACE MOUNTED STRIP FIXTURE W/ ROUND LENS AND EMERGENCY BATTERY	METALUX	4SNLED-LD5-50SL-LW-UNV-EL14W-L835-CD1-U		LED, 3500K, 5000LM	0-10V, DIM TO 10%	46	1
SM2	4'-0" WALL MOUNTED STAIR FIXTURE W/ EMERGENCY BATTERY AND INTEGRAL OCCUPANCY SENSOR	METALUX	4SWLED-40SL-LW-UNV-EL14W-L835-CD1-SVPD2-U		LED, 3500K, 4000LM	0-10V	38	1
SM3	4'-0" SURFACE MOUNTED, WET LISTED VAPORTIGHT STRIP FIXTURE WITH EMERGENCY BATTERY	METALUX	4VT2-LD5-6-FR50-UNV-EL10W-L835-CD1-WL-U		LED, 3500K, 6000LM	0-10V	51	1
WM1	2' WALL MOUNTED VANITY FIXTURE	METALUX	2BCLED-LD4-20SL-F-UNV-L835-CD-1-U		LED, 3500K, 2000LM	0-10V	23	1:
VMM2	EXTERIOR WALL SCONCE WITH PHOTOCELL	ASL	BCJA-W24-ND-30K-H21-PC-XX		LED, 3000K, 2800LM	LED	24	1:
WM3	INTERIOR DECORATIVE WALL SCONCE	ASL	BCRBA-W24-DVD-35K-H20-XX		LED, 3500K, 2800LM	0-10V	24	12
VMM4	EXTERIOR WALL SCONCE WITH EMERGENCY BATTERY AND PHOTOCELL	ASL	DSKE-W24-ND-30K-W4-EMG-PC-XX		LED, 3000K, 2800LM	LED	24	12
UC1	3' UNDERCABINET FIXTURE	HALO	HU30-BSC-36-P		LED, 3500K, 850LM	LED	14	12
XB1	EMERGENCY BATTERY UNIT WITH SELF- DIAGNOSTICS	EXITRONIX	LED-95-WH-G2	2	LED		2	1:
XE1	THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP, EMERGENCY LIGHTING HEADS, SELF- DIAGNOSTICS, AND REMOTE HEAD CAPABILITY	EXITRONIX	VLEDC-51-WH-G2-R4	2	LED		2	1:
XR1	WET LOCATION LED EMERGENCY REMOTE LAMPS	EXITRONIX	RL1-WP-GR		LED		1	-

1. ARCHITECT SHALL SPECIFY / VERIFY ALL FINISH SELECTIONS. 2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

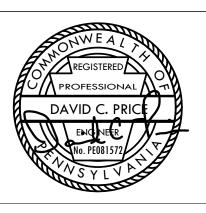
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MOUNTING ACCESSORIES.

#### GENERAL CIRCUITING NOTE:

CIRCUIT BREAKERS IN EXISTING PANELS MDP, BA, AND 2A WILL BECOME SPARE FOLLOWING DEMOLITION OF THE EXISTING SPACE. THE LOAD ASSIGNMENTS NOTED HERE ARE ARBITRARY, AND THE EC SHALL UTILIZE ANY EXISTING SPARE BREAKERS AND ANY BREAKERS MADE SPARE THROUGH DEMOLITION IN THESE PANELS. WHERE NO SPARE BREAKER IS AVAILABLE, EC SHALL INSTALL NEW BREAKER IN AN EXISTING PROVISIONAL SPACE. NEW BREAKER SHALL MATCH THE MANUFACTURER, MODEL, & AIC RATING OF EXISTING BREAKERS. ALL BASE BUILDING LOADS AND CIRCUITS SERVING DEVICES THAT ARE EXISTING TO REMAIN SHALL BE MAINTAINED. THE EC SHALL ADJUST CIRCUIT ASSIGNMENTS AS REQUIRED AND PROVIDE NEW PANEL SCHEDULES TO REFLECT THE INSTALLATION AT PROJECT CLOSEOUT.

ALTERNATE: CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, WIRELESS AND WIRED CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHES.

S	MOUNTING	NOTES
	RECESSED, CEILING	
	RECESSED, CEILING	
	RECESSED, CEILING	
	SURFACE, CEILING	WHERE CEILING CONDITIONS DO NOT ALLOW FOR SURFACE MOUNTING, PROVIDE AIRCRAFT CABLE SUSPENSION MOUNTING. EC SHALL FIELD COORDINATE.
	SURFACE, CEILING	WHERE CEILING CONDITIONS DO NOT ALLOW FOR SURFACE MOUNTING, PROVIDE AIRCRAFT CABLE SUSPENSION MOUNTING. EC SHALL FIELD COORDINATE.
	SURFACE, WALL	OCCUPANCY SENSOR SHALL OPERATE TO TURN LIGHTS ON TO 100% LIGHT OUTPUT WHEN STAIRWELL IS OCCUPIED AND 0% WHEN UNOCCUPIED.
	SURFACE, WALL	
	SURFACE, UNDERCABINET	COORDINATE MOUNTING WITH CASEWORK PROVIDER. CONCEAL WHERE POSSIBLE. PROVIDE ALL MOUNTING AND CONNECTION ACCESSORIES.
	SURFACE, WALL	
	UNIVERSAL	PROVIDE NUMBER OF FACES AND DIRECTIONAL CHEVRONS AS SHOWN ON PLANS.
	SURFACE, WALL	



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB 1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233



### FOR CONSTRUCTION

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REVISIONS

# **PROPERTY REHABILITATION FOR:** HACP TASK ORDERS #35 and #41 DEVELOPMENT & OPPORTUNITIES CENTER

1205 LIVERPOOL STREET, BUILDING #35 ALLEGHENY COUNTY PITTSBURGH, PENNSYLVANIA 15233



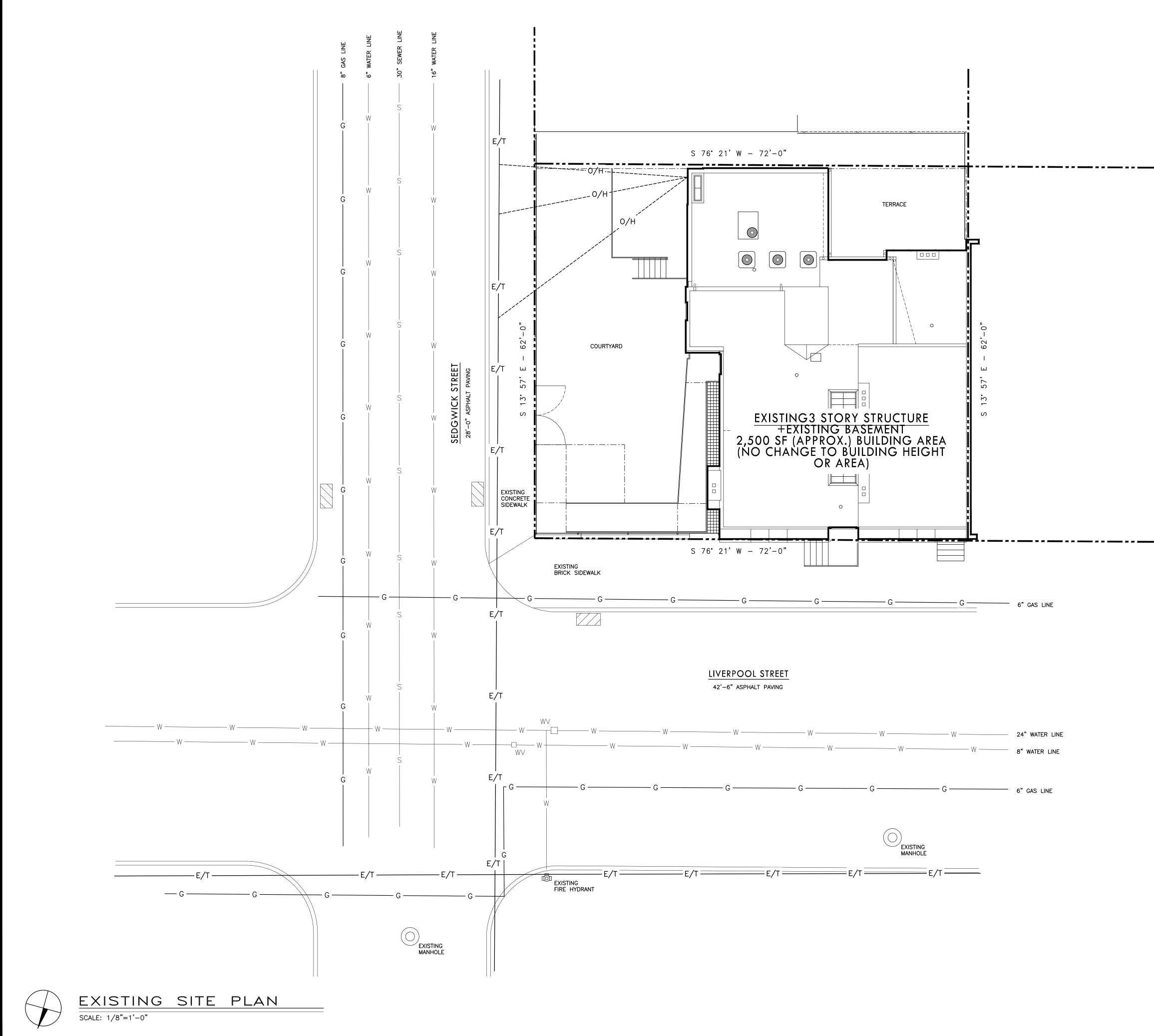




410 FT. PITT COMMONS, 445 FT. PITT BLVD. PITTSBURGH, PENNSYLVANIA 15219-1333 PHONE: 412-566-1531 FAX: 412-566-1532

DESIGN DEVELOPMENT SUBMISSION - FOR HACP REVIEW FOR CONSTRUCTION

C-002         CODE SUMMARY         02/15/21           0.100         HASTMEN FERODITION PLAN         02/15/21           0.101         HASTMEN FERODITION PLAN         02/15/21           0.102         HEST FEODR PLAN         02/15/21           0.101         HASTMEN FEODR PLAN         02/15/21           0.102         HEST FEODR PLAN         02/15/21           0.101         HEST FEODR PLAN         02/15/21           0.102         HEST FEODR PLAN         02/15/21           0.101         HEST FEODR PLAN         02/15/21           0.102         HEST FEODR PLAN         02/15/21           0.202         HASTMEN FEODR PLAN         02/15/21           0.203         UNITE ELEVATION         02/15/21           0.201         HINST SCHEDULE         02/15/21           1.201         HASTMENT MECHANICA LEAR MARC PERANT         02/15/21	DRAV NO.	VING LIST DRAWING NAME	CURRENT
C-002         CODE SUMMARY         02/15/21           0-100         HASTMEN FEROUTION FLAN         02/15/21           0-101         SECOND A THERE TOODE PRAVIMON FLAN         02/15/21           1-101         FEROTA CONSTRUCTION FLAN         02/15/21           1-102         FEROTA TOOR FLAN         02/15/21           1-101         FEROTA CONSTRUCTION FLAN         02/15/21           1-102         FEROTA CONSTRUCTION FLAN         02/15/21           1-202         FEROTA CONSTRUCTION FLAN         02/15/21           1-203         CHINES SCHONS         02/15/21           1-204         FEROTA CONSTRUCTION FLAN         0			02/15/21
D-101 FIRST FILOOR DEAKOLITION PLAN D-2013 SECOND A THIRE FLOOR PLAN A.100 HASEMENT FLOOR PLAN A.101 HASEMENT FLOOR PLAN A.101 HASEMENT FLOOR PLAN A.101 HASEMENT FLOOR PLAN A.101 HOST HELEVATION A.201 HOST HOST HOST HOST HELEVATION A.201 HOST HOST HOST HELEVATION A.201 HOST HOST HOST HOST HOST HOST HELEVATION A.201 HOST HOST HOST HOST HOST HOST HELEVATION A.201 HOST HOST HOST HOST HOST HELEVATION A.201 HOST HOST HOST HOST HOST HOST HOST HELEVATION A.201 HOST HOST HELEVATION A.201 HOST HOST HOST HOST HOST HOST HOST HAST HOST HAST A.201 HOST HOST HOST HOST HOST HOST HOST HAST A.201 HOST HOST HOST HOST HOST HAST HOST HAST A.201 HOST HOST HOST HOST HOST HAST HOST HAST A.201 HOST HOST HOST HAST HOST HAST A.201 HOST HOST HOST HAST HOST HAST HOST HAST A.201 HOST HOST HAST HOST HAST HOST HAST HAST HOST HAST A.201 HOST HOST HAST HAST HOST HAST HAST HAST HAST HAST HAST HAST HA	G-001 G-002		02/15/21
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A-10.2       FECONDS ATHREP HOOR PLAN       02/15/21         A-10.2       FECONDS ATHREP HOOR PLAN       02/15/21         A-20.1       NOOF PLAN PLAN       02/15/21         A-20.2       INOOF PLAN PLAN       02/15/21         A-20.2       INOOF PLAN PLAN       02/15/21         A-20.2       INOF PLAN PLAN       02/15/21         A-20.2       INOF PLAN PLAN       02/15/21         A-30.2       INIDING SECTIONS       02/15/21         A-40.2       INIDING SECTIONS       02/15/21         MECHANICAL       MARCHANICAL PLAN       02/15/21         MECHANICAL       MARCHANICAL PLAN       02/15	D-102 A-100		
A-201 NORTH REVAILON A-202 LAST ERVAILON A-202 LAST ERVAILON A-203 LOUIDNE SECTIONS A-203 LOUIDNE SECTIONS 02/15/21 A-203 LOUIDNE SECTIONS 02/15/21 A-203 LOUIDNE SECTIONS 02/15/21 A-204 LAST REVENT REVENTED ERLING PLAN 02/15/21 A-204 LAST REVENT REVENTED A-204 REVENTED	A-101 A-102	FIRST FLOOR PLAN SECOND & THIRD FLOOR PLAN	02/15/21 02/15/21
A-2021       SOUTH ELEVATION       02/15/21         A-3021       BUILDING SECTIONS       02/15/21         A-2021       BUILDING SECTIONS       02/15/21         A-4001       HERT FLOOR PERCENCIP CEILING PLAN       02/15/21         A-401       HERT FLOOR PERCENCIP CEILING PLAN       02/15/21         A-401       HERT FLOOR PERCENCIP CEILING PLAN       02/15/21         A-401       HERT FLOOR PERCENCIP CEILING PLAN       02/15/21         A-6021       FINISH SCHEDULE       02/15/21         M-601       HERT FLOOR PERCENCIP CEILING PLAN       02/15/21         M-601       HERT FLOOR PERCENCIP CEILING PLAN       02/15/21         M-601       HERT FLOOR MECHANICAL DEAOLITION PLAN       02/15/21         M-701       HERT FLOOR MECHANICAL DEAOLITION PLAN       02/15/21         M-701       HERT FLOOR MECHANICAL DEAOLITION PLAN       02/15/21         M-702       HERT FLOOR MECHANICAL PLAN       02/15/21         M-703       HERT FLOOR MECHANICAL PLAN       02/15/21         M-704       HERT FLOOR MECHANICAL PLAN       02/15/21         M-705       HERT FLOOR MECHANICAL PLAN       02/15/21         M-704       HERT FLOOR MECHANICAL PLAN       02/15/21         M-704       HERT FLOOR MECHANICAL PLAN       02/1	A-201	NORTH ELEVATION	02/15/21
A-302 I BUILDING SECTIONS 02/15/21 A-402 I SECOND AND THERE TO CEILING FLAM 02/15/21 A-402 I SECOND AND THERE TO CEILING FLAM 02/15/21 A-402 I SECOND AND THERE TO CEILING FLAM 02/15/21 SECOND AND THERE TO CEILING FLAM 02/15/21 M-202 I SECOND FLOOR FEALING FLAM 02/15/21 M-202 I SECOND FLOOR FLAM 02/15/2	A-203	SOUTH ELEVATION	02/15/21
A-402 ISCON AND THRE SELECTED CEILING FLAN 4.402 ISCON AND THRE SELECTED CEILING FLAN 502/15/21 3FRUCTURAL 5100 TANTIAL REST FLOOR REALING FLAN 102/15/21 MECHANICAL ME	A-302	BUILDING SECTIONS	02/15/21
STRUCTURAL       102/15/21         MECHANICAL       102/15/21         MECHANICAL       1001         MARCHANICAL DATA SHEET       102/15/21         MARCHANICAL       1001         MARCHANICAL<	A-400 A-401 A-402	FIRST FLOOR REFLECTED CEILING PLAN	02/15/21
STID1       PARTIAL FIRST FLOOR FRAMING PLAN       02/15/21         MECHANICAL       MECHANICAL DATA SHET       02/15/21         MACOLI       MECHANICAL DATA SHET       02/15/21         MACOLI       FRATHICAL BATA SHET       02/15/21         <	A-602		02/15/21
M-001 MECHANICAL DATA SHEEL 02/15/21 W-101 HESTFLOOR MECHANICAL DEMOLITION PLAN 02/15/21 W-102 HECOND FLOOR MECHANICAL DEMOLITION PLAN 02/15/21 W-103 HEROD FLOOR MECHANICAL DEMOLITION PLAN 02/15/21 W-104 HEROD FLOOR MECHANICAL PLAN 02/15/21 W-201 HEROTOR MECHANICAL PLAN 02/15/21	S-101	PARTIAL FIRST FLOOR FRAMING PLAN	02/15/21
M-101 FIRST FLOOR MECHANICAL DEMOLITION PLAN M-102 SECOND FJOOR MECHANICAL DEMOLITION PLAN M-102 SECOND FJOOR MECHANICAL DEMOLITION PLAN M-201 FIRST FLOOR MECHANICAL PLAN M-201 FIRST FLOOR MECHANICAL PLAN M-201 FIRST FLOOR MECHANICAL PLAN M-201 FIRST FLOOR MECHANICAL PLAN M-202 FIRST FLOOR MECHANICAL PLAN M-203 FIRST FLOOR MECHANICAL PLAN M-204 FIRST FLOOR MECHANICAL PLAN M-204 FIRST FLOOR MECHANICAL PLAN M-204 FIRST FLOOR MECHANICAL PLAN M-204 MECHANICAL DETAILS M-204 FIRST FLOOR PLANENGER M-204 MECHANICAL DETAILS M-204 MECHANICAL	MECHAI M-001 M-100	MECHANICAL DATA SHEET	02/15/21
M-200 BASEMENT MECHANICAL PLAN M-201 FIRST FLOOR MECHANICAL PLAN M-202 MECHANICAL DETAILS M-201 FIRST FLOOR MECHANICAL PLAN M-202 MECHANICAL SCHEDULES M-201 FIRST FLOOR MECHANICAL SCHEDULES M-201 FIRST FLOOR MECHANICAL SCHEDULES M-202 FIRST FLOOR MECHANICAL PLAN M-202 FIRST	M-101 M-102	FIRST FLOOR MECHANICAL DEMOLITION PLAN SECOND FLOOR MECHANICAL DEMOLITION PLAN	02/15/21 02/15/21
M-203 THED FLOOR MECHANICAL PLAN M-204 ROOP MECHANICAL PLAN M-205 SITE MECHANICAL PLAN M-205 SITE MECHANICAL PLAN M-207 MECHANICAL DETAILS M-207 MECHANICAL DETAILS M-207 MECHANICAL DETAILS M-207 MECHANICAL DETAILS M-207 MECHANICAL DETAILS M-207 MECHANICAL SCHEDULES M-207	M-200 M-201	BASEMENT MECHANICAL PLAN FIRST FLOOR MECHANICAL PLAN	02/15/21 02/15/21
M.:301       MECHANICAL DETAILS       02/15/21         M.:302       MECHANICAL DETAILS       02/15/21         M.:303       MECHANICAL SCHEDUIES       02/15/21         M.:401       MECHANICAL SCHEDUIES       02/15/21         M.:401       MECHANICAL SCHEDUIES       02/15/21         M:401       MECHANICAL SCHEDUIES       02/15/21         PLUMBING       PLUMBING DATA SHEET       02/15/21         PLOID       FLORENCE PLAN       02/15/21         PLOID	M-203 M-204	THIRD FLOOR MECHANICAL PLAN ROOF MECHANICAL PLAN	02/15/21 02/15/21
M.:401 MECHANICAL SCHEDULES 02/15/21 PLUMBING P-001 PLUMBING DATA SHEET P-001 PLUMBING DATA SHEET P-001 PLUMBING DATA SHEET P-001 FLUMBING DEMOLITION PLAN 02/15/21 P-001 FLUMBING PLAN 02/15/21 P-001 FLUMBING PLAN 02/15/21 P-003 BASEMENT PLUMBING PLAN 02/15/21 P-003 BASEMENT LIGHTING PLAN 02/15/21 P-004 BASEMENT LIGHTING PLAN 02/15/21 P-005 BASEMENT LIGHTIN	M-301 M-302	MECHANICAL DETAILS MECHANICAL DETAILS	02/15/21 02/15/21
P-001 FLUMAING DATA SHEET 02/15/21 P-100 EASEMENT PLUMBING DEMOLITION PLAN 02/15/21 P-102 ESECOND FLOOR PLUMBING DEMOLITION PLAN 02/15/21 P-202 BASEMENT PLUMBING PLAN 02/15/21 P-202 SECOND FLOOR PLUMBING PLAN 02/15/21 P-203 THIRD FLOOR PLUMBING PLAN 02/15/21 ELECTRICAL DATA SHEET 02/15/21 ELECTRICAL DATA SHEET 02/15/21 ELECTRICAL DATA SHEET 02/15/21 ELECTRICAL DATA SHEET 02/15/21 ELECTRICAL DEMOLITION PLAN 02/15/21 E	M-303 M-401 M-402	MECHANICAL SCHEDULES	02/15/21
P-101 FIRST FLOOR PLUMBING DEMOLITION PLAN P-102 SECOND FLOOR PLUMBING PLAN P-201 FIRST FLOOR PLUMBING PLAN P-201 FIRST FLOOR PLUMBING PLAN P-202 SECOND FLOOR PLUMBING PLAN P-203 THIRD FLOOR PLUMBING PLAN P-203 THIRD FLOOR PLUMBING PLAN P-203 THIRD FLOOR PLUMBING PLAN P-204 FIRST FLOOR PLUMBING PLAN P-205 THIRD FLOOR PLUMBING PLAN P-205 THIRD FLOOR PLUMBING PLAN P-205 THIRD FLOOR PLUMBING PLAN P-206 THIRD FLOOR PLUMBING PLAN P-207 THIRD FLOOR PLUMBING PLAN P-208 THIRD FLOOR PLUMBING PLAN P-208 THIRD FLOOR PLUMBING PLAN P-209 THIRD FLOOR PLUMBING PLAN P-201 FIRST FLOOR PLUMBING PLAN P-201 FIRST FLOOR PLUMBING PLAN P-202 SECOND FLOOR PLAN P-202 SECOND	P-001	PLUMBING DATA SHEET	
P-202 SECOND FLOOR PLUMBING PLAN P-203 THIRD FLOOR PLUMBING PLAN E-001 ELECTRICAL DATA SHEET F-001 ELECTRICAL DATA SHEET F-001 FLOOR ELECTRICAL DEMOLITION PLAN PLAN E-001 FLOOR FLOOR FLOOR PLAN PLAN E-001 FLOOR FLOOR FLOOR PLAN PLAN E-001 FLOOR FLOOR PLAN PLAN E-001 FLOOR FLOOR PLAN E-001 FLOOR FLOOR FLOOR PLAN PLAN E-001 FLOOR FLOOR FLOOR PLAN E-001 FLOOR FLOOR FLOOR PLAN E-001 FLOOR FLOOR FLOOR PLAN E-001 FLOOR FLOOR FLOOR PLAN E-001 FLOOR FLOOR FLAN E-001 FLOOR FLEE ALARM PLAN E-001 FLEE COND FLOOR FLEE ALARM PLAN E-	P-101 P-102	FIRST FLOOR PLUMBING DEMOLITION PLAN SECOND FLOOR PLUMBING DEMOLITION PLAN	02/15/21 02/15/21 02/15/21
P-203 THIRD FLOOR PLUMBING PLAN 02/15/21 ELECTRICAL ELECTRICAL ELECTRICAL DATA SHEET 02/15/21 E-001 ELECTRICAL DEMOLITION PLAN 02/15/21 E-102 FFROM FLOOR ELECTRICAL DEMOLITION PLAN 02/15/21 E-103 FHRD FLOOR ELECTRICAL DEMOLITION PLAN 02/15/21 E-203 SECOND FLOOR ELECTRICAL DEMOLITION PLAN 02/15/21 E-203 FHRD FLOOR ELECTRICAL DEMOLITION PLAN 02/15/21 E-203 FHRD FLOOR IGHTING PLAN 02/15/21 E-203 FHRD FLOOR FLOOR FLAN D-202 SECOND F	P-200 P-201 P-202	FIRST FLOOR PLUMBING PLAN	02/15/21 02/15/21 02/15/21
E-001 ELECTRICAL DATA SHEET 02/15/21 E-100 BASEMENT ELECTRICAL DEMOLITION PLAN 02/15/21 E-102 FECOND FLOOR ELECTRICAL DEMOLITION PLAN 02/15/21 E-103 THRD FLOOR ELECTRICAL DEMOLITION PLAN 02/15/21 E-201 FIRST FLOOR TIEGETING FLAN 02/15/21 E-202 SECOND FLOOR LIGHTING FLAN 02/15/21 E-203 THRD FLOOR LIGHTING FLAN 02/15/21 E-203 SECOND FLOOR UGHTING FLAN 02/15/21 E-203 SECOND FLOOR FLOOR FLOOR FLAN 02/15/21 E-203 SECOND FLOOR FLOOR FLOOR FLAN 02/15/21 E-203 SECOND FLOOR FLOOR FLAN 02/15/21 E-203 SECOND FLOOR FLOOR FLOOR FLAN 02/15/21 E-203 SECOND FLOOR FLAN 02/15/21 E-203 SECOND FLOOR FLOOR FLAN 02/15/21 E-203 SECOND FLOOR FLOOR FLAN 02/15/21 E-203 SECOND FLOOR FLAN 02/15/21 E-201 FLECTRICAL SCHEDULES 02/15/21 E-201 FLECTRICAL SCHEDULES 02/15/21 E-201 FLECTRICAL SCHEDULES 02/15/21 FLOOR FLAN MERTER DARAM 02/15/21 FLOOR FLAN 02/15/21 FL	P-203	THIRD FLOOR PLUMBING PLAN	
E-102 SECOND FLOOR FLECTRICAL DEMOLITION PLAN 0271 5/21 E-200 FASEMENT LIGHTING PLAN 0271 5/21 E-201 FRST FLOOR DIGOT LIGHTING PLAN 0271 5/21 E-202 SECOND FLOOR UGHTING PLAN 0271 5/21 E-203 THED FLOOR FLOOR THE ALARM PLAN 0271 5/21 E-203 THED FLOOR POWER PLAN 0271 5/21 E-203 THED FLOOR FLOOR PLAN 0271 5/21 E-203 THED FLOOR FLOOR PLAN 0271 5/21 E-203 THED FLOOR FLOOR POWER PLAN 0271 5/21 E-203 THED FLOOR FLOOR POWER PLAN 0271 5/21 E-203 THED FLOOR FLOOR POWER PLAN 0271 5/21 E-203 THED FLOOR FLOOR FLOOR PLAN 0271 5/21 E-203 THED FLOOR FLEALARM PLAN 0271 5/21 E-203 THED FLOOR FLEALARM PLAN 0271 5/21 E-201 FLECTRICAL SCHEDULES 0271 5/21 E-201 FLECTRICAL	E-001 E-100	ELECTRICAL DATA SHEET BASEMENT ELECTRICAL DEMOLITION PLAN	02/15/21
E-201 FIRST FLOOR LIGHTING PLAN E-202 SECOND FLOOR DIGHTING PLAN E-203 THIRD FLOOR UCHTING PLAN E-203 THIRD FLOOR POWER PLAN E-300 FASEMENT POWER PLAN E-301 FIRST FLOOR POWER PLAN E-302 SECOND FLOOR POWER PLAN C-271 5/21 E-400 FASEMENT FIRE ALARM PLAN C-271 5/21 E-400 FASEMENT FIRE ALARM PLAN C-271 5/21 E-402 SECOND FLOOR FLOOR FLOOR FLOOR PLAN C-271 5/21 E-403 THIRD FLOOR FLE ALARM PLAN C-271 5/21 E-403 THIRD FLOOR THE ALARM PLAN C-271 5/21 C-403 THIRD FLOOR	E-102 E-103	SECOND FLOOR ELECTRICAL DEMOLITION PLAN THIRD FLOOR ELECTRICAL DEMOLITION PLAN	02/15/21 02/15/21
E-300 BASEMENT POWER PLAN E-301 FIRST FICOR POWER PLAN E-302 SECOND FICOR POWER PLAN C2/15/21 E-303 THRD FICOR POWER PLAN C2/15/21 E-400 BASEMENT FIRE ALARM PLAN C2/15/21 E-403 THRD FICOR FIRE ALARM PLAN C0/15/20 FICOR FIRE ALARM FICON FICOR FIRE ALARM PLAN C0/15/20 FICOR FIRE ALARM FICOR FIRE ALARM PLAN C0/15/20 FICOR FIRE ALARM FICON FICOR FIRE ALARM	E-201 E-202	FIRST FLOOR LIGHTING PLAN SECOND FLOOR LIGHTING PLAN	02/15/21 02/15/21
E-303 THIRD FLOOR POWER PLAN E-402 BASEMENT FIRE ALARM PLAN E-402 SECOND FLOOR FIRE ALARM PLAN 02/13/21 E-402 SECOND FLOOR FIRE ALARM PLAN 02/13/21 E-403 THIRD FLOOR FIRE ALARM PLAN 02/13/21 E-301 ELECTRICAL DETAILS 02/13/21 E-301 ELECTRICAL SCHEDULES 02/13/21 E-301 ELECTRICAL SCHEDULE	E-300 E-301	BASEMENT POWER PLAN FIRST FLOOR POWER PLAN	02/15/21 02/15/21
E 402 SECOND FLOOR FIRE ALARM PLAN E 403 THIRD FLOOR FIRE ALARM PLAN E 501 ELECTRICAL DETAILS E 501 FLECTRICAL DETAILS	E-303 E-400	SECOND FLOOR POWER PLAN THIRD FLOOR POWER PLAN BASEMENT FIRE ALARM PLAN	02/15/21
E-GOI FIRE ALARM RISER DIAGRAM E-ZOI ELECTRICAL SCHEDULES 02/15/21 02/15/	E-401 E-402 E-403	SECOND FLOOR FIRE ALARM PLAN	02/15/21
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	to buly Pa	Biomat USA O McDonald's Way Graybar	Electric Supply
Cardello Building Cardello Building Cardello Building Main Ridge Ave	Ohio Rive	Cardello Building	Legard
Reedschalt	*		



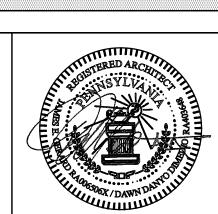
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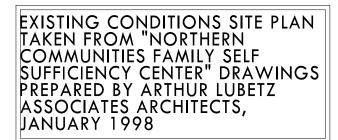


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB

1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233





## ARCHITECTURAL SYMBOL LEGEND

DRAWING SYMBOLS

SECTION/DETAIL NUMBER

SCHEDULES

WINDOW TYPE

ARTITION TYPE

ROOM NUMBERS REFERENCED ON SCHEDULES

DOOR NUMBERS REFERENCED ON

XAX /

XXX

 $\begin{pmatrix} X \\ 1 \end{pmatrix}$ 

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H.B.

H.C.

HOR

HVAC

INSUL

L&I

LAV

M.C

м.н.

м.о.

MTD

MTL

N.T.S.

NIC

0/A

OPG

P.C.

P.LAM

PL

PMB

PNL PSF

PSI

PTN PVC

R.D.

R.O.

REQ'D

S.C.

S.I.

S.O.G.

S.S.

S.Y.

SF

SIM

SQ

STD

STL

т/

TWF

TYP

UNO

VCT

VERT

VWC

W/

W/0

WC

WWF

0.F.I.C.

0.F.I.

N.I.C.

NOT IN CONTRACT

IBC

#### **MATERIALS**

<u> MHA</u> CONCRETE MASONRY REINFORCED CONCRETE MASONRY CONCRETE BRICK CAST STONE

- EXISTING CONSTRUCTION TO REMAIN EXISTING CONSTRUCTION TO BE DEMOLISHED METAL STUD CONSTRUCTION FIRE RATED METAL STUD CONSTRUCTION GYPSUM BOARD
- BATT INSULATION RIGID INSULATION STEEL
- ALUMINUM GLASS

= = =

\*\*\*\*\*\*

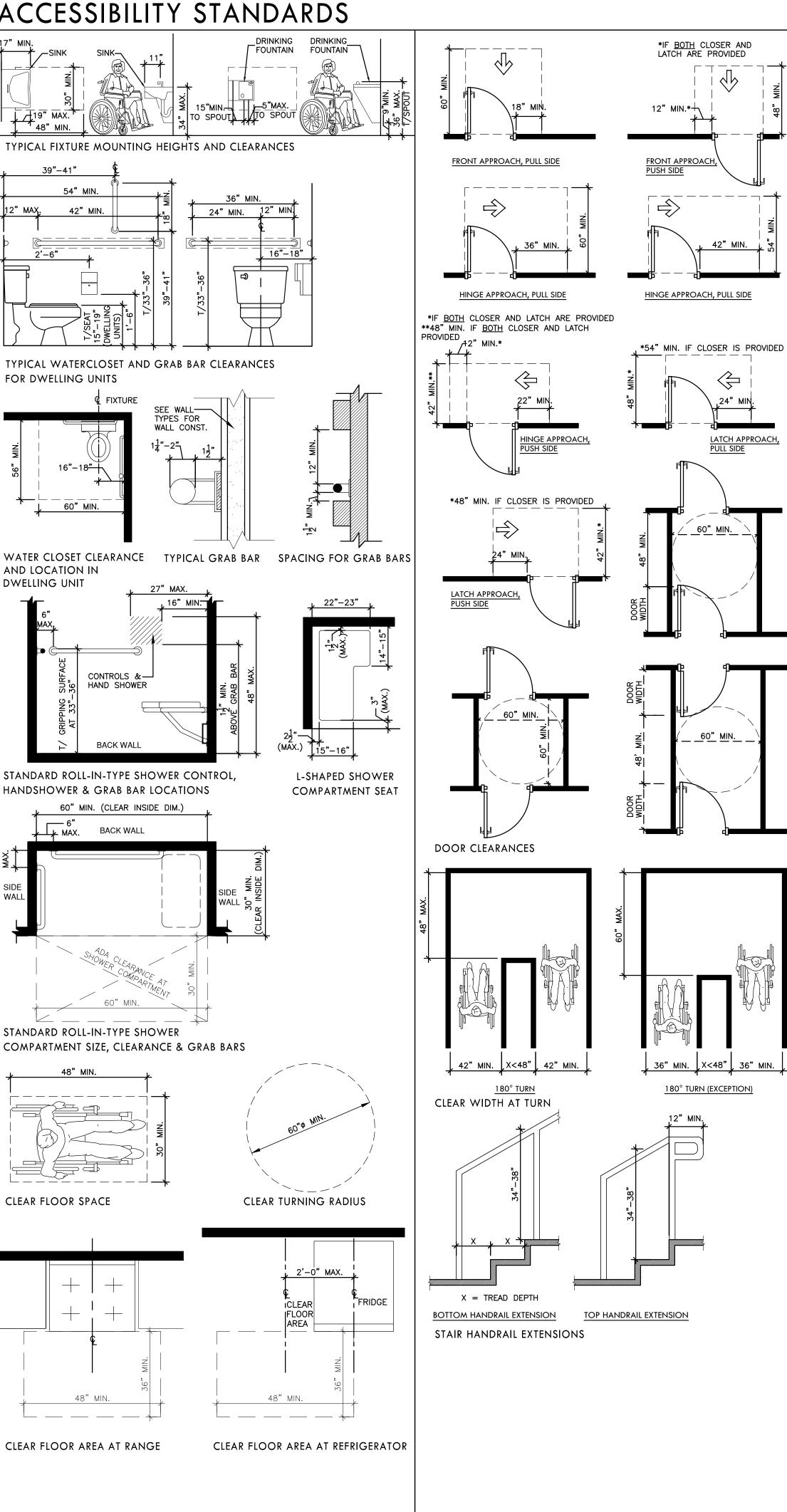
077 FINISHED WOOD  $\geq$ ROUGH WOOD SMOKE RATED CONSTRUCTION

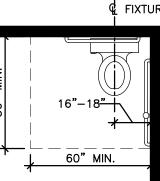
### ABBREVIATIONS

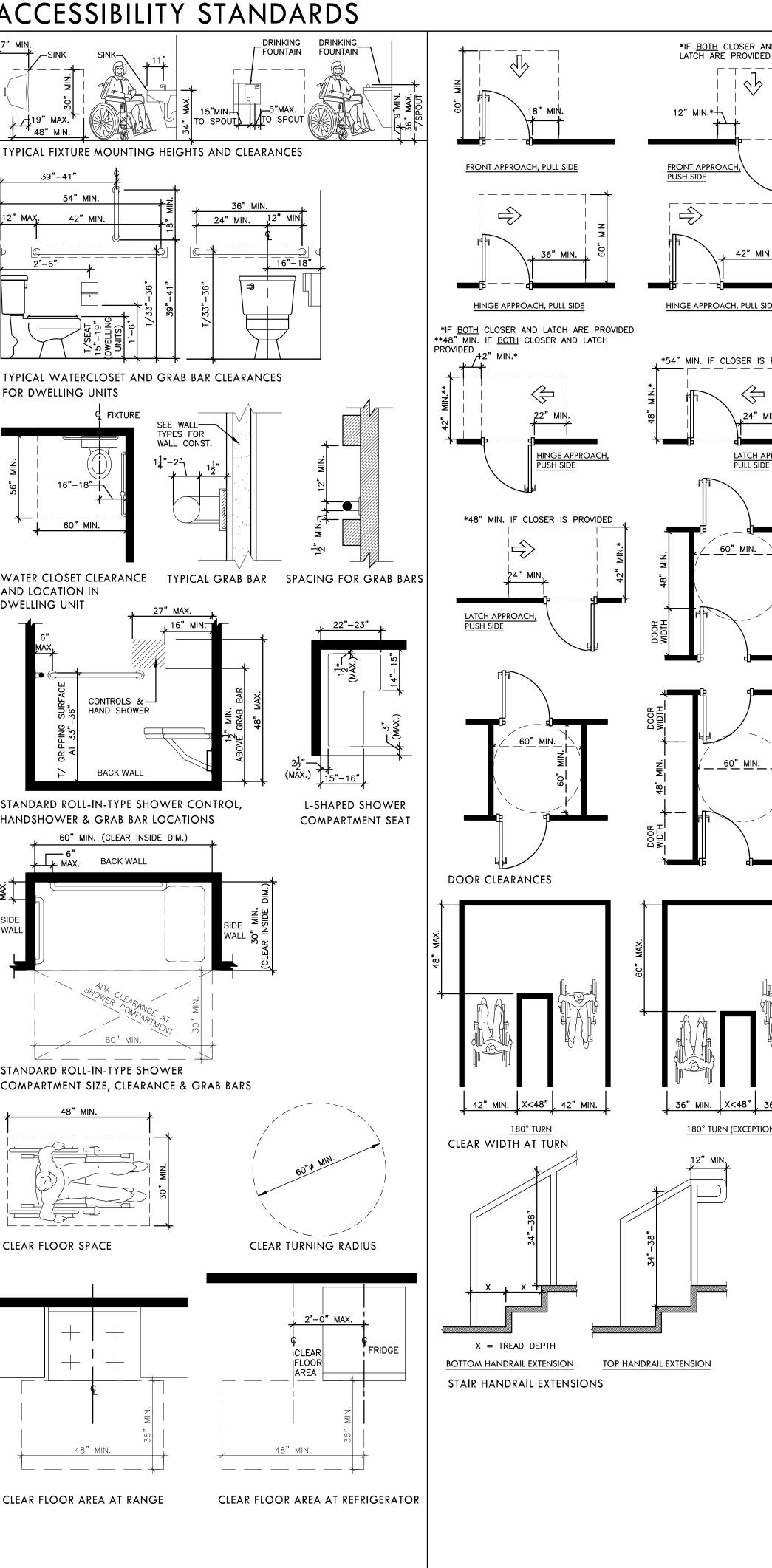
A.C. AQUATIC CONTRACTOR A.F.F. ABOVE FINISHED FLOOR ADD'L ADDITIONAL ADJ ADJACENT ALT ALTERNATE ALUM ALUMINUM APPROX APPROXIMATE AVG AVERAGE BUILDING LINE B.L. В.М. BENCH MARK B.O.C.A. BUILDING OFFICIALS AND CODE ADMINISTRATORS B/ BOTTOM OF BITUM BITUMINOUS BLDG BUILDING BLK'G BLOCKING BSM'T BASEMENT С.В. CATCH BASIN CENTER LINE C.O. CLEAN OUT CER. CERAMIC CJ CONTROL JOINT CLG CEILING CONCRETE MASONRY UNIT CMU COL COLUMN CONC CONCRETE CONT CONTINUOUS CRS COURSE CUH CABINET UNIT HEATER D.L.O. DAY LIGHT OPENING D.S. DOWN SPOUT DWG'S DRAWINGS ELECTRICAL CONTRACTOR E.C. EA EACH EIFS EXTERIOR INSULATION FINISHING SYSTEM EJ EXPANSION JOINT ELEC ELECTRIC ELEV ELEVATION EPDM ETHYLENE PROPYLENE DIENE MONOMER EQ EQUAL EWC ELECTRICAL WATER COOLER F.E. FIRE EXTINGUISHER F.E.C. FIRE EXTINGUISHER CABINET F.F. FINISHED FLOOR FIRE PROTECTION CONTRACTOR F.P.C. FD FLOOR DRAIN FDN FOUNDATION FLR FLOOR FROSTPROOF HOSE BIB FPHB FIRE RETARDANT TREATED WOOD FRTW FTG FOOTING G.C. GENERAL CONTRACTOR GA GAUGE GWB GYPSUM WALL BOARD PAPER TOWEL DISPENSER PTD SOAP DISPENSER SD

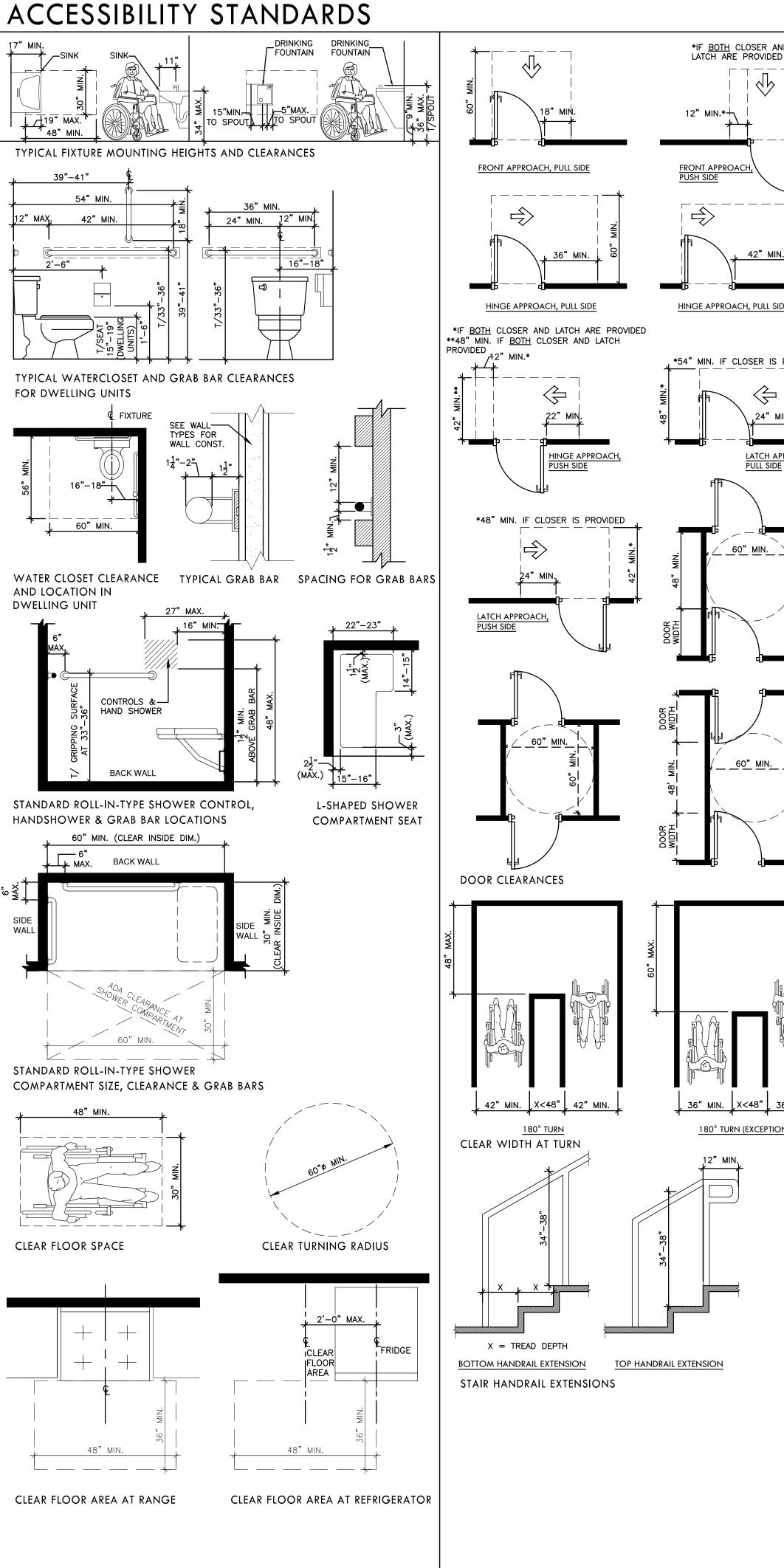
HOSE BIB
HEATING CONTRACTOR
HORIZONTAL
HEATING/VENTILATION/AIR CONDITIONING
INTERNATIONAL BUILDING CODE
INSULATION
INVERT
JOINT
PA DEPARTMENT OF LABOR AND INDUSTRY
MECHANICAL CONTRACTOR
MANHOLE
MOUNTED
METAL
NOT TO SCALE
NOT IN CONTRACT
ON CENTER
OVERALL
OPENING
PLASTIC LAMINATE
PLATE
PRE-ENGINEERED METAL BUILDING
PANEL
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE INCH
PARTITION
POLY VINYL CHLORIDE
ROOF DRAIN
ROUGH OPENING
REQUIRED
SECURITY CONTRACTOR
SQUARE INCH
SLAB ON GRADE
STAINLESS STEEL
SQUARE YARD
SQUARE FEET
SIMILAR
SQUARE
STANDARD
STEEL
TOP OF
TOWNSHIP
TYPICAL
UNLESS NOTED OTHERWISE
VINYL COMPOSITION TILE
VERTICAL
VINYL WALL COVERING
WITH
WITH OUT
WATER CLOSET
WELDED WIRE FABRIC
OWNER FURNISHED, INSTALLED
BY CONTRACTOR OWNER FURNISHED AND INSTALLED
NOT IN CONTRACT

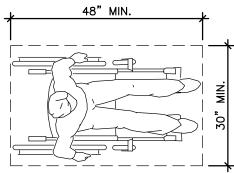
-SINK MAX. 48" MIN.

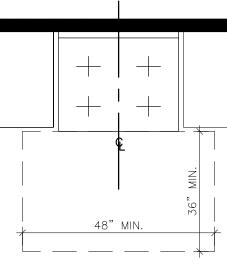




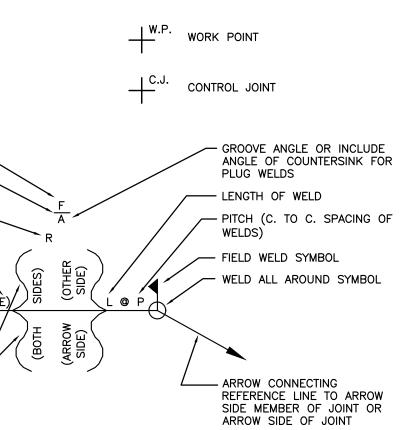






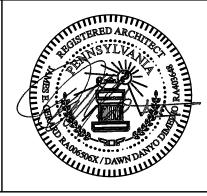


#### STRUCTURAL SYMBOL LEGEND ₩.P. MOMENT CONNECTION \_\_\_\_\_C.J. 3RJ3 BEAM DESIGNATION FINISH SYMBOL -CONTOUR SYMBOL -ROOT OPENING, DEPTH OF FILLING FOR PLUG AND SLOT WELDS -----EFFECTIVE THROAT ----DEPTH OF PREPARATION: SIZE OR STRENGTH FOR SIDE) CERTAIN WELDS -SPECIFICATION, PROCESS LOP OR OTHER REFERENCE ARRC BASIC WELD SYMBOL OR DETAIL REFERENCE



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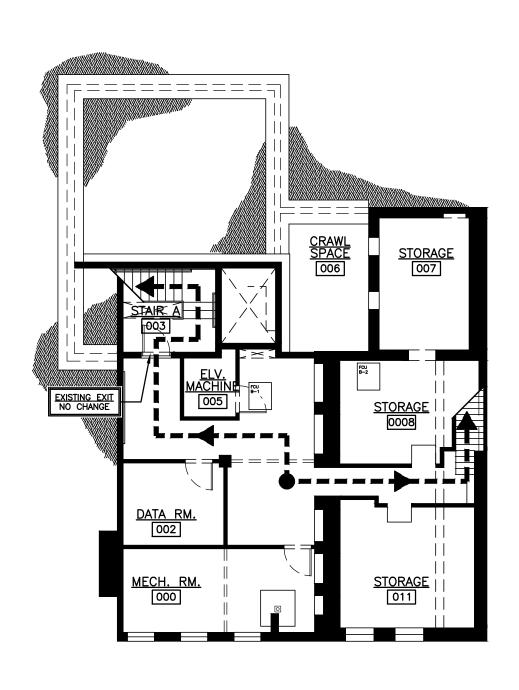


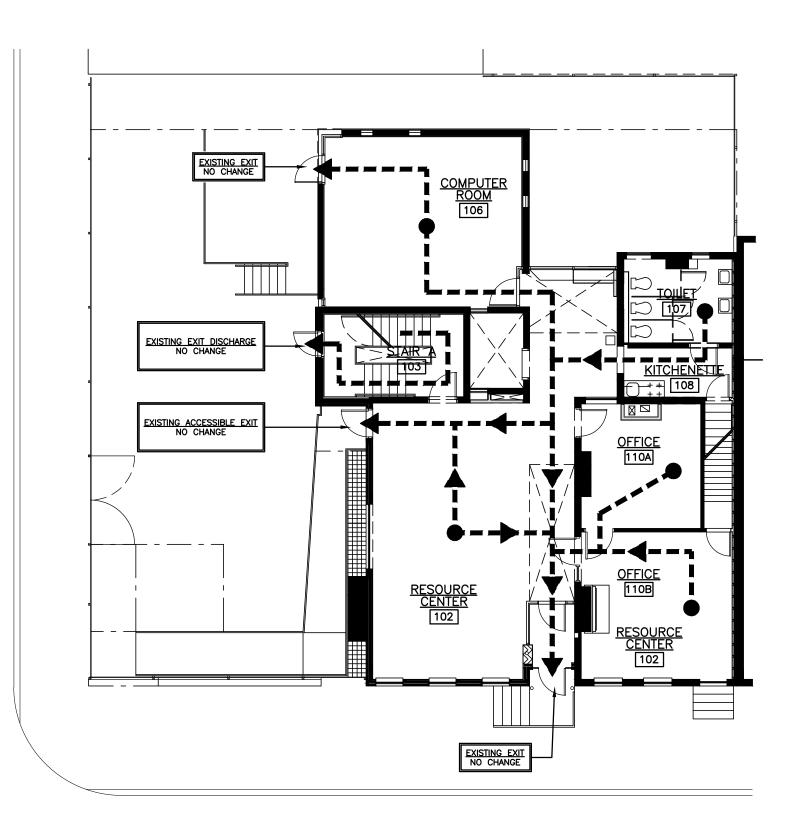
**PROPERTY REHABILITATION FOR:** 

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER** REHAB

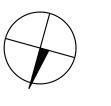
1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233

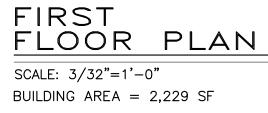




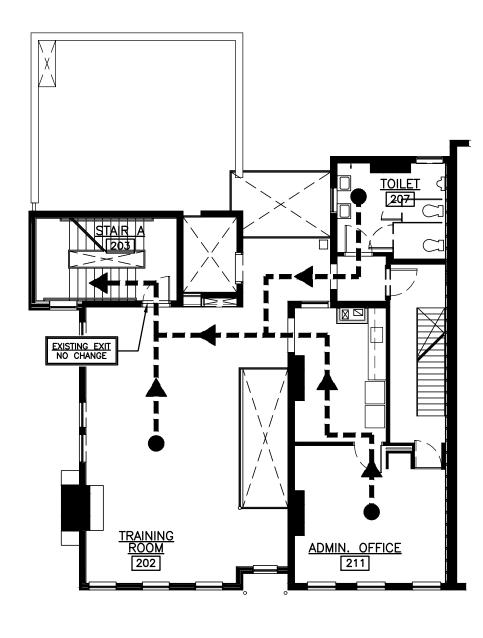


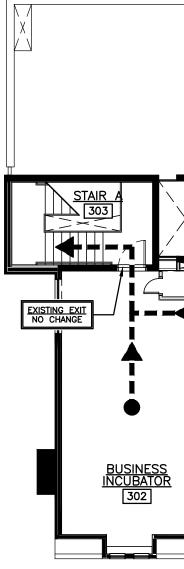






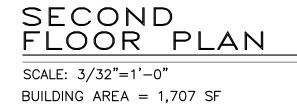
	20			
CODE ITEM REFERENCE	BUILDING DESIGN			
CHAPTER 5 CLASSIFICATION OF WORK	WORK SHALL BE CLASSIFIED AS REPAIRS (502.1 STRUCTURAL REMEDIATION WORK), ALTERATION LEVEL 1 (503.1 ROOF R (504.1 REPLACEMENT AND EXTENSION OF EXISTING MECHANICAL AND ELECTRICAL SYSTEMS)			
CHAPTER 6 REPAIRS-STRUCTURAL REMEDIATION				
602	NEW MATERIALS SHALL BE CONSISTENT WITH THE REQUIREMENTS OF THE IBC 2015. EXISTING MATERIALS WHICH CREATI CONDITION SHALL BE REMOVED.			
603	THE EXISTING LEVEL OF FIRE PROTECTION SHALL BE MAINTAINED - NO CHANGE.			
604	THE EXISTING MEANS OF EGRESS SHALL BE MAINTAINED - NO CHANGE.			
605	THE EXISTING LEVEL OF ACCESSIBILITY SHALL BE MAINTAINED - NO CHANGE.			
606	NEW STRUCTURAL ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC 2015.			
606.2.1	PROPOSED REPAIRS ARE FOR LESS THAN SUBSTANTIAL STRUCTURAL DAMAGE AND SHALL RESTORE THE WORK TO A PRE THE AFFECTED COMPONENTS DO NOT SUPPORT MORE THAN 30% OF THE STRUCTURE'S FLOOR.			
607	NO ELECTRICAL REPAIRS ARE PROPOSED.			
608	NO MECHANICAL REPAIRS ARE PROPOSED.			
609	NO PLUMBING REPAIRS ARE PROPOSED.			
CHAPTER 7 ALTERATION – LEVEL 1				
702	ALL NEW WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC, IECC, IMC, AND IPC.			
703	THE EXISTING LEVEL OF FIRE PROTECTION SHALL BE MAINTAINED - NO CHANGE.			
704	THE EXISTING MEANS OF EGRESS SHALL BE MAINTAINED - NO CHANGE.			
705	THE EXISTING LEVEL OF ACCESSIBILITY SHALL BE MAINTAINED - NO CHANGE PROPOSED TO ACCESSIBLE BUILDING ELEME THE BUILDING INCLUDES AN EXISTING ACCESSIBLE ROUTE.			
706	ROOF RE-COVERING IS PROPOSED.			
706.1	MATERIALS AND METHODS OF APPLICATION FOR "RE-COVERING" THE EXISTING ROOF SHALL COMPLY WITH THE IBC.			
706.2	EXISTING STRUCTURAL ROOF COMPONENTS ARE CAPABLE OF SUPPORTING THE NEW ROOF COVERING.			
706.3	ROOF RE-COVERING IS PROPOSED.			
706.4	NO COMBUSTIBLE, CONCEALED SPACE IS PROPOSED.			
706.5	NO REINSTALLATION OF MATERIALS IS PROPOSED.			
706.6	NEW FLASHINGS SHALL COMPLY WITH THIS SECTION.			
707	NO STRUCTURAL WORK IN ACCORDANCE WITH THIS SECTION IS PROPOSED.			
708	NO WORK ALTERING THE ENERGY CONSERVATION OR CONSUMPTION IN ACCORDANCE WITH THIS SECTION IS PROPOSED.			















2015 INTERNATIONAL EXISTING BUILDING CODE INFORMATION CODE ITEM REFERENCE BUILDING DESI RE-COVERING), AND ALTERATION LEVEL 2 CHAPTER 8 ALTERATION - LEVEL 2 ALL NEW WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC 2015. 801 ATE AND UNSAFE OR DANGEROUS NO ALTERATION IS PROPOSED TO THE EXISTING OCCUPANCY AND USE. 802 803 BUILDING ELEMENTS/MATERIALS NO ALTERATION TO THE EXISTING BUILDING VERTICAL OPENINGS IS PROPOSED. 803.2 803.3 SMOKE COMPARTMENT CONSTRUCTION DOES NOT COMPLY. NEW INTERIOR FINISHES SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC 2015. 803.4 RE-DAMAGED CONDITION. NO NEW CONSTRUCTION AFFECTING GUARDS IS PROPOSED. 803.5 NO CHANGE TO EXISTING FIRE RATINGS IS PROPOSED. 803.6 THE EXISTING LEVEL OF FIRE PROTECTION SHALL BE MAINTAINED - NO CHANGE. 804 THE EXISTING MEANS OF EGRESS SHALL BE MAINTAINED - NO CHANGE. 805 THE EXISTING LEVEL OF ACCESSIBILITY SHALL BE MAINTAINED - NO CHANGE PROPOSED 806 THE BUILDING INCLUDES AN EXISTING ACCESSIBLE ROUTE. THE PROPOSED STRUCTURAL REMEDIATION WORK CLASSIFIES AS A REPAIR IN ACCORDANCE 807 NEW ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 70. 808 809 MECHANICAL ALTERED EXISTING SYSTEMS SHALL COMPLY TO PROVIDE MANDATED VENTILATION. MENTS OR AN AREA OF PRIMARY FUNCTION. 809.2 810 PLUMBING WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE IPC. NEW SYSTEMS SHALL COMPLY WITH THE IECC. 811 CHAPTER 15 CONSTRUCTION SAFEGUARDS ALL WORK SHALL COMPLY WITH THE CONSTRUCTION SAFEGUARDS OF THIS CHAPTER.

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	ALL DIMENSIONS AND ET THE SITE.		BE CHECKED AND VERIFIED BY THE CONTRACTOR AT
	Δ		
2D OR PLAN 32"=1'-0"			
AREA = 1,488 SF			RED ARCHINE SYLVANA RED ARCHINE SYLVANA RED ARCHINE SYLVANA SY
GN	PROPER	TY REHABI	LITATION FOR:
	DEVEL OPPC REHAE	.OPMEI DRTUNI 3	TIES CENTER
	BUILDING	POOL STREE #35 H, PA 15233	
TO ACCESSIBLE BUILDING ELEMENTS OR AN AREA OF PRIMARY FUNCTION. CE WITH CHAPTER 6.			
	ASSO 410 FT. PI PITTSBURC PHONE: 4	CIATES TT COMMON SH, PENNSY	A R D ARCHITECTS NS, 445 FT. PITT BLVD. IVANIA 15219-1333 1 FAX: 412-566-1532
	CODE SUMMARY		
	COMM. NO. 2035 ISSUE DATE 02/15/21	REVISION NO.	<sup>dwg NO.</sup> <b>G-002</b>

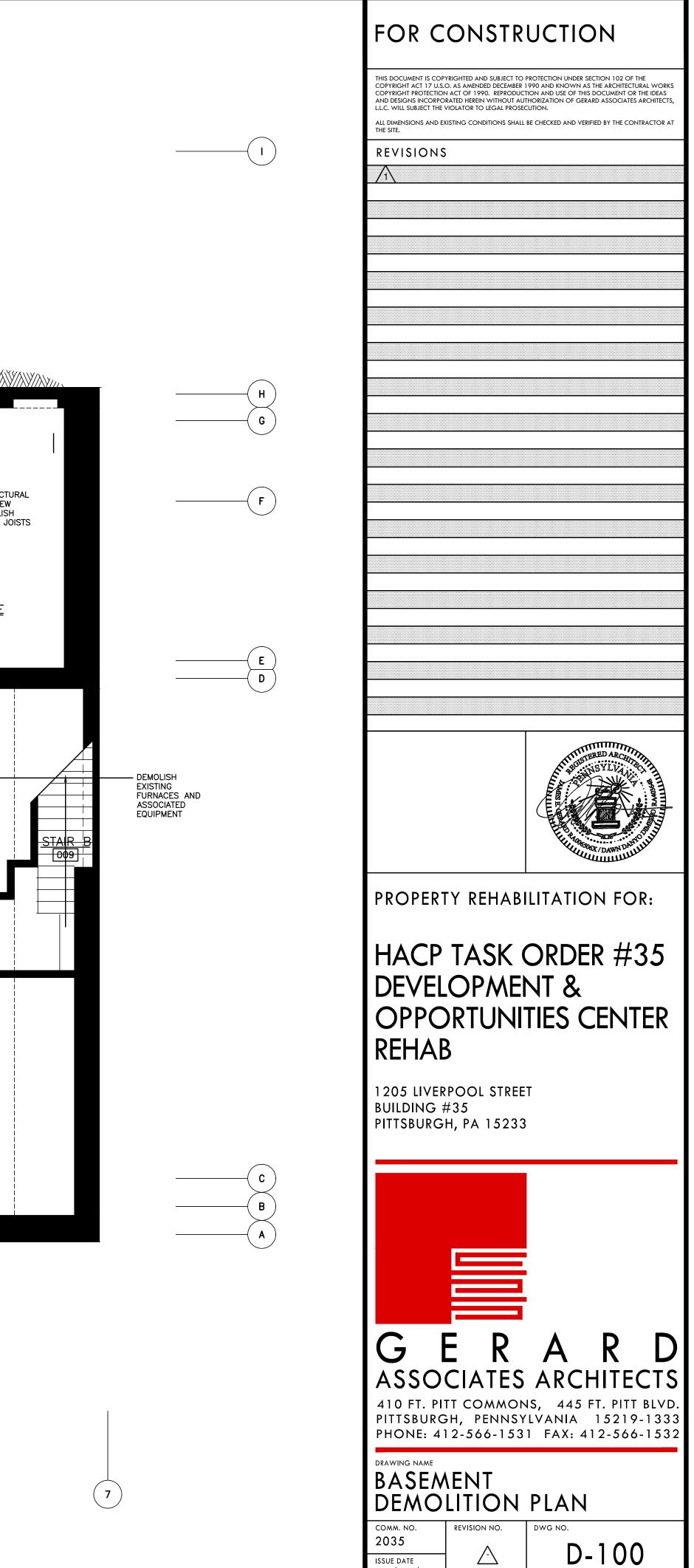


#### BASEMENT DEMOLITION PLAN SCALE: 1/4"=1'-0"

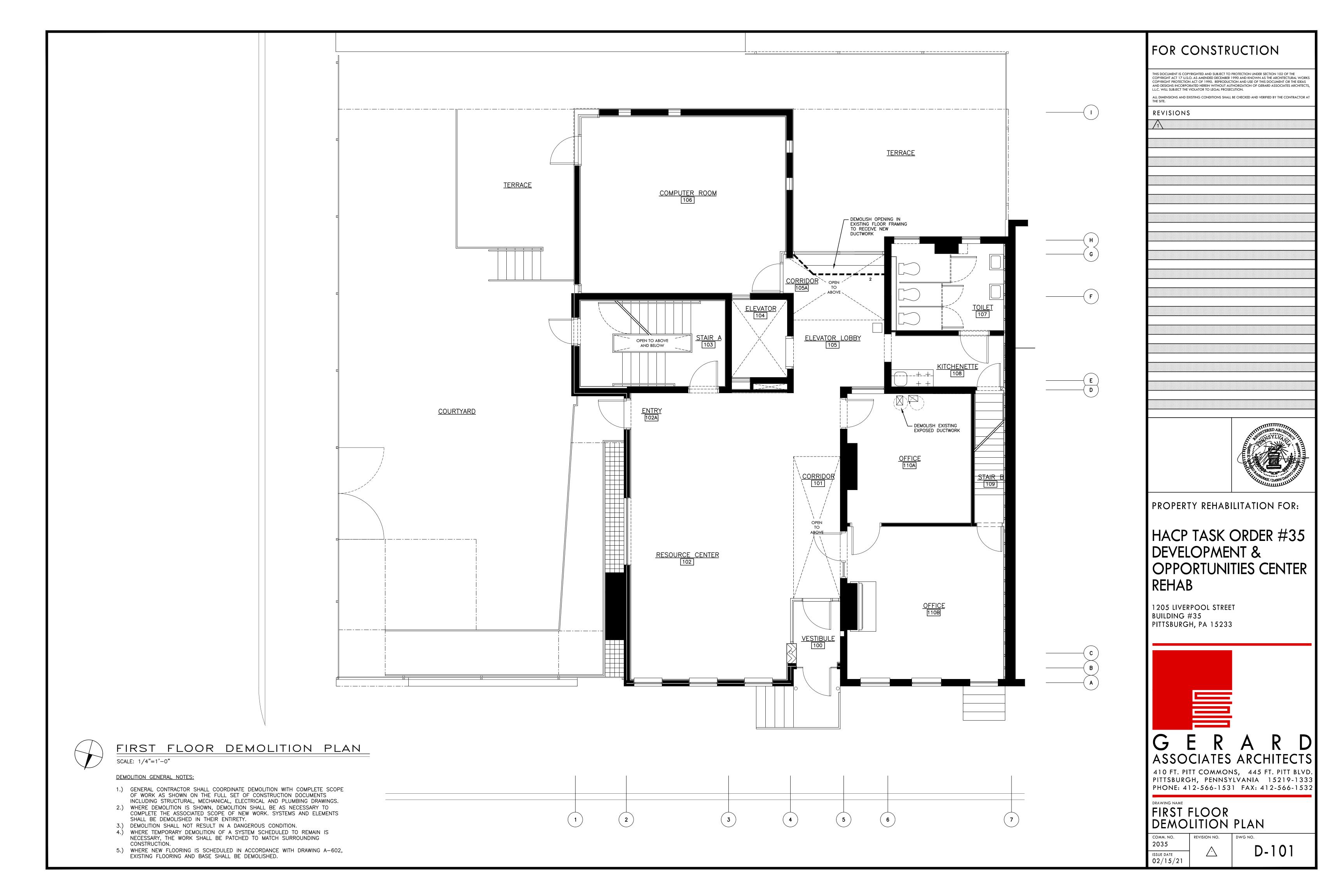
DEMOLITION GENERAL NOTES:

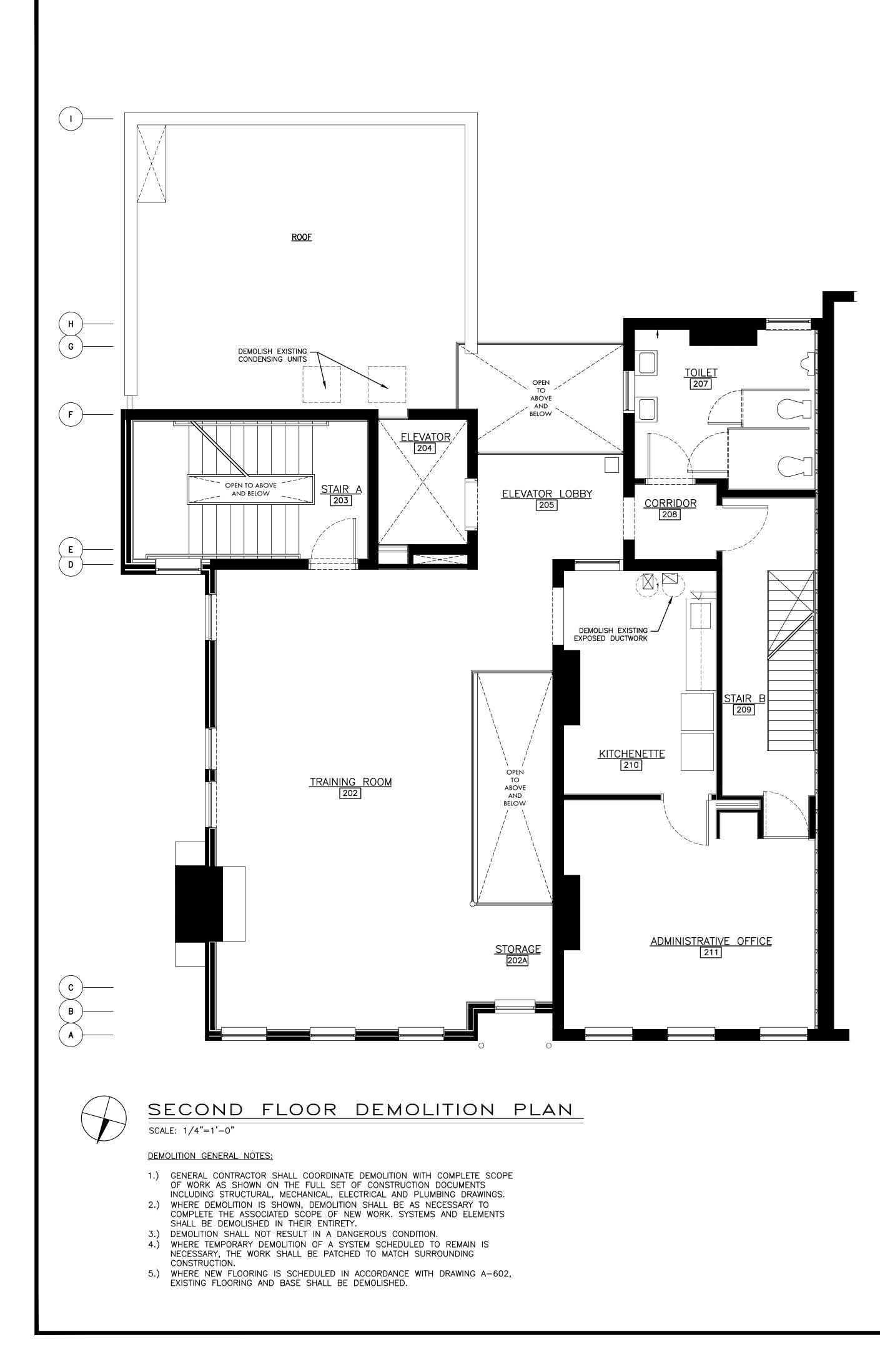
- 1.) GENERAL CONTRACTOR SHALL COORDINATE DEMOLITION WITH COMPLETE SCOPE OF WORK AS SHOWN ON THE FULL SET OF CONSTRUCTION DOCUMENTS
- INCLUDING STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
  WHERE DEMOLITION IS SHOWN, DEMOLITION SHALL BE AS NECESSARY TO COMPLETE THE ASSOCIATED SCOPE OF NEW WORK. SYSTEMS AND ELEMENTS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
- 3.) DEMOLITION SHALL NOT RESULT IN A DANGEROUS CONDITION.
- 4.) WHERE TEMPORARY DEMOLITION OF A SYSTEM SCHEDULED TO REMAIN IS NECESSARY, THE WORK SHALL BE PATCHED TO MATCH SURROUNDING CONSTRUCTION.
- 5.) WHERE NEW FLOORING IS SCHEDULED IN ACCORDANCE WITH DRAWING A-602, EXISTING FLOORING AND BASE SHALL BE DEMOLISHED.

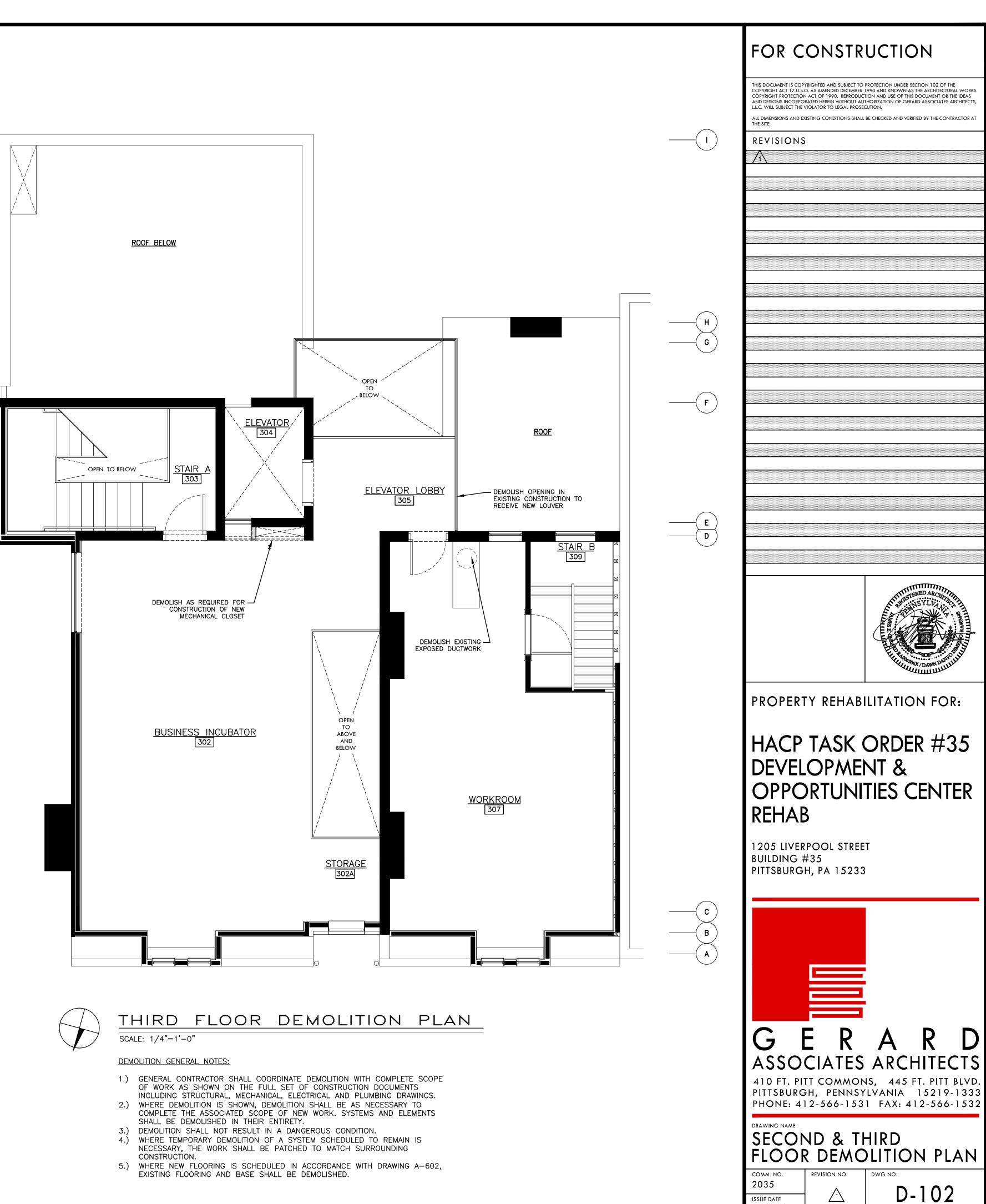




02/15/21

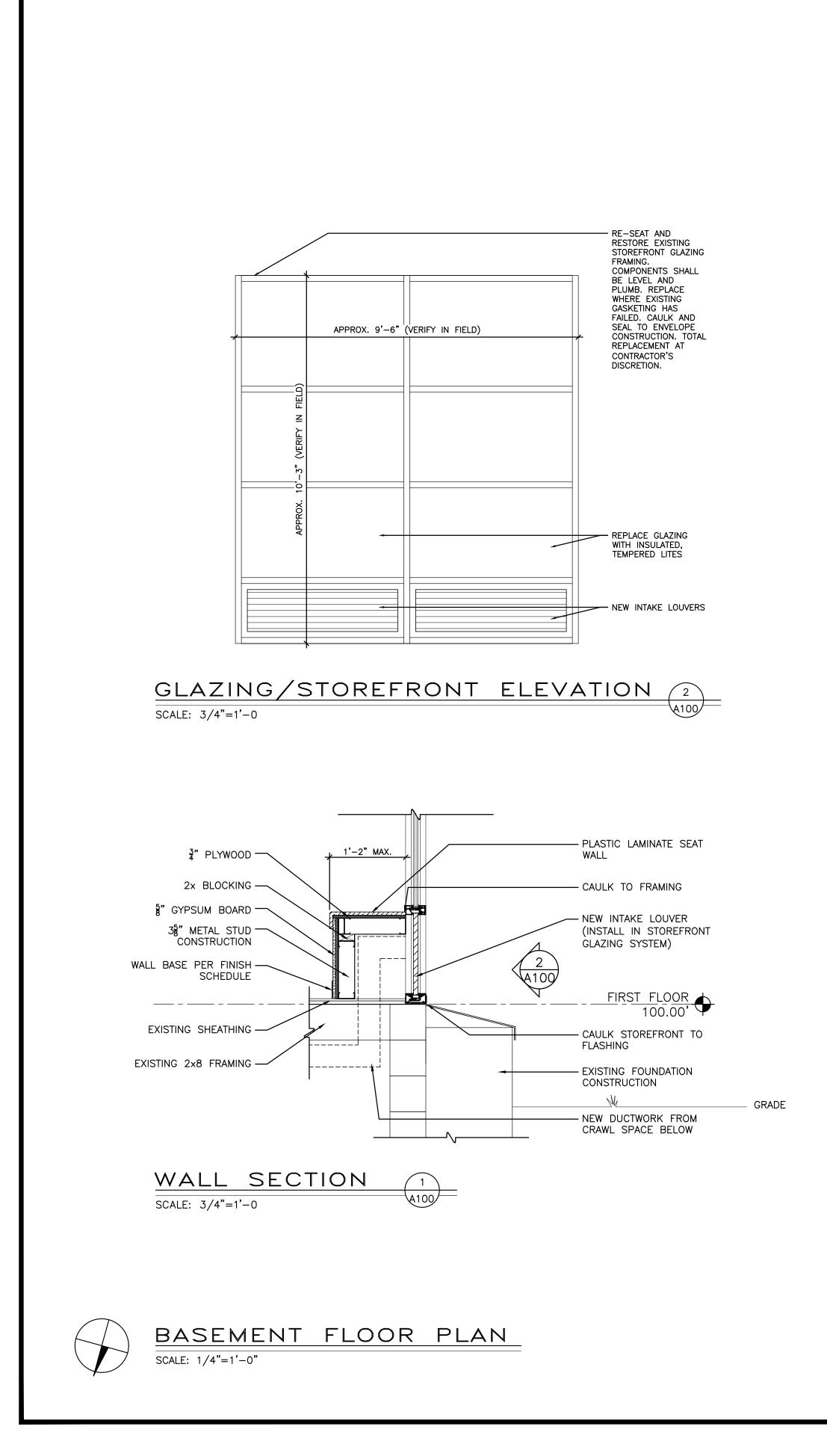


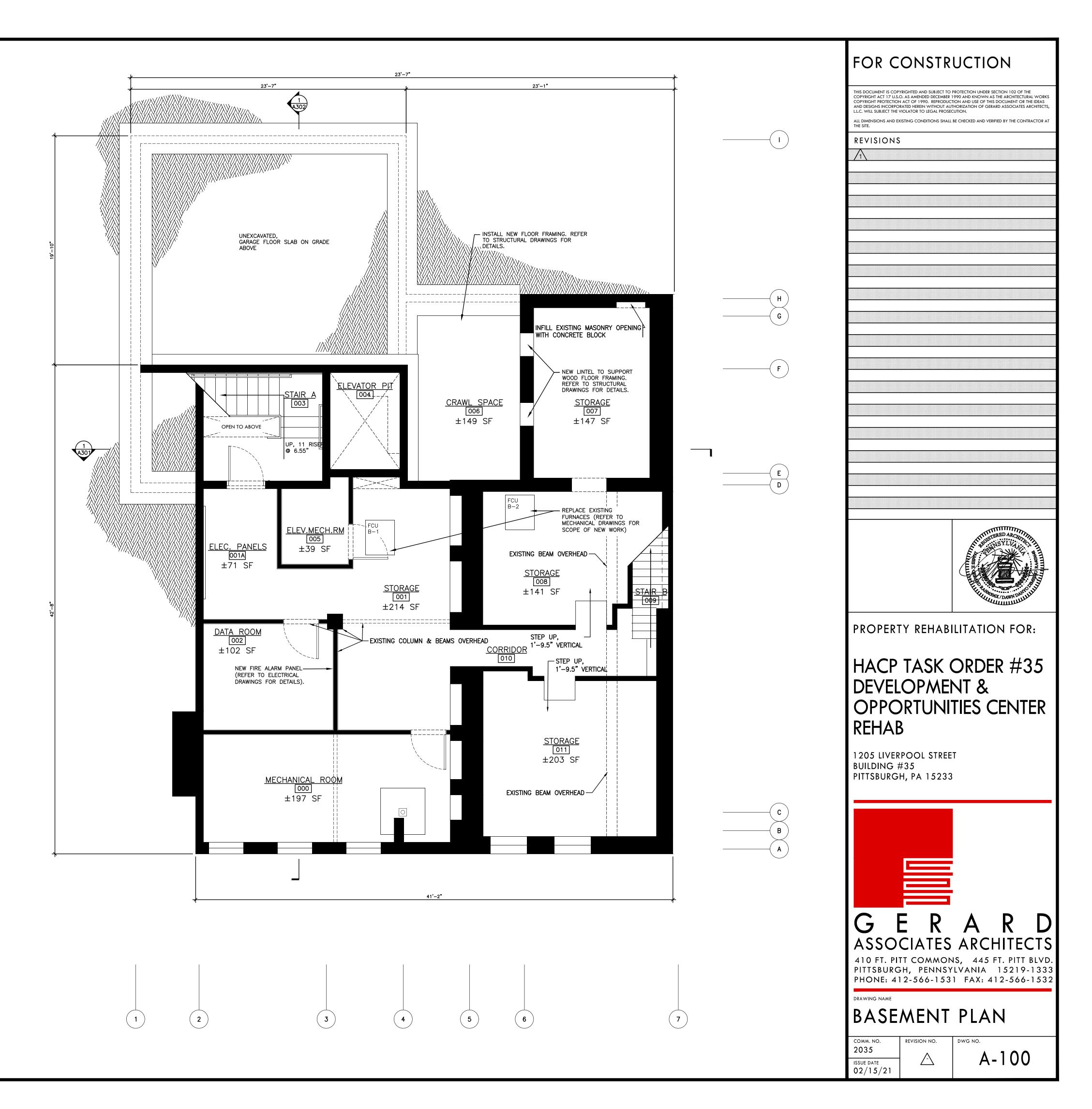


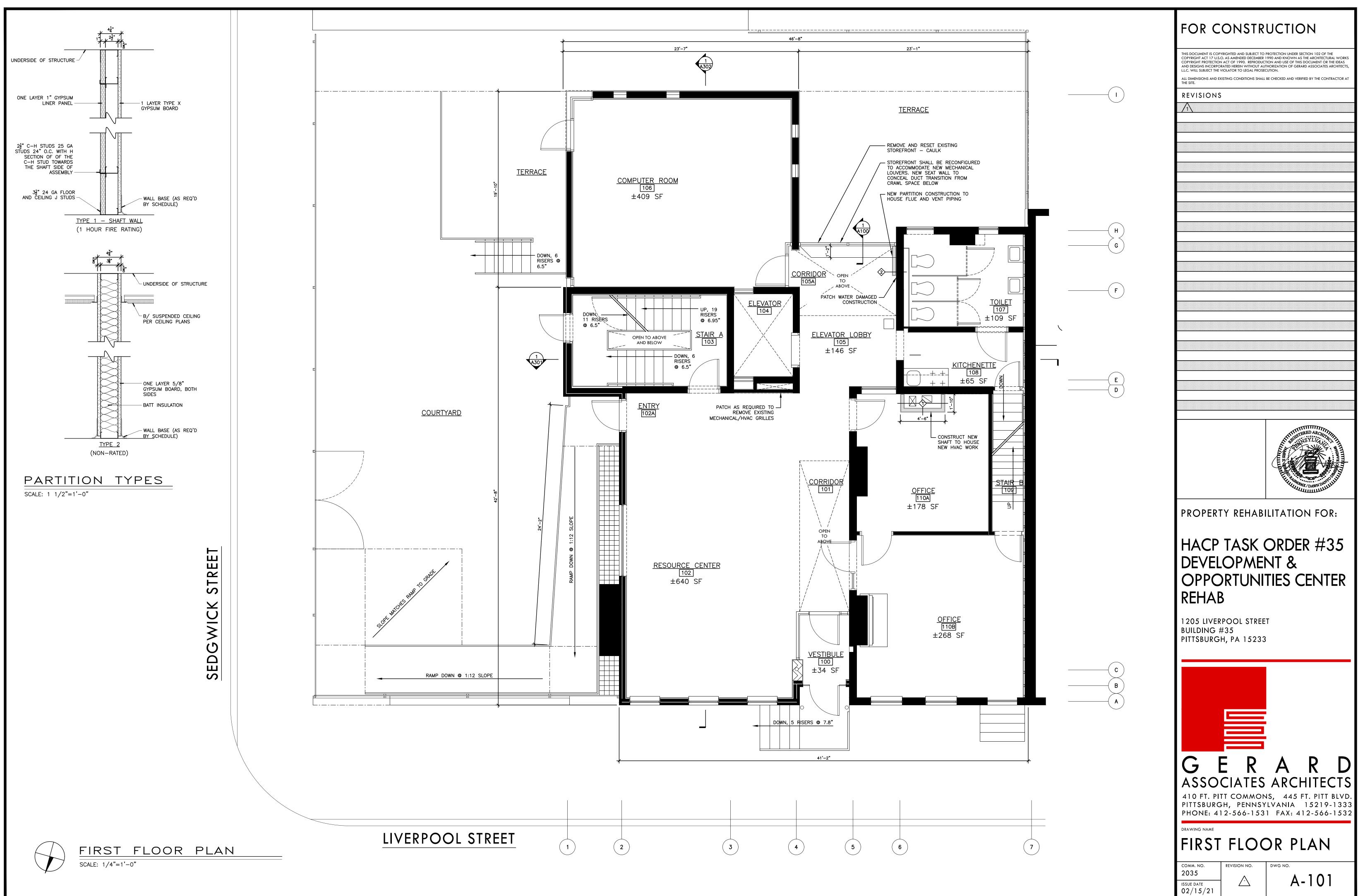


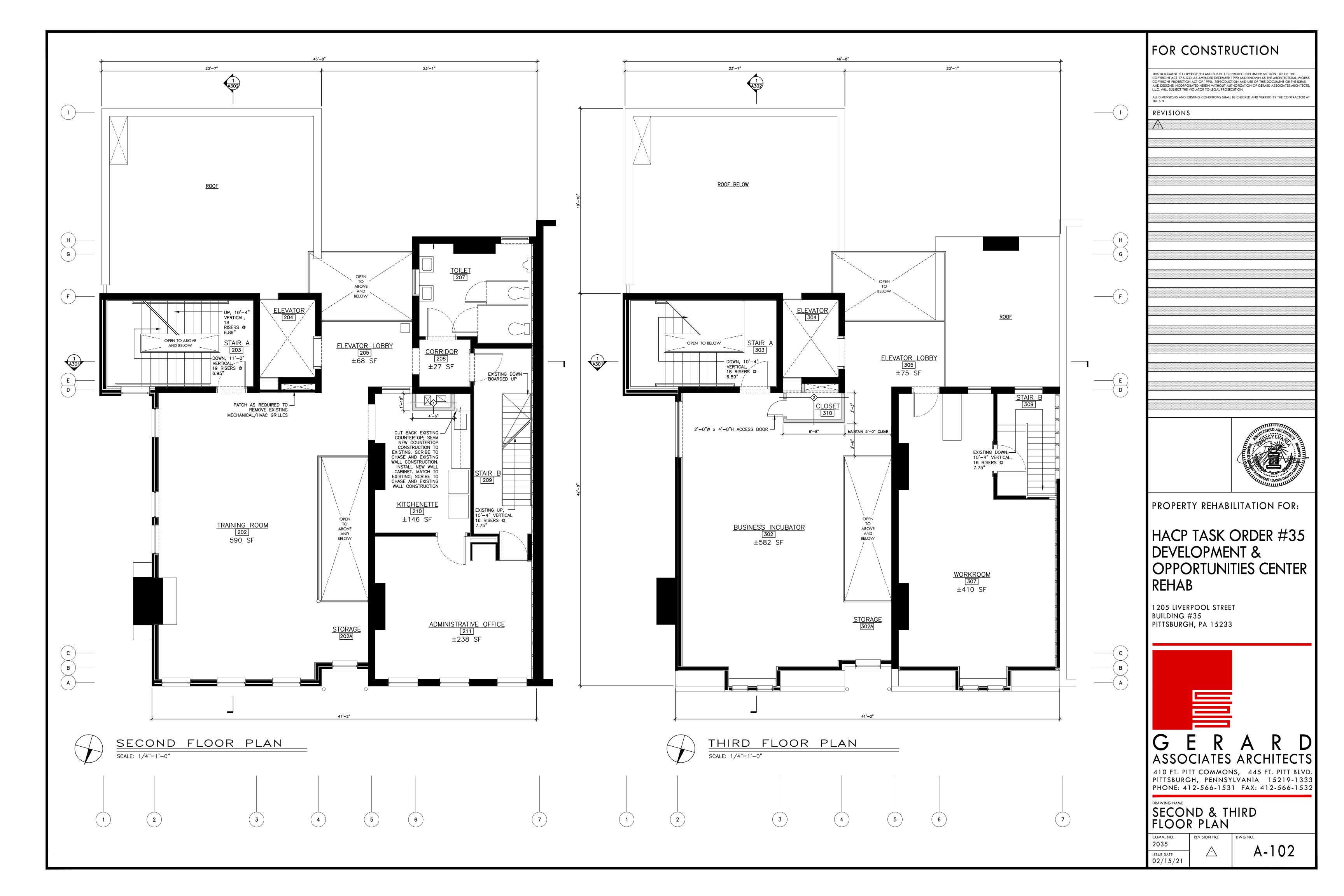
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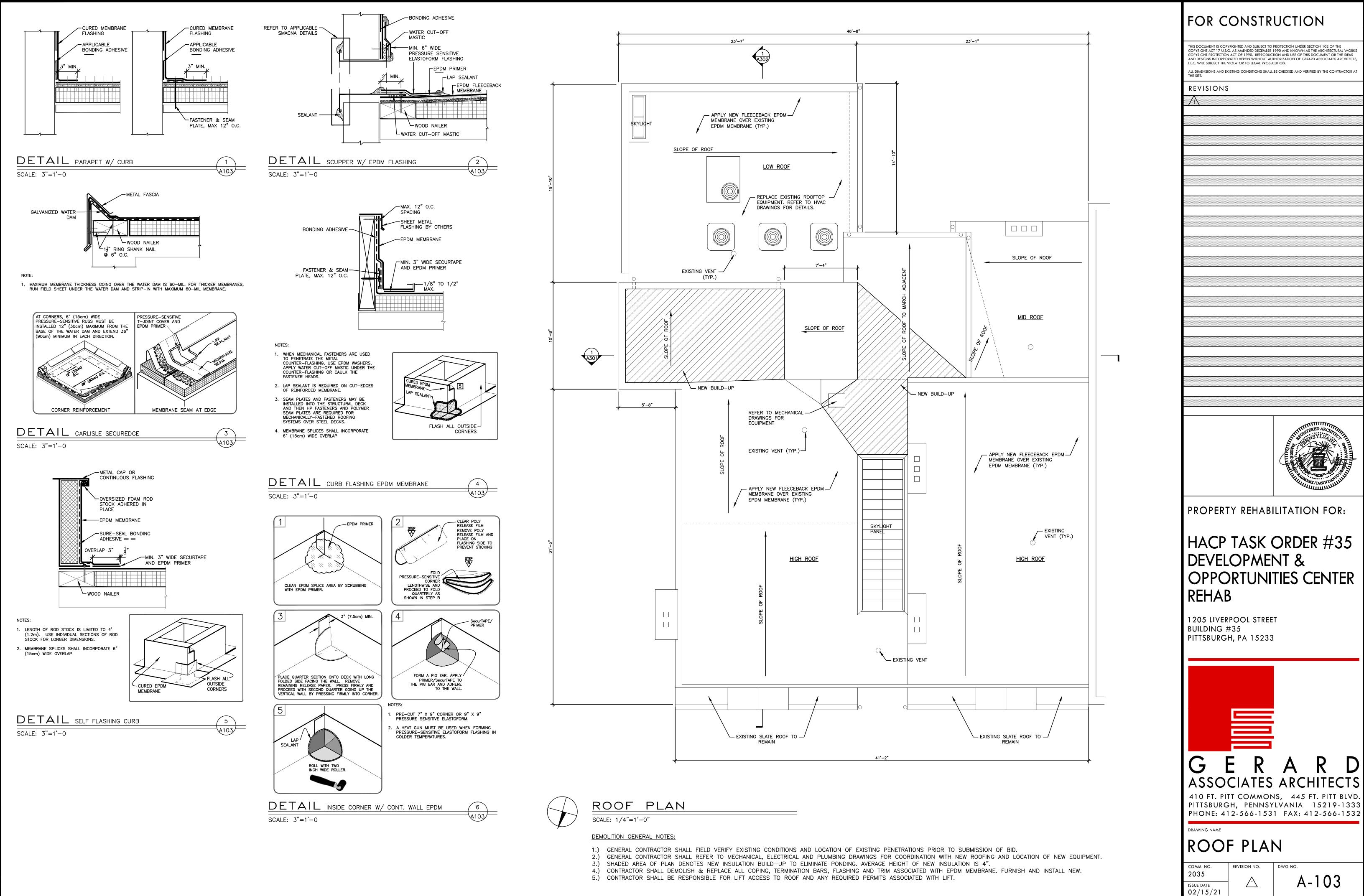












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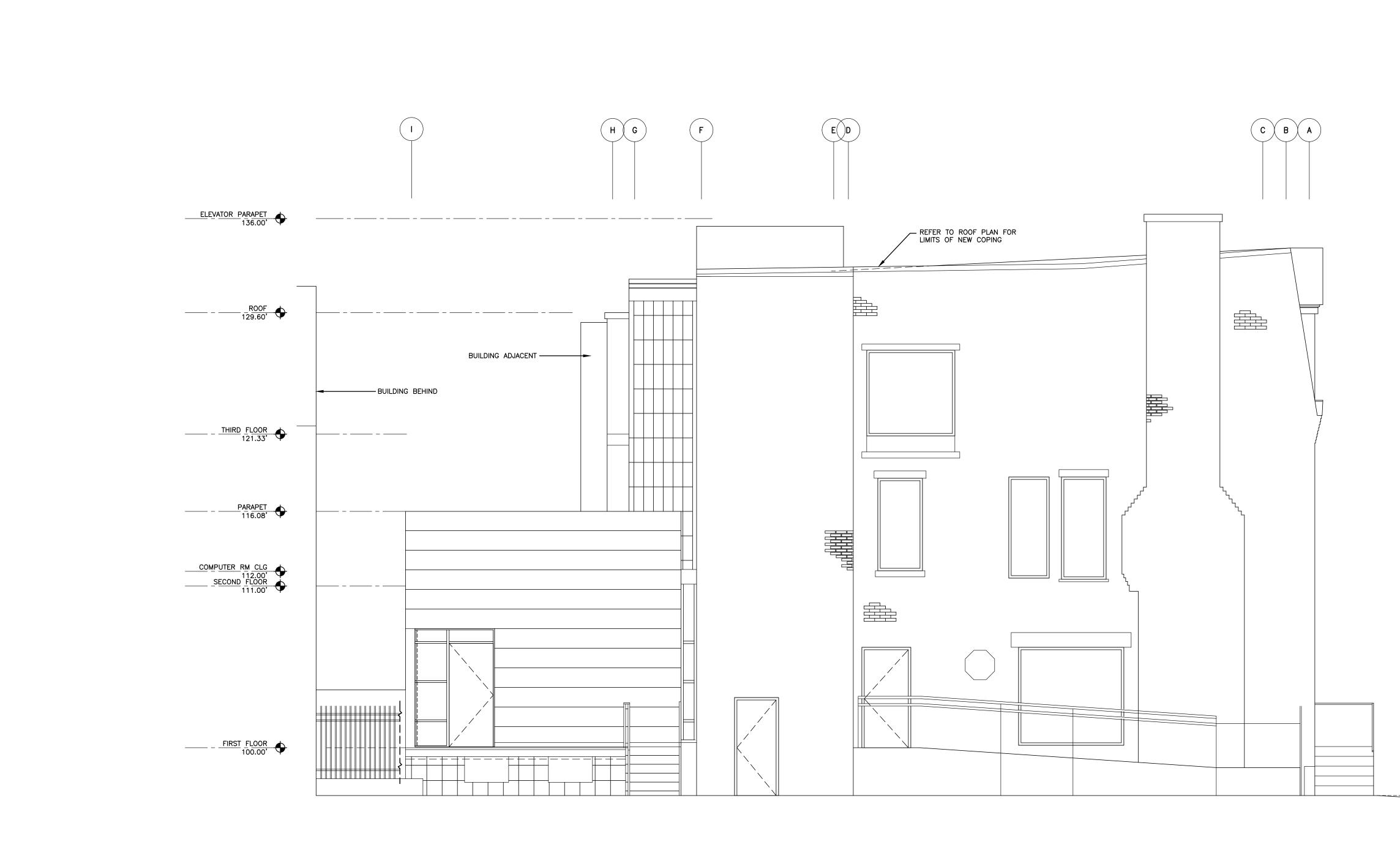
\_\_\_\_\_<u>SECOND\_FLOOR</u> 111.00'



COURTYARD SIDEWALK 96.75'

#### NORTH ELEVATION

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



#### EAST ELEVATION

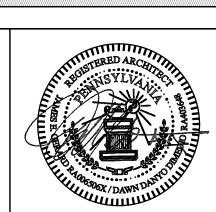
SCALE: 1/4"=1'-0"

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ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.

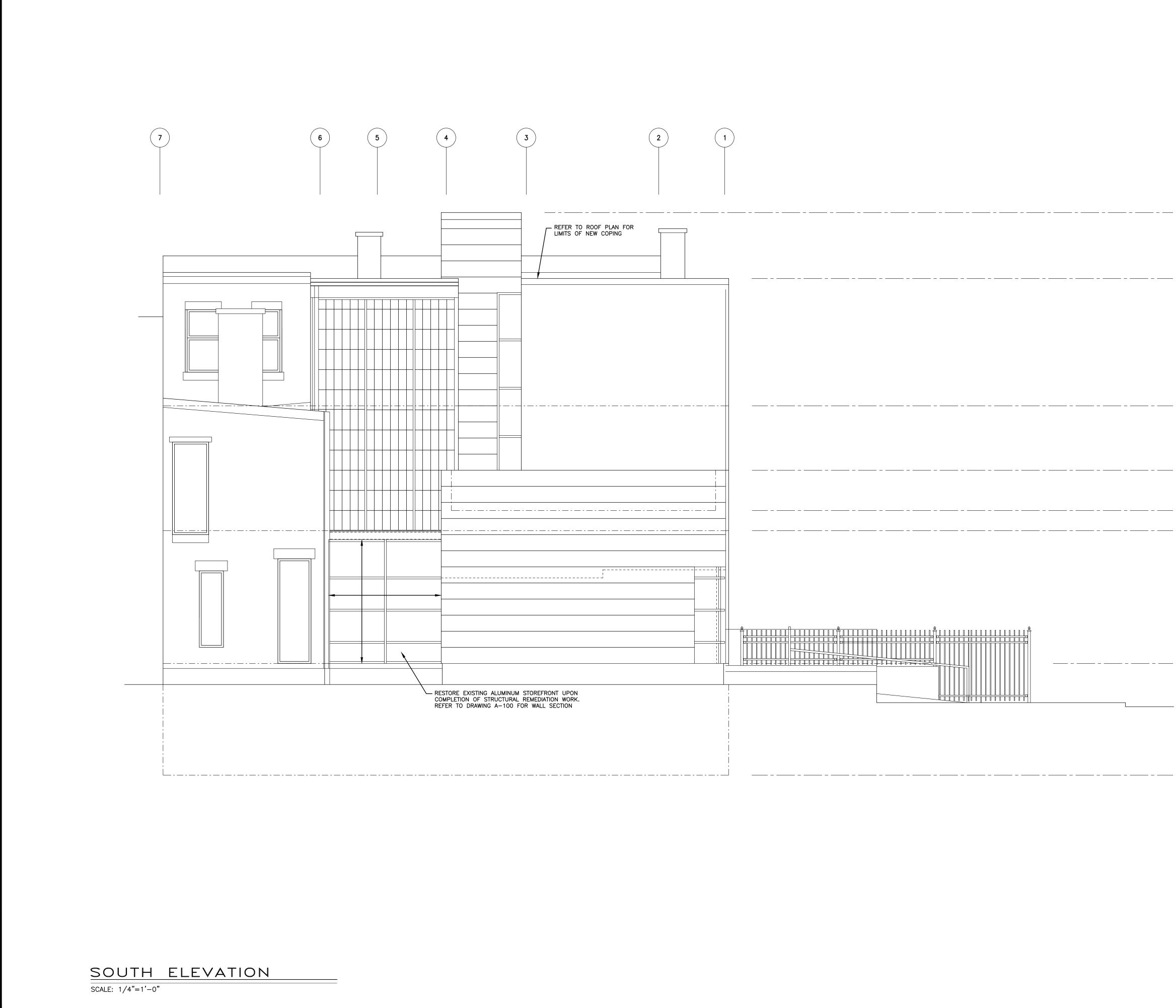


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB

1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233

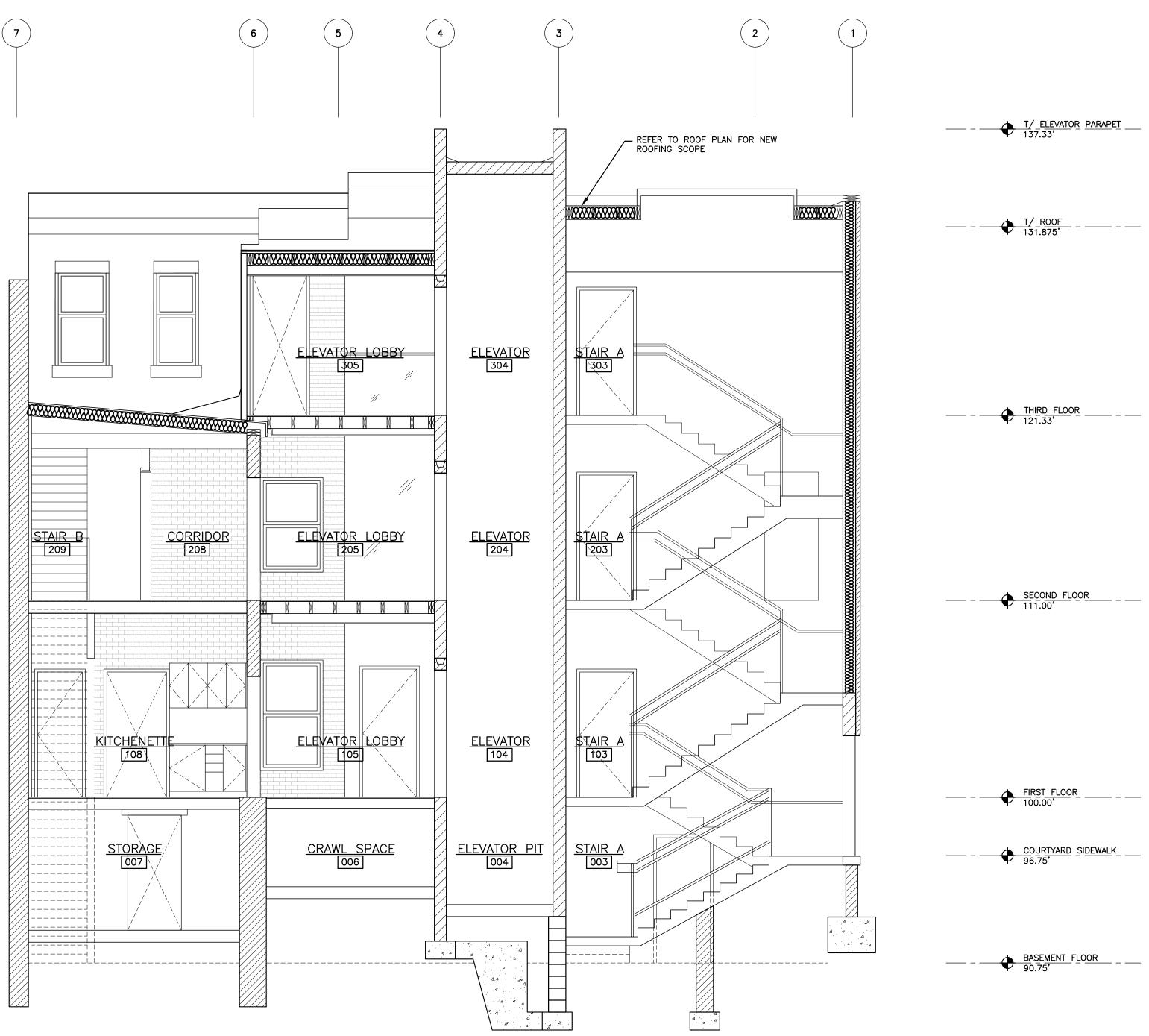




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REFER TO ROOF PLAN FOR LIMITS OF NEW COPING	
FRONT UPON ATION WORK. L SECTION	

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↓ <u>T/_ELEVATOR</u> <u>PARAPET</u> 137.33'	
• <u>THIRD_FLOOR</u>	
	THE DARCED ARCENTERED ARCENTER
	HER CONTONNION
	PROPERTY REHABILITATION FOR:
	HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB
COURTYARD SIDEWALK 96.75'	1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233
• BASEMENT FLOOR 90.75'	
	GERGARD ASSOCIATES ARCHITECTS 410 FT. PITT COMMONS, 445 FT. PITT BLVD. PITTSBURGH, PENNSYLVANIA 15219-1333 DHONE 412 544 1531 EAX 412 544 1532
	PHONE: 412-566-1531 FAX: 412-566-1532 DRAWING NAME SOUTH ELEVATION
	COMM. NO. 2035 ISSUE DATE ISSUE DATE

ISSUE DATE 02/15/21



#### BUILDING SECTIONS

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

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REVISIONS

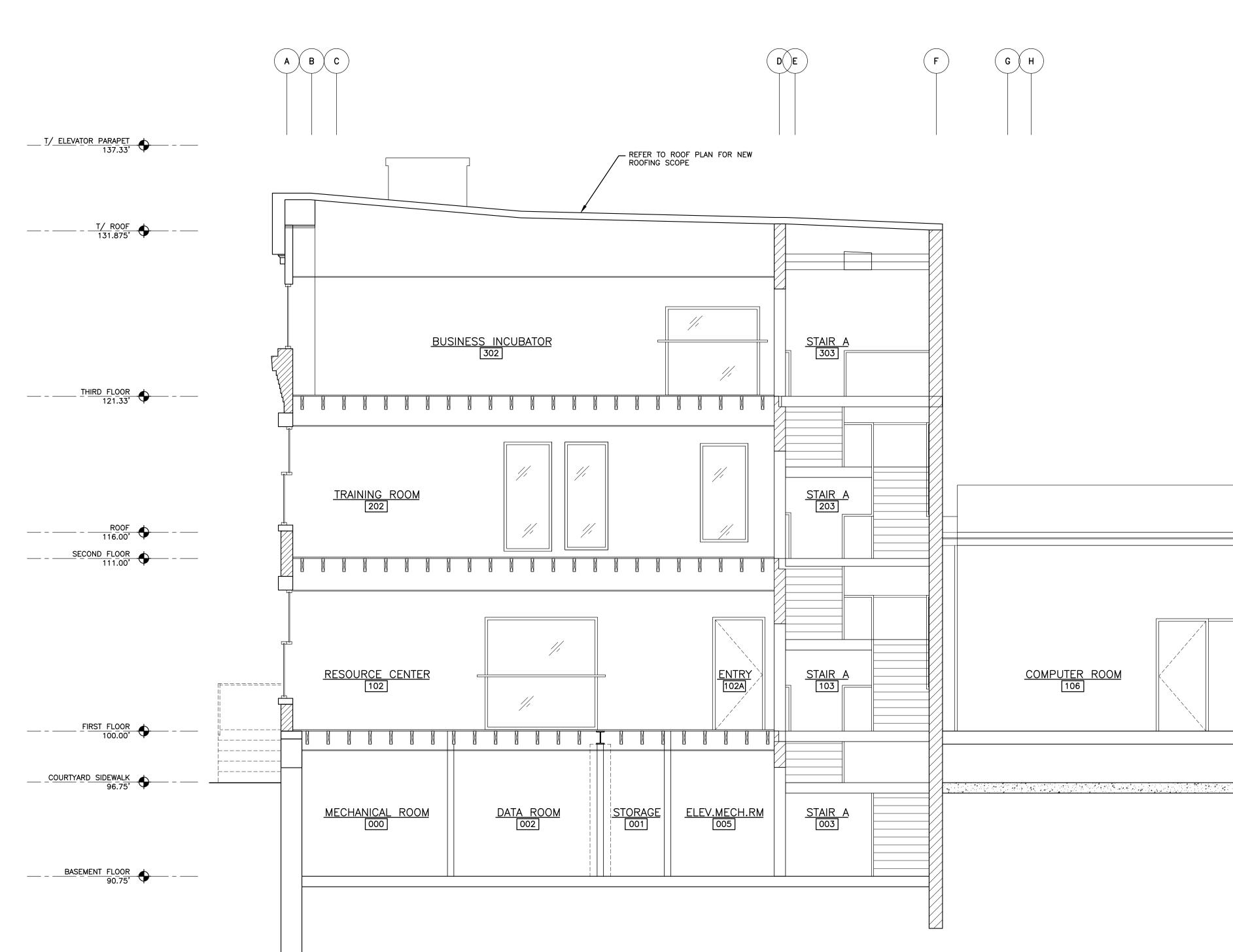
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PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER** REHAB

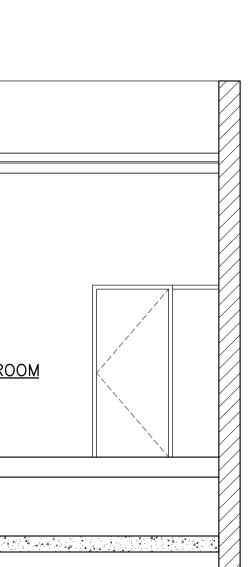
1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233





#### BUILDING SECTIONS

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

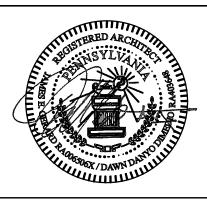


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REVISIONS



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER** REHAB

1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233

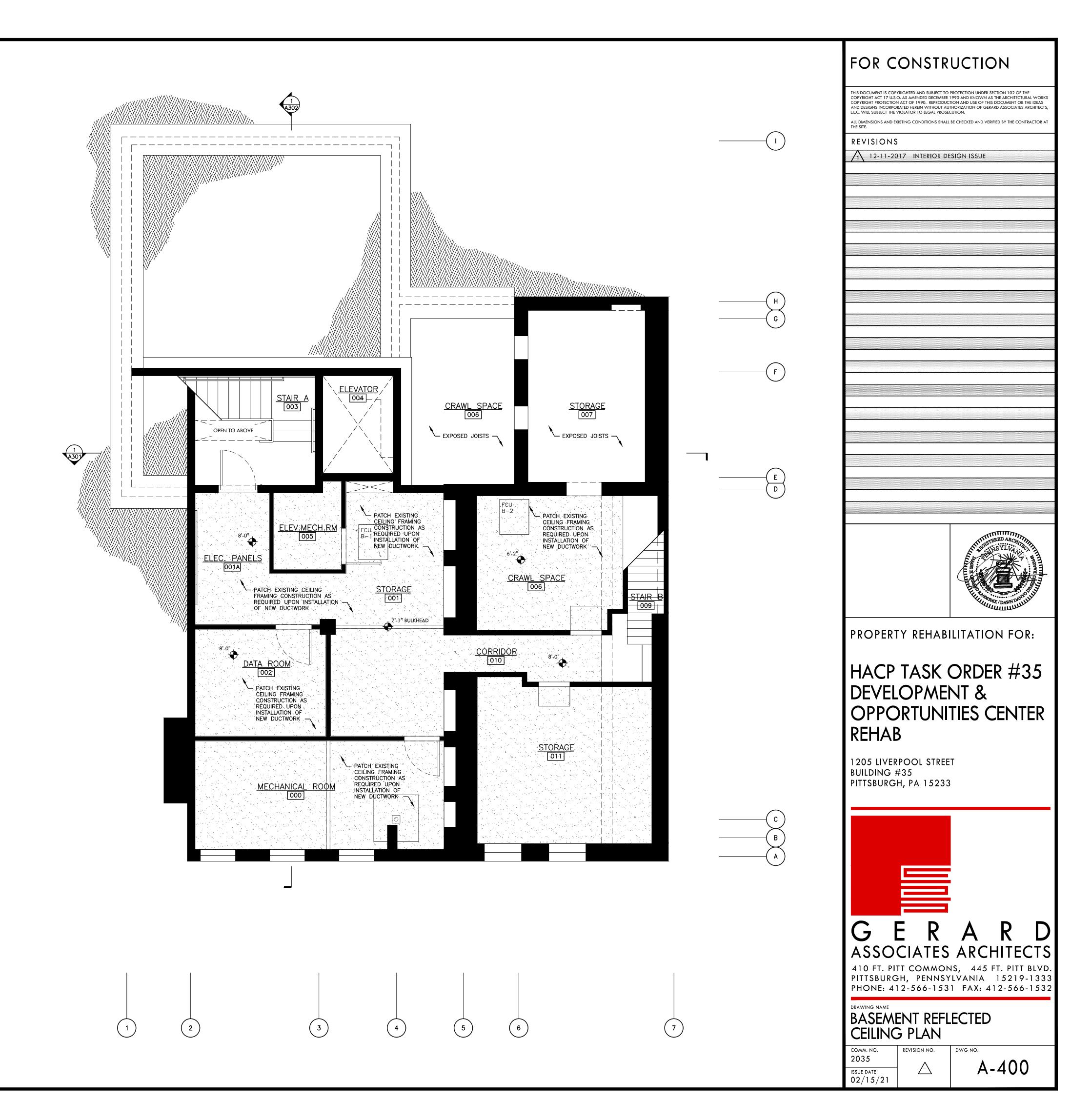


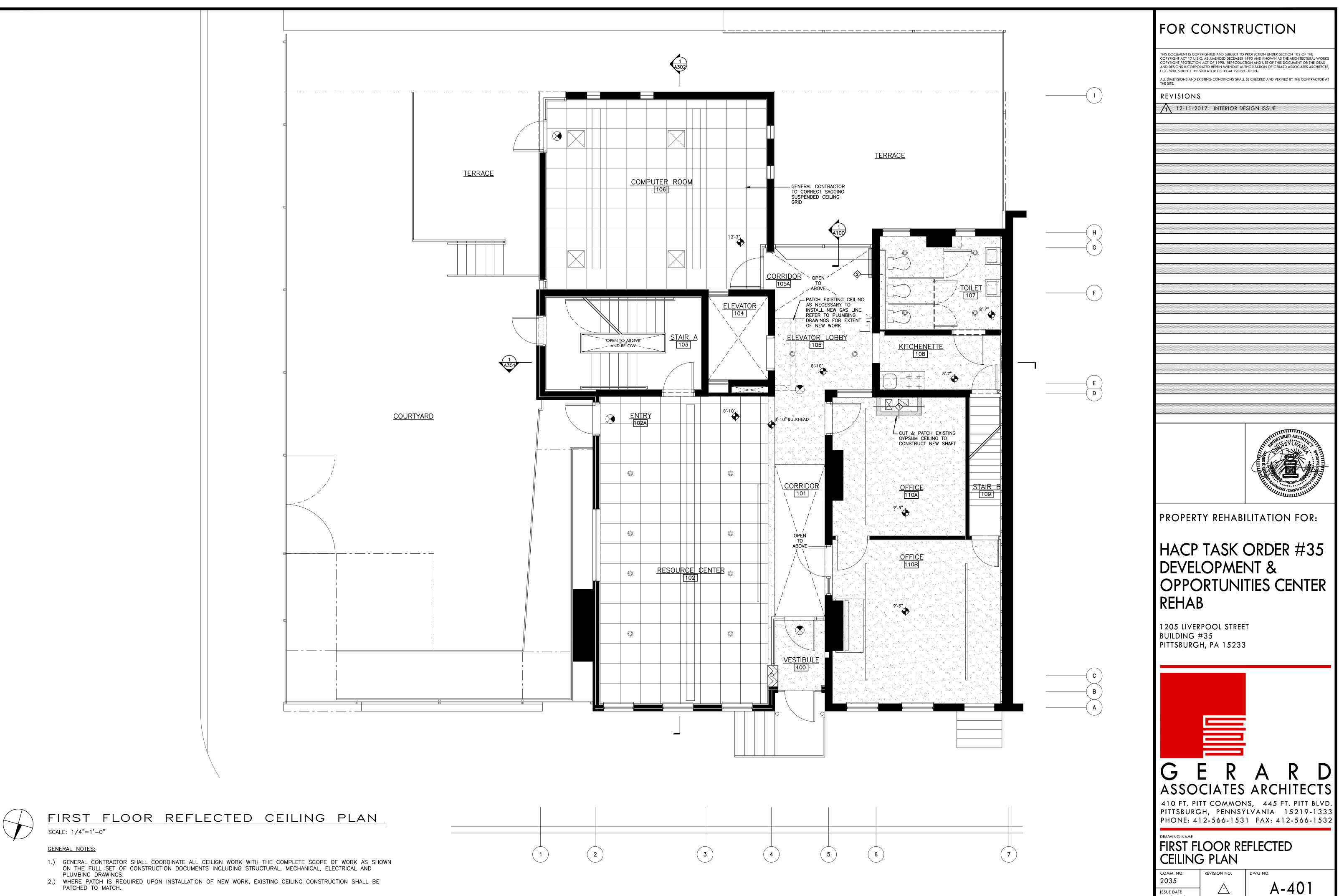


#### BASEMENT REFLECTED CEILING PLAN SCALE: 1/4"=1'-0"

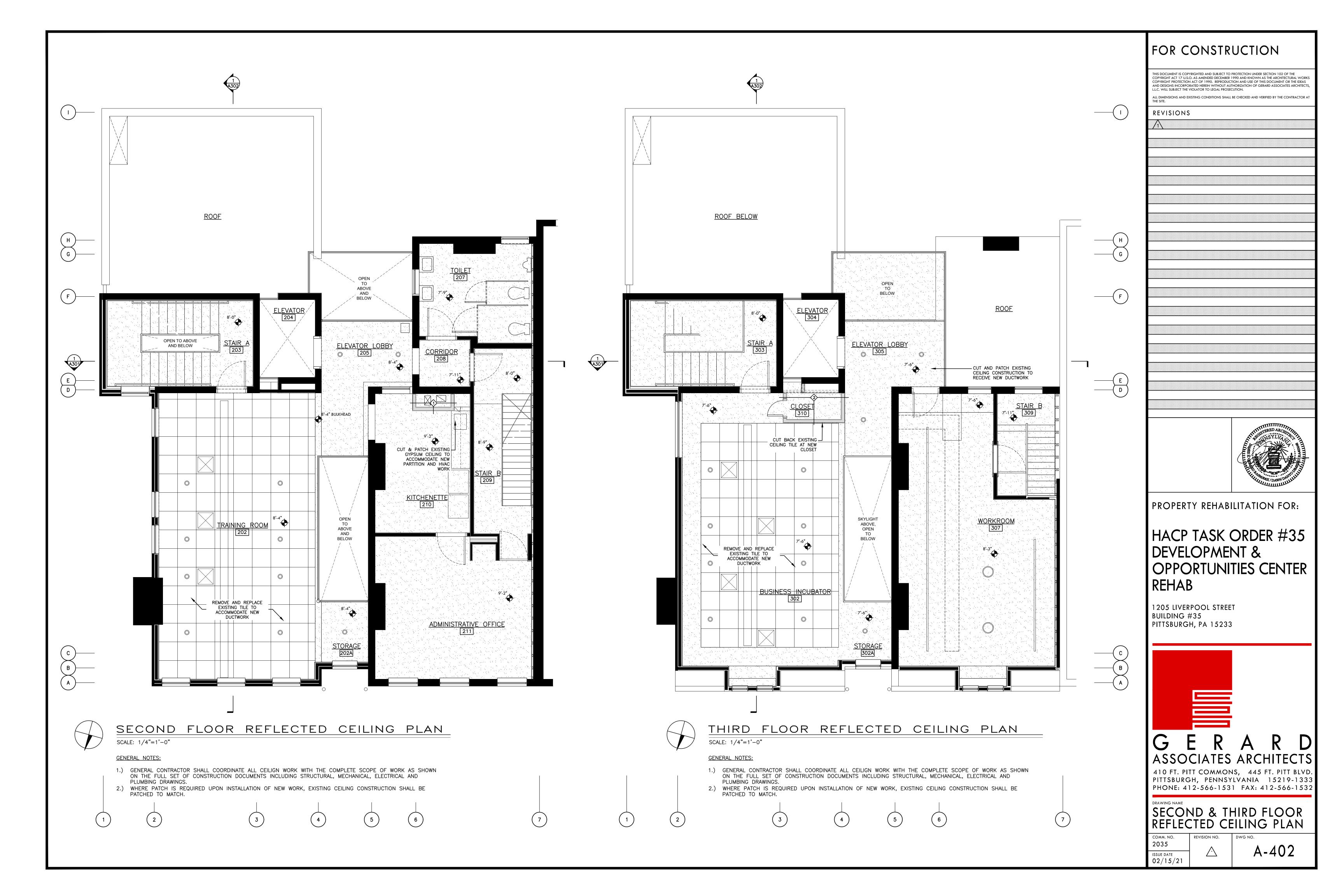
GENERAL NOTES:

- GENERAL CONTRACTOR SHALL COORDINATE ALL CEILIGN WORK WITH THE COMPLETE SCOPE OF WORK AS SHOWN ON THE FULL SET OF CONSTRUCTION DOCUMENTS INCLUDING STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 2.) WHERE PATCH IS REQUIRED UPON INSTALLATION OF NEW WORK, EXISTING CEILING CONSTRUCTION SHALL BE PATCHED TO MATCH.





02/15/21



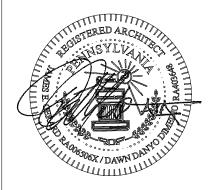
				FIN	ISH SCHEDULE		
	FLOOR	BASE	WALLS	CEILING	CEILING HEIGHT SILL	SPECIAL TRIM OR EQUIPMENT (NUMBER REQUIRED INDICATED)	REMARKS
ROOM NAME BASEMENT 000 MECHANICAL ROOM 001 STORAGE 001A ELECTRICAL PANELS 002 DATA ROOM 003 STAIR A	Image: Constraint of the second state of the second sta	F10       F11       F12       F12       F13       F14       F	i       w6       w7       w8       w9       w10       w11       w12       w14       w15       w16         i	Image: Construct of the structure         Image: Constructure         Image: Construct of the structure         Image: Constructure         Image: Constructure	Bit Interview       Image: Second Structure         Bit Interview       Bit Interview         Bit	SP3       SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP3       Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10       SP11         Image: SP4       SP5       SP6       SP7       SP8       SP9       SP10	WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES. WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
005ELEVATOR MACHINE ROOM006CRAWL SPACE007STORAGE	F3 F	B3     W3       B3     W1		C4 C4 C4	CH5 CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
007     STORAGE       009     STAIR B       010     CORRIDOR	F3           F3	B3     W3       B3     W3       B3     W3       W3     W3		C4	CH5         CH5           CH5         CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
FIRST FLOOR100VESTIBULE101CORRIDOR102RESOURCE CENTER102AENTRY103STAIR A105ELEVATOR LOBBY106ACORRIDOR106COMPUTER ROOM107TOILET108KITCHENETTE109STAIR B110AOFFICE110BOFFICE	F3       F3       F3         F3       F3       F3         F3       F3       F3         F3       F3       F3         F1       F1       F1         F1       F1       F1         F1       F3       F1         F1       F1       F1         F1       F1       F1	Image: Sector of the sector	Image: selection of the se	C4       C4	CH5       CH5       Image: CH5       I	Image: selection of the se	WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDPATCH,RECONSTRUCTIONSHALLMATCHADJOININGFINISHES.WHERENEWWORKREQUIRESPARTIALDEMOLITIONANDP
SECOND FLOOR 202 TRAINING ROOM	F1	B1 W1		C4	CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
202ASTORAGE203STAIR A205ELEVATOR LOBBY	F1     F3       F1     F1	B1     W1     W3       B3     W1     W3       B1     W1     W3		C4 C4 C4	CH5           CH5           CH5           CH5           CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
207TOILET208CORRIDOR209STAIR B	F3 F3 F1 F3	B3     W3       B1     W1		C4 C	CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
210     KITCHENETTE       211     ADMINISTRATIVE OFFICE	F1 F1	B1       B3       W1       W3         B1       B1       W1       W1		C4 C4	CH5 CH5		WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.
THIRD FLOOR         302       BUSINESS INCUBATOR         302A       STORAGE         303       STAIR A         305       ELEVATOR LOBBY         307       WORKROOM         309       STAIR B         310       CLOSET	F1       F3       F1         F1       F3       F3         F1       F3       F1         F3       F1       F1       F1         F1	B1       W1       W1       W1         B1       B3       W1       W3         B1       B3       W1       W3         B1       B3       W1       W3         B1       B3       W1       W3         B1       B1       W1       W1         B1       B1       W1       W1         W1       B1       W1       W1         W1       B1       W1       W1         W1       B1       W1       W1         W3       W1       W3         W1       B1       W1       W1         W1       B1       W1       W1         W1       B1       W1       W1         W3       W1       W1       W1         W1       W1		C4     C4       C1     C4       C1     C4	CH5       CH5       CH5         CH1       CH5       CH5         CH5       CH5       C	Image: state stat	WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         WHERE NEW WORK REQUIRES PARTIAL DEMOLITION AND PATCH, RECONSTRUCTION SHALL MATCH ADJOINING FINISHES.         COORDINATE CONSTRUCTION OF ROOM WITH NEW HVAC WORK.

# FOR CONSTRUCTION

THIS DOCUMENT IS COPYRIGHTED AND SUBJECT TO PROTECTION UNDER SECTION 102 OF THE COPYRIGHT ACT 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. REPRODUCTION AND USE OF THIS DOCUMENT OR THE IDEAS AND DESIGNS INCORPORATED HEREIN WITHOUT AUTHORIZATION OF GERARD ASSOCIATES ARCHITECTS, L.L.C. WILL SUBJECT THE VIOLATOR TO LEGAL PROSECUTION. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.

REVISIONS

/1



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER REHAB

1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233



#### GENERAL NOTES

#### 1.0 <u>GENERAL</u>

- 1.1 The structural drawings shall govern the work for structural features, unless otherwise noted. Discrepancies between the architectural and structural drawings shall be reported to the architect and engineer for review and clarification before proceeding with related work.
- 1.2 In case of conflict between the General Notes, Specifications, and Drawings regarding structural issues, the Contractor shall submit an RFI for clarification.
- 1.3 Work not indicated on a part of the drawings, but reasonably implied to be similar to that shown at corresponding places, shall be repeated.
- 1.4 The contractor is responsible for means and methods of construction and construction procedures, fabrication processes, coordination of work with other trades and job site safety.
- 1.5 Existing building information shown is as indicated on existing building drawings] [and] [from field observation. Information shown may not necessarily reflect actual conditions. The Contractor shall field verify existing building information shown (dimensions, elevations, etc.) and notify the Architect of any discrepancies prior to fabrication of any structural component.
- 1.6 The structure has been designed for its final/in use condition. Temporary bracing, sheeting, shoring, etc., required to ensure the structural integrity/stability of the structure, adjacent existing structures, sidewalks, utilities, etc., during construction is the Contractor's responsibility and shall be designed by a Registered Professional Engineer employed by the Contractor. Contractor shall be required to demolish owner furnished scaffolding and install temporary shoring upon award of contract.
- 1.7 Information contained on the hard copy of this drawing retained by Keystone Structural Solutions controls over variances or changes that might be introduced due to plotting by others via electronic document transfer.
- 1.8 The distribution and/or use of the electronic files of the structural drawings is strictly prohibited unless written authorization is provided by Keystone Structural Solutions.
- 1.9 The structural construction documents are instruments of professional services and shall remain the property of KSS. The documents are not intended or represented to be suitable for reuse by the Client or others on extensions of this project or on any other project.

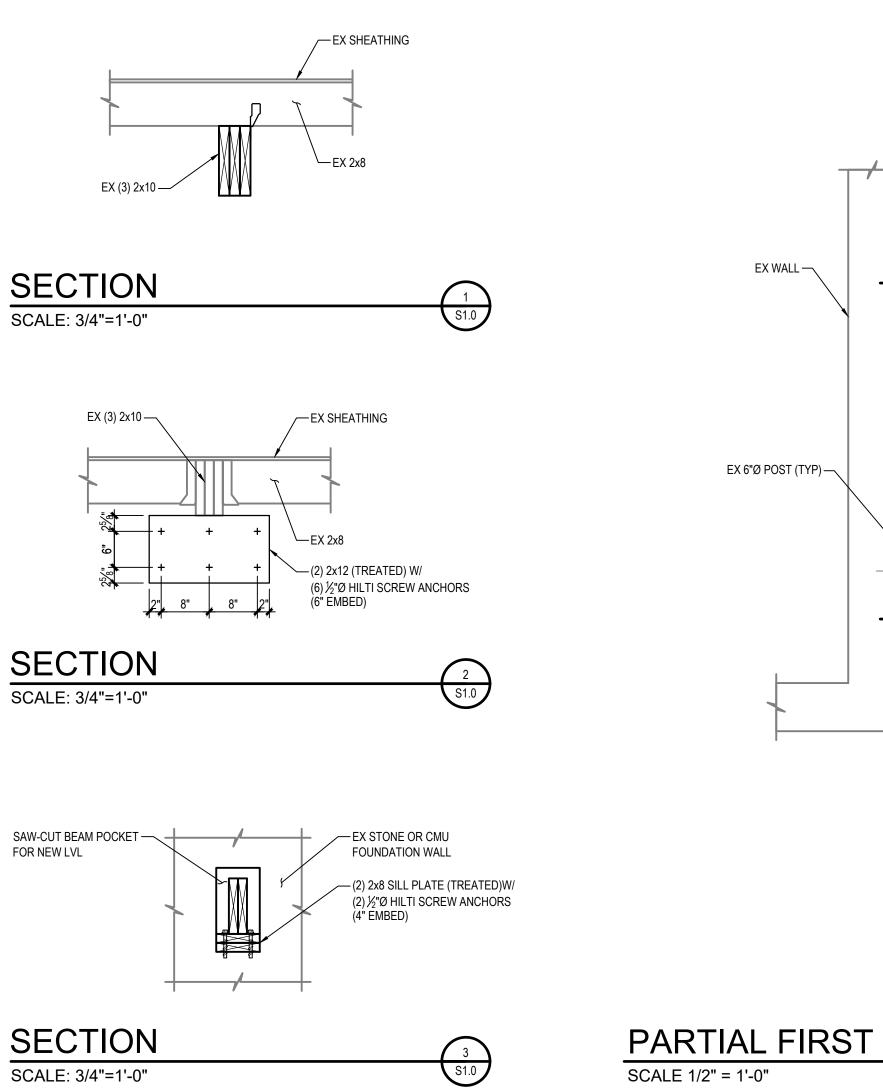
#### 2.0 DESIGN CRITERIA

- 2.1 Design Codes:
  - a. IBC 2015
  - b. ANSI/ASCE-7 2010 c. PA Uniform Construction Code (UCC)
- 2.2 Live Loads:
- a. Common Area

100 psf

#### 3.0 STRUCTURAL WOOD

- 3.1 Design, fabrication and construction of wood framing shall conform with:
  - a. "Timber Construction Manual", latest edition, as adopted by the American Institute of Timber Construction (AITC), including the "Code of Standard Practice", AITC 106.
  - b. "National Design Specifications for Wood Construction" (NDS), latest edition.
  - c. Design Specifications for Metal Plate Connected Wood Trusses" (TPI-85), and for "Parallel Chord Wood Trusses" (PCT-80).
  - d. Commentary & Recommendations for Handling, Installing and Bracing Metal Plate Connected Wood Trusses" (TPI/HIB-91).
- 3.2 Sawn lumber shall be Spruce-Pine-Fir (SPF) No.1/No.2 or better, graded in accordance with the NFPA National Design Specification with the following base design values: a. Fb=875 psi (bending – single member use)
  - b. Fv=135 psi (horizontal shear)
  - c. Fc=1150 psi (compression parallel to grain)
  - d. E=1,400,000 psi (modulus of elasticity)
- 3.3 Parallel Strand Lumber (PSL) shall be as manufactured by iLevel (Parallam) or equal with the following base design values: a. Fb=2900 psi (bending)
  - b. Fv=290 psi (horizontal shear)
  - c. Fc=2900 psi (compression parallel to grain)
  - d. E=2,000,000 psi (modulus of elasticity)
- 3.4 If alternate manufactured products are used, the contractor is responsible for confirming that those products design properties are equal to or greater than those specified.
- 3.5 Plywood or OSB sheathing shall be in conformance with American Plywood Association (APA) specifications. Panels should be installed with a 1/8" spacing at all panel end and edge joints. Floor sheathing to be glued and nailed.
- 3.6 Wood sills, sleepers, blocking, furring, stripping and similar concealed members in contact with masonry or concrete shall be preservative treated by pressure process in accordance with AWPA UC2.



# PARTIAL FIRST FLOOR FRAMING PLAN

2 S1.0

10'-6"±

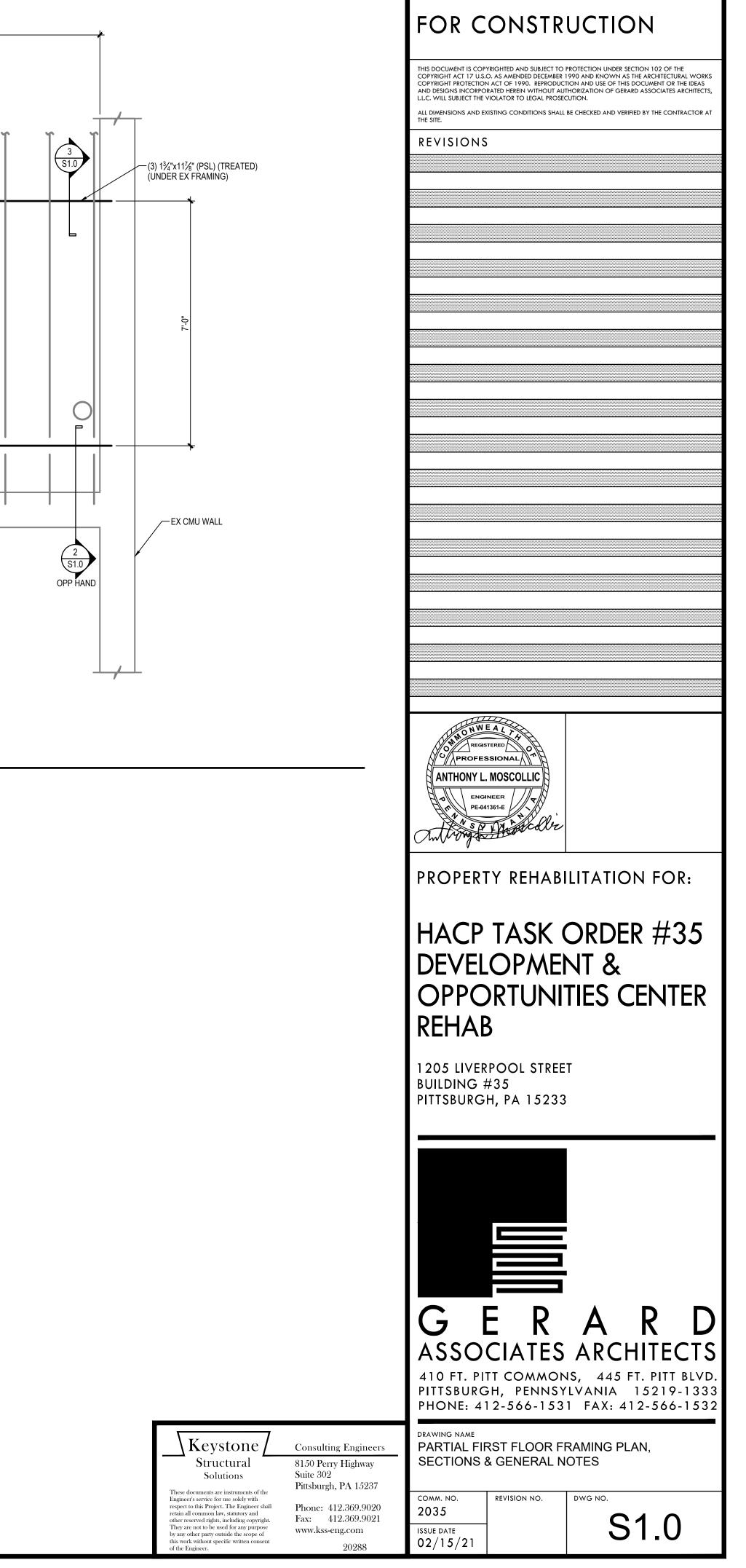
1 S1.0

-CUT BACK RAFTER TO

DUCTWORK FROM CRAWL SPACE BELOW

EX (3) 2x10 TO RECEIVE

NOTES:



GENERAL MECHANICAL NOTES (ALL DRAWINGS):

- 1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND REQUIRED BY CODE.
- 2. THE CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC ONLY, AND ARE INTENDED TO CONVEY THE SCOPE AND GENERAL ARRANGEMENT OF WORK.
- 3. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR BY FIELD INSPECTION PRIOR TO BIDDING. ANY INTERFERENCES TO INSTALLATION SHALL BE NOTED AND THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE THE COST TO AVOID OR RELOCATE ALL ITEMS, INCLUDING ITEMS OF OTHER TRADES, THAT INTERFERE. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. ALL OFFSETS, RISES, TRANSITIONS AND DROPS IN DUCTS AND PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 4. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS OR PIPE ADAPTERS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
- 5. PROVIDE ACCESS IN WALLS & CEILINGS TO ACCESS ALL EQUIPMENT, VALVES, CONTROL DEVICES, VOLUME DAMPERS, AND FIRE/SMOKE DAMPERS.
- 6. FOLLOW MANUFACTURE'S RECOMMENDATIONS FOR INSTALLATION OF EQUIPMENT. ALSO REFER TO TYPICAL DETAILS FOR INSTALLATION OF EQUIPMENT.
- 7. ALL MATERIALS FURNISHED, AND ALL WORK PERFORMED BY THE MECHANICAL CONTRACTOR SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE LATEST APPLICABLE EDITIONS OF NFPA, IEEE, OSHA, SMACNA, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, AND ANY STATE, COUNTY, AND LOCAL CODES.
- 8. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED SUFFICIENTLY AND ANY ADDITIONAL SUPPORT SHALL BE PROVIDED AS REQUIRED TO PROVIDE VIBRATION FREE AND SAFE INSTALLATION. ALL MISCELLANEOUS STEEL REQUIRED AND/OR AS SHOWN IN DETAILS FOR DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. SUPPORT ALL DUCTWORK, PIPING AND EQUIPMENT MOUNTED ABOVE THE CEILING DIRECTLY FROM THE STRUCTURE. ALL ATTACHMENTS TO BEAMS, TRUSSES, OR JOIST SHALL BE MADE AT PANEL POINTS WITH BEAM CLAMPS MEETING MSS STANDARDS.
- 9. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND ELECTRICAL SPECIFICATIONS FOR THIS PROJECT.

DUCTWORK GENERAL NOTES (ALL DRAWINGS):

- 1. ALL DUCTWORK INDICATED IS SCHEMATIC AND SHOW ONLY RELATIVE POSITIONS. PROVIDE OFFSETS, RISES, TRANSITIONS AND ELBOWS AS NEEDED TO INSTALL PROPERLY.
- 2. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL HVAC DEVICES, FANS, DAMPERS, (FIRE, SMOKE, BALANCING) COILS, AND TERMINAL EQUIPMENT.
- 3. LOCATIONS OF TERMINAL DEVICES, AIR OUTLETS AND INLETS ARE APPROXIMATE. LOCATE PER THE ARCHITECTURAL DRAWINGS AND TO AVOID OTHER TRADE'S WORK. COORDINATE LOCATIONS WITH OTHER TRADES. CONSULT ARCHITECT/ENGINEER FOR CLARIFICATION IF CONFLICTS OCCUR.
- 4. DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE FACE-TO-FACE DIMENSIONS AND DO NOT INCLUDE DUCT LINER WHERE SPECIFIED. INCREASE DIMENSIONS OF LINED DUCTWORK TO PROVIDE FREE INSIDE AREA EQUAL DIMENSIONS SHOWN. REFER TO THE SPECIFICATIONS FOR LOCATION OF LINED DUCTWORK.
- 5. FINAL CONNECTIONS FROM HIGH VELOCITY MAIN DUCTS TO AIR TERMINAL UNITS SHALL BE MADE WITH FLEXIBLE DUCTWORK NOT EXCEEDING 3 FEET IN LENGTH. CONNECTIONS BETWEEN LOW VELOCITY DUCTWORK AND/OR TERMINAL UNITS TO AIR INLETS AND OUTLETS SHALL BE MADE WITH FLEXIBLE DUCTWORK NOT EXCEEDING 6 FEET IN LENGTH. LONGER DUCT RUN OUTS SHALL BE CONSTRUCTED OF HARD DUCT OF THE SAME MATERIAL SPECIFIED FOR THE SYSTEM SERVED AND INSULATED AS SPECIFIED FOR THAT SYSTEM. FLEXIBLE DUCTWORK SHALL BE OF THE PRESSURE CLASS AND FACTORY INSULATED AS SPECIFIED FOR THE SYSTEM WHERE INSTALLED.
- 6. FLEXIBLE DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WITHOUT ANY SAGS, SHARP TURNS OR KINKS. AT THE MINIMUM, THE FLEXIBLE DUCTWORK SHALL BE FASTENED TO THE HARD DUCT BY A NYLON STRAP SECURED BY SHEETMETAL SCREWS TO PREVENT SLIPPING OFF FROM COLLAR.
- 7. PROVIDE VOLUME DAMPERS AT EACH AIR OUTLET, AIR INLET AND TERMINAL DEVICE AND AT EACH BRANCH TAKE-OFF CONNECTION FROM THE MAIN.

MECHANICAL PIPING GENERAL NOTES (ALL DRAWINGS):

- 1. ALL PIPING SHOWN HAS BEEN DRAWN SCHEMATICALLY FOR CLARITY AND SHOW ONLY RELATIVE POSITIONS. PROVIDE OFFSETS AND ELBOWS AS NEEDED TO INSTALL PROPERLY AND TO AVOID INTERFERENCES.
- 2. ALL NEW OR REPLACED HYDRONIC PIPING SHALL BE INSTALLED SO THAT IT CAN BE COMPLETELY VENTED AT HIGH POINTS AND DRAINED AT LOW POINTS. PROVIDE AIR VENTS AT HIGH POINTS, TYPE PER SPECIFICATIONS. PROVIDE 1/2" BALL VALVES WITH HOSE END CONNECTIONS AND CAPS AT LOW POINT. ALL WATER MAINS SHALL BE INSTALLED LEVEL, UNLESS OTHERWISE NOTES.
- 3. PROVIDE SERVICE VALVES AT EACH BRANCH CONNECTION FROM MAINS AND AT EACH TERMINAL DEVICE OR EQUIPMENT CONNECTION.
- 4. CONTRACTOR SHALL PROVIDE NEW VALVES ON EXISTING PIPING WHERE THE PIPES ARE TO BE REMOVED SO THAT THE SYSTEM DOES NOT HAVE TO BE DRAINED WHILE REMOVING EXISTING UNITS, INSTALLING NEW UNITS AND MAKING CONNECTIONS TO NEW EQUIPMENT.



SYMBOL	· ·	CTWORK & GENERAL SYMBOLS LEGEND		1	NICAL PIPING SYMBOLS LEGEND
<u>}</u>	ABRV. XTR	DESCRIPTION EXISTING EQUIPMENT OR DUCTWORK TO REMAIN	SYMBOL	ABRV. HWS	DESCRIPTION HEATING WATER SUPPLY PIPING
<u> </u>	RX	EXISTING EQUIPMENT OR DUCTWORK TO BE REMOVED	— — HWR— —	HWR	HEATING WATER RETURN PIPING
<u>↓                                     </u>		NEW EQUIPMENT OR DUCTWORK	Cws	cws	CONDENSER WATER SUPPLY PIPING
└───┤ └───┤		LINED DUCTWORK	——————————————————————————————————————	CWR	CONDENSER WATER RETURN PIPING
		SUPPLY DUCT UP	— CHWS —	CHWS	CHILLED WATER SUPPLY PIPING
				CHWR	CHILLED WATER RETURN PIPING
		RETURN / EXHAUST DUCT UP	G	G	NATURAL GAS PIPING
		RETURN / EXHAUST DUCT DOWN	D	D	CONDENSATE DRAIN PIPING
		ROUND DUCT ELBOW UP	—— R — —	R	REFRIGERANT PIPING
		ROUND DUCT ELBOW DOWN	LPS	LPS	LOW PRESSURE STEAM SUPPLY PIPING (0-15 PSIG)
		ELBOW WITH TURNING VANES	MPS	MPS	MEDIUM PRESSURE STEAM SUPPLY PIPING (16-60 PSIG)
		DUCT OFFSET UP	HPS	HPS	HIGH PRESSURE STEAM SUPPLY PIPING (61 TO 200 PSIC
		DUCT OFFSET DOWN	— — LPR — —	LPR	LOW PRESSURE STEAM CONDENSATE RETURN
		SQUARE / RECTANGULAR DUCT TRANSITION	— — MPR — —	MPR	MEDIUM PRESSURE STEAM CONDENSATE RETURN
		SQUARE/RECTANGULAR TO ROUND DUCT TRANSITION	— — HPR — —	HPR	HIGH PRESSURE STEAM CONDENSATE RETURN
$\boxtimes$	CD	CEILING DIFFUSER ROUND NECK - # THROW DIRECTIONS	PC	PC	PUMPED STEAM CONDENSATE
$\square$	SD	SUPPLY DIFFUSER - RECTANGULAR - MULTI-DIRECT.	v	v	VENT PIPING
 ┨ ┨	SG/EG	SIDEWALL SUPPLY or RETURN GRILLE - (R = REGISTER)	CW	CW	CITY (DOMESTIC) WATER
	LD	LINEAR DIFFUSER. SEE SCHEDULE FOR INFORMATION.	FOS	FOS	FUEL OIL SUPPLY PIPING
	RG/EG	RETURN or EXHAUST GRILLE - (R = REGISTER)	FOR	FOR	FUEL OIL RETURN PIPING
 		FLEXIBLE DUCT	0		ELBOW TURNED UP
	FLEX	FLEXIBLE DUCT CONNECTION (TO EQUIPMENT)			ELBOW TURNED DOWN
 		SPIN TAP WITH VOLUME CONTROL DAMPER			BOTTOM PIPE CONNECTION
╘╴╴╴	VD	VOLUME CONTROL DAMPER	۱ ۱ ۱		TOP PIPE CONNECTION
	BDD	BACKDRAFT DAMPER			PIPING CAP
	MD	MOTORIZED DAMPER			UNION
	FD	VERTICAL FIRE DAMPER (WALL)			FLANGED CONNECTION
	HFD	HORIZONTAL FIRE DAMPER (FLOOR)			CONCENTRIC PIPE REDUCER
	SD	VERTICAL SMOKE DAMPER (WALL)			ECCENTRIC PIPE REDUCER
$\rightarrow$	HSD	HORIZONTAL SMOKE DAMPER (FLOOR)			FLOW ARROW
	FD/SD	COMBINATION VERTICAL FIRE & SMOKE DAMPER	<b>—</b>	BV	BALL VALVE
	HFD/SD	COMBINATION HORIZONTAL FIRE & SMOKE DAMPER	I	BFV	BUTTERFLY VALVE
DD	DD	DUCT SMOKE DETECTOR	<u> </u>	PV	PLUG VALVE
T		THERMOSTAT		GV	GATE VALVE
H		HUMIDISTAT		GBV	GLOBE VALVE
SP		STATIC PRESSURE SENSOR		CV	CHECK VALVE
(CO <sub>2</sub> )		CARBON DIOXIDE SENSOR			2-WAY CONTROL VALVE
$\bigcirc$		CARBON MONOXIDE SENSOR			3-WAY CONTROL VALVE
TAG #		EQUIPMENT UNIT DESIGNATION	· · · · · · · · · · · · · · · · · · ·		CIRCUIT SETTER (BALANCING VALVE)
TAG CFM		DIFFUSER, REGISTER & GRILLE UNIT DESIGNATION W/ CFM			STRAINER (W/ BALL VALVE AND CAP)
		UNDER CUT DOOR			BACKFLOW PREVENTER
[		LOUVERED DOOR			PRESSURE REGULATING VALVE
$\mathbf{O}$		CONNECTION POINT, NEW TO EXISTING			PRESSURE RELIEF VALVE
		DISCONNECTION POINT	<u>+</u> 		TRIPLE DUTY VALVE WITH MEASURING CONNECTIONS
$\left( 1 \right)$		DRAWING KEYNOTE			PRESSURE GAGE W/ SHUT-OFF
( <u>1</u> )					
		REVISION NUMBER	<b>\$</b>		AUTOMATIC AIR VENT
		•		1	HOSE BIB

	MECHANICAL ABBREVIATIONS
ABRV.	DESCRIPTION
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
MBH	1000 - BRITISH THERMAL UNITS
KW	1000-WATT (1 KW = 3,412 BTUH)
SENS.	SENSIBLE
LAT.	LATENT
E.A.T.	ENTERING AIR TEMPERATURE
L.A.T.	LEAVING AIR TEMPERATURE
E.W.T.	ENTERING WATER TEMPERATURE
L.W.T.	LEAVING WATER TEMPERATURE
DB/WB	DRY BULB / WET BULB
IN. W.G.	INCHES WATER GAUGE (AIR)
FT. W.G.	FEET WATER GAUGE (HYDRONIC)
E.S.P.	EXTERNAL STATIC PRESSURE
T.S.P.	TOTAL STATIC PRESSURE
TG	TRANSFER GRILLE
TR	TOP REGISTER
(E)	EXISTING
R / R	REMOVE EXISTING ITEM & RELOCATE TO NEW LOCATION
UNO	UNLESS NOTED OTHERWISE
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
Ø OR PH	PHASE
Ø	DIAMETER
AFF	ABOVE FINISHED FLOOR
ELEV.	ELEVATION FROM DATUM
ES:	

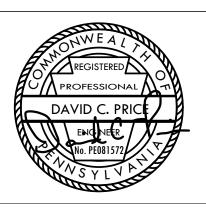
NOTES:

1. NOT ALL SYMBOLS AND ABBREVIATIONS ARE IN USE FOR THIS PROJECT.

#### FOR CONSTRUCTION

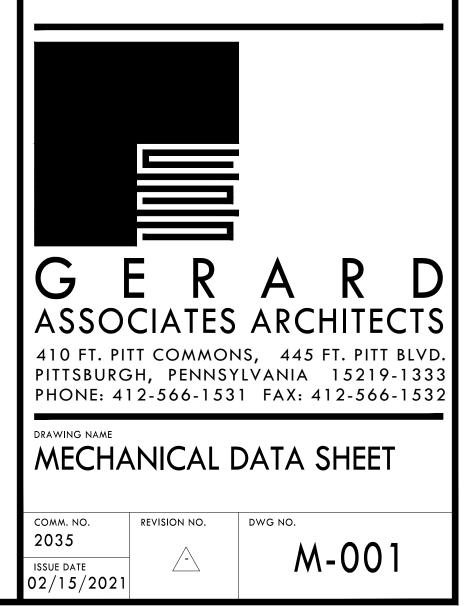
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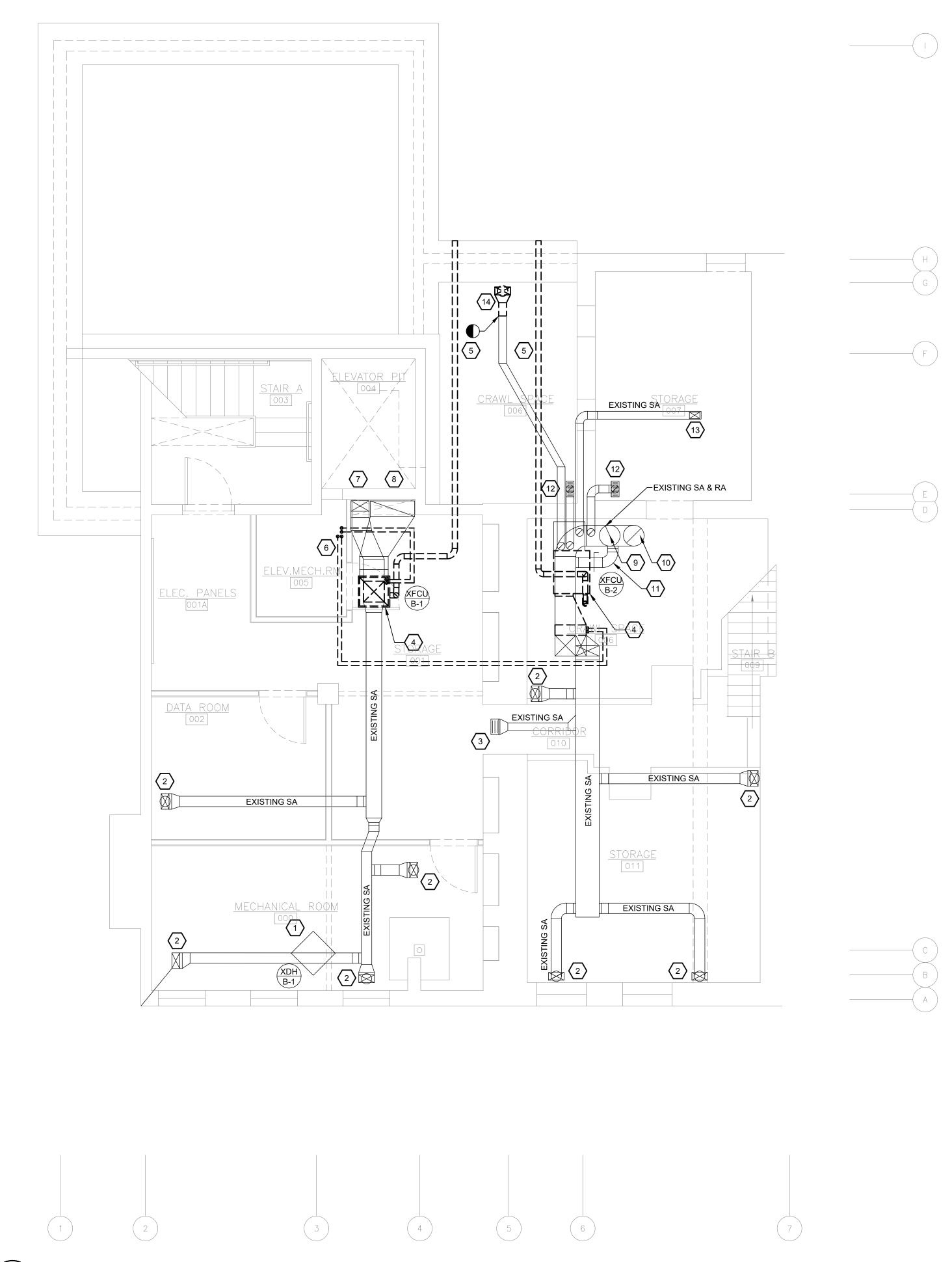
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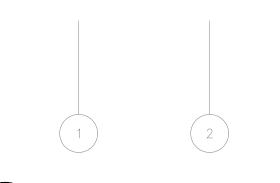


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### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER











BASEMENT MECHANICAL DEMOLITION PLAN

#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

#### MECHANICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

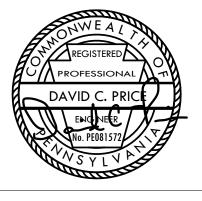
- 1. EXISTING PLUG-IN DEHUMIDIFIER AND ASSOCIATED APPURTENANCES TO REMAIN. VERIFY LOCATION IN FIELD.
- 2. EXISTING SUPPLY DUCT UP TO FLOOR REGISTER AT FLOOR ABOVE TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 3. EXISTING DUCT MOUNTED SUPPLY GRILLE, ASSOCIATED APPURTENANCES AND BRANCH TAP SHALL REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 4. EXISTING FURNACE, ASSOCIATED COOLING COIL, AND ASSOCIATED APPURTENANCES TO BE DEMOLISHED IN THEIR ENTIRETY. VERIFY SIZE AND LOCATION OF ALL EQUIPMENT AND APPURTENANCES IN FIELD.
- 5. FLUE PIPING ASSOCIATED WITH FURNACE SHALL BE DEMOLISHED IN ITS ENTIRETY. MC SHALL VERIFY ROUTING IN FIELD.
- 6. (2) SUCTION AND LIQUID REFRIGERANT LINESETS FROM ASSOCIATED FURNACES TO CONDENSING UNITS AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED IN THEIR ENTIRETY. VERIFY EXACT LOCATION AND ROUTING IN FIELD.
- 7. EXISTING SUPPLY DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 8. EXISTING RETURN DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 9. EXISTING SUPPLY DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 10. EXISTING RETURN DUCT UP TO FLOOR ABOVE AND ASSOCIATED FIRE/SMOKE DAMPER TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 11. EXISTING BYPASS DAMPER AND ASSOCIATED APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 12. EXISTING SUPPLY DIFFUSER AND ASSOCIATED BRANCH DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 13. EXISTING SUPPLY DUCT UP TO WALL GRILLE AT FLOOR ABOVE TO REMAIN. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 14. EXISTING SUPPLY DUCTWORK AND TRANSITION UP TO FLOOR GRILLE ABOVE TO BE DISCONNECTED FROM SUPPLY AIR DUCT AND DEMOLISHED.

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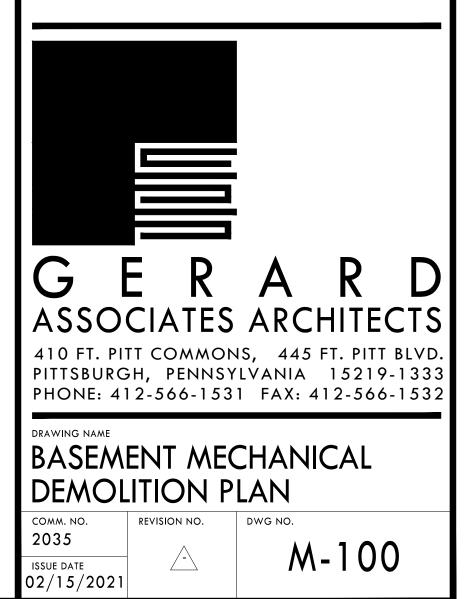
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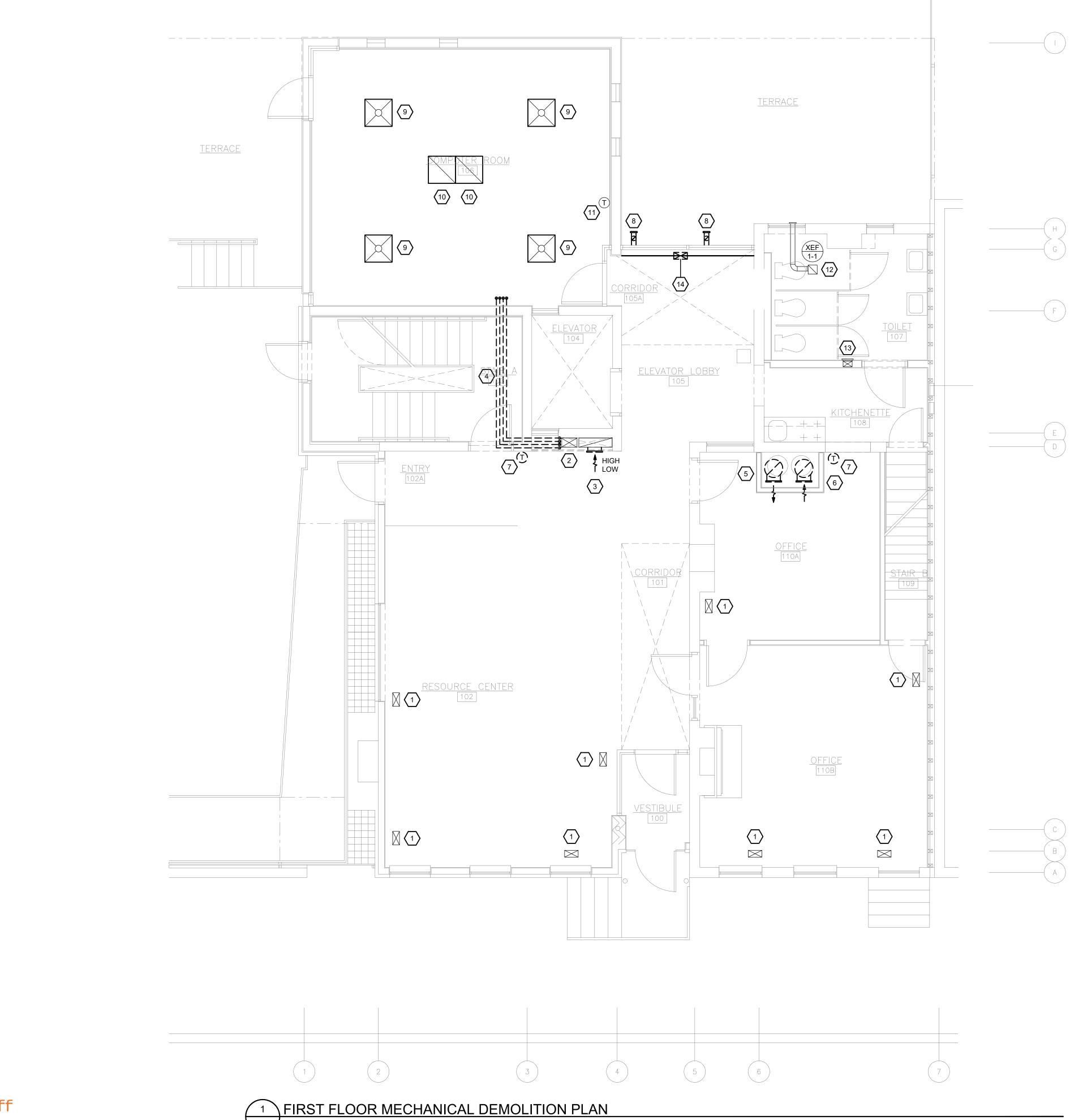
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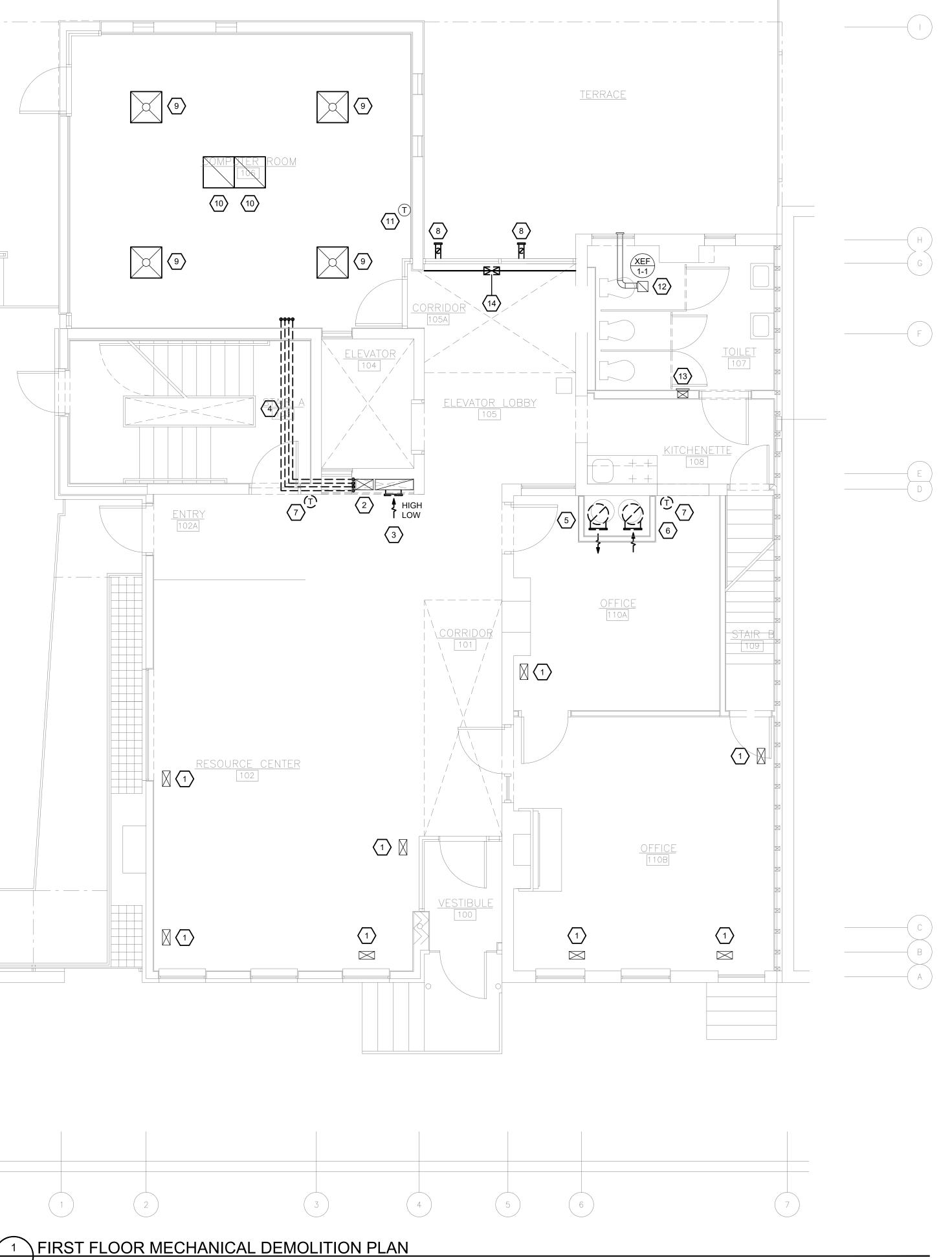


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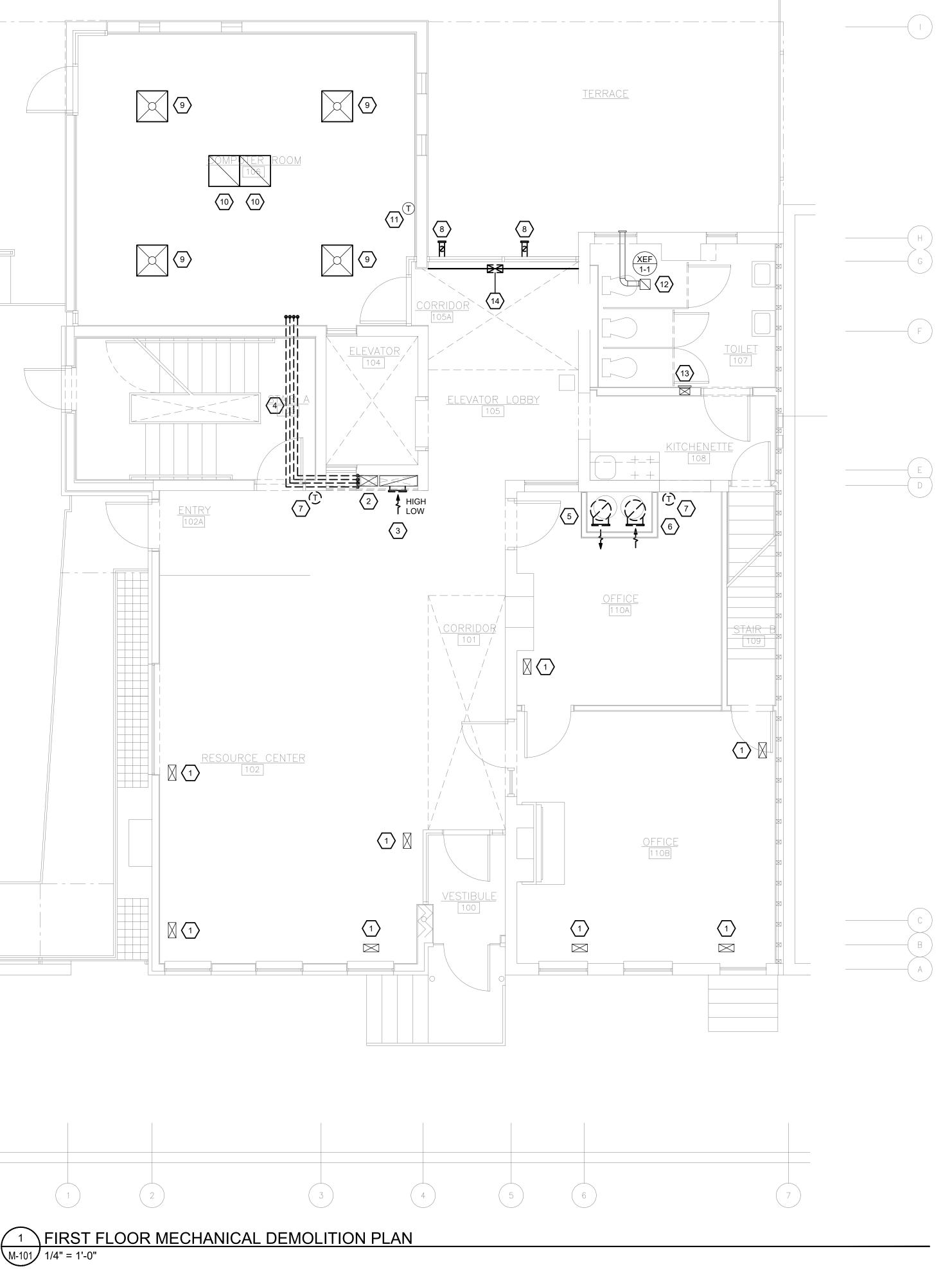
### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**











#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

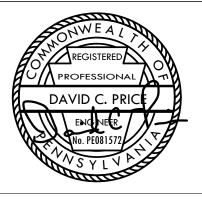
#### MECHANICAL DEMOLITION KEY NOTES: (#)

- 1. EXISTING SUPPLY FLOOR GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 2. EXISTING SUPPLY DUCT IN CHASE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 3. EXISTING RETURN DUCT IN CHASE TO REMAIN. RETURN GRILLES LOCATED HIGH AND LOW AT GYPSUM WALL SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH WALL TO MATCH EXISTING CONSTRUCTION AND EXISTING FIRE RATING AT GYPSUM WALL ENCLOSURE. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 4. (2) SUCTION AND LIQUID REFRIGERANT LINESETS FROM ASSOCIATED FURNACES TO CONDENSING UNITS AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED IN THEIR ENTIRETY. VERIFY EXACT LOCATION AND ROUTING IN FIELD.
- 5. EXISTING SUPPLY DUCT UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW TO BE DEMOLISHED. DUCT MOUNTED SUPPLY GRILLE AND BRANCH TAP AT THIS FLOOR SHALL BE DEMOLISHED. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 6. EXISTING RETURN DUCT UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW TO BE DEMOLISHED. DUCT MOUNTED RETURN GRILLE AND BRANCH TAP AT THIS FLOOR SHALL BE DEMOLISHED. MC SHALL REPLACE VERTICAL RETURN DUCT SECTION AT WHICH SUPPLY TAP WAS LOCATED IN KIND. VERIFY SIZE AND LOCATION OF DUCTWORK IN FIELD.
- 7. EXISTING THERMOSTAT FOR FURNACE AND CONDENSING UNIT SYSTEM AND ALL ASSOCIATED CONTROL WIRING TO BE DEMOLISHED. MC SHALL VERIFY ROUTING OF CONTROL WIRING IN FIELD.
- 8. EXISTING FLUE AND TERMINATION SHALL BE DEMOLISHED IN ITS ENTIRETY. EXTERIOR WALL PENETRATION SHALL BE TEMPORARILY COVERED FOR FUTURE FLUE PIPING INSTALLATION. VERIFY EXACT LOCATION AND ROUTING IN FIELD.
- 9. EXISTING SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY LOCATION IN FIELD.
- 10. EXISTING RETURN GRILLE AND ASSOCIATED DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY LOCATION IN FIELD.
- 11. EXISTING THERMOSTAT FOR ROOFTOP UNIT AND ALL ASSOCIATED CONTROL WIRING TO BE REMAIN.
- 12. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND TERMINATION TO REMAIN. VERIFY LOCATION IN FIELD.
- 13. EXISTING WALL MOUNTED SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 14.MC SHALL DISCONNECT FLOOR GRILLE AND ASSOCIATED APPURTENANCES AND SHALL DEMOLISHED. VERIFY SIZE AND LOCATION OF DUCT IN FIELD. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING FLOOR CONSTRUCTION, MATERIAL AND FINISH.

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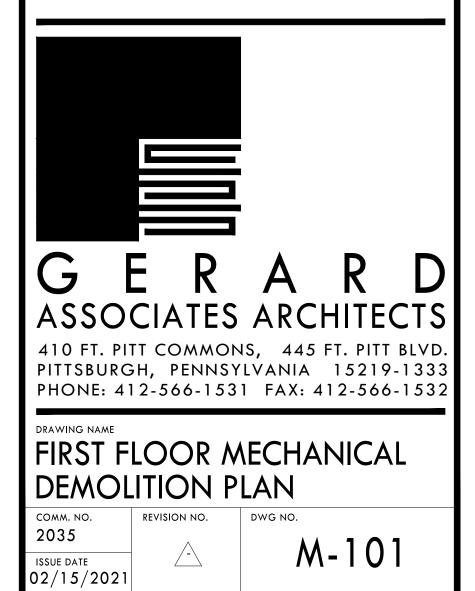
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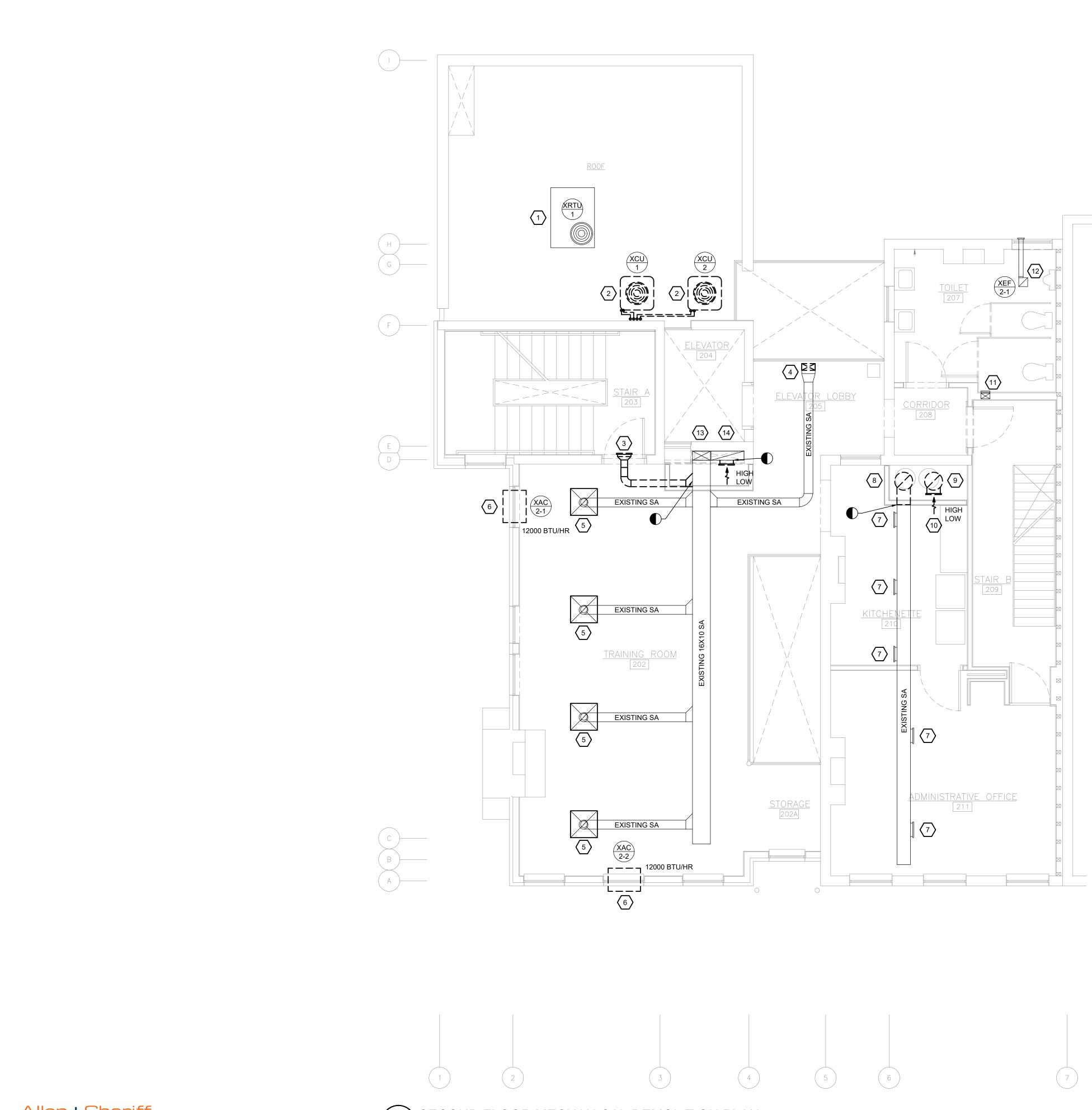
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### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





M-102 1/4" = 1'-0"





#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

#### MECHANICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

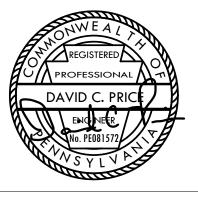
- 1. EXISTING ROOFTOP UNIT AND ALL ASSOCIATED APPURTENANCES TO REMAIN. VERIFY LOCATION AND SIZE IN FIELD.
- 2. EXISTING CONDENSING UNIT AND ALL ASSOCIATED APPURTENANCES BE DEMOLISHED. SUCTION AND LIQUID REFRIGERANT LINESETS FROM EACH CONDENSING UNIT TO BE DEMOLISHED. MC SHALL PATCH ROOF TO MATCH EXISTING CONSTRUCTION. VERIFY SIZE, LOCATION AND ROUTING OF REFRIGERANT IN FIELD.
- 3. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY BRANCH DUCTWORK SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH STAIRWELL PENETRATION SUCH THAT FIRE RATING OF STAIRWELL IS MAINTAINED. VERIFY SIZE AND LOCATION OF DIFFUSER AND WALL PENETRATION IN FIELD.
- 4. EXISTING SUPPLY BRANCH DUCTWORK ASSOCIATED WITH SUPPLY FLOOR GRILLE AT FLOOR ABOVE TO BE DISCONNECTED FROM FLOOR GRILLE. VERIFY SIZE AND LOCATION IN FIELD.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED FLEXIBLE DUCT CONNECTION TO BE RELOCATED IN ACOUSTIC TILE CEILING. VERIFY LOCATION OF DIFFUSER IN FIELD.
- 6. EXISTING COOLING ONLY PTAC UNIT SHALL BE REMOVED FROM WINDOW AND RETURNED INTACT AND FULLY OPERATIONAL TO BUILDING OWNER.
- 7. EXISTING DUCT MOUNTED DIFFUSER TO REMAIN. VERIFY LOCATION IN FIELD.
- 8. EXISTING VERTICAL SUPPLY DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE TO BE DEMOLISHED. BRANCH DUCTWORK SHALL BE DEMOLISHED TO POINT INDICATED ON DRAWINGS. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 9. EXISTING VERTICAL RETURN DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE AND ASSOCIATED RETURN GRILLES AT THIS FLOOR TO BE DEMOLISHED. VERIFY EXACT LOCATION IN FIELD. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 10. EXISTING DUCT MOUNTED RETURN GRILLE HIGH AND LOW TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 11. EXISTING SUPPLY GRILLE AND ASSOCIATED DUCTWORK IN WALL TO REMAIN. VERIFY LOCATION IN FIELD.
- 12. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND TERMINATION TO REMAIN. VERIFY LOCATION IN FIELD.
- 13. EXISTING VERTICAL SUPPLY DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE TO REMAIN. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 14. EXISTING VERTICAL RETURN DUCTWORK DOWN TO FLOOR BELOW AND UP TO FLOOR ABOVE TO REMAIN. RETURN GRILLES LOCATED HIGH AND LOW AT GYPSUM WALL SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH WALL TO MATCH EXISTING CONSTRUCTION AND

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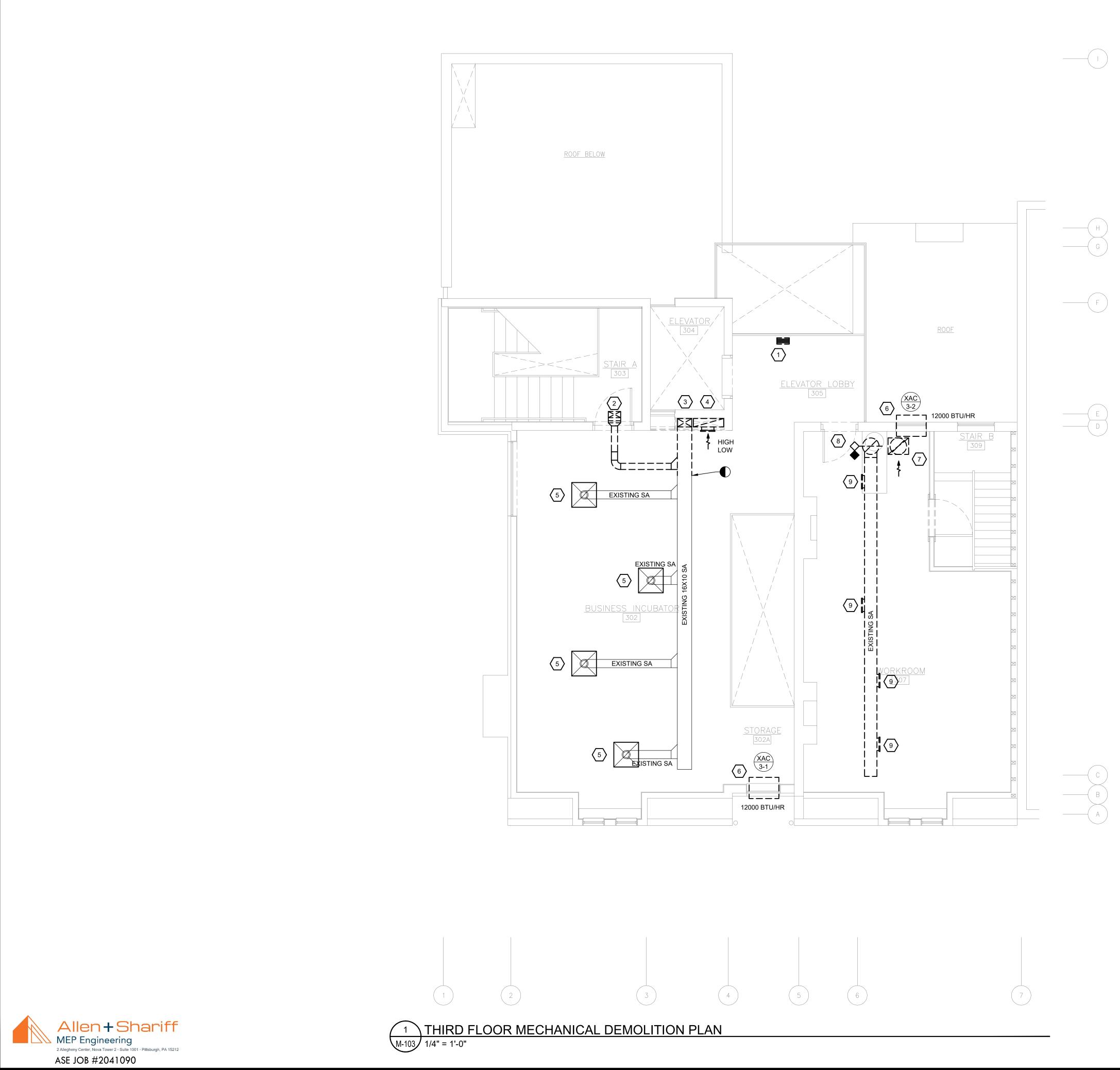
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### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER





#### MECHANICAL DEMOLITION GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.

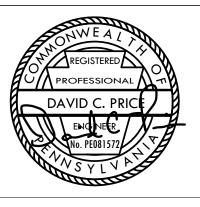
#### MECHANICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

- 1. EXISTING FLOOR GRILLE TO BE DEMOLISHED. MC SHALL VERIFY SIZE AND LOCATION IN FIELD. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING CONSTRUCTION AND FINISH.
- 2. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY BRANCH DUCTWORK SHALL BE DEMOLISHED. MC SHALL COORDINATE WITH GC TO PATCH STAIRWELL PENETRATION SUCH THAT FIRE RATING OF STAIRWELL IS MAINTAINED. VERIFY SIZE AND LOCATION OF DIFFUSER AND WALL PENETRATION IN FIELD.
- 3. EXISTING SUPPLY AIR DUCTWORK IN CHASE SHALL BE DISCONNECTED FROM EXISTING 16"X10" SA DUCT TRUNK AND DEMOLISHED DOWN TO FLOOR LEVEL AT THIRD FLOOR. VERTICAL DUCT RISER SHALL BE CAPPED AT THIRD FLOOR AND MC SHALL COORDINATE WITH GC TO PROVIDE PATCHING OF WALL ENCLOSURE. VERIFY SIZE AND LOCATION OF EXISTING SUPPLY DUCT IN FIELD.
- 4. EXISTING RETURN AIR DUCTWORK IN CHASE SHALL BE DISCONNECTED FROM EXISTING HIGH AND LOW RETURN GRILLES AT WALL AND DEMOLISHED DOWN TO FLOOR LEVEL AT THIRD FLOOR. VERTICAL DUCT RISER SHALL BE CAPPED AT THIRD FLOOR AND MC SHALL COORDINATE WITH GC TO PROVIDE PATCHING OF WALL ENCLOSURE. VERIFY SIZE AND LOCATION OF EXISTING RETURN DUCT IN FIELD.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED FLEXIBLE DUCT CONNECTION TO BE RELOCATED IN ACOUSTIC TILE CEILING. VERIFY LOCATION OF DIFFUSER IN FIELD.
- 6. EXISTING COOLING ONLY PTAC UNIT SHALL BE REMOVED FROM WINDOW AND RETURNED INTACT AND FULLY OPERATIONAL TO BUILDING OWNER.
- 7. EXISTING VERTICAL RETURN DUCTWORK AND ASSOCIATED FLOOR GRILLE SHALL BE DEMOLISHED DOWN TO AND CAPPED AT FLOOR LEVEL. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING CONSTRUCTION AND FINISH. VERIFY EXACT LOCATION IN FIELD. VERIFY EXACT LOCATION AND SIZE IN FIELD.
- 8. EXISTING VERTICAL SUPPLY DUCTWORK SHALL BE DEMOLISHED DOWN TO AND CAPPED AT FLOOR LEVEL. MC SHALL COORDINATE WITH GC TO PATCH FLOOR TO MATCH EXISTING CONSTRUCTION AND FINISH. VERIFY EXACT LOCATION IN FIELD. VERIFY EXACT LOCATION AND SIZE IN FIELD..
- 9. EXISTING DUCT MOUNTED DIFFUSER AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED. VERIFY LOCATION IN FIELD.

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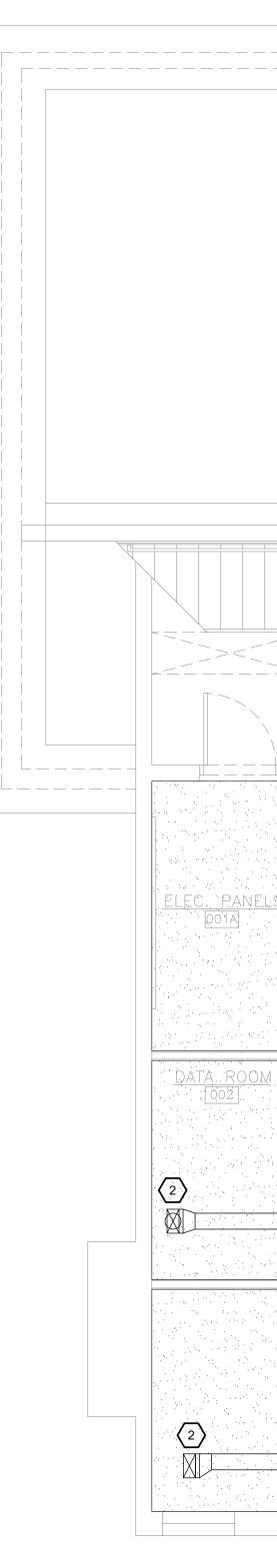
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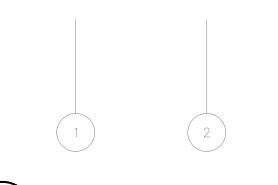


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### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**

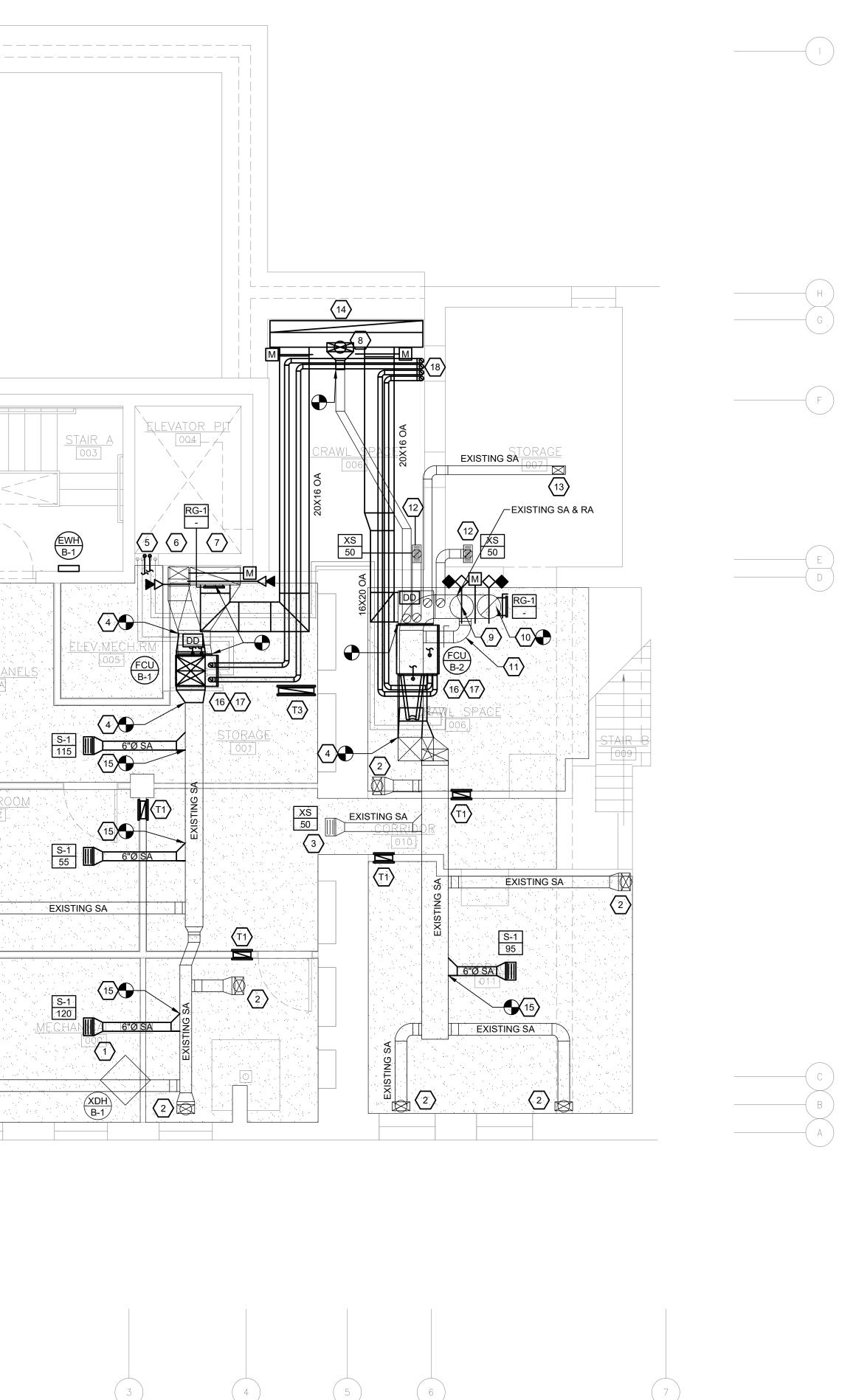












#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MECHANICAL EQUIPMENT AND/OR CONTROL DEVICES IN CRAWL SPACE SHALL BE INSTALLED SUCH THAT THEY CAN BE ACCESSED FOR PROPER SERVICE AND MAINTENANCE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS AND IMC 2015 ACCESS REQUIREMENTS.
- 6. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 7. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 8. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 9. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

MECHANICAL KEY NOTES: (#)

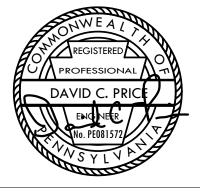
- 1. EXISTING PLUG IN DEHUMIDIFIER TO REMAIN.
- 2. EXISTING BRANCH DUCTWORK AND TRANSITION UP TO FLOOR GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 3. EXISTING DUCTWORK AND CEILING SUPPLY GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 4. NEW SUPPLY AIR DUCTWORK CONNECTS TO EXISTING SUPPLY AIR MAIN. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION.
- 5. (2) SETS OF SUCTION AND LIQUID REFRIGERANT PIPING LINESETS UP IN CHASE TO FLOOR ABOVE. (2) 3/4 CONDENSATE DRAINS FROM FLOOR ABOVE SHALL BE ROUTED TO EXISTING FLOOR DRAIN IN MECHANICAL ROOM. COORDINATE ROUTING IN FIELD.
- 6. EXISTING SUPPLY DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF SUPPLY DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 7. EXISTING RETURN DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF RETURN DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 8. NEW SUPPLY DUCTWORK CONNECTS TO EXISTING DUCTWORK IN CRAWL SPACE. NEW DUCTWORK CONNECTS TO SUPPLY PLENUM BOX. MAKE TRANSITIONS AS NECESSARY. NEW SUPPLY FLOOR GRILLE SHALL BE INSTALLED AT FLOOR ABOVE.
- 9. EXISTING ROUND SUPPLY DUCTWORK UP IN RATED CHASE TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF RETURN DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 10. EXISTING ROUND RETURN DUCTWORK UP IN RATED CHASE TO FLOOR ABOVE. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT FLOOR OPENING. MC SHALL FIELD VERIFY SIZE OF RETURN DUCT AND SHALL MATCH FIRE/SMOKE DAMPER DIMENSIONS TO EXISTING DUCT SIZE.
- 11. EXISTING BYPASS DAMPER AND DUCTWORK TO REMAIN. VERIFY EXACT SIZE AND LOCATION IN FIELD.
- 12. EXISTING SUPPLY AIR GRILLE AND ASSOCIATED DUCTWORK SERVING BASEMENT TO REMAIN. VERIFY EXACT SIZE AND LOCATION IN FIELD.
- 13. EXISTING SUPPLY UP THROUGH BATHROOM WALL ABOVE TO REMAIN.
- 14.NEW 104" X8" OUTSIDE AIR DUCT UP TO FLOOR ABOVE. 104"X8" TRANSITIONS VERTICALLY TO 104"X18" IN CRAWL SPACE. (2) 20"X16" OA DUCTWORK CONNECTS TO 104"X18" DUCTWORK. PROVIDE MOTORIZED CONTROL DAMPER AT EACH CONNECTION.
- 15.NEW SUPPLY DUCT CONNECTS TO EXISTING SUPPLY MAIN ABOVE CEILING. VERIFY EXACT LOCATION AND SIZE OF EXISTING DUCTWORK IN FIELD.
- 16.NEW FURNACE SHALL BE INSTALLED ON NEW 4" CONCRETE HOUSEKEEPING PAD WITH NEOPRENE GASKET VIBRATION ISOLATION PADS.
- 17.(2) 3/4" CONDENSATE DRAINS SHALL BE ROUTED TO EXISTING FLOOR DRAIN IN MECHANICAL ROOM. COORDINATE ROUTING IN FIELD. FURNACE SHALL BE INSTALLED WITH DRAIN PAN WITH DRAIN PAN WATER LEVEL SENSOR ALARM SUCH THAT FURNACE SHALL DE-ENERGIZE UPON ALARM ACTIVATION.
- 18.(2) SETS OF 3" COMBUSTION AIR AND VENT FLUE PIPING UP ALONG MASONRY WALL TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD.

#### FOR CONSTRUCTION

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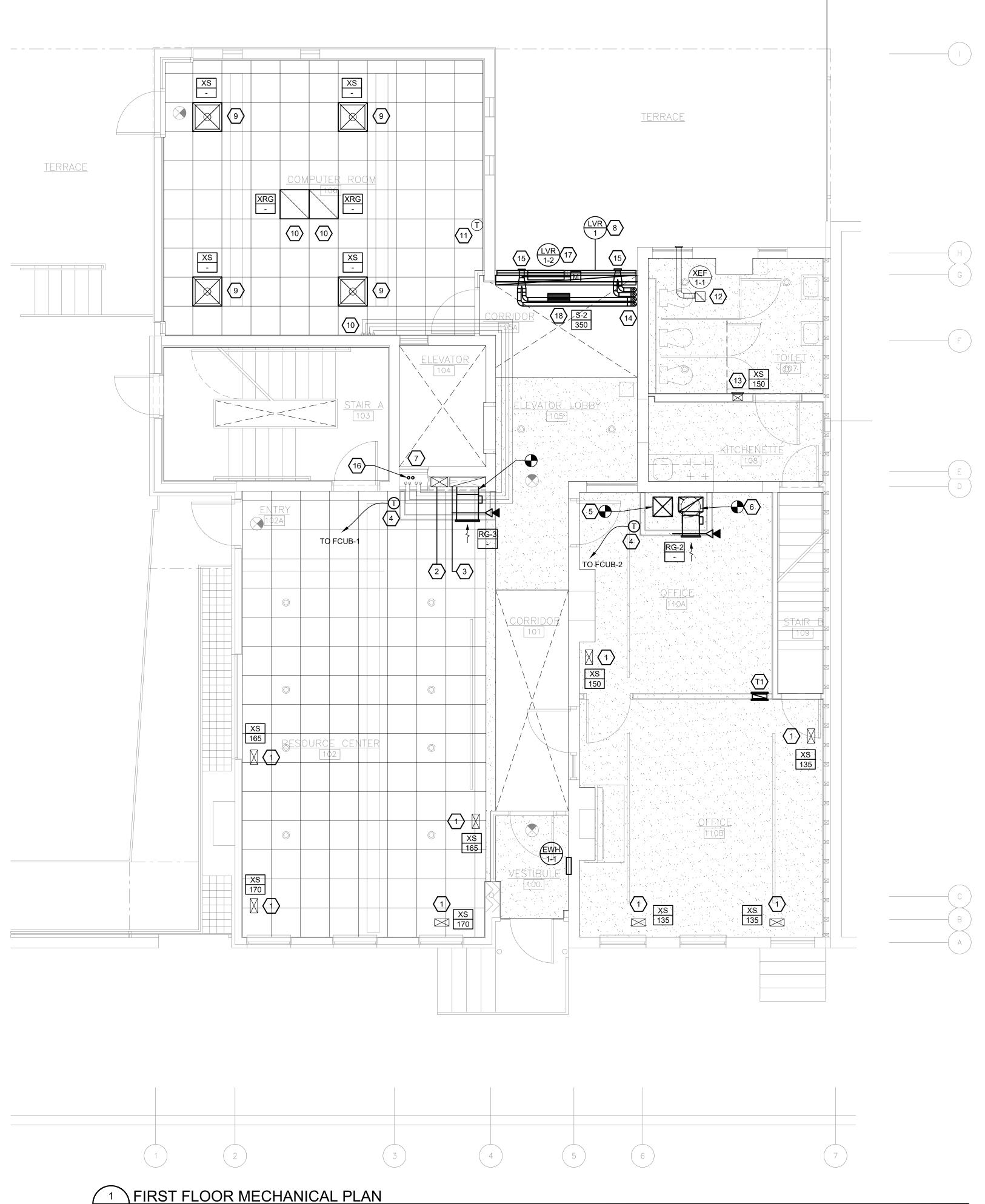
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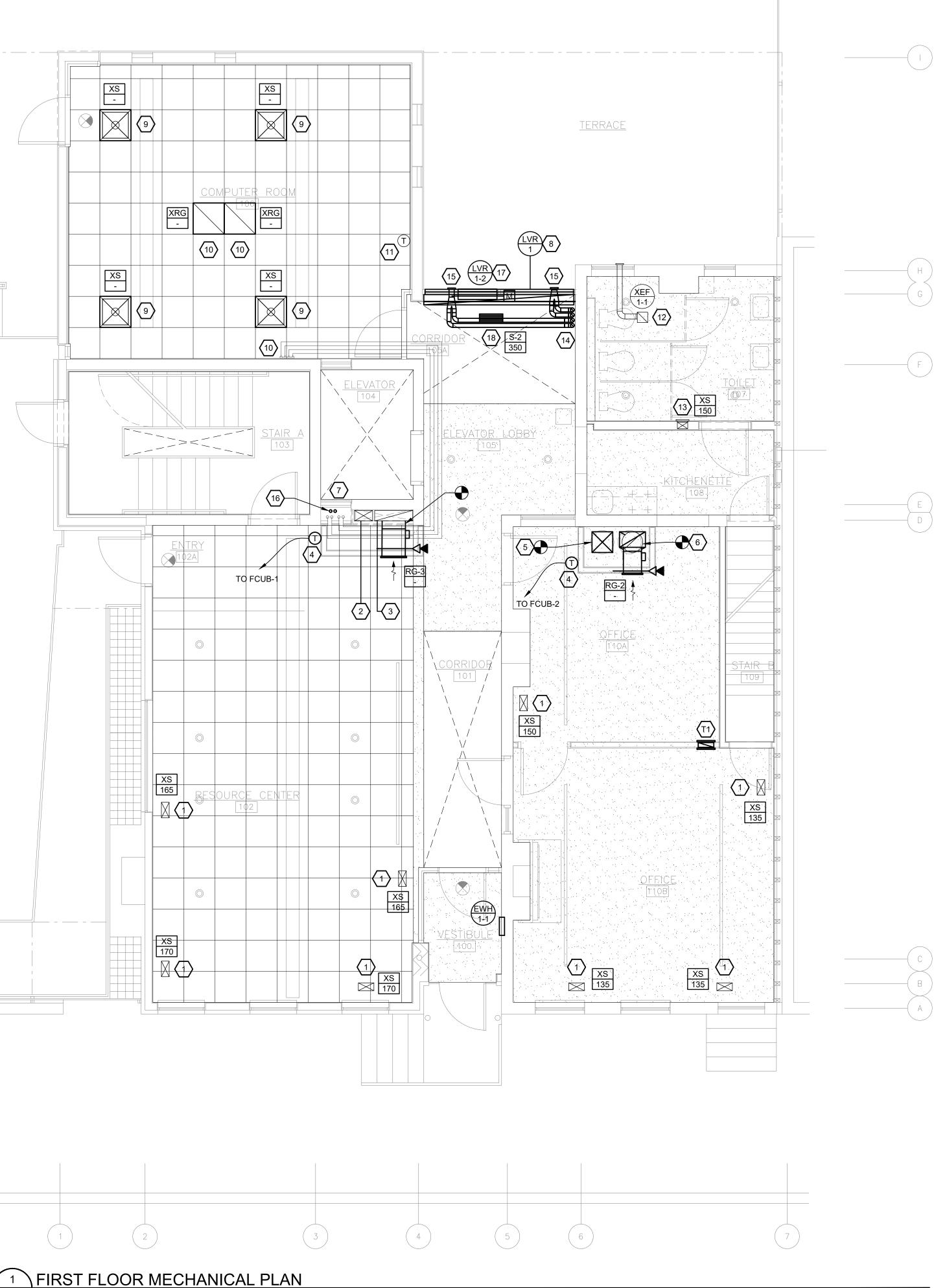


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**









M-201 1/4" = 1'-0"

#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 6. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 7. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 8. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

MECHANICAL KEY NOTES: (#)

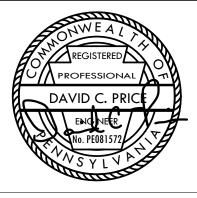
- 1. EXISTING SUPPLY FLOOR GRILLE AND ASSOCIATED DUCTWORK BELOW TO REMAIN. VERIFY LOCATION IN FIELD.
- 2. EXISTING SUPPLY DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW.
- 3. EXISTING RETURN DUCT UP IN NEW RATED CHASE UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW. MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL.
- 4. NEW PROGRAMMABLE 7 DAY THERMOSTAT SHALL BE INSTALLED 44" ABOVE FINISHED FLOOR AT CHASE WALL.
- 5. EXISTING ROUND SUPPLY AIR DUCTWORK IN NEW RATED CHASE DN TO FLOOR BELOW. ROUND SUPPLY DUCTWORK TRANSITIONS AND CONNECTS TO NEW 16"X16" AT FLOOR OPENING. 16"X16" SA UP IN CHASE TO FLOOR ABOVE.
- 6. EXISTING ROUND RETURN DUCT DN IN NEW RATED CHASE DOWN TO FLOOR BELOW. ROUND RETURN DUCTWORK TRANSITIONS AND CONNECTS TO NEW 12"X20" RETURN DUCT AT FLOOR OPENING. NEW MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL
- 7. (2) SETS OF SUCTION AND LIQUID REFRIGERANT PIPING LINESETS DOWN IN CHASE TO FLOOR BELOW. REFRIGERANT LINESET SHALL BE ROUTED CHASE AND ABOVE CEILING TO COORDINATE ROUTING IN FIELD.
- 8. NEW LOUVER LVR-1 SHALL BE INSTALLED IN LOWER SECTION OF EXISTING STOREFRONT WINDOW. FINAL SIZE OF LOUVER SHALL BE COORDINATED TO MATCH DIMENSIONS OF EXISTING LOWER SECTION OF STOREFRONT WINDOW. LOUVER CONNECTS TO 120"X8" FRESH AIR DUCTWORK LOCATED WITHIN NEW WINDOW SEAT AND SHALL BE ROUTED DOWN TO FLOOR BELOW.
- 9. EXISTING SUPPLY GRILLE TO REMAIN. VERIFY LOCATION IN FIELD.
- 10. EXISTING RETURN GRILLE TO REMAIN. VERIFY LOCATION IN FIELD.
- 11. EXISTING THERMOSTAT TO REMAIN.
- 12. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AND TERMINATIONS TO REMAIN. VERIFY LOCATION IN FIELD.
- 13. EXISTING SUPPLY AIR DUCT IN WALL DN TO FLOOR BELOW AND UP TO FLOOR ABOVE. EXISTING SUPPLY AIR GRILLE IN WALL TO REMAIN. VERIFY SIZE AND LOCATION OF GRILLE AND DUCTWORK IN FIELD.
- 14.(2) SETS OF 3" COMBUSTION AIR AND VENT FLUE PIPING UP ALONG MASONRY WALL TO CEILING LEVEL. 14.(2) SETS OF 3" COMBUSTION AIR AND VENT FLUE PIPING DN ALONG MASONRY WALL TO FLOOR BELOW. COORDINATE ROUTING IN FIELD.
- 15.3" COMBUSTION AIR AND VENT FLUE PIPING TERMINATES AT EXTERIOR WALL VIA 4" CONCENTRIC VENT TERMINATION. INSTALL TERMINATION PER THE MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS.
- 16.(2) 3/4" CONDENSATE DRAINS SHALL BE ROUTED DN IN CHASE TO FLOOR BELOW AND UP TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD. COORDINATE ROUTING IN FIELD.
- 17. RELIEF AIR LOUVER 1-2 SHALL BE INSTALLED NO LESS THAN 3 FEET ABOVE TOP OF LOUVER 1-1. PROVIDE MOTORIZED DAMPER AT LOUVER AND PROVIDE BIRDSCREEN AT DUCT OPENING TO OCCUPIED SPACE.
- 18.NEW SUPPLY FLOOR GRILLE SHALL BE INSTALLED IN THIS LOCATION.

#### FOR CONSTRUCTION

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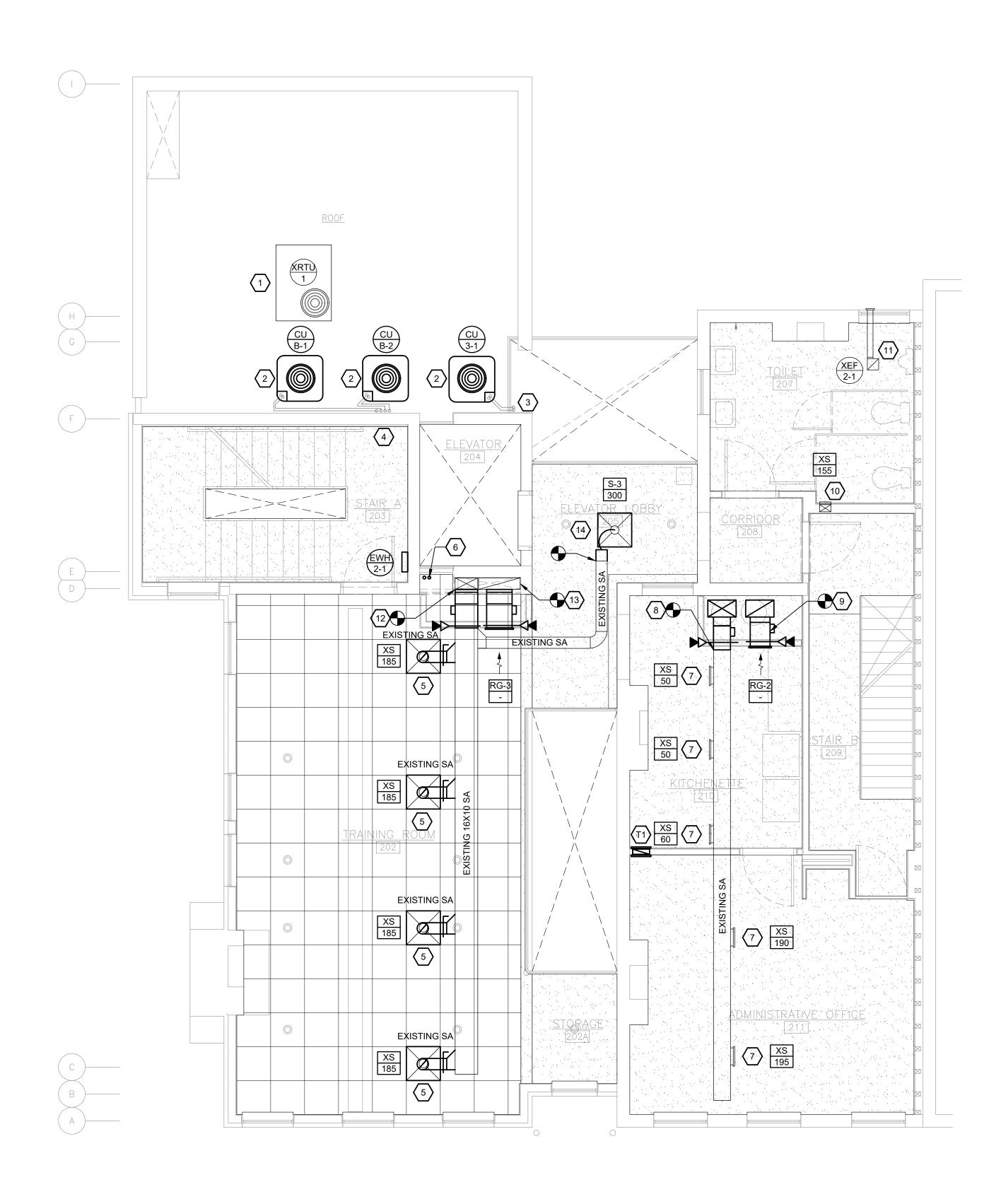
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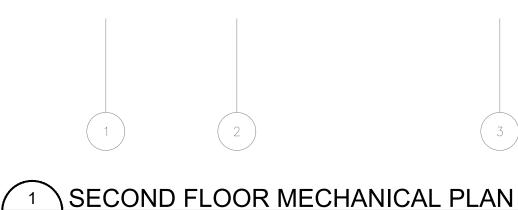


**PROPERTY REHABILITATION FOR:** 

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**







M-202 1/4" = 1'-0"



#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 6. MC SHALL PROVIDE AND INSTALL SERVICE RAILING FOR ALL MECHANICAL EQUIPMENT ON ROOF LOCATED WITHIN 10 FEET OF ROOF EDGE UNLESS ROOF PARAPET IS GREATER THAN 42" TALL. SERVICE RAILING SHALL BE INSTALLED IN ACCORDANCE WITH IMC, IBC, AND OSHA CODES AND STANDARDS.
- 7. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 8. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 9. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

#### MECHANICAL KEY NOTES: (#)

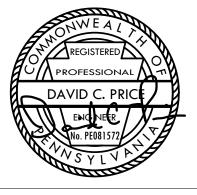
- 1. EXISTING ROOFTOP UNIT AND ASSOCIATED APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 2. NEW CONDENSING UNIT SHALL BE INSTALLED ON 6" CONCRETE PAD WITH CONDENSING UNIT STANDS AND VIBRATION ISOLATION PADS.
- 3. SUCTION AND LIQUID REFRIGERANT LINESET SHALL BE ROUTED THROUGH EXTERIOR WALL AND UP TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD.
- 4. (2) SETS OF REFRIGERANT SUCTION AND LIQUID LINESETS SHALL BE ROUTED DOWN TO FLOOR BELOW. PROVIDE INSULATED 12" HIGH ROOF CURB WITH PIPE PORTALS AT ROOF PENETRATION.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY DUCTWORK SHALL BE RELOCATED TO THIS LOCATION. COORDINATE ROUTING IN FIELD.
- 6. (2) 3/4" CONDENSATE DRAIN PIPING DOWN IN CHASE TO FLOOR BÉLOW AND UP IN CHASE TO FLOOR ABOVE. COORDINATE ROUTING IN FIELD.
- 7. EXISTING SUPPLY GRILLE AND ASSOCIATED BRANCH DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 8. 16"X12" SUPPLY AIR DUCTWORK DN IN CHASE TO FLOOR BELOW. 12" ROUND BRANCH TAP SHALL BE ROUTED TO AND SHALL CONNECT TO EXISTING SUPPLY AIR DUCTWORK. MC SHALL MAKE TRANSITIONS AS NECESSARY. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.
- 9. 12"X20" RETURN DUCT DN IN NEW RATED CHASE DOWN TO FLOOR BELOW. NEW MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL.
- 10. EXISTING SUPPLY AIR DUCT IN WALL DOWN TO FLOOR BELOW AND WALL SUPPLY GRILLE TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 11. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, APPURTENANCES, AND TERMINATION TO REMAIN. VERIFY SIZE AND LOCATION OF FAN AND DUCTWORK IN FIELD.
- 12. EXISTING SUPPLY AIR DUCTWORK DN IN CHASE TO FLOOR BELOW. 16"X10" BRANCH TAP SHALL BE ROUTED TO AND SHALL CONNECT TO EXISTING SUPPLY AIR DUCTWORK. MC SHALL MAKE TRANSITIONS AS NECESSARY. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.
- 13. EXISTING RETURN DUCT DN IN NEW RATED CHASE DOWN TO FLOOR BELOW. NEW MC SHALL PROVIDE NEW RETURN AIR BRANCH TAP 12" BELOW FINISHED CEILING AND NEW SURFACE MOUNTED RETURN GRILLE AT CHASE WALL. MC SHALL PROVIDE NEW COMBINATION FIRE/SMOKE DAMPER AT CHASE WALL.
- 14.NEW SUPPLY AIR DIFFUSER AND ASSOCIATED BRANCH DUCTWORK SHALL CONNECT TO EXISTING BRANCH DUCTWORK. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.

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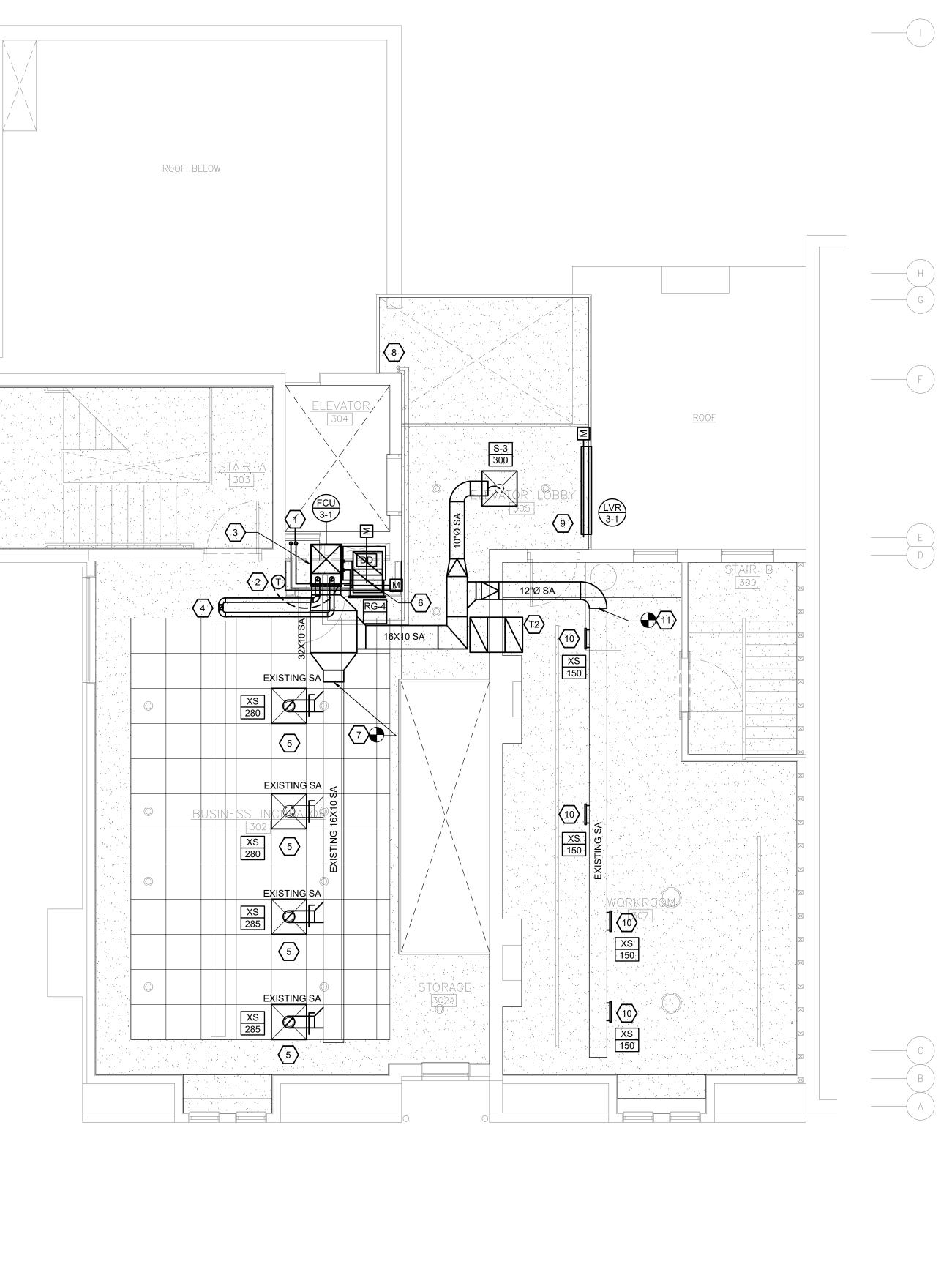
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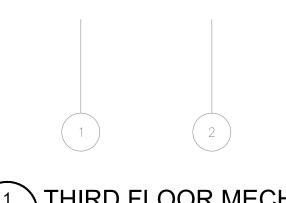


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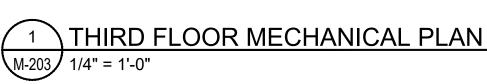
## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**

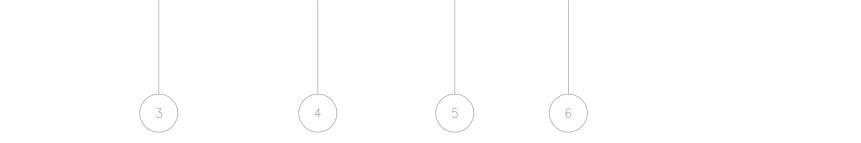












#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 6. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 7. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.
- 8. THE MC SHALL ENGAGE THE TESTING, ADJUSTING, AND BALANCING AGENT TO RE-BALANCE EXISTING SUPPLY DIFFUSERS TO THE AIRFLOW INDICATED ON THE FLOOR PLANS PROVIDED A NEW AIRFLOW IS SHOWN.

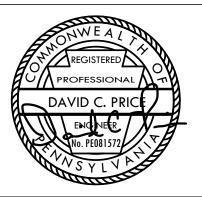
#### <u>MECHANICAL KEY NOTES:</u> $\langle \# \rangle$

- 1. (2) 3/4" CONDENSATE DRAIN PIPING DOWN IN CHASE TO FLOOR BELOW. COORDINATE ROUTING IN FIELD.
- 2. NEW PROGRAMMABLE 7 DAY THERMOSTAT SHALL BE INSTALLED 44" ABOVE FINISHED FLOOR AT CHASE WALL.
- 3. NEW FURNACE SHALL BE INSTALLED ON NEW 4" CONCRETE HOUSEKEEPING PAD WITH NEOPRENE GASKET VIBRATION ISOLATION PADS.
- 4. 3" COMBUSTION AIR PIPING AND FLUE PIPING SHALL BE ROUTED UP TO CONCENTRIC VENT TERMINATION AT ROOF ABOVE. COORDINATE ROUTING IN FIELD.
- 5. EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY DUCTWORK SHALL BE RELOCATED TO THIS LOCATION. COORDINATE ROUTING IN FIELD.
- 6. 20"x20" RETURN AIR DUCT TRANSITIONS UP TO GRAVITY INTAKE VENTILATOR AT ROOF ABOVE. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION.
- 7. NEW SUPPLY AIR DUCTWORK SHALL CONNECT TO EXISTING SUPPLY MAIN DUCTWORK. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.
- 8. (1) SET OF SUCTION AND LIQUID REFRIGERANT PIPING SHALL BE ROUTED DOWN TO FLOOR BELOW. COORDINATE ROUTING IN FIELD.
- 9. 60"x24" POTTORFF EFD-245 RELIEF AIR LOUVER SHALL BE INSTALLED AT EXTERIOR WALL. MC SHALL PROVIDE MOTORIZED CONTROL DAMPER AND BIRDSCREEN AT LOUVER.
- 10. EXISTING SUPPLY GRILLE AND ASSOCIATED BRANCH DUCTWORK AND APPURTENANCES TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
- 11. NEW SUPPLY AIR DUCTWORK SHALL CONNECT TO EXISTING SUPPLY MAIN DUCTWORK. MC SHALL PROVIDE TRANSITIONS AS NECESSARY TO MAKE CONNECTION. VERIFY SIZE AND LOCATION OF EXISTING DUCTWORK IN FIELD.

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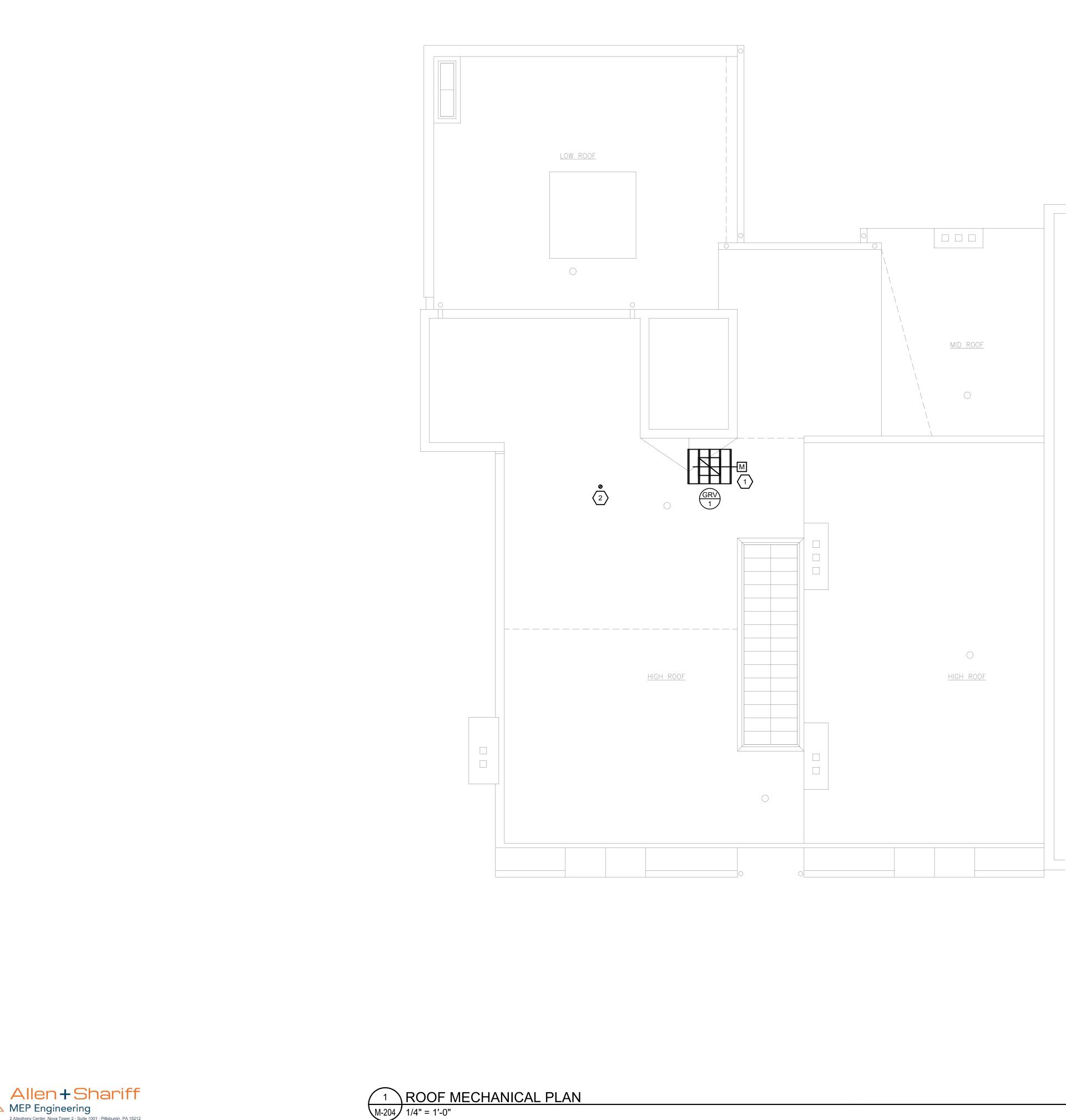
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





2 Allegheny Center, Nova Tower 2 º Suite 1001 º Pittsburgh, PA 15212 ASE JOB #2041090

#### MECHANICAL GENERAL NOTES:

- 1. NO EQUIPMENT OR CONTROL DEVICES SHALL BE SERVICED OR ACCESSED VIA ROOF.
- 2. MECHANICAL TERMINATIONS AT ROOF SHALL BE EQUIPPED WITH A 14" HIGH MINIMUM ROOF CURB. ROOF CURB SHALL BE CANTED AS NECESSARY TO COORDINATE WITH ROOF PITCH.
- 3. MECHANICAL FRESH AIR INTAKES SHALL BE LOCATED NO LESS THAN 10 FEET FROM MECHANICAL EXHAUST OUTLETS. MECHANICAL FRESH AIR INTAKES LOCATED WITHIN 10 FEET OF MECHANICAL EXHAUST OUTLETS SHALL BE INSTALLED NO LESS THAN 3 FEET BELOW SUCH EXHAUST AIR OUTLETS.

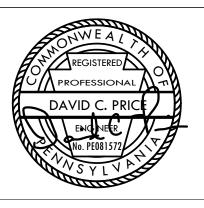
#### MECHANICAL KEY NOTES: (#)

- 1. GRV-1 SHALL BE INSTALLED ON 14" HIGH INSULATED ROOF CURB. PROVIDE BIRDSCREEN FOR GRAVITY RELIEF VENTILATOR. 20"X16' FRESH AIR DUCTWORK WITH MOTORIZED CONTROL DAMPER DOWN TO FLOOR BELOW.
- 2. 3" VERTICAL CONCENTRIC VENT TERMINATION TERMINATES AT 14" INSULATED ROOF CURB AT ROOF. INSTALL TERMINATION PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.

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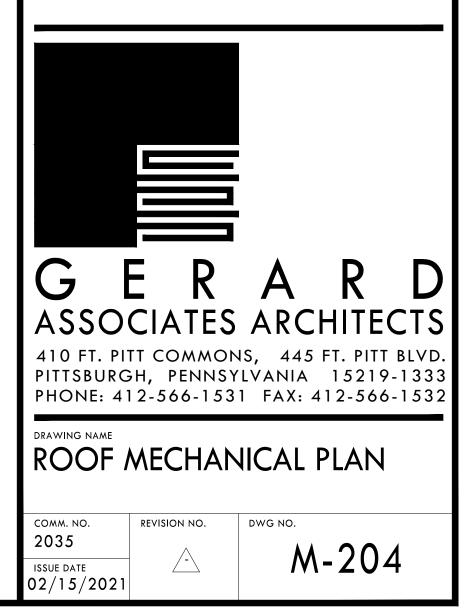
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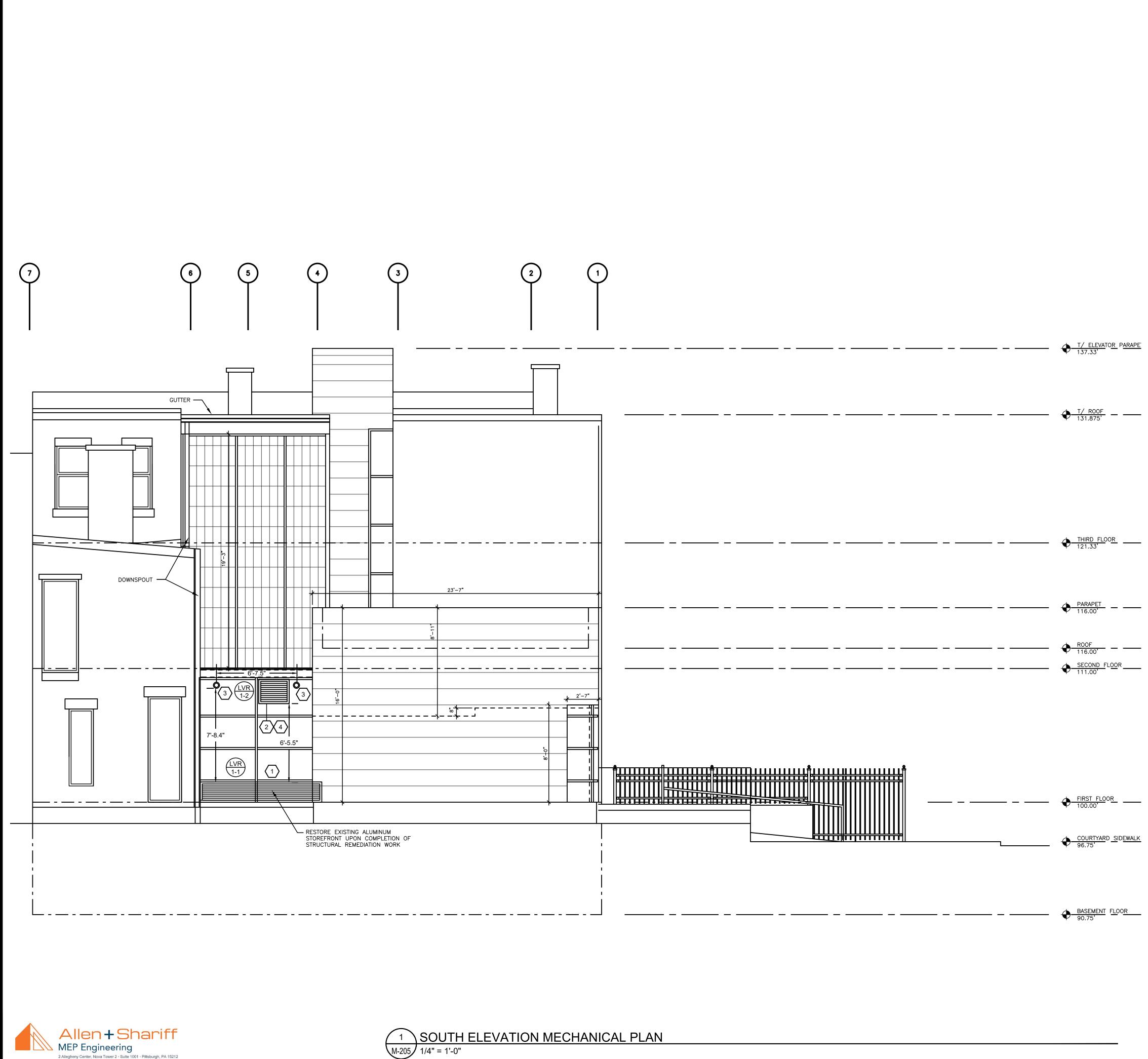
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





ASE JOB #2041090

#### MECHANICAL GENERAL NOTES:

- 1. MC SHALL VERIFY EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND GRILLES, REGISTERS AND DIFFUSERS IN FIELD PRIOR TO BID. MC SHALL VERIFY EQUIPMENT IS IN GOOD WORKING ORDER AND THAT ANY COMPONENTS OF EQUIPMENT THAT REQUIRE REPLACEMENT ARE REPLACED PRIOR TO RE-INSTALLATION. EXISTING GRILLES, REGISTERS AND DIFFUSERS TO REMAIN SHALL BE CLEANED OF DUST AND DEBRIS PRIOR TO FINAL RE-INSTALLATION AND EQUIPMENT STARTUP.
- 2. ALL MECHANICAL EQUIPMENT, SENSORS AND DAMPERS LOCATED ABOVE HARD CEILINGS OR WITHIN WALLS SHALL BE PROVIDED WITH ACCESS PANELS SIZED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SUCH THAT THE FULL REMOVAL OF THE EQUIPMENT AND/OR DAMPER IS POSSIBLE. PROVIDE RATED ACCESS PANELS FOR ALL ACCESS PANELS LOCATED WITHIN RATED CEILINGS OR WALLS. ACCESS DOORS SHALL BE TAMPER AND VANDAL PROOF.
- 3. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
- 4. MC SHALL COORDINATE WITH GC TO PATCH ALL EXISTING TO REMAIN WALL, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING MATERIAL AT ALL DEMOLISHED PIPE, DUCT, AND MECHANICAL SYSTEMS RELATED PENETRATIONS.
- 5. MC SHALL COORDINATE WITH GC TO VERIFY FINAL LINTEL SIZE REQUIREMENTS FOR STRUCTURAL PENETRATIONS REQUIRING LINTELS. FINAL LINTEL SIZE SHALL BE VERIFIED TO MATCH DIMENSIONS OF MECHANICAL CONTRACTOR'S APPROVED DUCT SHOP DRAWINGS.
- 6. CONDENSATE DRAIN PIPING SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED TOWARDS POINT OF TERMINATION.
- 7. COMBUSTION AIR AND FLUE PIPING FOR GAS FIRED EQUIPMENT SHALL BE SLOPED NO LESS THAN 1/4" PER LINEAL FOOT OF HORIZONTAL RUN. PIPING SHALL BE SLOPED BACK TOWARDS GAS FIRED EQUIPMENT.

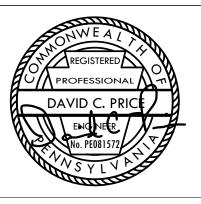
#### MECHANICAL KEY NOTES: (#)

- 1. NEW LOUVER LVR1-1 SHALL BE INSTALLED IN LOWER SECTION OF EXISTING STOREFRONT WINDOW. FINAL SIZE OF LOUVER SHALL BE COORDINATED TO MATCH DIMENSIONS OF EXISTING LOWER SECTION OF STOREFRONT WINDOW. PROVIDE BIRDSCREEN AT LOUVER.
- 2. NEW LOUVER LVR1-2 SHALL BE INSTALLED IN LOWER SECTION OF EXISTING STOREFRONT WINDOW. FINAL HEIGHT OF LOUVER SHALL BE COORDINATED TO MATCH DIMENSIONS OF EXISTING LOWER SECTION OF STOREFRONT WINDOW. PROVIDE BIRDSCREEN AT LOUVER.
- 3. 3" COMBUSTION AIR AND VENT FLUE PIPING TERMINATES AT EXTERIOR WALL VIA 4" CONCENTRIC VENT TERMINATION. INSTALL TERMINATION PER THE MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS.
- 4. RELIEF AIR LOUVER LVR1-2 SHALL BE INSTALLED NO LESS THAN 3 FEET ABOVE TOP OF LOUVER LVR1-1. PROVIDE MOTORIZED DAMPER AT LOUVER AND PROVIDE BIRDSCREEN AT DUCT OPENING TO OCCUPIED SPACE.

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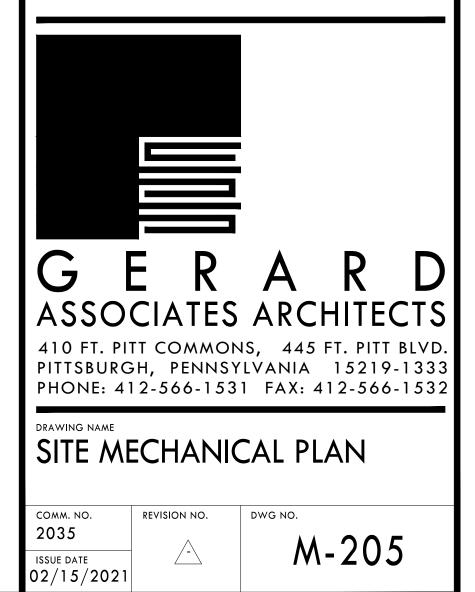
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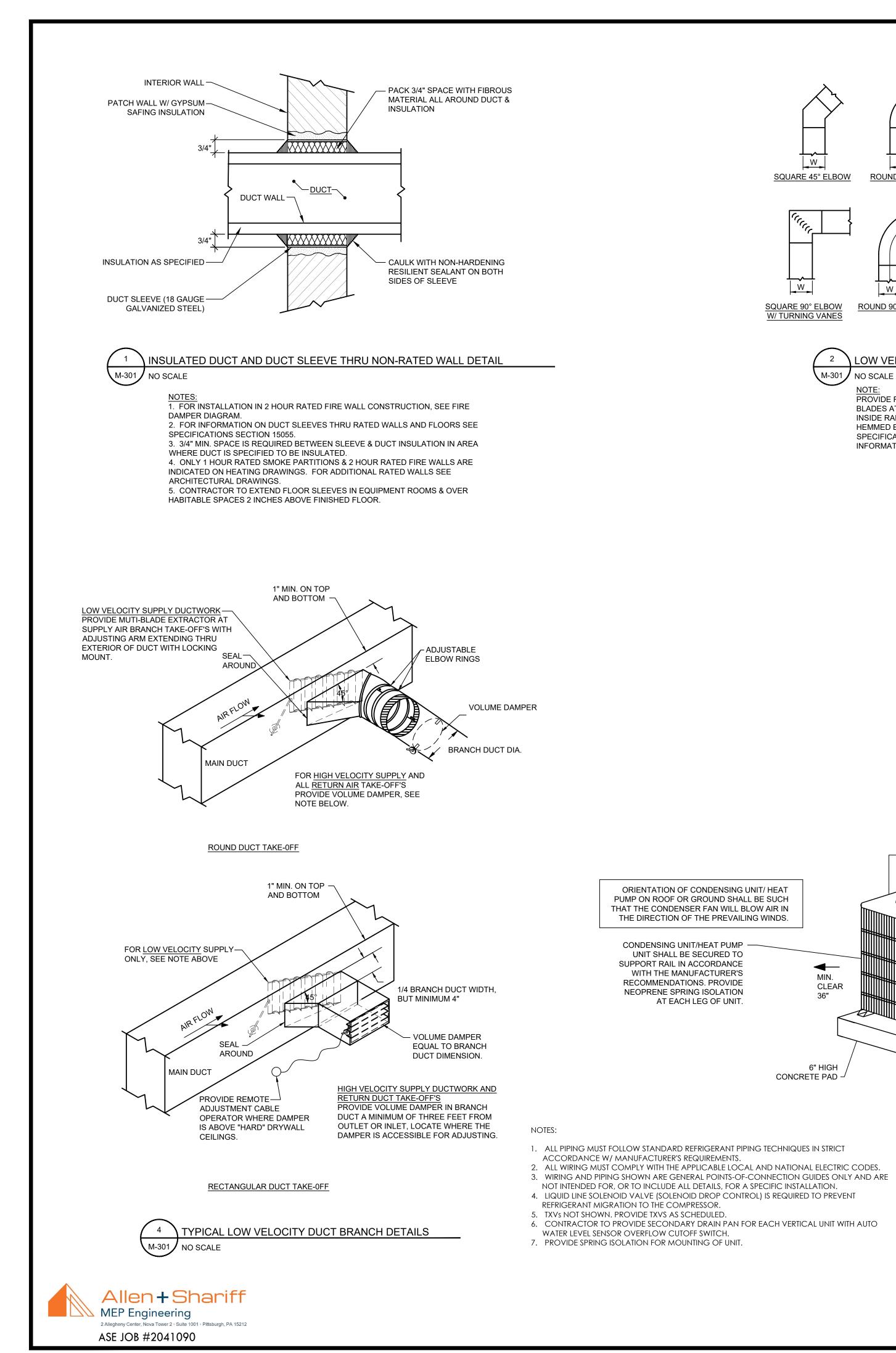
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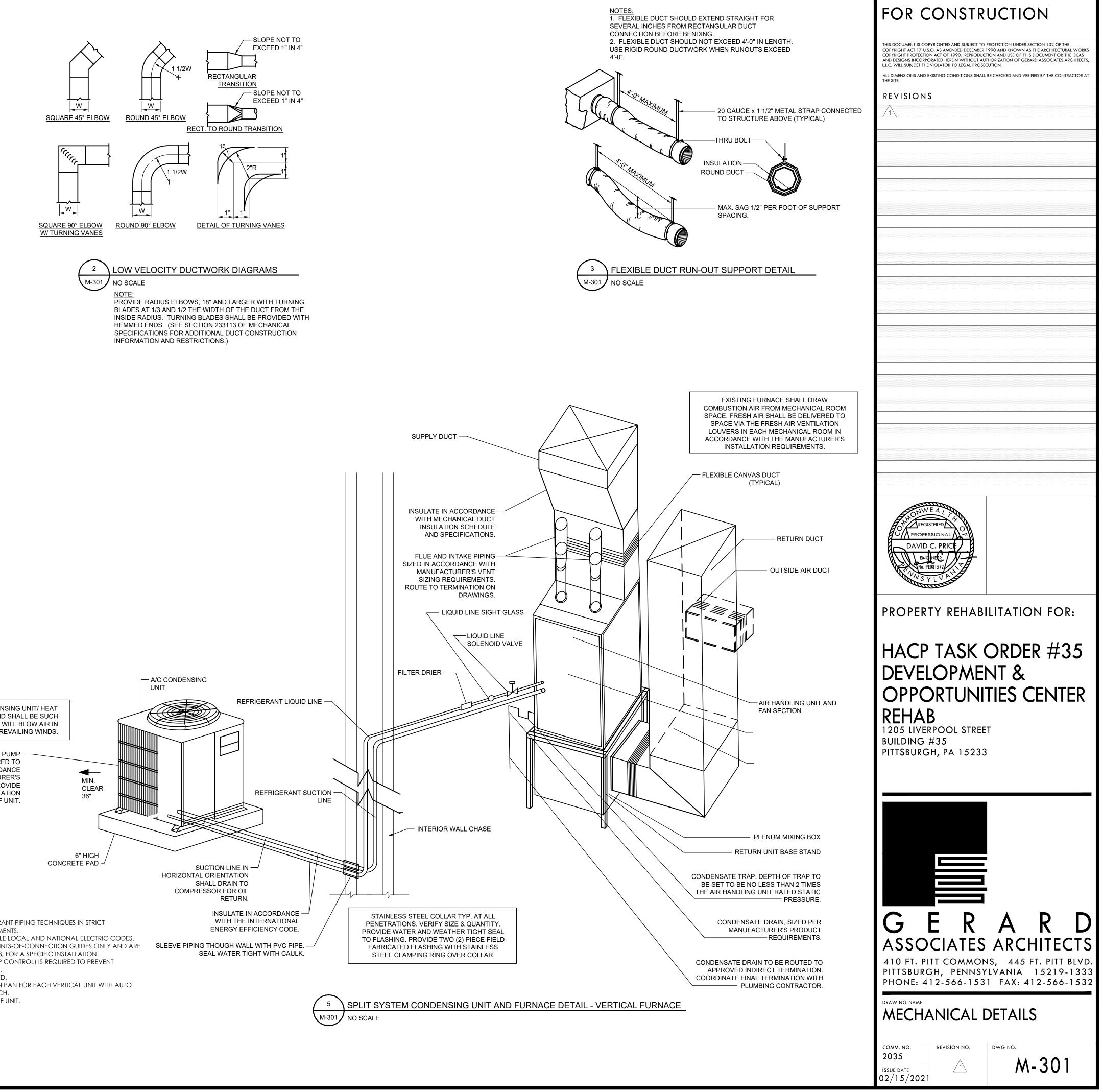


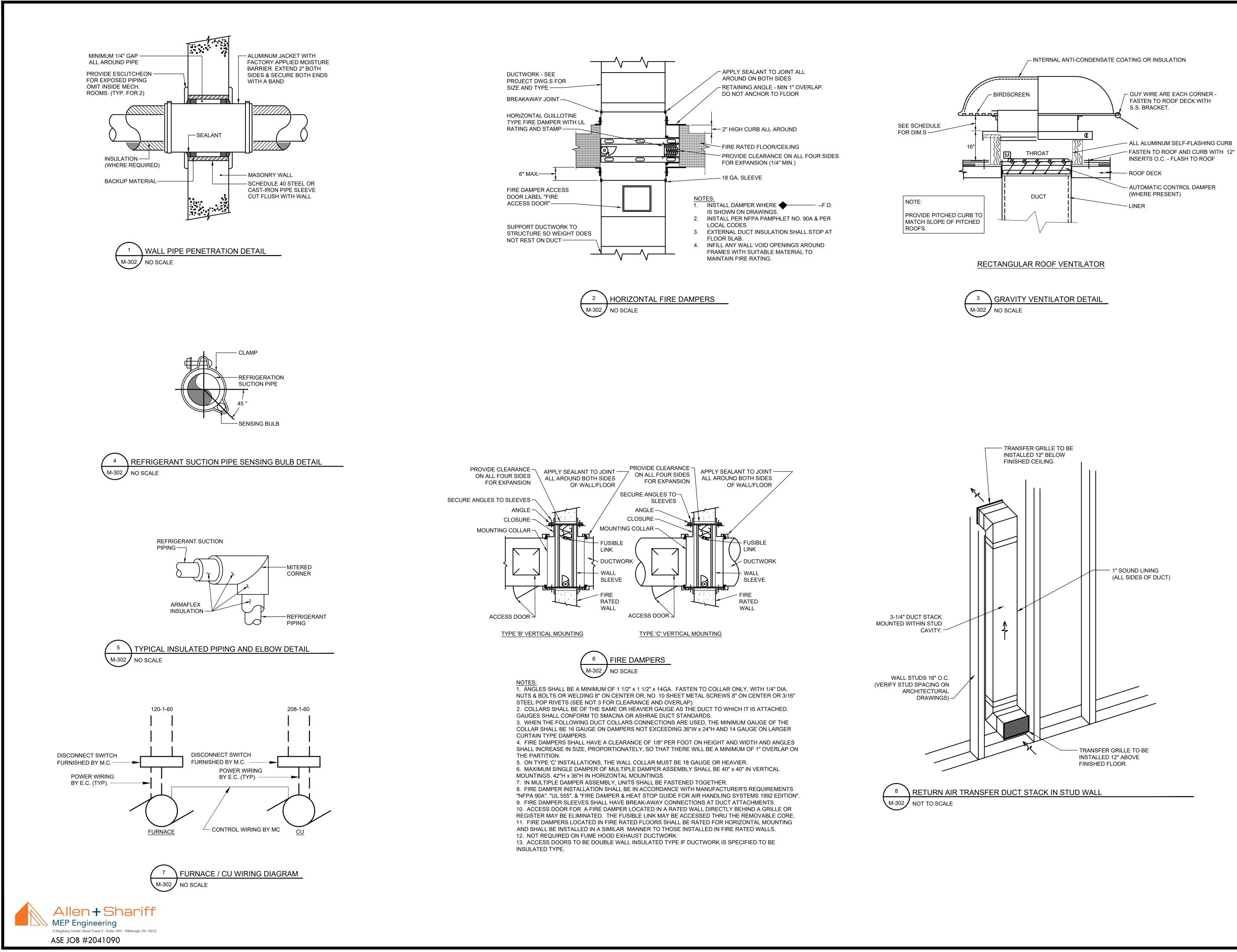
PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





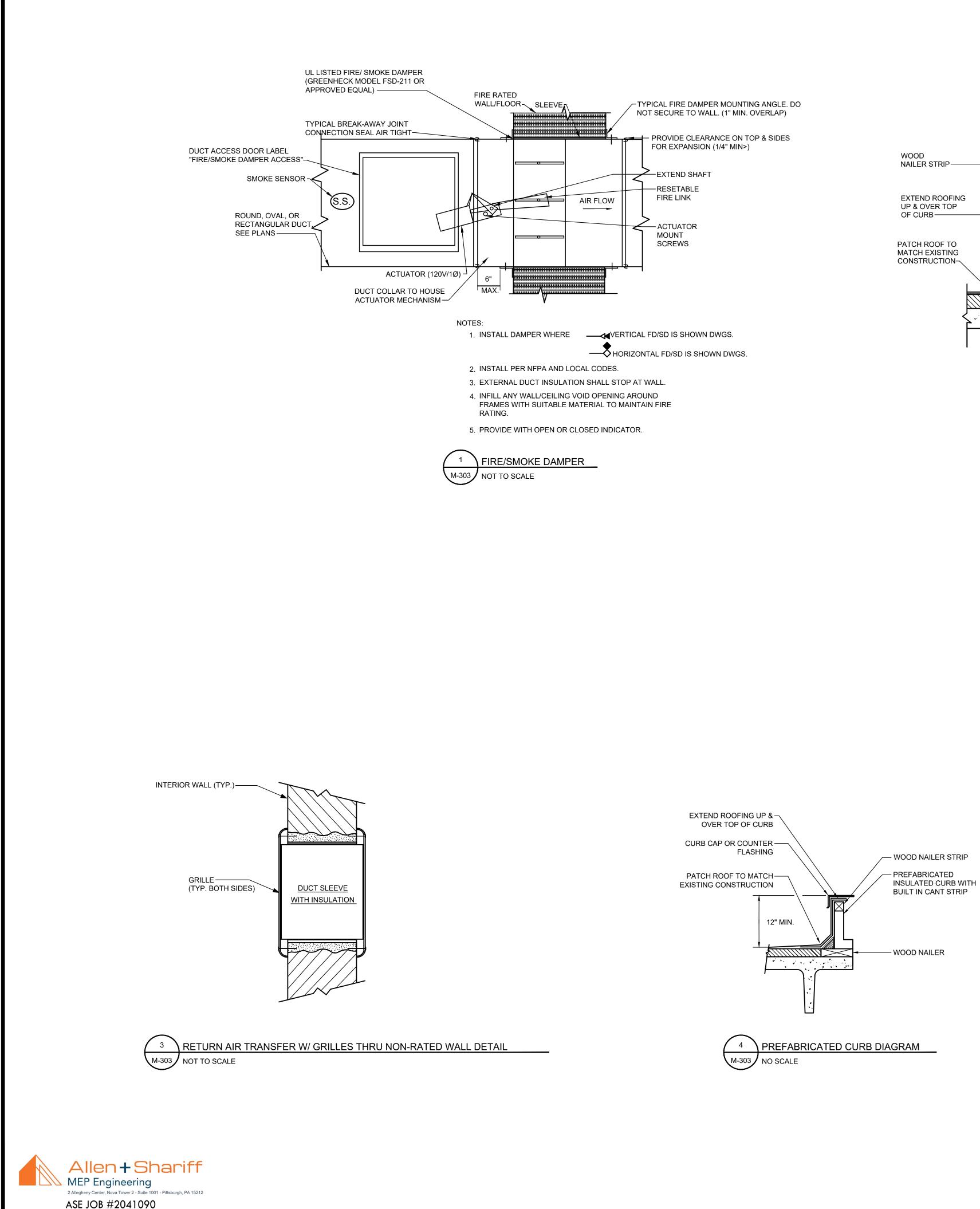


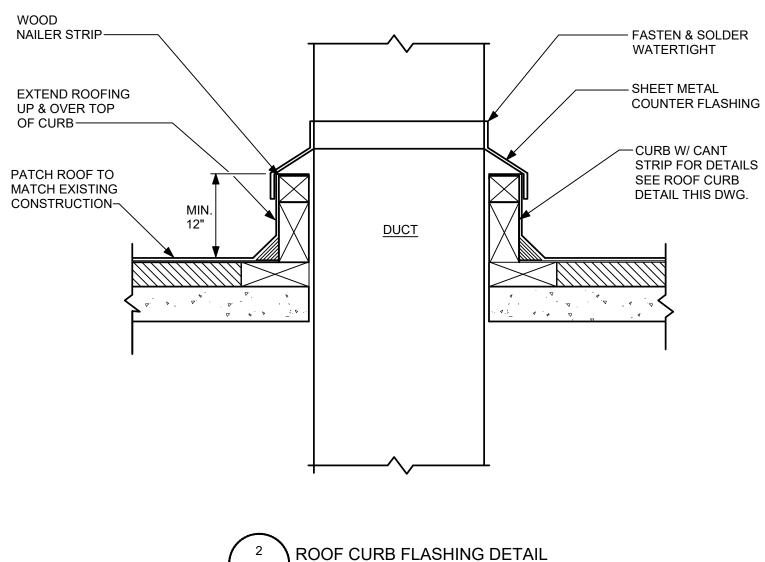


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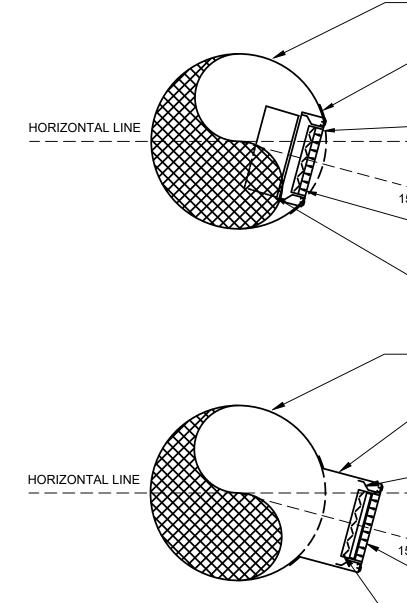


02/15/2021





M-303 / NOT TO SCALE





-ROUND SUPPLY DUCT SEE PLAN FOR SIZE

-SECURE GRILLE TO DUCT AIRTIGHT

- SUPPLY GRILLE FOR DETAILS SIZE

-ROUND SUPPLY DUCT SEE PLAN FOR SIZE

—16 GA. BOOT WITH 45 DEGREE TAKEOFF, SECURE TO DUCT AIRTIGHT

- TURN BOOT COLLAR IN TO PROVIDE SMOOTH AIR FLOW TO GRILLE

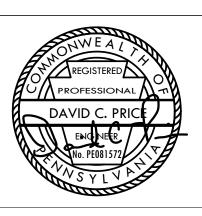
-DOUBLE DEFLECTION SUPPLY AIR GRILLE

- OPPOSED BLADE DAMPER

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PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**

REHAB 1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233



\_\_\_\_

ISSUE DATE

02/15/2021

		SUPPLY	FAN DA	ΓA				HEAT	ING CAPACI	ΤY			DX COOLING COIL				ELECTRICAL DATA										
UNIT DES.	SUPPLY CFM	MAX OA CFM	E.S.P. IN. WG	RPM	HP	FUEL TYPE	STAGES	INPUT MBH	OUTPUT MBH	EAT DB DEG F.	LAT DB DEG F.	AFUE	DX COIL MODEL		LAT WB DEG F.				TOTAL MBH	SEER	VOLTS/PH	FLA	МОСР	MODEL	WEIGHT	BASIS OF DESIGN	REMARKS
FCUB-1	2000	397	1.0	-	1.0	NAT. GAS	1	110.0	107.2	56.5	105.2	96%	CX35-60C-F	76.9	64.4	55.0	54.0	47.5	58.3	14.5	120V/1PH.	11.5	15.0	ML196UH110XE60C	177 LBS.	LENNOX	1 THRU 12
FCUB-2	2000	271	1.0	-	1.0	NAT. GAS	1	110.0	107.2	60.8	109.5	96%	CX35-60C-F	76.0	63.6	55.0	54.0	45.4	56.3	14.5	120V/1PH.	11.5	15.0	ML196UH110XE60C	177 LBS.	LENNOX	1 THRU 12
FCU3-1	2030	182	1.0	-	1.0	NAT. GAS	1	110.0	107.2	63.9	111.9	96%	CX35-60C-F	75.3	62.9	55.0	54.0	44.6	55.6	14.5	120V/1PH.	11.5	15.0	ML196UH110XE60C	177 LBS.	LENNOX	1 THRU 12

1. PROVIDE APPROPRIATE CLEARANCE TO COMBUSTIBLES.

2. PROVIDE (2) NEW 3/4" CONDENSATE DRAINS. PROVIDE HORIZONTAL DRAIN PAN BENEATH UNIT WITH AUTO WATER LEVEL SENSOR CUTOFF DEVICE. 3. PROVIDE NEW MERV 8 FILTER AND FILTER RACK FOR RETURN AIR INLET.

4. PROVIDE NEW VIBRATION ISOLATION PADS.

5. PROVIDE THERMAL EXPANSION VALVE (TXV).

6. PROVIDE PRESSURE SWITCH. 7. PROVIDE FLUE CONDENSATE TRAP ASSEMBLY.

8. PROVIDE GAS CONTROL VALVE.

9. PROVIDE CONCENTRIC VENT TERMINATION KIT.

10. REMOTE OUTDOOR TEMPERATURE SENSOR AND HUMIDITY SENSOR FOR ECONOMIZER OPERATION. 11. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT.

12. PROVIDE HIGH PERFORMANCE ECONOMIZER OPTION.

AIR COC	DLED CONDEN	SING UN	IT SCHE	DULE															
UNIT	SERVES	STAGES	NOM CAPA	IINAL ACITY	COOLING EFF.	HEAT	NOM. CONN.	EAT D	DEG F.	ELEC	TRICAL		REFRIGERA	NT LINESET	SOUND PRESS.		MANUF.	MODEL	REMARKS
DES.	3LIVE3	NO. OF	COOL MBTUH	HEAT MBTUH	SEER	СОР	CAP. %	COOL -ING	HEAT -ING	VOLTS/PH.	MCA	rfs	SUCTION	LIQUID	DBA	WEIGHT	MANOT.	WODEL	ILMARKS
CUB-1	FCUB-1	1	60	N/A	14.0	N/A	97.1	89	N/A	208V/1PH.	34.8	60	1-1/8"	3/8"	80	238	LENNOX	ACX14060-230-1	1 THRU 17
CUB-2	FCUB-2	1	60	N/A	14.0	N/A	93.8	89	N/A	208V/1PH.	34.8	60	1-1/8"	3/8"	80	238	LENNOX	ACX14060-230-1	1 THRU 17
CU3-1	FCU3-1	1	60	N/A	14.0	N/A	92.7	89	N/A	208V/1PH.	34.8	60	1-1/8"	3/8"	80	238	LENNOX	ACX14060-230-1	1 THRU 17

1. MCA - MINIMUM CIRCUIT AMPACITY, RFS - RECOMMENDED FUSE SIZE, MFS- MAXIMUM FUSE SIZE

2. PROVIDE DISCONNECT. 3. MOUNT UNIT ON 6" CONCRETE OUTDOOR PAD WITH EQUIPMENT SUPPORT RAIL AND VIBRATION ISOLATION PADS.

4. PROVIDE LIQUID LINE SOLENOID VALVE KIT. 5. PROVIDE LONG LINE APPLICATION KIT FOR REFRIGERANT LINE RUNS GREATER THAN 80 FEET IN TOTAL LENGTH.

6. FREEZE PROTECTION KIT.

7. LOW AMBIENT KIT.

8. FILTER DRIER.

9. HIGH AND LOW PRESSURE SWITCHES. 10. THERMOSTATIC EXPANSION VALVE.

11. BRASS SUCTION AND LIQUID SERVICE VALVES WITH SWEAT CONNECTIONS AND SERVICE PORTS.

12. CRANKCASE HEATER. 13. COMPRESSOR SOUND JACKET.

14. PROVIDE FUSED DISCONNECT.

15. SIGHT GLASS.

16. HARD START KIT.

17. REMOTE OUTDOOR TEMPERATURE SENSOR AND HUMIDITY SENSOR FOR ECONOMIZER OPERATION.

PIPE INSULATION T	HICKNESS SCH	IEDULE						THERMAL
	INSULATION	CONDUCTIVITY		NOMINAL PI				
FLUID OPERATING TEMPERATURE AND USAGE (°F)	CONDUCTIVITY BTU·IN.(h·ft <sup>2</sup> ·°F)	MEAN RATING TEMPERATURE (°F)	< 1	1 to < 1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub> < 4	4 to < 8	≥8	SYSTE
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0	DUCT
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5	DUCT
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0	DUCT
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0	DUCT
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5	DUCT
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0	DUCT
40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5	DUCT

REMARKS:

PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE ABOVE (IECC 2015 TABLE C403.2.10) WITH THE FOLLOWING EXCEPTIONS: 1. FACTORY-INSTALLED PIPING WITHIN HVAC EQUIPMENT TESTED AND RATED IN ACCORDANCE WITH A TEST PROCEDURE REFERENCED

BY THIS CODE. 2. FACTORY-INSTALLED PIPING WITHIN ROOM FAN-COILS AND UNIT VENTILATORS TESTED AND RATED ACCORDING TO AHRI 330 (EXCEPT THAT THE SAMPLING AND VARIATION PROVISIONS OF SECTION 6.5 SHALL NOT APPLY) AND AHRI 840, RESPECTIVELY.

3. PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60°F AND 105°F. 4. PIPING THAT CONVEYS FLUIDS THAT HAVE NOT BEEN HEATED OR COOLED THROUGH THE USE OF FOSSIL FUELS OR ELECTRIC POWER. 5. STRAINERS, CONTROL VALVES, AND BALANCE VALVES ASSOCIATED WITH PIPING 1 INCH OR LESS IN DIAMETER.

6. DIRECT BURIED PIPING THAT CONVEYS FLUIDS AT OR BELOW 60°F.



					SMAC	NA CLASS			
SYSTEM	SYSTEM- LOCATION	OPERATING TEMPERATURE	MATERIAL	TYPE	THICKNESS IN.S	DENSITY LB/CU. FT.	INSTALLED "R" VALUE/ CONDUCTIVITY	JACKET	REMARK
DUCT	SUPPLY AIR DUCT - INDOOR CONCEALED, ACCESSIBLE,	40-120	MINERAL-FIBER	BLANKET	2.0"	0.75	5.0	FSK	1, 5
DUCT	SUPPLY AIR DUCT - INDOOR CONCEALED, INACCESSIBLE	40-120	MINERAL-FIBER	BOARD	1.5 "	2.25	6.5	FSK	2
DUCT	SUPPLY AIR DUCT - INDOOR EXPOSED	40-120	MINERAL-FIBER	LINER	1.0"	4.0	4.3	-	8
DUCT	RETURN AIR DUCT - INDOOR CONCEALED	40-120	MINERAL-FIBER	LINED	1.0 "	2.25	4.0	-	2
DUCT	RETURN AIR DUCT - INDOOR EXPOSED	40-120	MINERAL-FIBER	LINED	1.0 "	2.25	4.0	-	8
DUCT	TRANSFER AIR DUCT - INDOOR	40-120	MINERAL-FIBER	LINED	1.0 "	2.25	4.0	-	8
DUCT	EXHAUST DUCT WITHIN 10 FEET OF EXTERIOR OPENING - INDOOR	40-120	MINERAL-FIBER	BOARD	1.0 "	2.25	4.3	FSK	7
DUCT	OUTSIDE AIR DUCT - INDOOR	0-100	MINERAL-FIBER	BOARD	3.0 "	2.25	12.0	FSK	7
PIPING	REFRIGERANT - CONDITIONED SPACE	40-60	MINERAL-FIBER	PRE-MOLDED				ASJ+SSL	6
PIPING	REFRIGERANT - UNCONDITIONED SPACE	40-60	MINERAL-FIBER WICKING	PRE-MOLDED	REFER TO F	PIPING INSULAT SCHEDULE	ION THICKNESS	ASJ+SSL	6
PIPING	COLD CONDENSATE DRAIN - INDOOR, ONLY ON METAL PIPE	40-60	MINERAL-FIBER	PRE-MOLDED	1			ASJ+SSL	7
PIPING	OUTDOOR PIPING EXPOSED TO FREEZING (HEAT TRACED PIPE)	40-100	MINERAL-FIBER	PRE-MOLDED	1			ALUM.	

CONCEALED, ACCESSIBLE LOCATIONS - ABOVE LAY-IN OR ACCESSIBLE CEILINGS, ACCESSIBLE MECHANICAL SHAFTS. 2. CONCEALED, INACCESSIBLE LOCATIONS - ABOVE HARD CEILINGS, (DRY WALL, PLASTER), MECHANICAL SHAFTS, BEHIND WALLS.

3. FOR DUCTS LOCATED OUTDOORS PROVIDE WATERPROOF CONSTRUCTION WITH WATER & UV RESISTANT MASTIC ON ALL JOINTS. INTERNALLY LINE WITH ACOUSTICAL DUCT LINER. CROSS-BREAK TOP TO SHED WATER. 4. CONSTRUCT PER NFPA 96 STANDARDS FOR KITCHEN EXHAUST. WHERE LOCATED WITH 3" OF COMBUSTIBLE PROTECT COMBUSTIBLE MATERIALS, WRAP EXTERIOR WITH FIRE RESISTANT INSULATION. 5. DO NOT INSULATE:

- MAKE-UP AIR DUCTWORK OPERATING AT SURROUNDING AMBIENT CONDITIONS - TRANSFER AIR DUCTWORK (ACOUSTICALLY LINE DUCT)

- EXPOSED SUPPLY DUCTWORK LOCATED IN CONDITIONED SPACE. (DOES NOT INCLUDE RETURN AIR PLENUM)

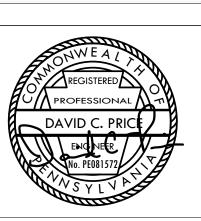
6. COVER ALL EXPOSED PIPING LOCATED BELOW 7' 0" ABOVE FINISHED FLOOR WITH PVC JACKET. 7. MULTIPLE INSULATION METHODS MAY BE USED TO ACHIEVE THE TOTAL REQUIRED R-VALUE.

8. DUCTWORK SHALL BE PAINTED WHERE EXPOSED OR VISIBLE TO OCCUPANTS. COLOR TO BE SELECTED BY ARCHITECT.

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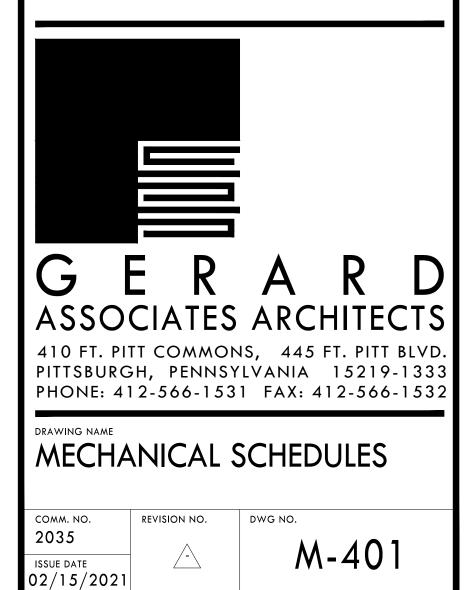
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**PROPERTY REHABILITATION FOR:** 

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



TAG	TYPE	ĸw	ELEC. VOLT/PH	AMPS	BASIS OF DESIGN	MODEL	REMARKS
EWH B-1	WALL	3.0	208/1	14.5	BERKO	FRA4024F	2,3,4,5
EWH 1-1	WALL	3.0	208/1	14.5	BERKO	FRA4024F	1,3,4,5
EWH 2-1	WALL	3.0	208/1	14.5	BERKO	FRA4024F	2,3,4,5

TAG	MAKE/MODEL	MAX AIR FLOW CFM	INTAKE OR EXH.	SIZE			FREE AREA VEL.	P.D.	MATERIAL	FRAME	BLADE	FINISH/COLOR	NOTES
				W	Н	D	FPM	IN W.C.		TYPE	TYPE		
LVR1-1	POTTORFF EFD-245	2000	INTAKE	110" (FV)	20" (FV)	2"	900	0.08	ALUMINUM	CHANNEL, DRAINABLE HEAD	45 DEG.	BY ARCHITECT	1
LVR1-2	POTTORFF EFD-245	2000	RELIEF	30"	24"	2"	950	0.08	ALUMINUM	CHANNEL, DRAINABLE HEAD	45 DEG.	BY ARCHITECT	1
LVR3-1	POTTORFF EFD-245	4000	RELIEF	60"	24	2"	950	0.08	ALUMINUM	CHANNEL, DRAINABLE HEAD	45 DEG.	BY ARCHITECT	1

REMARKS:

1. FULLY RECESSED ELECTRIC WALL HEATER.

2. SURFACE MOUNTED ELECTRIC WALL HEATER. 3. INTEGRAL DISCONNECT.

4. TAMPER PROOF COVER.

5. INTEGRAL THERMOSTAT.

VENTILATION SCHEDULE (PHASE I)

AIR ANDLING	AREA SERVED	SPACE DESIGNATION	AREA RATE			PEOPLE RATE				TOTAL REQ'D VENT @ ROOM	VENT EFFECTIVENES	TOTAL REQ'D VENT @ AHU	REMARKS
UNIT			AREA (SQFT)	REQ'D VENT (CFM/SQFT)	REQ'D VENT (CFM)	PEOPLE	REQ'D VENT (CFM/PERSON)	DIVERSITY	REQ'D VENT (CFM)	(CFM)	S (%)	INLET (CFM)	
	000 MECHANICAL ROOM	MECHANICAL ROOM	197	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	001/010 STORAGE/CORRIDOR	CORRIDOR	162	0.06	10	0	0.0	1.0	0	10	0.8	12.2	
	001A - ELECTRICAL PANEL AREA	ELECTRICAL EQUIPMENT AREA	287	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	002 DATA ROOM	ELECTRICAL EQUIPMENT AREA	103	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	005 ELEVATOR MECHANICAL ROOM	ELECTRICAL EQUIPMENT AREA	40	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	100 ENTRY VESTIBULE	VESTIBULE	36	0.0	0	0	0.0	1.0	0	0	0.8	0.0	
	102 RESOURCE CENTER	OFFICE	645	0.06	39	6	5.0	1.0	32	71	0.8	88.7	
	202 TRAINING	LECTURE CLASSROOM	687	0.06	41	25	7.5	1.0	188	229	0.8	285.9	
	205 ELEVATOR LOBBY	CORRIDOR	142	0.06	9	0	0.0	1.0	0	9	0.8	10.7	
												397.4	TOTAL FOR FCUE
	106 COMPUTER ROOM	COMPUTER (NOT PRINTING)	413	0.06	25	2	5.0	1.0	10	35	0.8	43.9	
	007 STORAGE	STORAGE - DRY MATERIALS	150	0.12	18	0	0.0	1.0	0	18	0.8	22.5	
	006 STORAGE	STORAGE - DRY MATERIALS	141	0.12	17	0	0.0	1.0	0	17	0.8	21.1	
	011 STORAGE	STORAGE - DRY MATERIALS	203	0.12	24	0	0.0	1.0	0	24	0.8	30.4	
	105 ELEVATOR LOBBY	CORRIDOR	150	0.06	9	0	0.0	1.0	0	9	0.8	11.3	
	107 TOILET	RESTROOM	115	-	-	0	0.0	1.0	0	-	-	150 CFM CONTINUOUS EXHAUST	EXHAUST - EXISTING
	108 KITCHENETTE	BREAK ROOM	72	0.12	9	4	5.0	1.0	18	27	0.8	33.3	
	110A OFFICE	OFFICE	177	0.06	11	1	5.0	1.0	4	15	0.8	18.8	
	110B OFFICE	OFFICE	293	0.06	18	1	5.0	1.0	7	25	0.8	31.1	
	207 TOILET	RESTROOM	155	-	-	0	0.0	1.0	0	-	-	150 CFM CONTINUOUS EXHAUST	EXHAUST - EXISTING
	208 CORRIDOR	CORRIDOR	28	0.06	2	0	0.0	1.0	0	2	0.8	2.1	
	210 KITCHENETTE	BREAK ROOM	157	0.12	19	8	5.0	1.0	39	58	0.8	72.6	
	211 ADMINISTRATIVE OFFICE	OFFICE	263	0.06	16	1	5.0	1.0	7	22	0.8	27.9	
												271.2	TOTAL FOR FCU
	302 BUSINESS INCUBATER	OFFICE	674	0.06	40	10	5.0	1.0	50	90	0.8	113.1	
	305 ELEVATOR LOBBY	CORRIDOR	165	0.06	10	0	0.0	1.0	0	10	0.8	12.4	
	307 WORKROOM	OFFICE	430	0.06	26	4	5.0	1.0	20	46	0.8	57.3	
												182.7	TOTAL FOR FCU

REMARKS: 1. CALCULATIONS WERE PERFORMED BASED ON IMC-2015 SECTIONS 402 & 403. MINIMUM OA FOR FURNACE UNITS ARE SCHEDULED ON M-401 EXCEPT FOR EXISTING ROOFTOP UNIT, FOR WHICH IT HAS BEEN ASSUMED THAT AVAILABLE FRESH AIR VOLUME FOR THE EXISTING UNIT IS NO GREATER THAN 20% OF THE DESIGN SUPPLY FLOW.



1. PROVIDE BIRD SCREEN ON INSIDE FACE OF LOUVER.

GRILLE, REGISTER & DIFFUSER SCHEDULE (PHASE 1)										
TAG	FACE SIZE (SLOT WIDTH)	# SLOTS/ BAR, GRID SPACE	DEFLECTION/ THROW	CONN. SIZE	MAX CFM	P.D. IN. W.C.	MAX. NC	BASIS OF DESIGN	MODEL	REMARKS
S-1	14/8	N/A	2-WAY	12/6	310	0.17	23	PRICE	520D	1,2,3
S-2	20/8	N/A	1-WAY	18/6	350	0.11	29	PRICE	LFG-15A	1,2,3,4,5,6
S-3	24/24	N/A	4-WAY	8"Ø	314	0.06	22	PRICE	SCD	1,2,3
RG-1	14/8	1/2"	0°	12/6	312	0.18	32	PRICE	530D	1,2,3
RG-2	16/14	1/2"	0°	14/12	749	0.14	33	PRICE	530D	1,2,3
RG-3	20/16	1/2"	0°	18/14	1120	0.14	35	PRICE	530D	1,2,3
RG-4	26/22	1/2"	0°	24/20	2000	0.12	33	PRICE	530D	1,2,3

REQUIREMENTS. 2. COLOR SELECTED BY ARCHITECT. HARD CEILING OR WALL. 4. HEAVY DUTY LINEAR FLOOR GRILLE. 5. PROVIDE INSULATED PLENUM BOX FOR SUPPLY DUCT CONNECTION.

TRANSFER AIR DUCT SCHEDULE							
DESIGNATION	DUCT SIZE	CFM RANGE	DETAIL				
T1	12 x 6	0-300	#8/M-302				
T2	24 x 12	0-1200	-				
Т3	24 x 12	0-1200	#3/M-303				
NOTES:		-	-				

 SIZING BASED ON 0.05"/100 FT. P.D. ~ 700 FPM
 REFER TO DETAIL FOR DUCT CONFIGURATION.
 PROVIDE 1" THICK ACOUSTICAL LINER. SINGE DEFLECTION RETURN GRILLE OF EQUAL SIZE (MODEL PRICE 530D).

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES AND MOUNTING

3. PROVIDE OPPOSED BLADE DAMPERS AT DIFFUSERS, GRILLES, OR REGISTERS IF INSTALLED IN

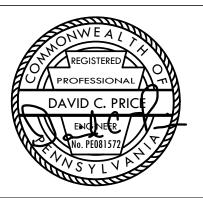
6. PROVIDE BUTTERFLY DAMPER AT ROUND SUPPLY DUCT OPENING.

4. EACH END OF TRANSFER DUCT SHALL BE EQUIPPED WITH LOUVERED

### FOR CONSTRUCTION

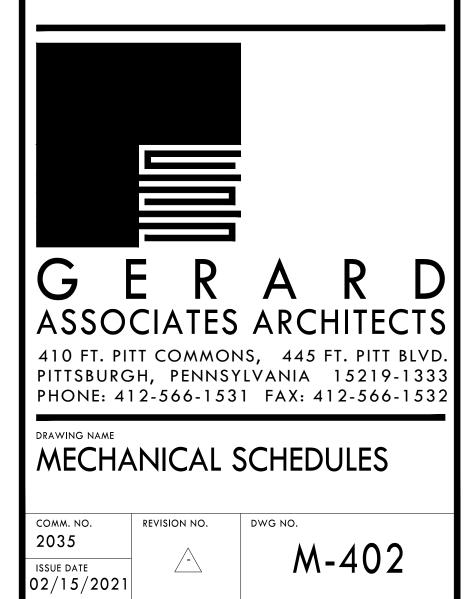
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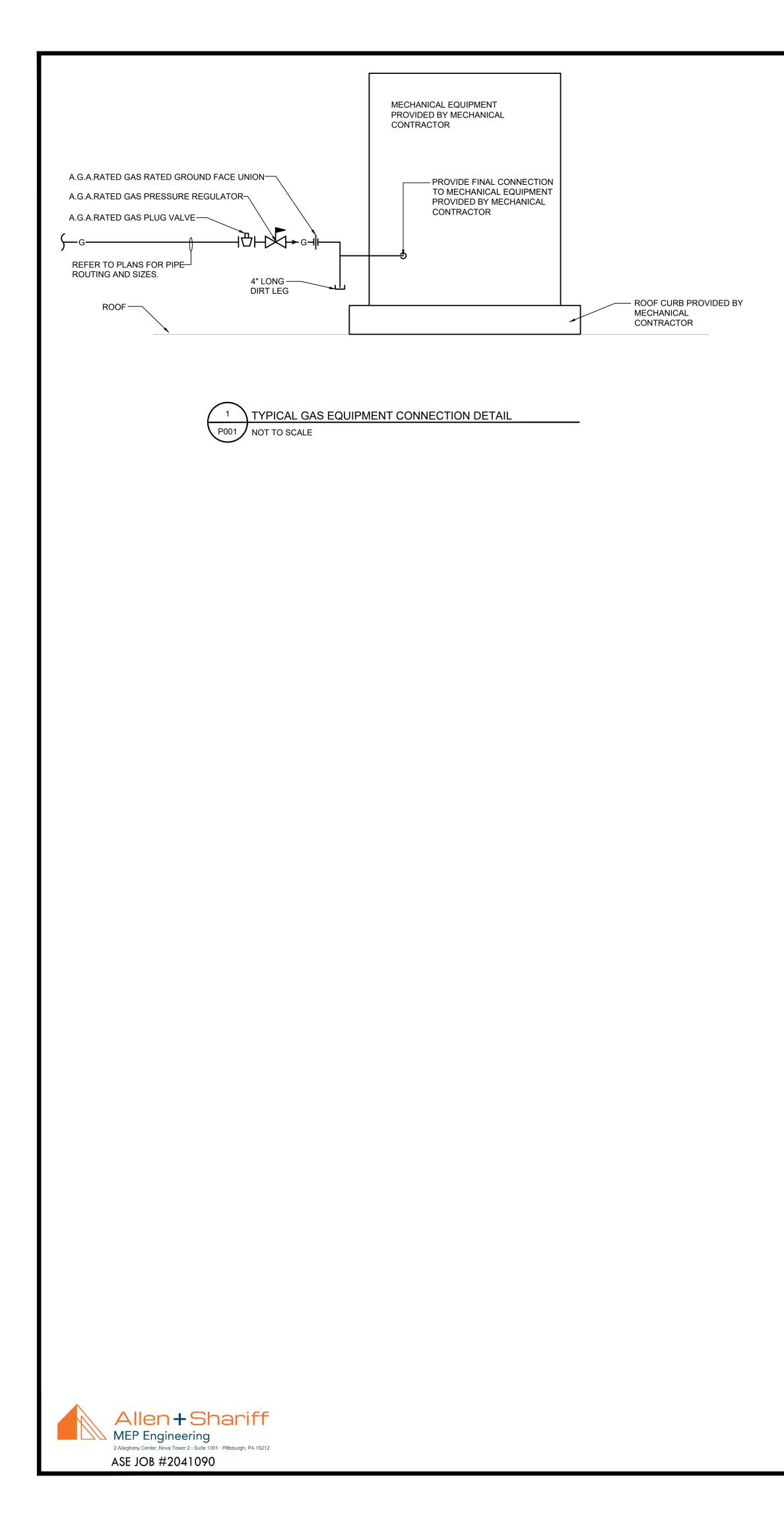
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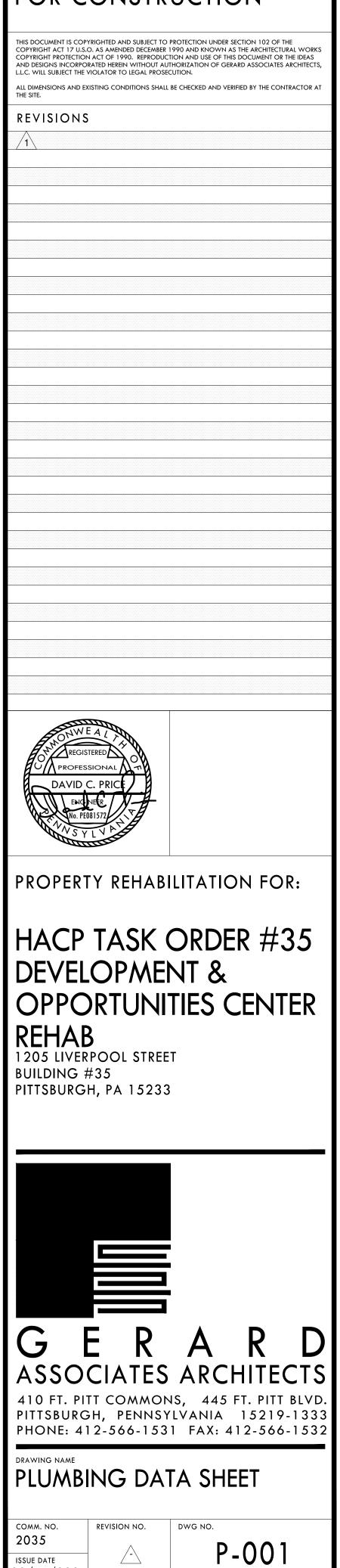
#### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



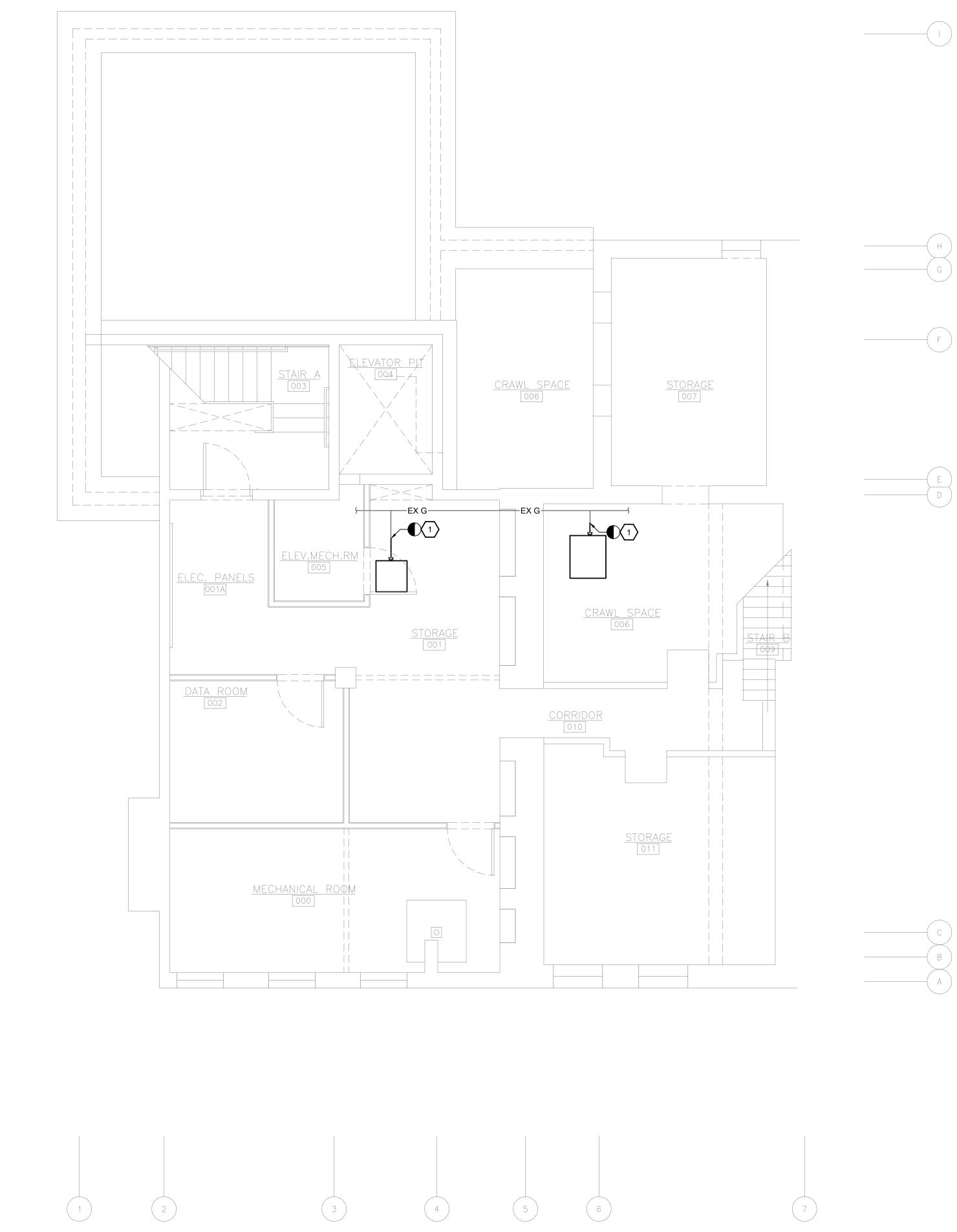


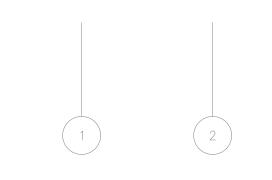
		PLUMBING	LEGEND		
SYMBOL	ABRV.	DESCRIPTION	SYMBOL	ABRV.	DESCRIPTION
\$SAN\$	SAN		<b>م</b>		PIPE UP
<b>۶</b>	KW	KITCHEN WASTE PIPING (TO GREASE INTERCEPTOR)	<b>ج</b>		PIPE DOWN
<b>۶−−−−−</b> ST <b>−−−−−⊀</b>	ST	STORM PIPING (PRIMARY)	<b>⊱ ≎ </b> ⊀		PIPE TEE DOWN
<b>۶−−−−−</b>	OD	SECONDARY / OVERFLOW DRAIN PIPING	<u>۶</u> ـــــا		PIPE UNION
\$V\$	V	VENT PIPING	<u>ب</u>		PIPE CAP
<b>۶</b>	CW	COLD WATER PIPING	8		PIPE TRAP
<b>۶</b> HW <b></b> ۲	HW	HOT WATER PIPING	⊱∓⊰		BALL VALVE
<b>}</b>	HWR	HOT WATER RETURN PIPING	۶ـــــز		BALL VALVE OR SHUTOFF VALVE IN RISE
<b>۶−−−−−−</b> ۲₽ <b>−−−−−⊀</b>	TP	TRAP PRIMER PIPING	; <b>ب</b>		GLOBE VALVE
<b>⊱</b> G <b></b> \$	G	GAS PIPING (NATURAL OR PROPANE)	<del>۶</del>		BUTTERFLY VALVE
<b>5</b> FO <b>\$</b>	FO	FUEL OIL PIPING	нXH		GATE VALVE
<b>۶−−−−</b> \$	S	SPRINKLER PIPING	⊱- <del>√- ∖</del>		GAS COCK
<b>۶−−−−−−−−</b>	CD	CONDENSATE DRAIN PIPING		MV	MIXING VALVE
<u>ب</u>		PIPING ROUTED BELOW GRADE / SLAB			VACUUM RELIEF VALVE
ن ۲۰۰۰ EX (X) ۲۰۰۰	EX	(LINE TYPE INDICATES SERVICE TYPE UNO) EXISTING PIPING TO REMAIN -	 f	VB	VACUUM BREAKER
, E∧ (∧) , , RX (X)	RX	(X) DESIGNATES SERVICE EXISTING PIPING TO BE REMOVED -	بل		GAS SOLENOID VALVE
	КЛ	(X) DESIGNATES SERVICE	<u>ب</u> چھے		
			<b>⊱</b>	BV	
			۲ <b>۰</b>	PRV	
			HAH	PRV	
				CV	CHECK VALVE
			۶ <del>۰۱۰۵۲۰</del>		STRAINER
			£ A	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
			<u>5-77</u>	BFP	BACK FLOW PREVENTER
				PG	PRESSURE GAUGE
			<u>بال</u> بــــــــــــــــــــــــــــــــــــ		THERMOMETER
			<u>به با</u>		AQUASTAT
			<u>بط</u> ب		HOT WATER RECIRC. PUMP
			₹		INTERIOR HOSE BIBB OR HOSE END DRAIN VALVE
			+		EXTERNAL WALL HYDRANT
			<del>⊱</del> ∎×		DOMESTIC SHOCK ABSORBER/WATER HAMMER ARRESTER; TEXT DENOTES SIZE (PDI: A ~ F)
			<b></b> و	FCO	CLEAN OUT, FLOOR
			۱ ا	со	CLEAN OUT, EXPOSED
				FD	FLOOR DRAIN
			۲	RD	ROOF DRAIN
					FLOOR DRAIN WITH TRAP PRIMER
					FLOOR SINK/RECEPTOR WITH HALF GRATE
			ہولیہ لھے	OS&Y	OS&Y VALVE
			HAT I	T.S.	OS&Y VALVE WITH TAMPER SWITCH
			 		FIRE DEPARTMENT SIAMESE CONNECTION
			****		FIRE PUMP TEST HEADER
				FHV	FIRE HOSE VALVE CABINET
					INVERT ELEVATION B.F.F. (IN FEET) KITCHEN EQUIPMENT DESIGNATION; REFER TO
			××		KITCHEN EQUIPMENT DRAWINGS FOR DETAILS
					UTILITY METER
			•		CONNECT TO EXISTING
					DISCONNECT FROM EXISTING

## FOR CONSTRUCTION



02/15/2021









#### PLUMBING DEMOLITION GENERAL NOTES:

- 1. COORDINATE SERVICE SHUTDOWNS WITH BUILDING OWNER'S MAINTENANCE PERSONNEL AND UTILITY COMPANY.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY.

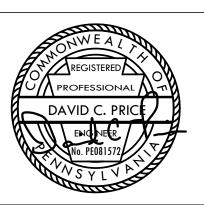
#### PLUMBING DEMOLITION KEY NOTES: (#)

1. REMOVE EXISTING GAS CONNECTION FROM MECHANICAL EQUIPMENT AND CAP.

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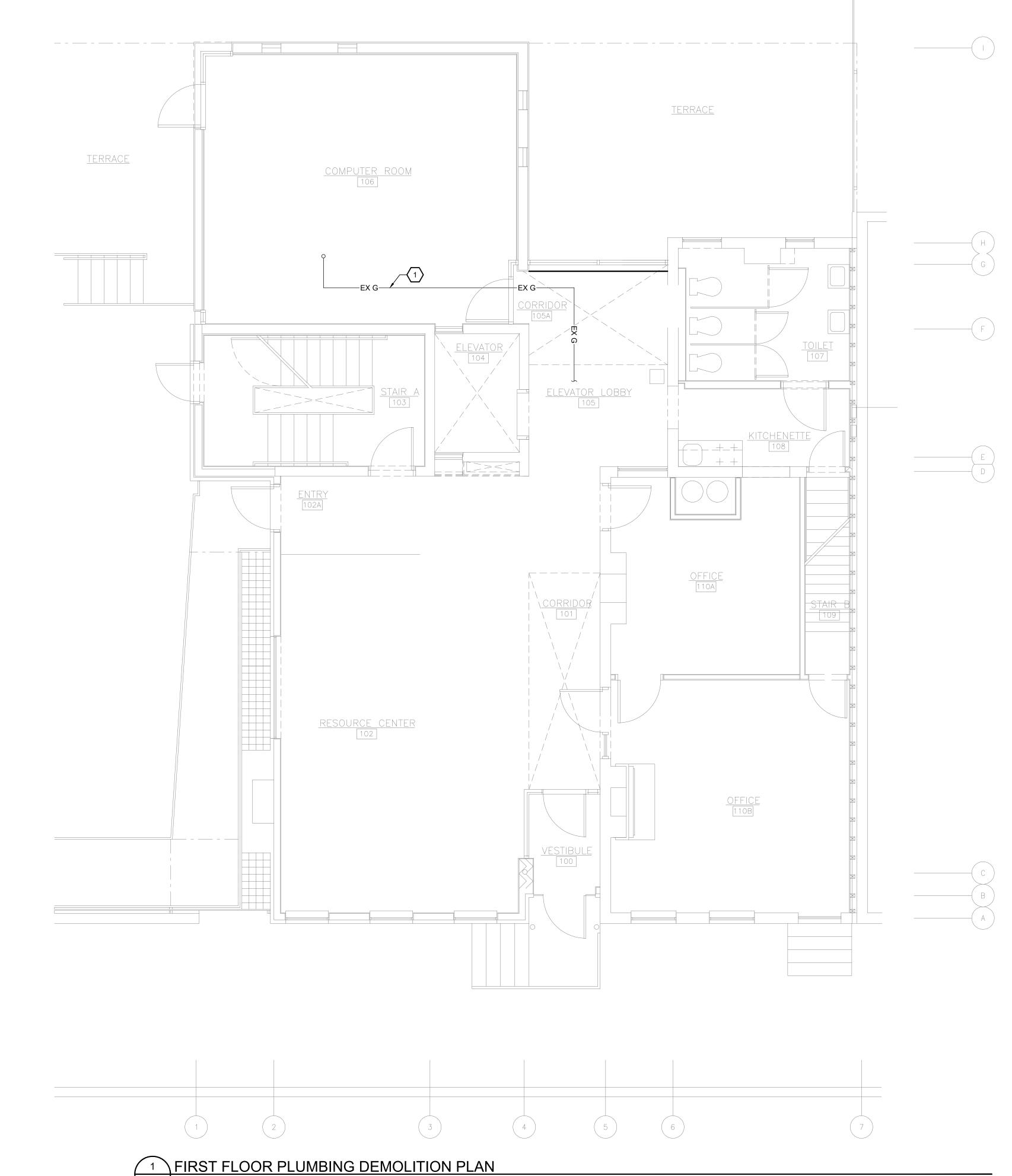
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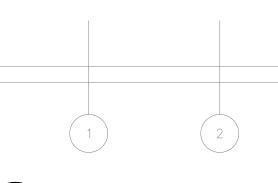


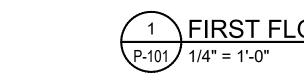
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### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**











PLUMBING DEMOLITION GENERAL NOTES:

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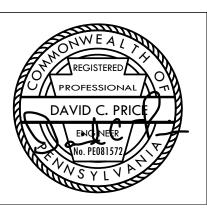
PLUMBING DEMOLITION KEY NOTES: (#)

1. EXISTING GAS PIPING SHALL REMAIN AND CONTINUE IN USE.

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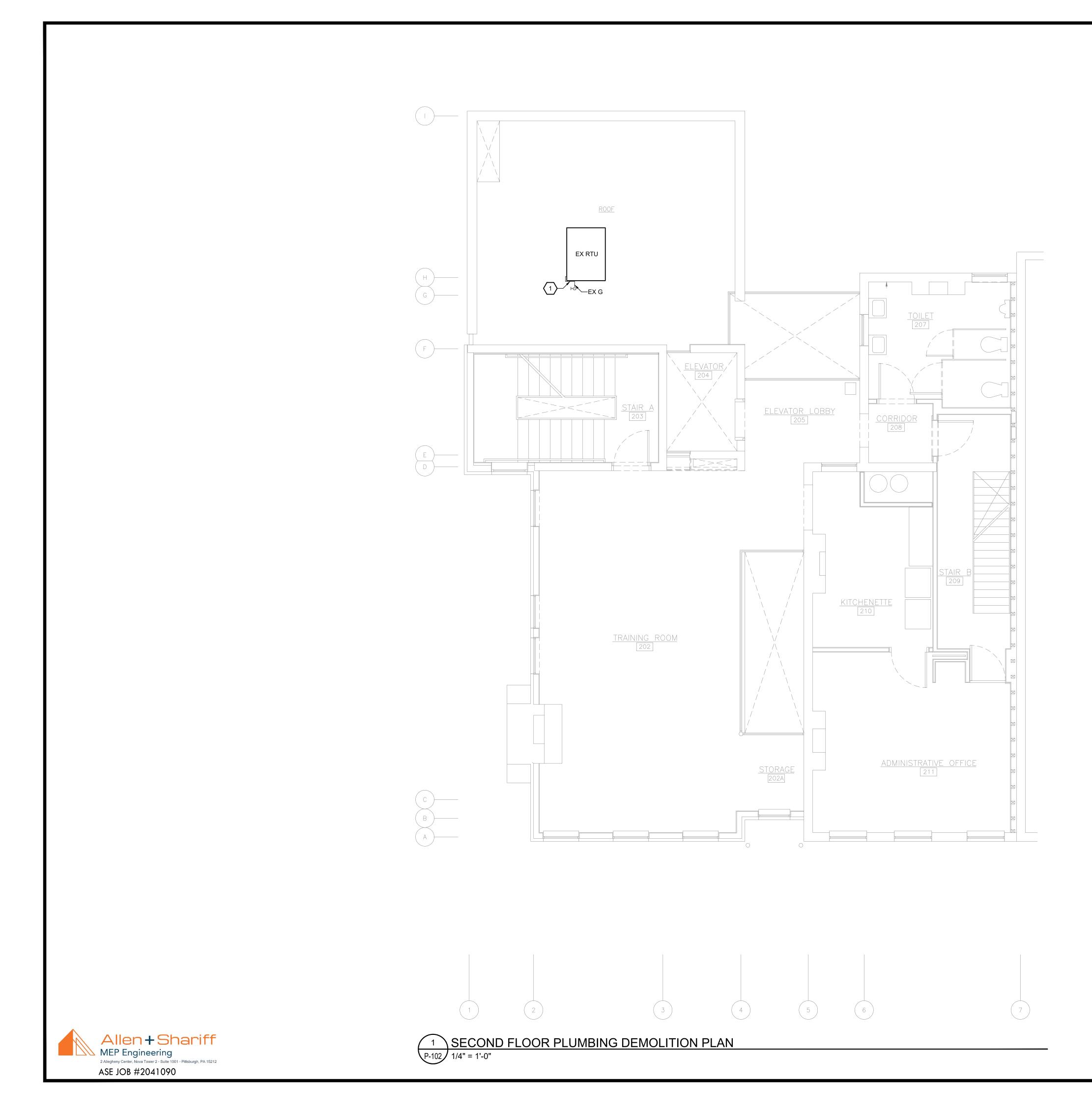
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#### PLUMBING DEMOLITION GENERAL NOTES:

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- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY

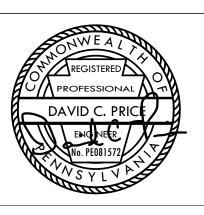
PLUMBING DEMOLITION KEY NOTES: (#)

1. EXISTING GAS PIPING AND CONNECTION TO EXISTING ROOFTOP UNIT SHALL REMAIN AND CONTINUE IN USE.

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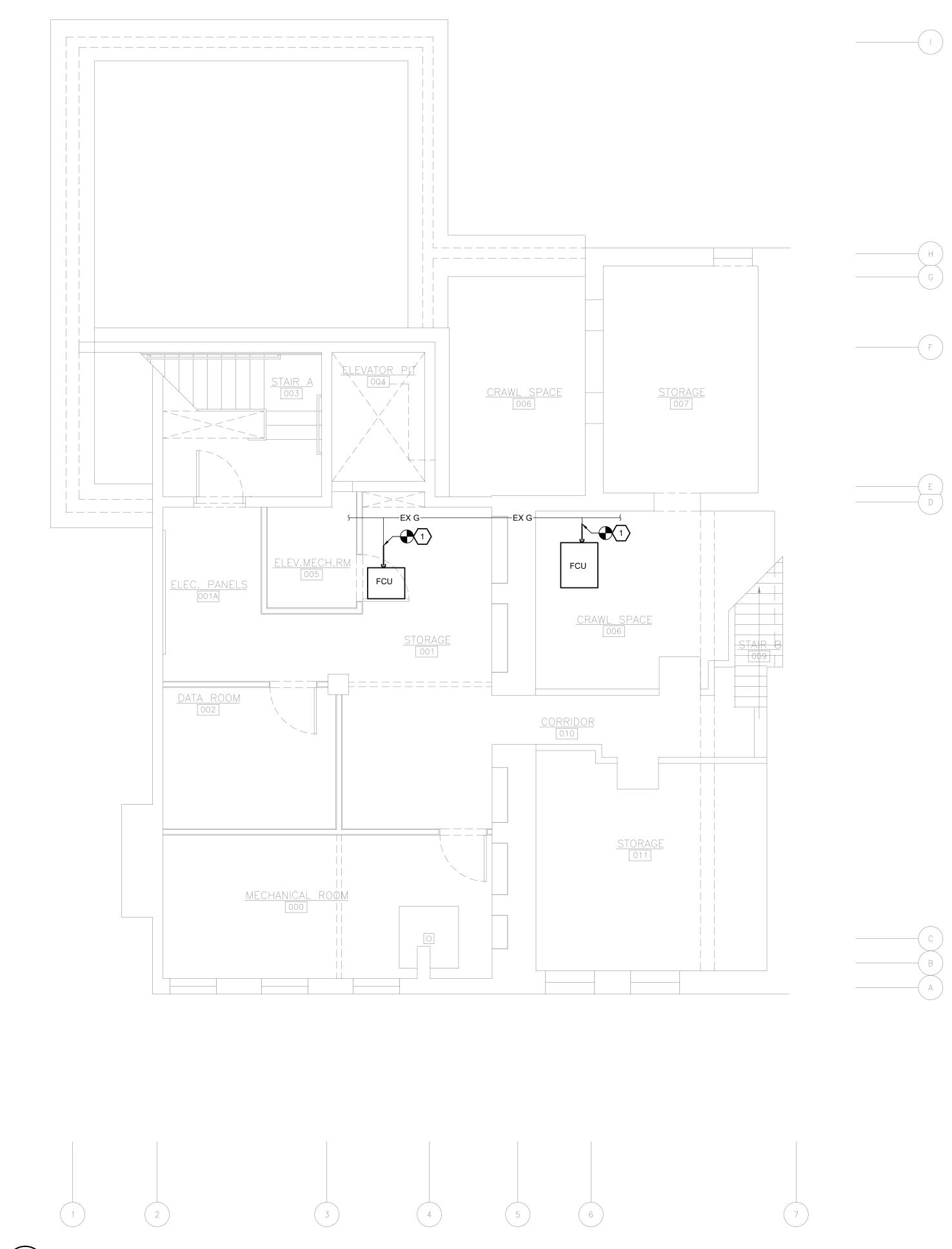
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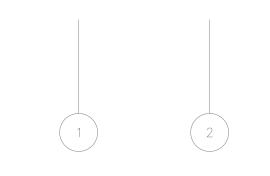


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## HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER











#### PLUMBING GENERAL NOTES:

- COORDINATE LOCATIONS OF PIPING AND FIXTURES WITH ARCHITECT.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY.

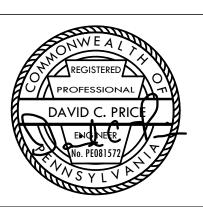
#### PLUMBING KEY NOTES: (#)

1. PROVIDE GAS CONNECTION TO MECHANICAL EQUIPMENT AT THIS APPROXIMATE LOCATION. REFER TO DETAIL 1 ON SHEET P001 FOR WORK REQUIRED. CONNECT TO GAS PIPING CAPPED DURING DEMOLTION.

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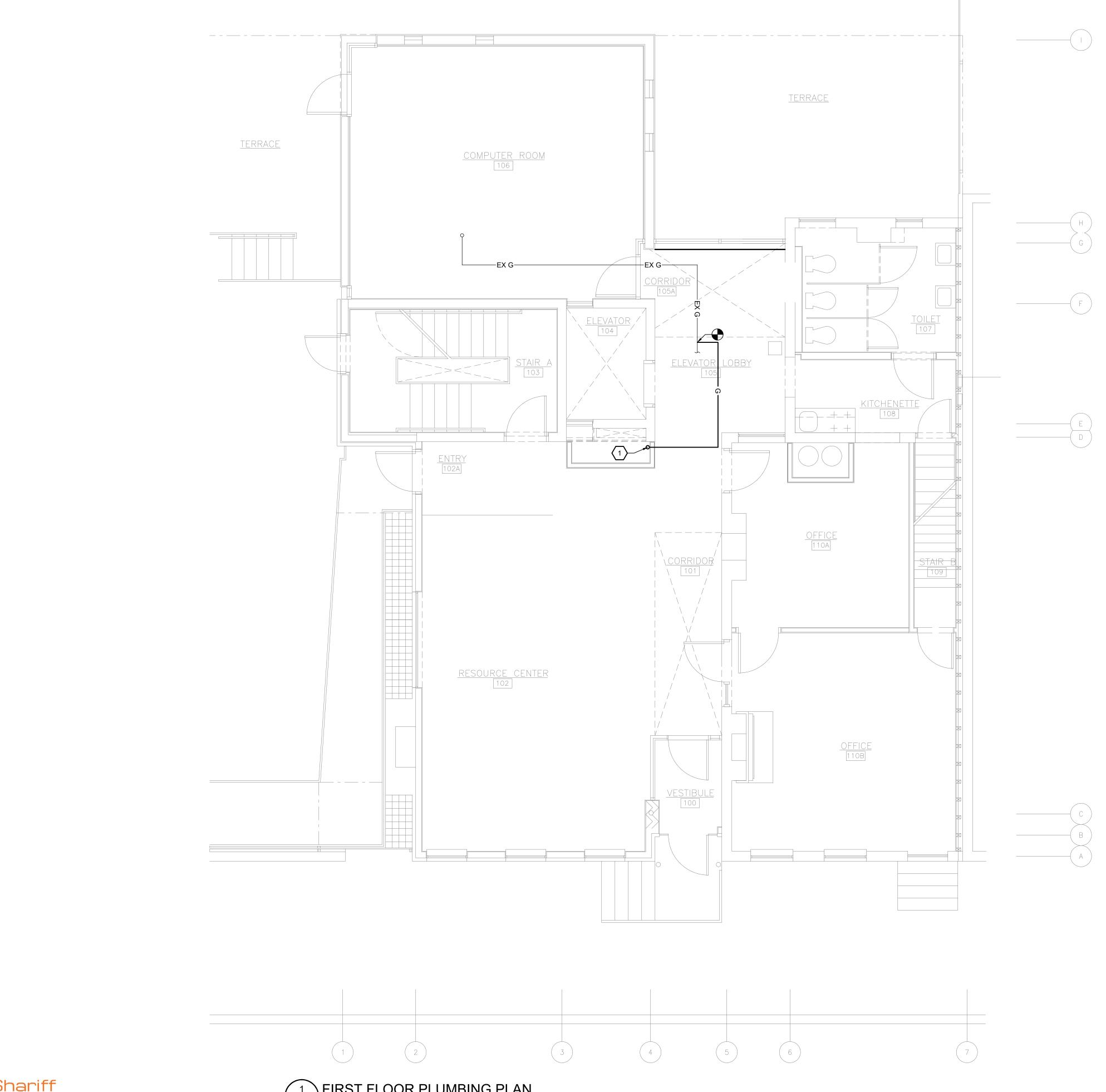
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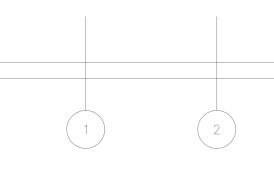


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### PLUMBING GENERAL NOTES:

COORDINATE LOCATIONS OF PIPING AND FIXTURES WITH ARCHITECT.

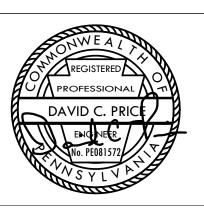
### PLUMBING KEY NOTES: (#)

PROVIDE GAS PIPING UP TO SERVE NEW MECHANICAL EQUIPMENT ON 3RD FLOOR.

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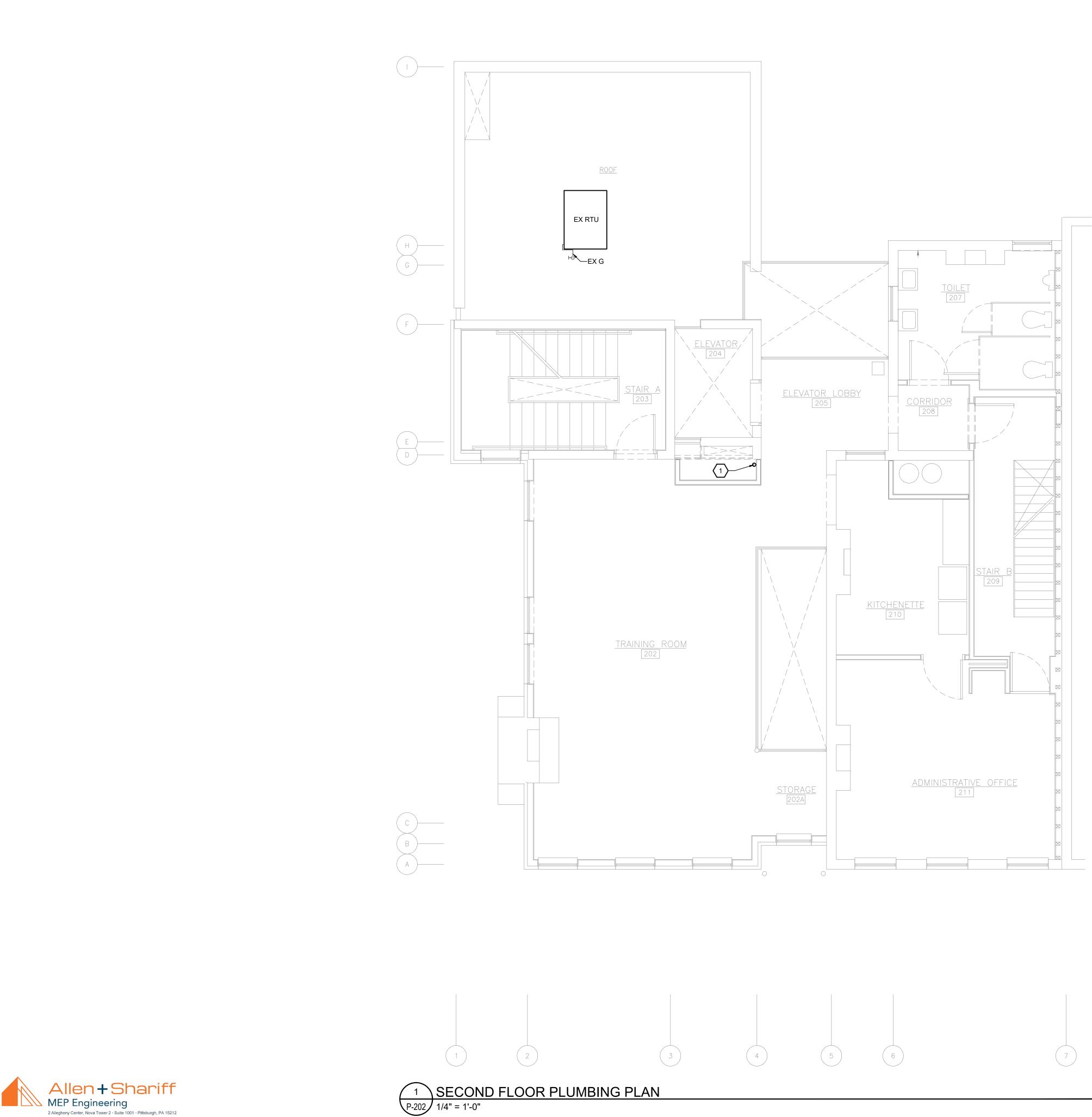
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## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





ASE JOB #2041090

### PLUMBING GENERAL NOTES:

- COORDINATE LOCATIONS OF PIPING AND FIXTURES WITH ARCHITECT.
- 2. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY.

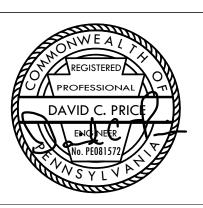
### PLUMBING KEY NOTES: (#)

PROVIDE GAS PIPING UP TO SERVE NEW MECHANICAL EQUIPMENT ON THE 3RD FLOOR.

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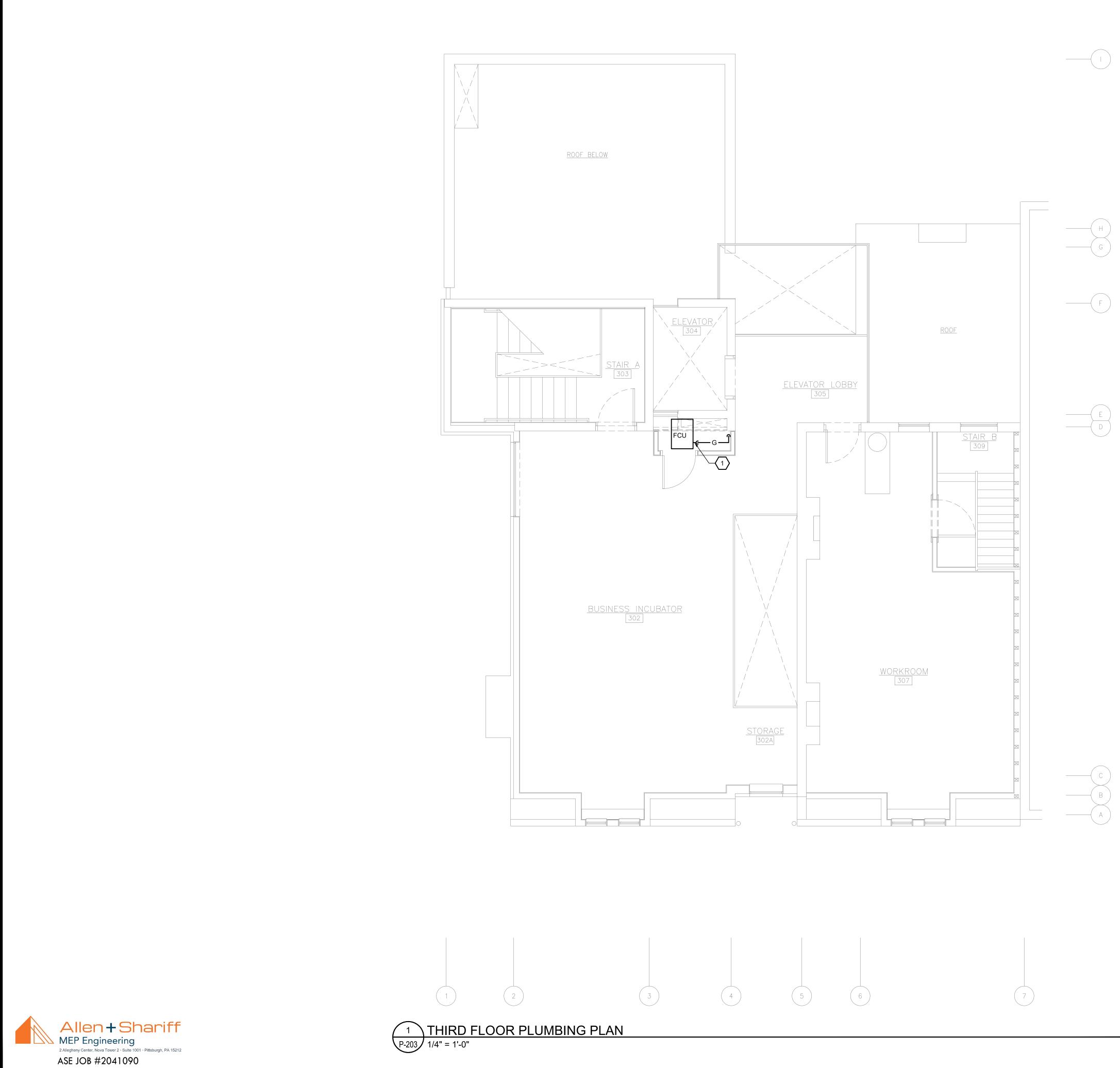
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## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





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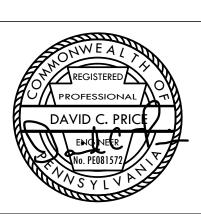
### PLUMBING KEY NOTES: (#)

1. PROVIDE GAS CONNECTION TO MECHANICAL EQUIPMENT AT THIS APPROXIMATE LOCATION. REFER TO DETAIL 1 ON SHEET P001 FOR WORK REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR.

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## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



#### GENERAL ELECTRICAL NOTES:

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

DEMOLITION: SEE "ELECTRICAL GENERAL DEMOLITION NOTES FOR ADDITIONAL DEMOLITION REQUIREMENTS.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT.

RECORD DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ARCHITECT OR ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #8 OR LARGER TO ENSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

<u>GROUNDING:</u> PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ELECTRICAL SYSTEM, INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL CIRCUITS.

LABELS: PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD, INCLUDING EXISTING PANELBOARDS MODIFIED FOR THIS PROJECT, WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING. NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS, AS THEY ARE OFTEN DIFFERENT.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS. PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN AND INSTALL MOTOR STARTERS.

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSIBLE SWITCHES IN LIEU OF NON-FUSIBLE SWITCHES OR FUSIBLE ENCLOSED CIRCUIT BREAKERS OR OTHER DEVICES INDICATED.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS. ROUGH-IN AND HOOK UP DETAILS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

EQUIPMENT DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

LIGHTING ARRANGEMENT: ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

LIGHTING COORDINATION: COORDINATE LIGHTING FIXTURES WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, ACCESS PANELS, ETC.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURES OR DEVICES ARE FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES AND FIRE ALARM DEVICES ARE TO THE BOTTOM OF THE FIXTURE OR DEVICE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, AND TELE/DATA OUTLETS WITH OTHER WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL STATIONS. DO NOT MOUNT WIRING DEVICES BACK TO BACK.

EWC RECEPTACLES: RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE EWC ENCLOSURE. VERIFY THE MOUNTING HEIGHT WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

DEVICE COORDINATION: THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK, DOOR SWINGS, AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

BARRIERS: WHERE A MULTIPLE GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION, USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

FIRE PROOFING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE RATED STRUCTURES, PROVIDE FIRE-PROOFING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE PROOFING FOR PENETRATIONS SHALL BE UL APPROVED PER THE THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT, CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES, AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

OWNER FURNISHED EQUIPMENT: CONTRACTOR SHALL OBTAIN CUT SHEETS, INSTALLATION DATA, AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT AND COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY ASSOCIATED WORK.

CONDUIT ROUTING: ALL CONDUIT RUN OVERHEAD SHALL BE RUN AT THE BOTTOM OF THE FLOOR, ROOF STRUCTURE, OR LOWEST CHORD OF JOIST SPACE (AS APPLICABLE) ABOVE IN ORDER TO AVOID CONFLICTS WITH OTHER TRADES.

WIRING DEVICES: ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH CLEAR PLASTIC LAMINATED LABEL WITH BLACK TEXT, NOTING PANELBOARD DESIGNATION AND CIRCUIT NUMBER FROM WHICH IT IS FED.

EQUIPMENT DEMONSTRATION: PROVIDE A DEMONSTRATION OF THE OPERATION OF ALL ELECTRICAL COMPONENTS.

CEILING AND MECHANICAL ROOM PLENUM: ALL WIRING THAT WILL NOT BE RUN IN METAL CONDUIT SHALL BE PLENUM RATED.

### Allen+Sharif MEP Engineering 2 Allegheny Center, Nova Tower 2 · Suite 1001 · Pittsburgh, PA 15212 ASE JOB #2041090

#### ELECTRICAL GENERAL DEMOLITION NOTES

GENERAL: DEMOLITION DRAWINGS ARE BASED ON EXISTING PLANS AND FIELD INVESTIGATION PRIOR TO DEMOLITION. VISIT THE EXISTING BUILDI PRIOR TO BID IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND IN ORDER TO AVOID CONFLICTS.

DASHED ITEMS: ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS ARE EXISTING AND SHALL BE REMOVED COMPLETE INCLUDING BOXES, CONDUIT, WIRE, FASTENERS, AND ASSOCIATED APPURTENANCES UON.

SOLID ITEMS: ALL ITEMS SHOWN SOLID ON DEMOLITION PLANS ARE EXISTING TO REMAIN.

CIRCUITING TO REMAIN: WHERE AFFECTED BY NEW WORK, EXISTING CIRCUITING TO REMAIN SHALL BE REROUTED OR RECONNECTED AS REQUIRED, IN ORDER TO MAINTAIN CONTINUITY OF CIRCUIT.

REUSE OF EXISTING CIRCUITRY: EXISTING CIRCUITS SHALL BE REUSED WHERE CONVENIENT TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS INDICATED OR REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS THAT REMAIN.

EXISTING CONDUIT: ALL EXISTING CONDUITS AND WIRING THAT WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUIT TO REMAIN CONCEALED IN WALLS SHALL BE ABANDONED. EXISTING CONDUIT TO REMAIN BELOW FLOOR SLAB SHALL BE CUT OFF ONE INCH BELOW ROUGH FLOOR AND GROUTED FLUSH. ALL EXISTING WIRING IN CONDUITS TO BE ABANDONED SHALL BE DISCONNECTED FROM POWER SOURCE AND REMOVED.

REPAIR DAMAGE: EXERCISE CARE IN REMOVAL OF DEMOLITION ITEMS. REPAIR, AT NO ADDITIONAL COST TO OWNER, ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN.

ASSOCIATED APPURTENANCES: REMOVE ALL ELECTRICAL APPURTENANCES (DISCONNECTS, STARTERS, WIRING, CONDUIT, ETC.) ASSOCIATED WITH EQUIPMENT TO BE REMOVED BY OTHERS.

KNOCKOUT PLUGS AND COVERS: ALL CONDUIT REMOVED SHALL BE REMOVED IN ITS ENTIRETY, INCLUDING FITTINGS, MOUNTING DEVICES, MOUNTING HARDWARE, ETC. PROVIDE CONDUIT PLUGS AND BLANKS FOR ALL OPENINGS CREATED BY THE REMOVAL OF CONDUIT. PROVIDE BLANK COVER PLATES FOR ALL OPENED OUTLET BOXES CREATED BY THE REMOVAL OF THE EQUIPMENT AND/OR DEVICES.

DEMOLISHED MATERIALS: ALL MATERIALS REMOVED UNDER DEMOLITION. NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE.

SCHEDULE OUTAGES: ALL WORK AND ALL POWER OUTAGES SHALL BE SCHEDULED AT TIMES CONVENIENT TO THE OWNER.

EXISTING CIRCUITS: IF DURING THE COURSE OF CONSTRUCTION, IT IS DETERMINED BY THE CONTRACTOR THAT AN EXISTING CIRCUIT BECOMES SPARE, THE CONTRACTOR SHALL UPDATE THE PANELBOARD DIRECTORY TO INDICATE SUCH, EVEN IF IT IS NOT EXPLICITLY MARKED ON THE ELECTRICAL PLANS.

GENERAL SPECIAL SYSTEM NOTES:

TELEPHONE AND DATA SYSTEMS

THE TELEPHONE AND DATA SYSTEMS WILL BE FURNISHED AND INSTALLED THROUGH THE OWNER'S VENDOR (THE VENDOR) UNDER A SEPARATE CONTRACT. ALL CABLING AND WIRING (EXCEPT FOR POWER WIRING), J-HOOKS, JACKS, COVER PLATE COMPATIBLE WITH THE EQUIPMENT, DEVICES, RACKS, AND COMPONENT EQUIPMENT WILL BE PROVIDED BY THE VENDOR, UNLESS INDICATED OTHERWISE. THE VENDOR WILL PROVIDE INSTALLATION DURING CONSTRUCTION. THE ELECTRICAL CONTRACTOR (THE CONTRACTOR) SHALL COORDINATE ALL ROUGH-IN, BOX SIZES AND CONFIGURATIONS, CONDUIT SIZES AND ROUTING WITH THE VENDOR PRIOR TO INSTALLATION OF THE RACEWAY SYSTEM.

THE CONTRACTOR SHALL PROVIDE ALL CONDUIT WITH PULL WIRE, AND 4"X4"X2 1/4"BOX WITH SINGLE GANG PLASTER RING UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELECTRICAL REQUIREMENTS WITH THE VENDOR PRIOR TO ROUGH-IN.

STUB ALL CONDUITS WITH PULL WIRE FOR COMMUNICATIONS DEVICES TO ABOVE AN ACCESSIBLE CORRIDOR CEILING AND TERMINATE WITH INSULATED NYLON BUSHING. THE VENDOR WILL PROVIDE J-HOOKS ABOVE THE CEILING FROM THE STUB OUT TO EQUIPMENT LOCATION AS REQUIRED FOR HIS CABLING AND TERMINATE WITH INSULATED NYLON BUSHING. WHERE A WALL SEPARATES THE CONDUIT STUB OUT FROM THE EQUIPMENT LOCATION, PROVIDE A 1" MINIMUM SLEEVE THROUGH THE WALL, ABOVE AN ACCESSIBLE CEILING, TO ACCOMMODATE THE CABLING, ALL CONDUITS AND SLEEVES PENETRATING RATED FIRE OR SMOKE WALLS SHALL BE PROVIDED WITH APPROVED FIRE RETARDANT TO PROVIDE A UL RATED WALL PENETRATION ASSEMBLY. MAINTAIN VENDOR RECOMMENDED SEPARATION BETWEEN WIRING OF DIFFERENT SYSTEMS AND FROM INTERFERENCE PRODUCING ELECTRICAL DEVICES SUCH AS FLUORESCENT LIGHTS. BALLAST, TRANSFORMERS, RELAYS, MOTOR CONTROLS, ETC.

PROVIDE POWER CIRCUITS FOR TELECOMMUNICATIONS EQUIPMENT AS INDICATED.

THE CONTRACTOR SHALL PROVIDE ALL BACKBOXES, CONDUIT, GROUNDING AND SHALL INSTALL ALL SPECIAL BOXES WITH PLASTER RING FURNISHED BY THE VENDOR FOR THE TELECOMMUNICATIONS SYSTEMS IN ACCORDANCE WITH THE APPLICABLE CODES.

THE CONTRACTOR SHALL INSTALL ALL COMMUNICATIONS SLEEVES AND CONDUIT IN ACCORDANCE WITH DRAWINGS, ELECTRICAL SPECIFICATIONS, VENDOR WIRING DIAGRAMS, AND ALL APPLICABLE CODES.

THE GENERAL CONTRACTOR SHALL PROVIDE IN-WALL REINFORCEMENT AS NECESSARY FOR ALL COMMUNICATIONS CABINETS, SHELVES, BRACKETS, FURNITURE MOUNTS, ETC. AND SHALL MOUNT CABINETS, SHELVES, BRACKETS, AND FURNITURE MOUNTS IN ACCORDANCE WITH DRAWINGS, VENDOR SUBMITTALS, AND ALL APPLICABLE CODES.

COORDINATE FINAL LOCATIONS AND ELEVATIONS OF ALL TELECOMMUNICATIONS DEVICES AND OUTLETS WITH ARCHITECTURAL PLANS, CASEWORK AND ELEVATIONS, AND VENDOR REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE A COMPLETION SCHEDULE BROKEN DOWN BY PROJECT PHASES, FOR TURNOVER OF COMPLETED COMMUNICATIONS ROUGH-IN FOR VENDOR FINISH WORK. THE CONTRACTOR SHALL COORDINATE TURNOVER WITH VENDORS, AND SHALL TURNOVER AREAS FOR VENDOR FINISH WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA VENDOR COST RESULTING FROM INCORRECT COMMUNICATIONS ROUGH-IN.

NOTIFICATION: NOTIFY THE OWNER PRIOR TO TURNING OFF ANY CIRCUITS.

	-					
${\pmb \Phi}^{\sf WP}$	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTING TYPE, 20A, 120V, WITH COOPER MODEL WIU-1D (OR EQUAL) "WHILE-IN-USE" WEATHERPROOF COVER, 18"AFG UON.					
J	JUNCTION BOX - ABOVE CEILINGS OR FLUSH IN WALLS.					
	ELECTRICAL PANELBOARD					
ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR, AND 1 #12 GROUNDING CONDUCTOR IN 3/4" CONDUIT. PROVIDE ADDITIONAL I CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICA LOADS. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PRO THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHAS CONDUCTORS SHALL BE GROUPED TOGETHER IN A COMMON CON IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. NEUTRAL AND GROUNDING CONDUCTORS SHALL BE SHARED AS ALLOWED BY THE NEC. CONDUIT LARGER THAN 3/4" AN CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.						
	FIRE ALARM					
FACP	FIRE ALARM CONTROL PANEL, SURFACE MOUNTED, TOP 5'-9" AFF.					
FAAP	FIRE ALARM ANNUNCIATOR PANEL, RECESSED, TOP 5'-0" AFF.					
NACP	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL, SURFACE MOUNTED, TOP, 5'-9" AFF.					
F	FIRE ALARM MANUAL PULL STATION, 44"AFF TO ACTUATING ARM, UON.					
SD	ADDRESSABLE FIRE ALARM SYSTEM PHOTO-ELECTRIC SMOKE DETECTOR, CEILING MOUNTED.					
DD	DUCT MOUNTED ADDRESSABLE FIRE ALARM SYSTEM PHOTO-ELECTRIC SMOKE DETECTOR.					
ММ	FIRE ALARM SYSTEM MONITOR MODULE.					
СМ	FIRE ALARM SYSTEM CONTROL MODULE.					
$\sum_{30}$	FIRE ALARM VISUAL (STROBE) APPLIANCE, CEILING MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.					
$\mathcal{Q}_{_{30}}$	FIRE ALARM SYSTEM VISUAL (STROBE) APPLIANCE, WALL MOUNTED AT 80" AFF TO BOTTOM OF LENS, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.					

FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, CEILING

FIRE ALARM SYSTEM AUDIO/VISUAL (HORN/STROBE), WALL MOUNTED AT

WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA

SMOKE DAMPER CONNECTION, 120V. REFER TO DETAIL 2/E-501 FOR

MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.

80" AFF TO BOTTOM OF LENS, OR 6" BELOW FINISHED CEILING,

FIRE ALARM SYSTEM ADDRESSABLE REMOTE TEST SWITCH.

POWER

	LIGHTING
	LIGHTING FIXTURE.
0	DOWNLIGHT FIXTURE.
2 🖵	WALL MOUNTED LIGHTING FIXTURE.
	LIGHTING FIXTURE WITH EMERGENCY BATTERY. TYPICAL ALL FIXTU TYPES.
Y	EMERGENCY LIGHTING REMOTE UNIT, CONNECT AHEAD OF LOCAL CONTROLS.
	EMERGENCY BATTERY LIGHTING UNIT, CONNECT AHEAD OF LOCAL CONTROLS.
	EXIT LIGHTING FIXTURE WITH EMERGENCY HEADS AND DIRECTIONA ARROWS AS INDICATED ON DRAWINGS. CONNECT TO LIGHTING CIR AHEAD OF LOCAL CONTROLS. SHADED AREA DENOTES LIGHTED FA
\$ <sub>a</sub>	SINGLE POLE SWITCH, 20A, 120/277V, 44"AFF UON. SUBSCRIPT "a" INDICATES ASSOCIATED FIXTURES TO BE CONTROLLED.
\$ <sub>L1a</sub>	LOW VOLTAGE SWITCH FOR ON/OFF CONTROL OF A SINGLE ZONE, 4 AFF UON. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C2X OR APPROVED EQUAL.
\$ <sub>D1a</sub>	LOW VOLTAGE SWITCH FOR ON/OFF AND RAISE/LOWER CONTROL O SINGLE ZONE, 44" AFF UON. SUBSCRIPT "a", WHERE USED, INDICATE ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C4X OR APPROVED EQUAL.
\$ <sub>D2a,b</sub>	LOW VOLTAGE SWITCH FOR ON/OFF AND RAISE/LOWER CONTROL O TWO ZONES, 44" AFF UON. SUBSCRIPT "a,b", WHERE USED, INDICATE ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C8X OR APPROVED EQUAL.
\$ <sub>VSa</sub>	LINE VOLTAGE DUAL TECHNOLOGY WALL SWITCH VACANCY SENSO WITH ON/OFF CONTROL (MANUAL ON), 44" AFF UON. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO BE CONTROLL PROVIDE GREENGATE MODEL #VNW-D OR APPROVED EQUAL.
VSa	ANALOG 360-DEGREE MULTI-TECHNOLOGY VACANCY SENSOR. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO CONTROLLED. PROVIDE LEVITON MODEL #OSC10-MOW OR APPROVE EQUAL. PROVIDE COMPATIBLE SMART PACK FOR EACH CONTROL ZO PROVIDE COMPATIBLE 2-PORT ANALOG INTERFACE.
OS a	ANALOG 360-DEGREE MULTI-TECHNOLOGY OCCUPANCY SENSOR. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO CONTROLLED. PROVIDE LEVITON MODEL #OSC10-MOW OR APPROVE EQUAL. PROVIDE COMPATIBLE SMART PACK FOR EACH CONTROL ZO PROVIDE COMPATIBLE 2-PORT ANALOG INTERFACE. (NOTE: SAME PRODUCT AS "VACANCY" SENSOR, NOTED DIFFERENT TO INDICATE CONTROL STRATEGY)
SP a	GREENMAX DRC SMART PACK MODEL #DRD07-EDO OR APPROVED EQUAL. SUBCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTU TO BE CONTROLLED.
2P	LEVITON 2-PORT ANALOG INTERFACE MODEL #DRIDO-CB2 OR APPROVED EQUAL.
RC	GREENMAX DRC LINE VOLTAGE ROOM CONTROLLER MODEL # DRC07-EDO OR APPROVED EQUAL.
	LIGHTING FIXTURE KEY
Aa O NL	<ol> <li>LETTER "A" DENOTES FIXTURE TYPE. REFER TO LIGHTING FIXTUR SCHEDULE.</li> <li>ASSOCIATED LETTER "a", WHERE USED, INDICATES LIGHTING FIXT CONTROL DEVICE DESIGNATION.</li> <li>"NL" INDICATES A NIGHT LIGHT FIXTURE CIRCUITED AHEAD OF LO CONTROLS.</li> </ol>

GENERAL

MORE INFORMATION.

KEYNOTE.

AV30

MFSD

RT

 $\left(1\right)$ 

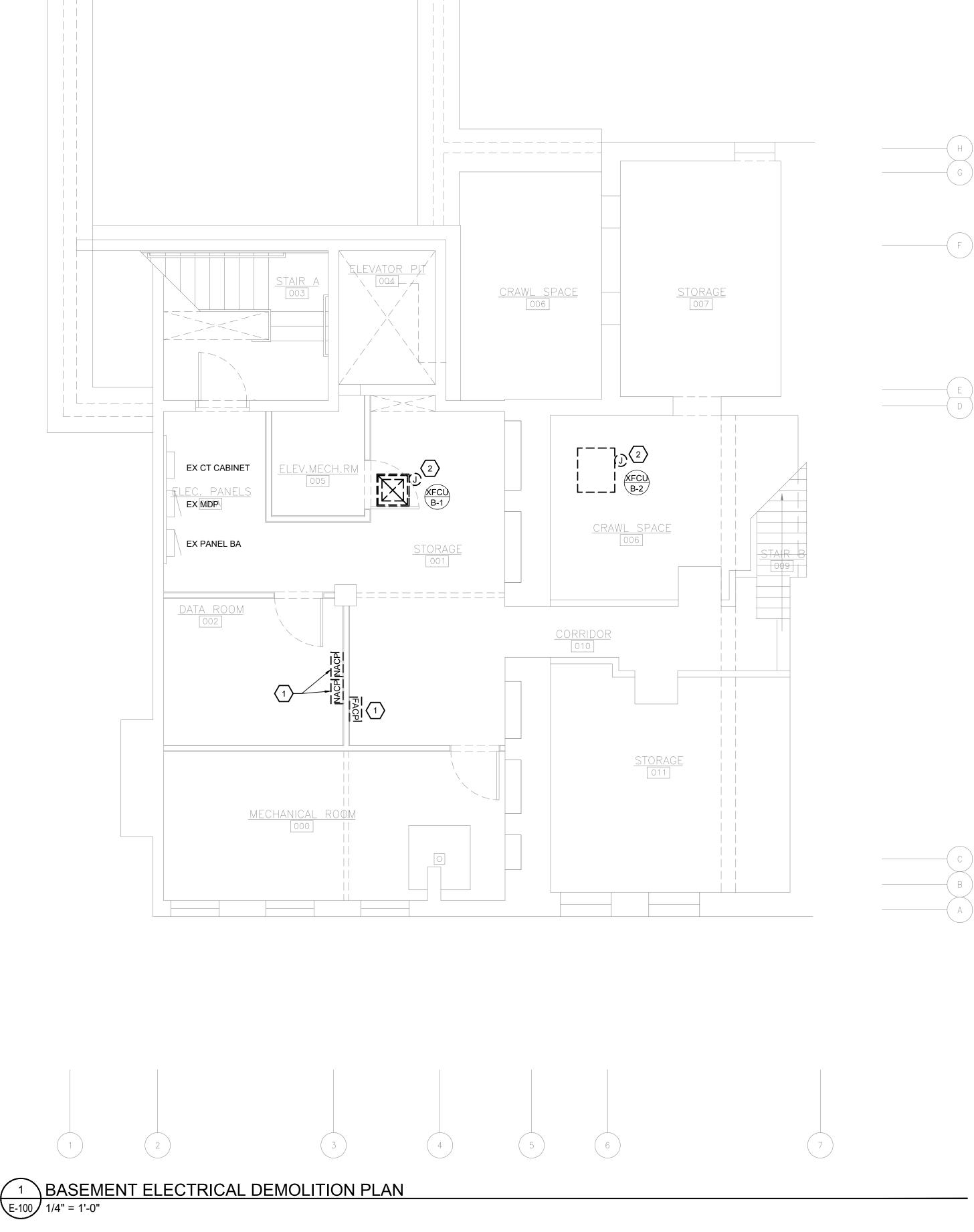
LINEWEIGHTS							
	NEW						
	EXISTING						
	REMOVE EXISTING						

			ELECTRICAL ABBREVIATIONS	FOR	CONSTR	UCTION
		А	AMPERE			
		AFF				
	_	AFG AHU	ABOVE FINISHED GRADE	COPYRIGHT PROT AND DESIGNS INC	TECTION ACT OF 1990. REPRODUC	1990 AND KNOWN AS THE ARCHITECTURAL WORKS TION AND USE OF THIS DOCUMENT OR THE IDEAS THORIZATION OF GERARD ASSOCIATES ARCHITECTS,
	-	AIC	AMPERE INTERRUPTING CURRENT			BE CHECKED AND VERIFIED BY THE CONTRACTOR AT
L ALL FIXTURE		ATS	AUTOMATIC TRANSFER SWITCH	REVISIO	) N S	
		AV	AUDIO/VISUAL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
OF LOCAL		BFG C	BELOW FINISHED GRADE			
OF LOCAL	_	СВ	CIRCUIT BREAKER			
DIRECTIONAL GHTING CIRCUIT	_	СКТ	CIRCUIT			
LIGHTED FACE.		EBU	EMERGENCT BATTERY UNIT			
CRIPT "a"		EC	EMPTY CONDUIT			
GLE ZONE, 44" OCIATED		EC	ELECTRICAL CONTRACTOR			
DDEL		ECB				
	-	EF ETR	EXHAUST FAN EXISTING TO REMAIN			
CONTROL OF A D, INDICATES GREENMAX		EWC	ELECTRIC WATER COOLER			
	-	EWH	ELECTRIC WATER HEATER			
CONTROL OF A		EX	EXISTING			
D, INDICATES BREENMAX		FLA	FULL LOAD AMPS			
		GC	GENERAL CONTRACTOR			
NCY SENSOR SCRIPT "a",		GFCI	GROUND FAULT CIRCUIT INTERRUPTER			
CONTROLLED. QUAL.		GND	GROUND			
NSOR.		HID	HIGH INTENSITY DISCHARGE			
IXTURES TO BE OR APPROVED CONTROL ZONE.		HP	HORSE POWER/HEAT PUMP			
JONTROL ZONE.		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING			
SENSOR. IXTURES TO BE	_	IG	ISOLATED GROUND			
OR APPROVED CONTROL ZONE.		JB	JUNCTION BOX			
DIFFERENTLY		KVA	KILO-VOLT AMPERE			
PPROVED			KILO-WATT			
ATED FIXTURES	_	LC LTG	LIGHTING CONTACTOR			
32 OR	_	MAU	MAKE UP AIR UNIT			
52 01		MCA	MINIMUM CIRUIT AMPS	ENO.	AWEAL IN	
DEL #		MC	MECHANICAL CONTRACTOR			
		MC	METAL CLAD			
		MCB	MAIN CIRCUIT BREAKER		ENGINER No. PE081572	
ING FIXTURE			MANUFACTURER		VSYLVA SYLVA	
HEAD OF LOCAL	-		MAIN LUGS ONLY			
	-		NON-FUSED	PROPE	ERTY REHAB	LITATION FOR:
	_		NIGHT LIGHT			
		NTS	NOT TO SCALE		DTACK	ORDER #35
		OC	ON CENTER			
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		ELOPME	
		Р	POLE		ORTUNI	TIES CENTER
	_		PLUMBING CONTRACTOR	REH/	ΔR	
	-		PUMP CONTROL PANEL		VERPOOL STREE	Т
	_		POWER FACTOR PANEL	BUILDIN	G #35 RGH, PA 15233	
	-  -		PANELBOARD	111300		
	┝	Ø PRI	PHASE			
	-		ROOF TOP UNIT			
	-	SEC	SECONDARY			
		TBB	TELEPHONE BACKBOARD			
		TR	TAMPER RESISTANT			
		TYP	TYPICAL			
	_		UNLESS OTHERWISE NOTED			I
	_	V VAC	VOLTS VOLTS ALTERNATING CURRENT			
	F	VAV	VARIABLE AIR VOLUME	IG	ER	AKD
	F	VDC	VOLTS DIRECT CURRENT	ASS		ARCHITECTS
	F	VFD	VARIABLE REQUENCY DRIVE			NS, 445 FT. PITT BLVD.
		W	WATTS/WIRE	PITTSBL	JRGH, PENNSY	IVANIA 15219-1333
	Ļ	WP	WEATHERPROOF	PHONE	: 412-566-153	1 FAX: 412-566-1532
		XFMR	TRANSFORMER			ТА СШЕЕТ
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CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHING. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH SALVAGING AND REINSTALLING EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.

1





#### ELECTRICAL DEMOLITION GENERAL NOTES:

- 1. ELECTRICAL DISTRIBUTION EQUIPMENT IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
- 6. ALL EXISTING LIGHTING FIXTURES, EMERGENCY BATTERY HEADS, EMERGENCY LIGHTING INVERTERS, EXIT SIGNS AND ASSOCIATED CONTROL DEVICES SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. THE MAJORITY OF LIGHTING EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE. REFER TO ALTERNATE NOTE ON THIS SHEET FOR MORE INFORMATION.
- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATING DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.

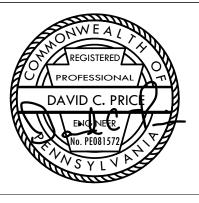
### ELECTRICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

- 1. DEMOLISH EXISTING FIRE ALARM HEAD-END EQUIPMENT INCLUDING BUT NOT LIMITED TO FACP, NACP, DACT, FAAP, ETC. MAINTAIN ALL EXISTING FIRE ALARM CIRCUITS TO EXISTING TO REMAIN FIRE ALARM NOTIFICATION AND INITIATING DEVICES FOR CONNECTION TO NEW FACP. REFER TO NEW FIRE ALARM WORK PLANS FOR MORE INFORMATION.
- 2. DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO EXISTING FURNACE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW FURNACE. REFER TO NEW BASEMENT POWER WORK PLAN FOR MORE INFORMATION.

## FOR CONSTRUCTION

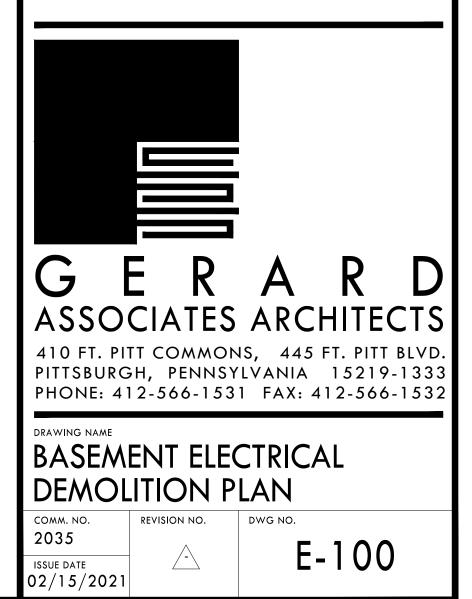
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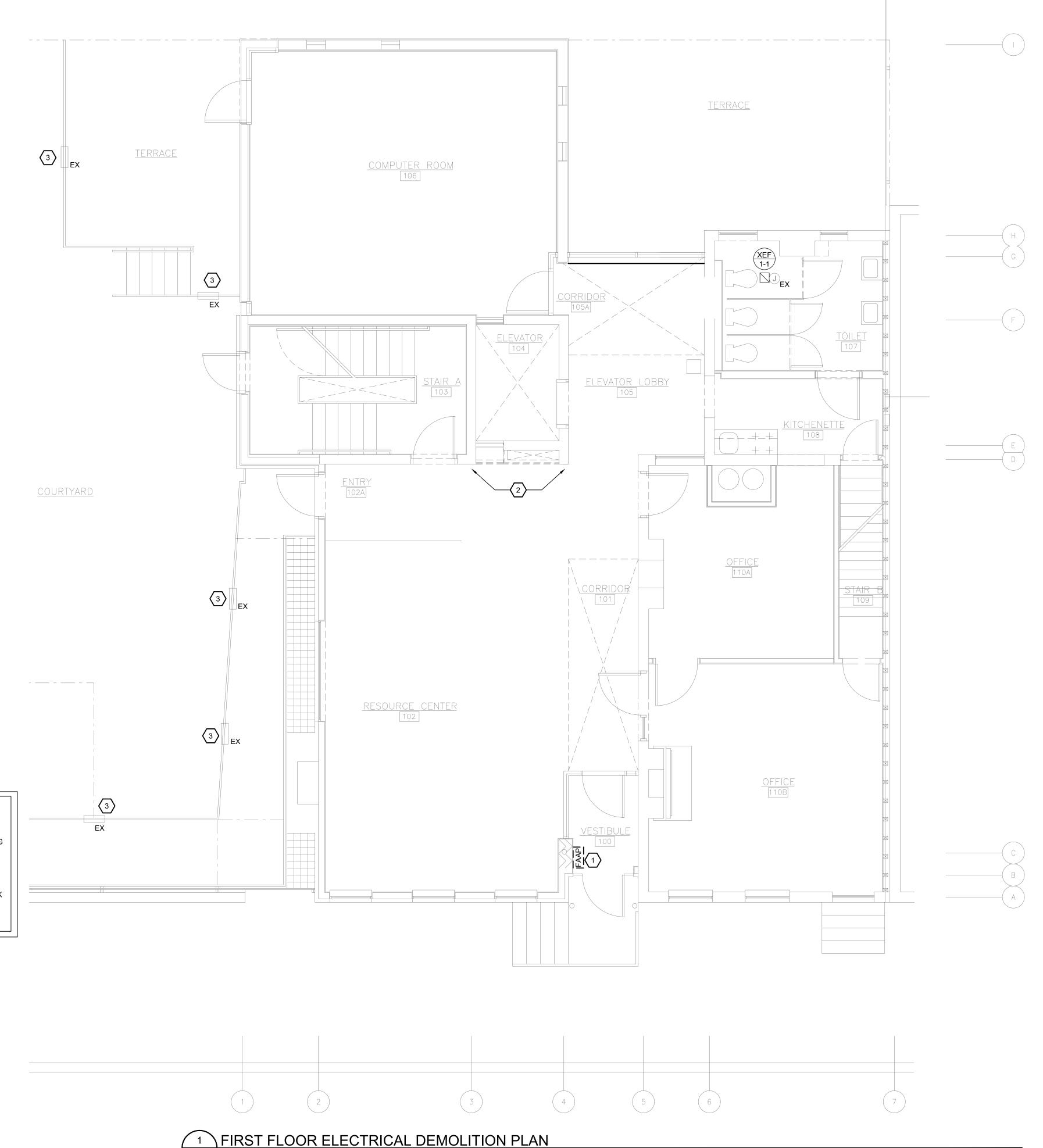
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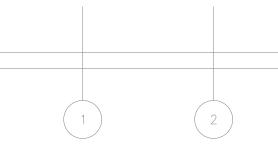
### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHING. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH SALVAGING AND REINSTALLING EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.





E-101 1/4" = 1'-0"

#### ELECTRICAL DEMOLITION GENERAL NOTES:

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- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
- 6. ALL EXISTING LIGHTING FIXTURES, EMERGENCY BATTERY HEADS, EMERGENCY LIGHTING INVERTERS, EXIT SIGNS AND ASSOCIATED CONTROL DEVICES SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. THE MAJORITY OF LIGHTING EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE. REFER TO ALTERNATE NOTE ON THIS SHEET FOR MORE INFORMATION.
- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.

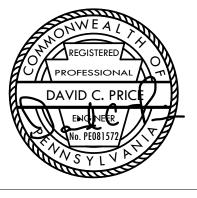
ELECTRICAL DEMOLITION KEY NOTES:  $\langle \# \rangle$ 

- 1. DEMOLISH EXISTING FIRE ALARM ANNUNCIATOR PANEL.
- 2. DISCONNECT AND REMOVE ALL DEVICES THAT CONFLICT WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE SALVAGED FOR REINSTALLATION AND WHICH DEVICES SHALL BE DEMOLISHED. REFER TO NEW WORK PLANS FOR MORE INFORMATION.
- 3. EXTERIOR STEP LIGHT IS EXISTING TO REMAIN. MAINTAIN EXISTING LIGHTING CIRCUIT(S) AND CONTROL DEVICE(S).

## FOR CONSTRUCTION

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REVISIONS



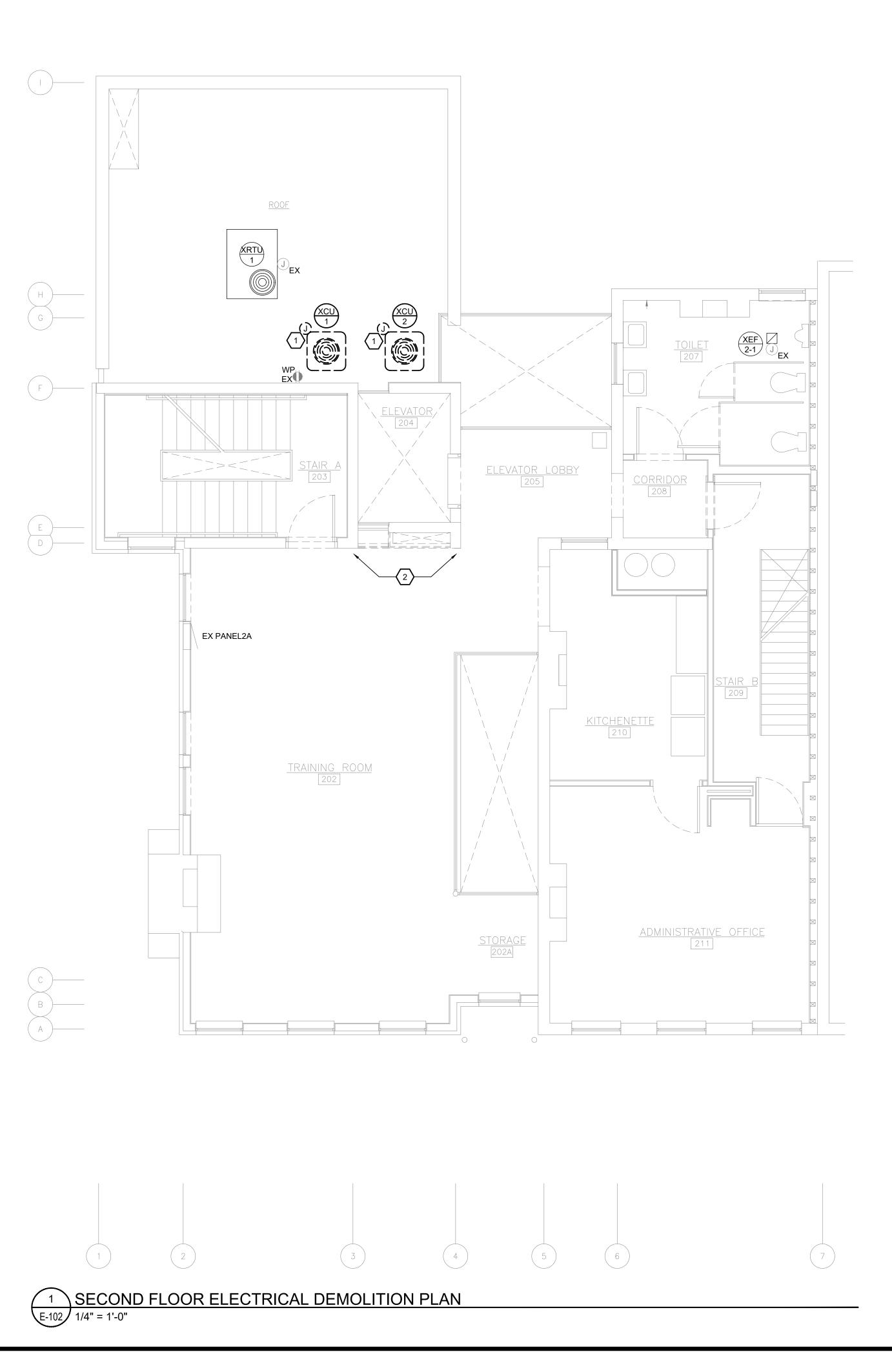
PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**



CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHING. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH SALVAGING AND REINSTALLING EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.





#### ELECTRICAL DEMOLITION GENERAL NOTES:

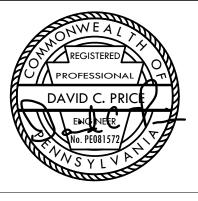
- 1. ELECTRICAL DISTRIBUTION EQUIPMENT IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
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- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.
- ELECTRICAL DEMOLITION KEY NOTES: (#)
- 1. DEMOLISH ELECTRICAL CONNECTION TO EXISTING CONDENSING UNIT BACK TO SOURCE. DEMOLISH ANY AND ALL ASSOCIATED CONDUIT, WIRING, AND DISCONNECTS, ETC.
- 2. DISCONNECT AND REMOVE ALL DEVICES THAT CONFLICT WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE SALVAGED FOR REINSTALLATION AND WHICH DEVICES SHALL BE DEMOLISHED. REFER TO NEW WORK PLANS FOR MORE INFORMATION.

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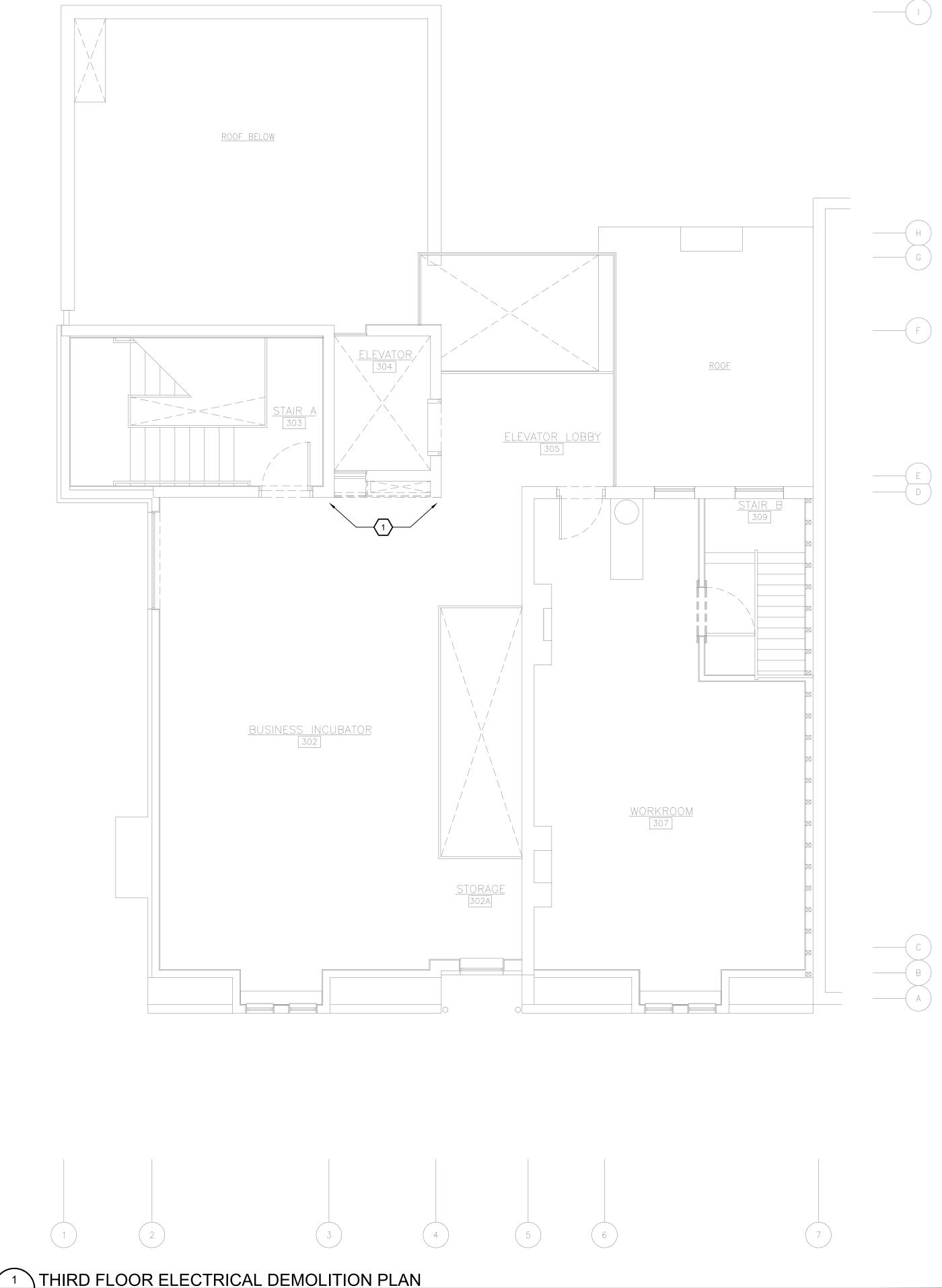
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E-103 1/4" = 1'-0"

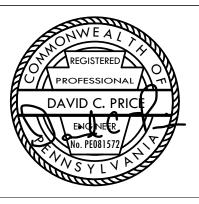
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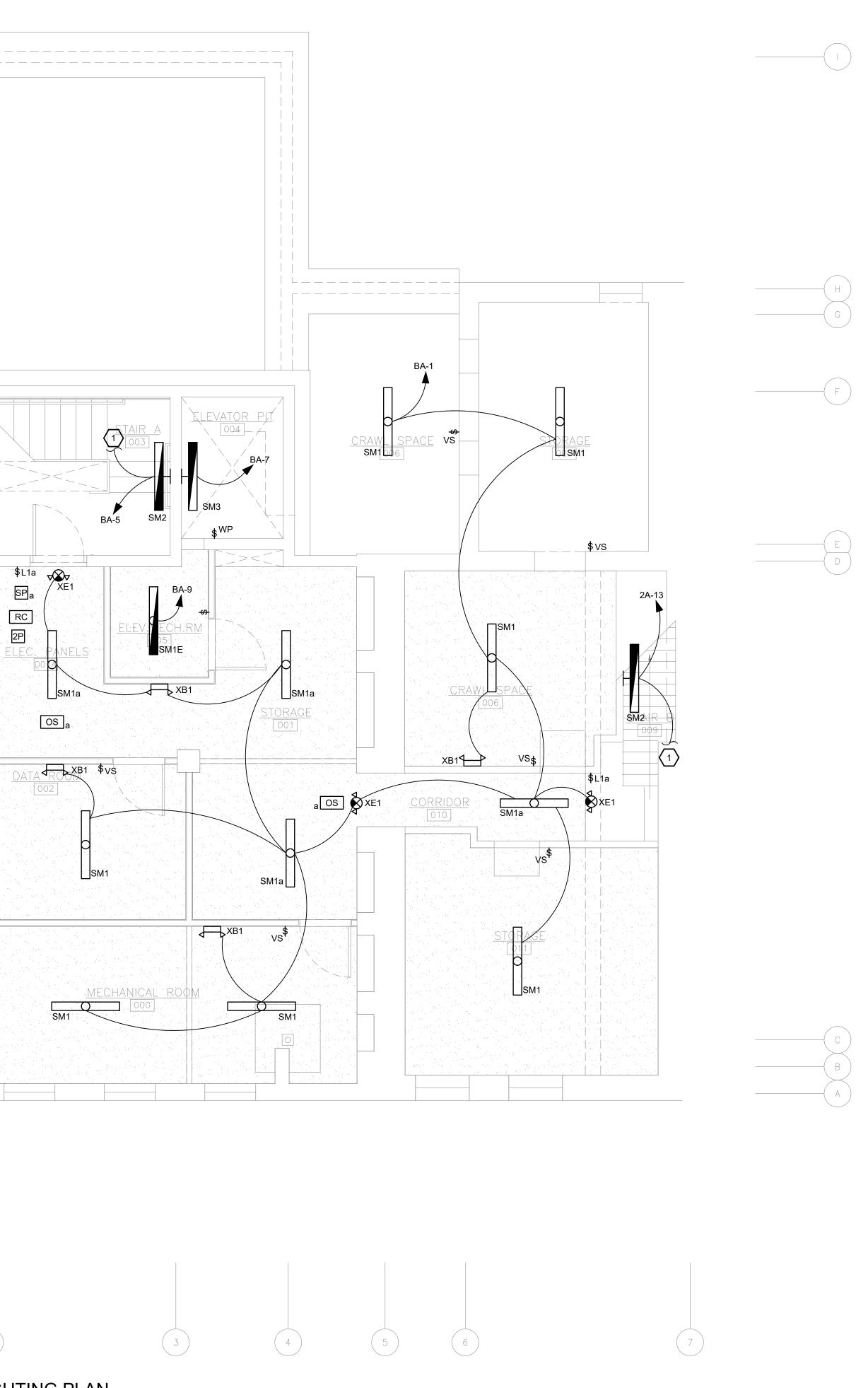
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#### LIGHTING GENERAL NOTES:

- 1. FIRE STOP ALL FIRE RATED FLOORS, CEILINGS, AND WALLS AS REQUIRED BY CODE. PENETRATIONS INTO OR THROUGH FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH IBC CHAPTER 7.
- 2. PROVIDE EXPANSION FITTINGS AS REQUIRED AT ALL EXPANSION JOINTS. COORDINATE WITH ARCHITECTURAL PLANS.
- 3. WHERE EXPOSED, BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. WHERE CONCEALED WITHIN WALLS OR ABOVE CEILING, MC CABLE IS PERMISSIBLE. EXPOSED CONDUIT SHALL BE PAINTED PER ARCHITECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
- 5. EXIT SIGNS AND EMERGENCY WALL PACKS SHALL BE CIRCUITED TO AN UNSWITCHED HOT LEG OF THE CIRCUIT NOTED AHEAD OF LOCAL CONTROLS.
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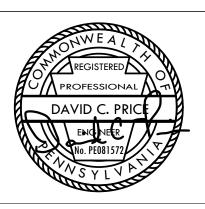
LIGHTING KEY NOTES: (#)

1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.

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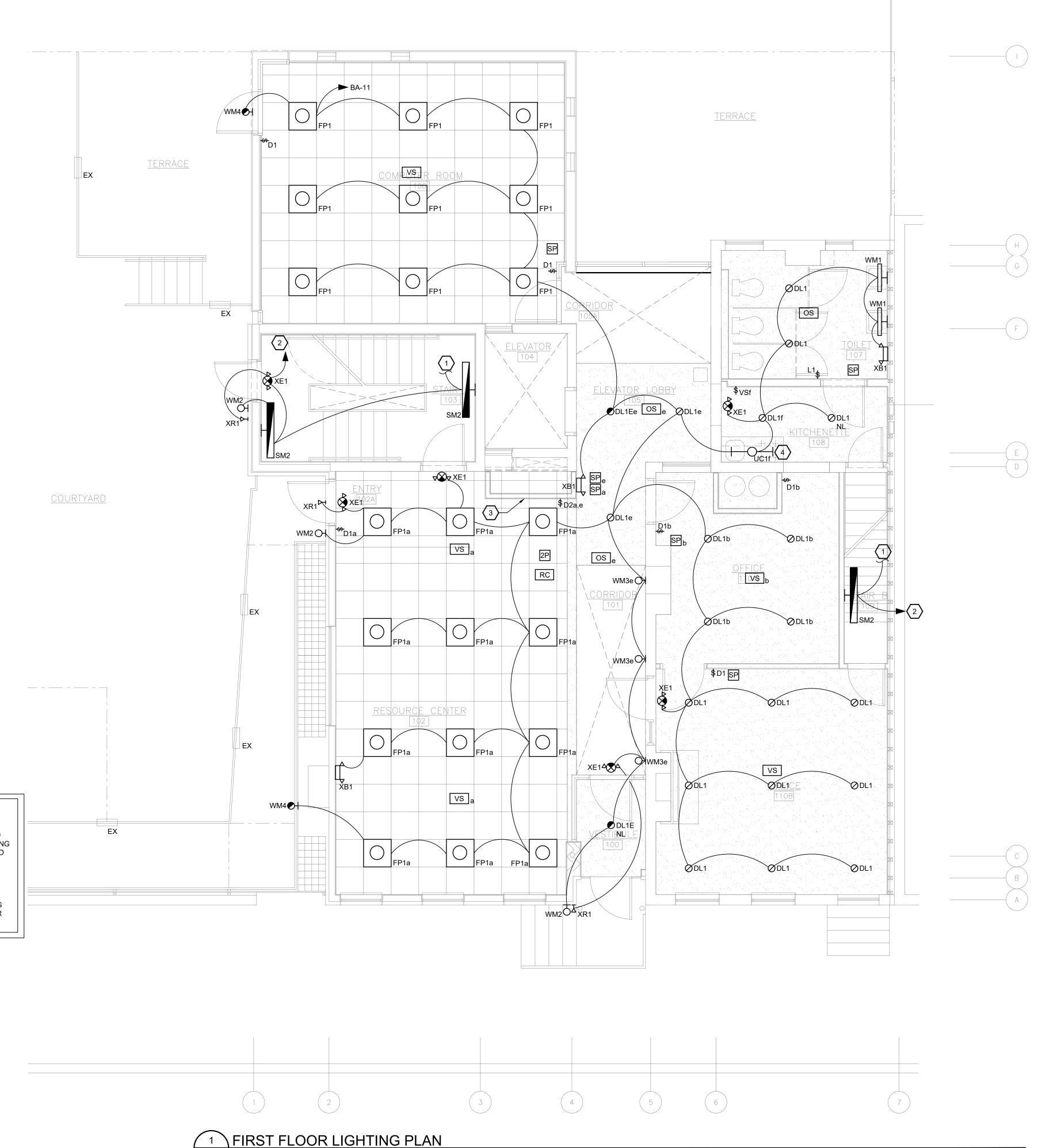
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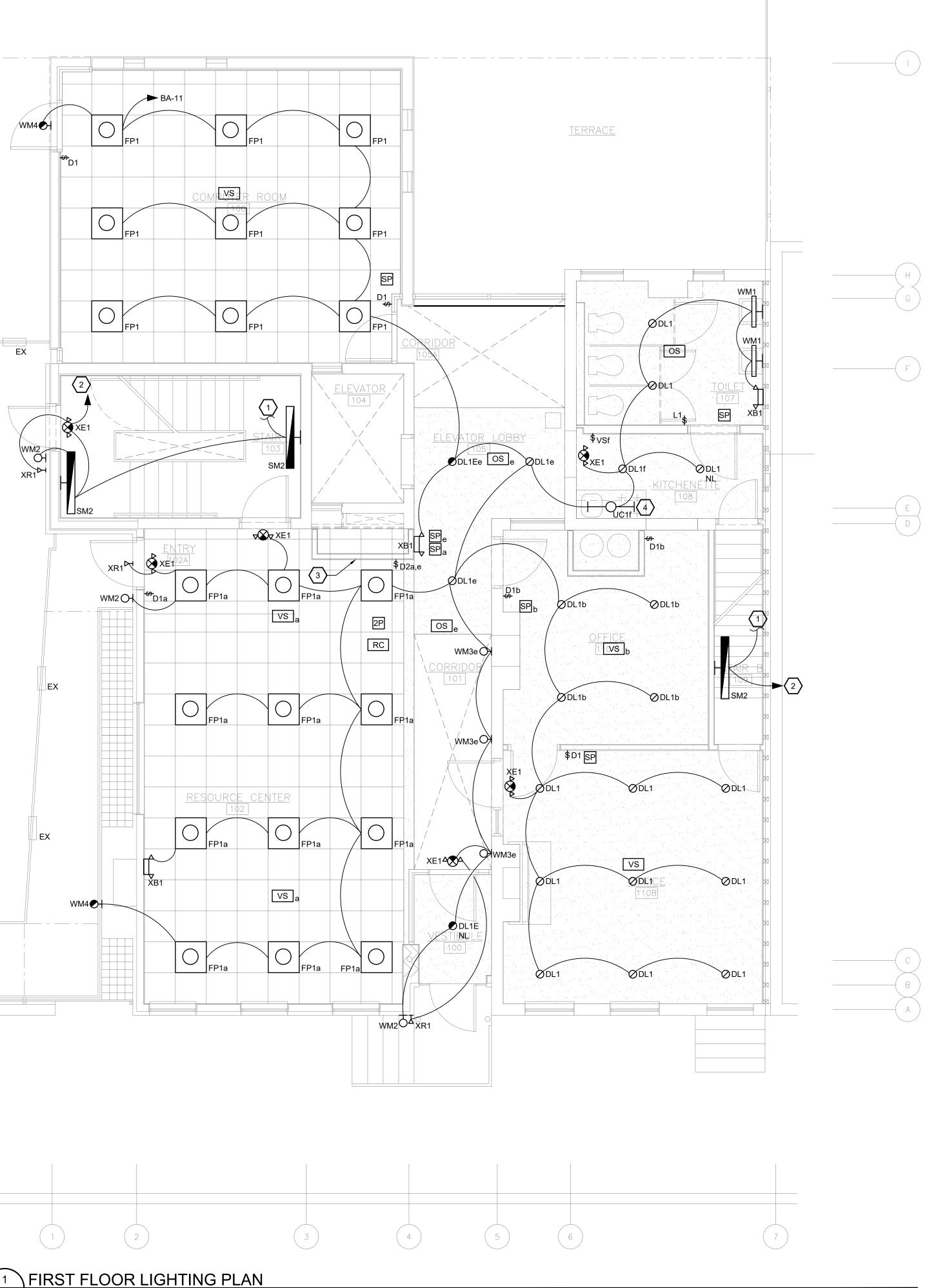
## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





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#### LIGHTING GENERAL NOTES:

- 1. FIRE STOP ALL FIRE RATED FLOORS, CEILINGS, AND WALLS AS REQUIRED BY CODE. PENETRATIONS INTO OR THROUGH FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH IBC CHAPTER 7.
- 2. PROVIDE EXPANSION FITTINGS AS REQUIRED AT ALL EXPANSION JOINTS. COORDINATE WITH ARCHITECTURAL PLANS.
- 3. WHERE EXPOSED, BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. WHERE CONCEALED WITHIN WALLS OR ABOVE CEILING, MC CABLE IS PERMISSIBLE. EXPOSED CONDUIT SHALL BE PAINTED PER ARCHITECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
- 5. EXIT SIGNS AND EMERGENCY WALL PACKS SHALL BE CIRCUITED TO AN UNSWITCHED HOT LEG OF THE CIRCUIT NOTED AHEAD OF LOCAL CONTROLS.
- 6. OCCUPANCY / VACANCY SENSORS HAVE BEEN LOCATED PER THE RECOMMENDED SPACING OF THE BASIS OF DESIGN PRODUCTS. THE EXACT LOCATIONS AND QUANTITY OF SENSORS SHALL BE VERIFIED BY THE MANUFACTURER FOR PRODUCTS SUBMITTED AS EQUALS.

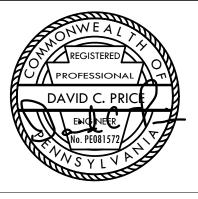
### LIGHTING KEY NOTES: (#)

- 1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.
- 2. CIRCUIT LIGHTING FIXTURES TO CIRCUIT SERVING THIS STAIRWELL. REFER TO BASEMENT LIGHTING PLAN E-200 FOR CIRCUIT DESIGNATION.
- 3. REINSTALL DEVICES ON THIS WALL THAT WERE SALVAGED THROUGH DEMOLITION AND CONFLICTED WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE REINSTALLED AND WHICH DEVICES SHALL BE DEMOLISHED. EXTEND CIRCUITS AS REQUIRED.
- 4. INSTALL (1) UNDERCABINET LIGHT FIXTURE. FIELD VERIFY TO DETERMINE THE EXACT LENGTH OF FIXTURE NEEDED.

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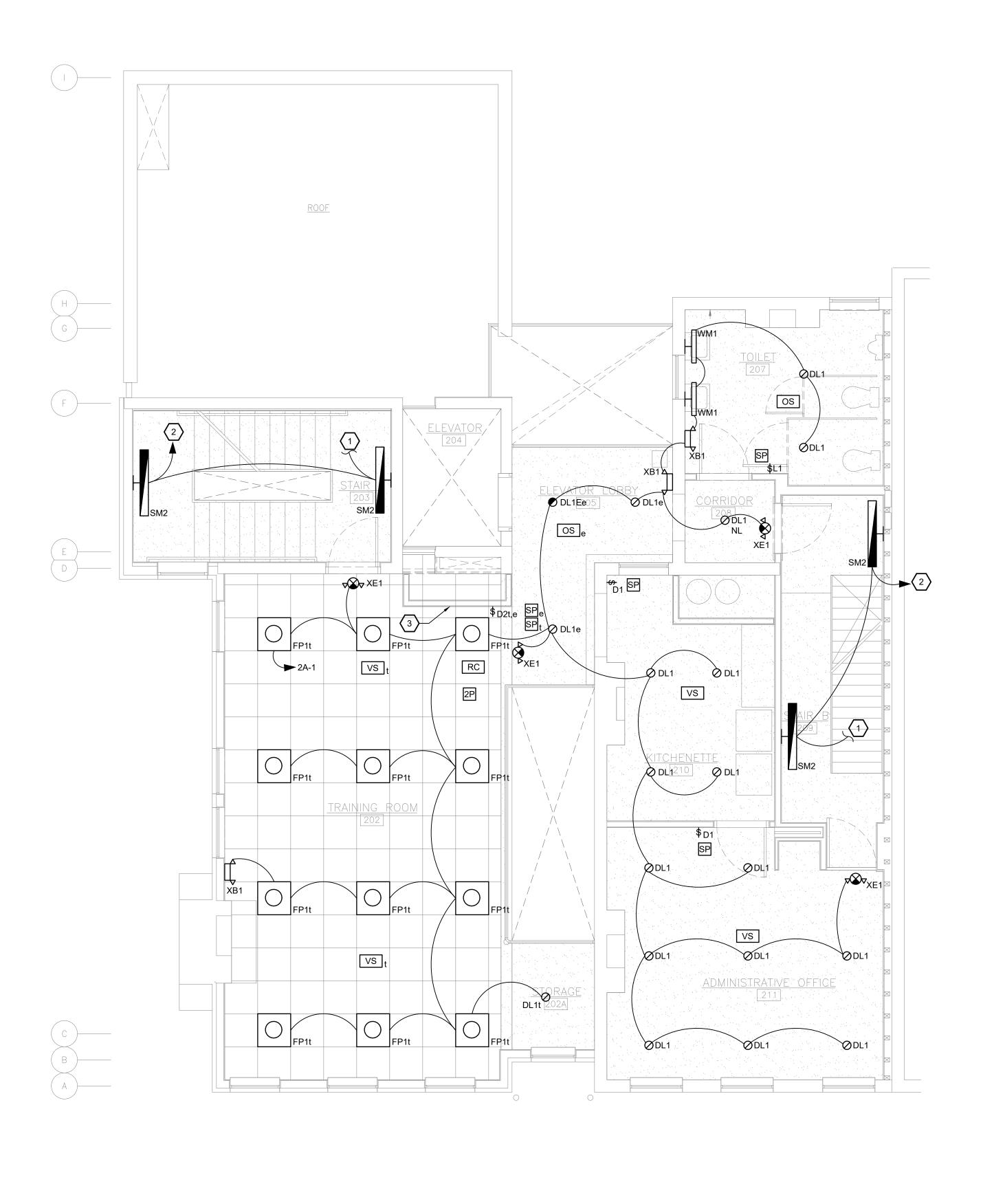
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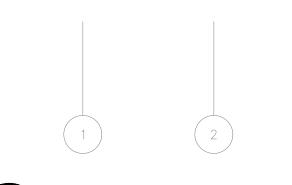
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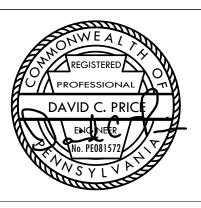
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- 3. REINSTALL DEVICES ON THIS WALL THAT WERE SALVAGED THROUGH DEMOLITION AND CONFLICTED WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE REINSTALLED AND WHICH DEVICES SHALL BE DEMOLISHED.

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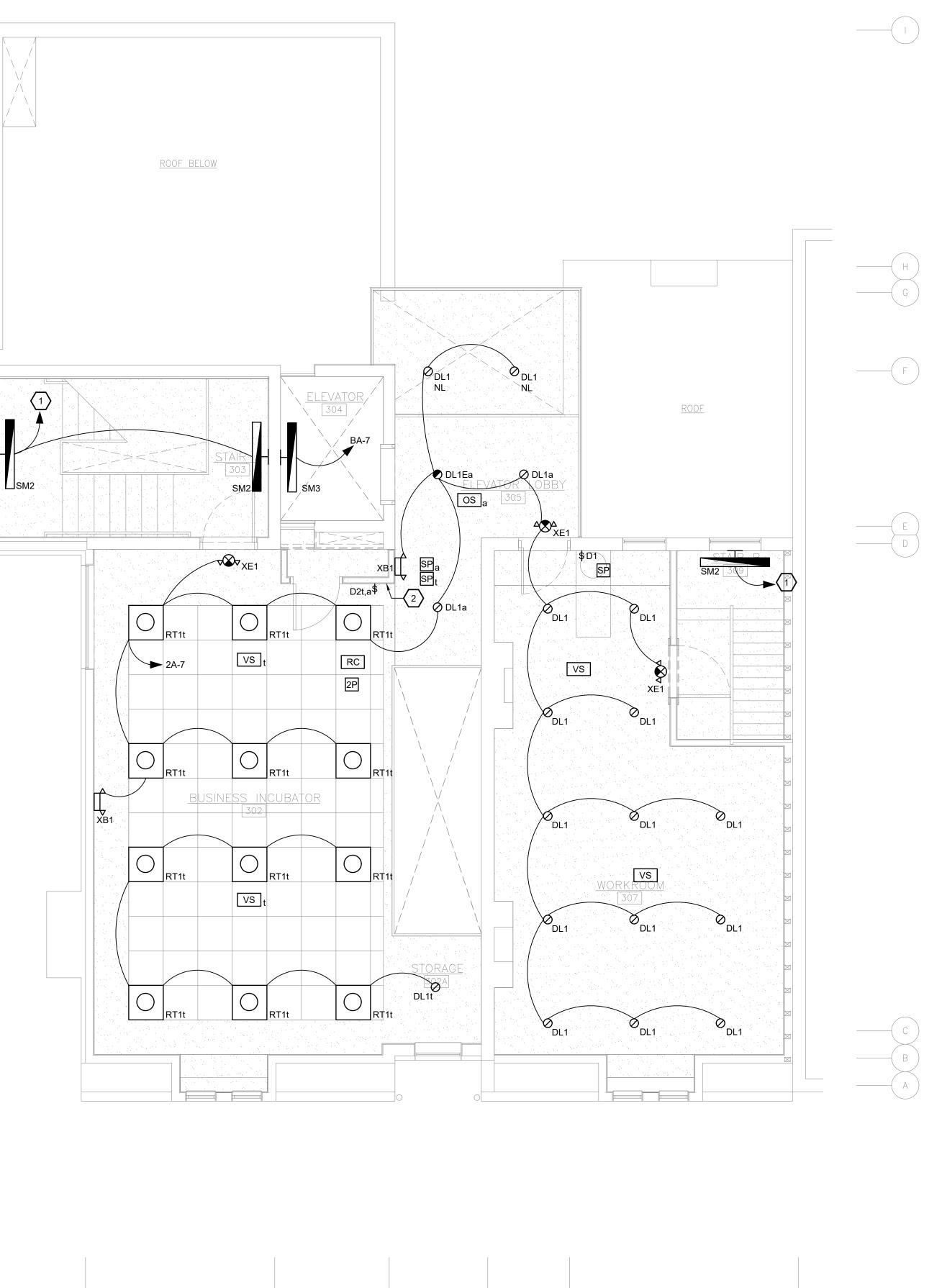
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## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



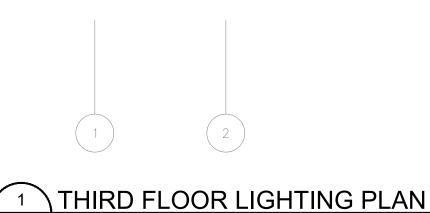


6

### ALTERNATE:

CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, WIRELESS AND WIRED CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHES. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH THE SALVAGING AND REINSTALLATION OF EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.





E-203 1/4" = 1'-0"

#### LIGHTING GENERAL NOTES:

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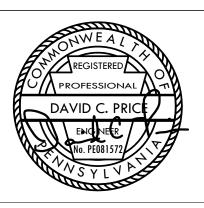
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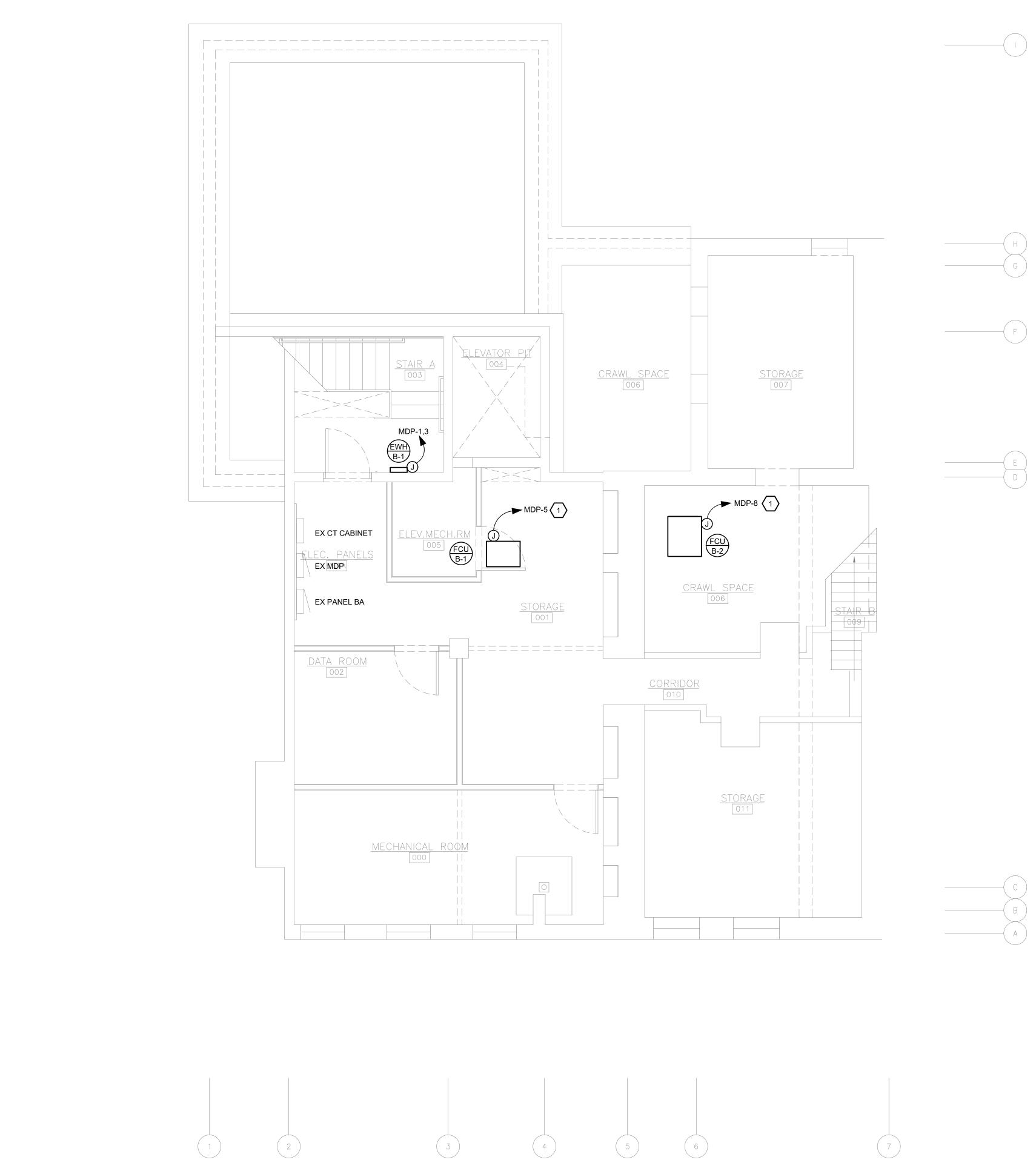
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PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**











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- 4. EC SHALL NOT HAVE MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT WITHOUT DERATING AMPACITIES PER THE NEC.
- 5. VERIFY EXACT LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
- 6. WHERE DEVICES ARE DIMENSIONED ON ARCHITECTURAL DRAWINGS, INSTALL DEVICES PER THOSE DIMENSIONS. WHERE DEVICE LOCATIONS ARE NOT DIMENSIONED ON ARCHITECTURAL DRAWINGS, INSTALL IN ACCORDANCE WITH DEFAULT LOCATIONS IN ELECTRICAL SPECIFICATIONS.
- 7. ALL ELECTRICAL DEVICES SHALL BE INSTALLED PER ADA.
- 8. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH DIVISION 23. MECHANICAL EQUIPMENT DISCONNECTS AND VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED BY DIVISION 23, INSTALLED AND WIRED BY EC, UNLESS NOTED OTHERWISE. THESE DISCONNECTS HAVE NOT BEEN SHOWN ON THIS PLAN.

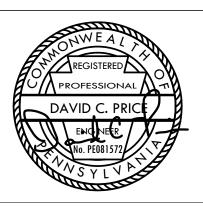
### <u>POWER KEY NOTES:</u> $\langle \# \rangle$

1. REUSE EXISTING CIRCUIT SALVAGED FROM DEMOLISHED MECHANICAL EQUIPMENT. EXTEND CIRCUIT AS REQUIRED TO NEW FURNACE.

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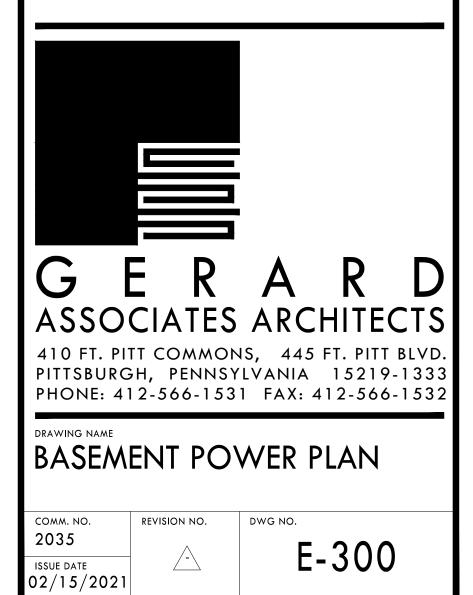
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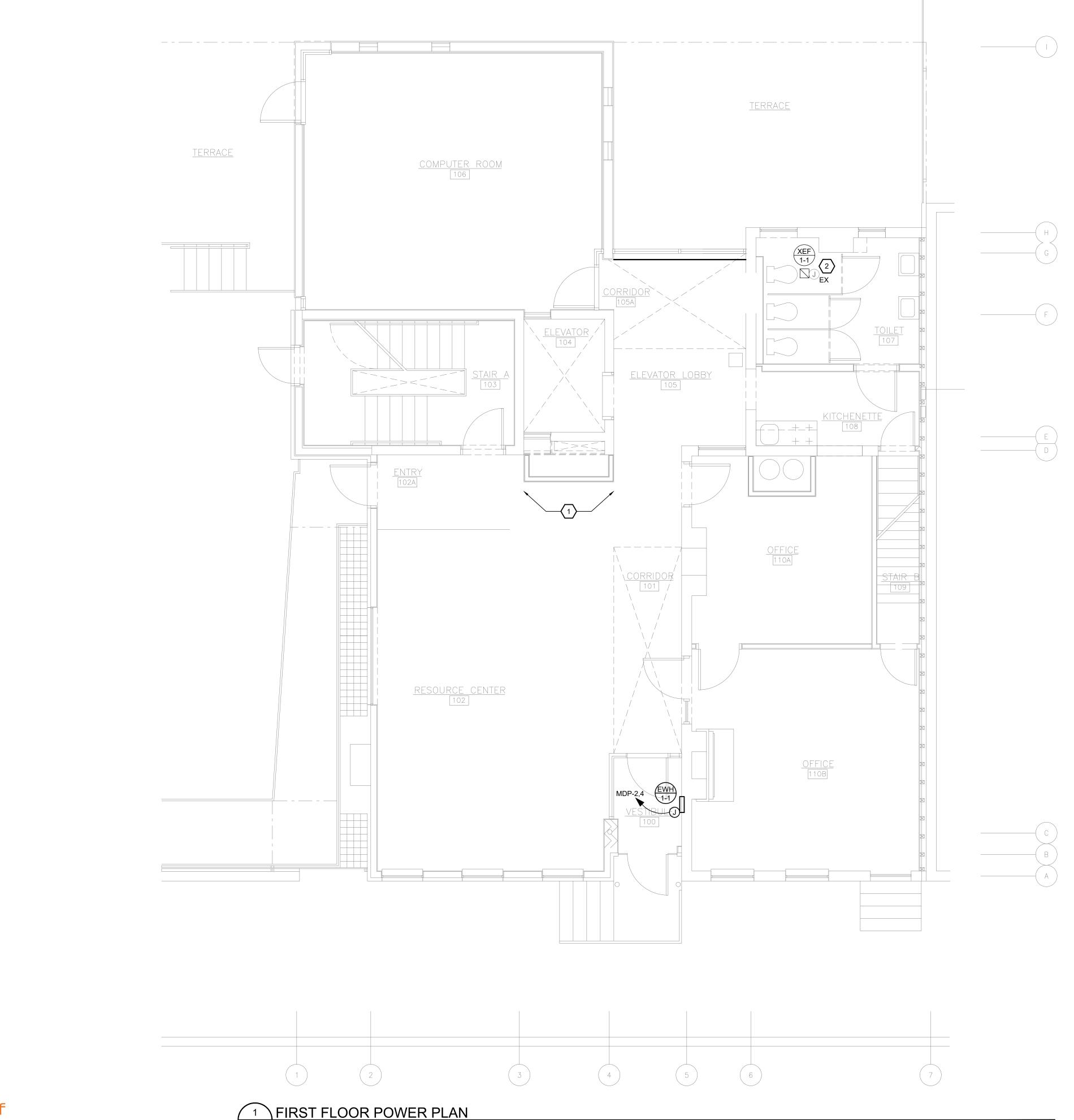


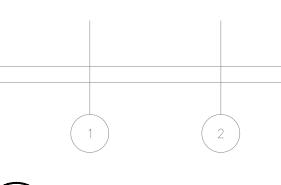
PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233











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- 4. EC SHALL NOT HAVE MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT WITHOUT DERATING AMPACITIES PER THE NEC.
- 5. VERIFY EXACT LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
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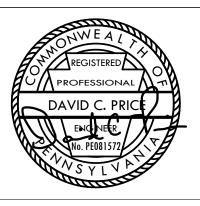
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- 2. EXISTING EXHAUST FAN SHALL BE CONTROLLED BY NEW LIGHTING SWITCH SHOWN ON 1ST FLOOR LIGHTING PLAN. CIRCUIT THROUGH LIGHTING POWER PACK/ROOM CONTROLLER FOR CONTROL THROUGH SWITCH AND OCCUPANCY SENSOR. REFER TO LIGHTING PLAN FOR CIRCUIT ASSIGNMENT.

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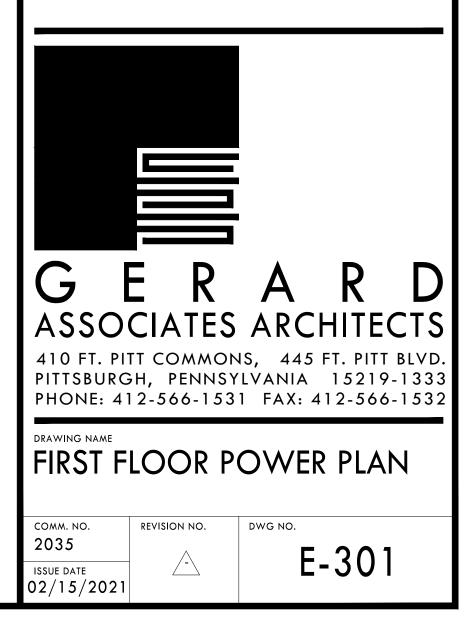
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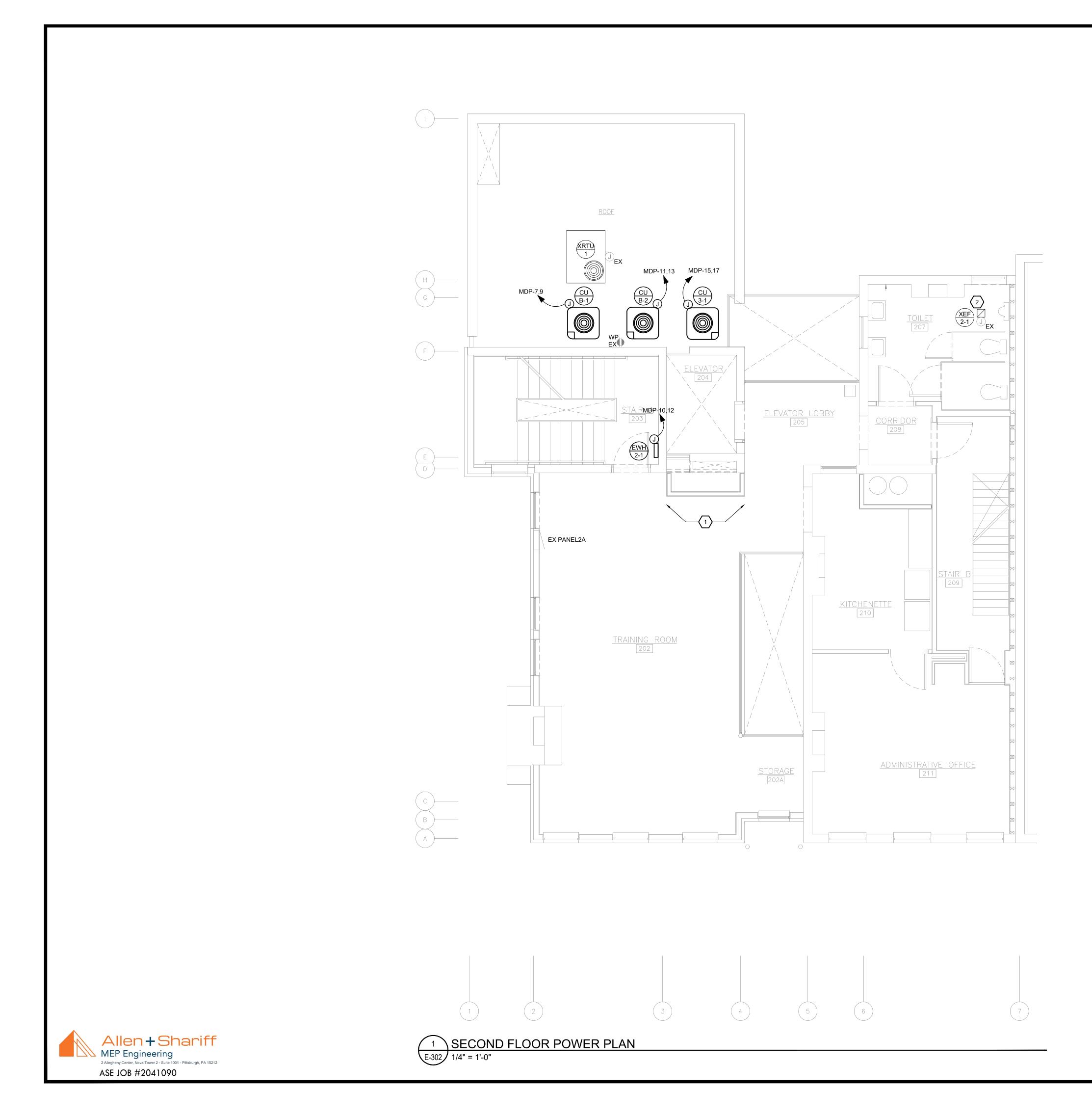


PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233





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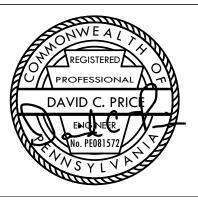
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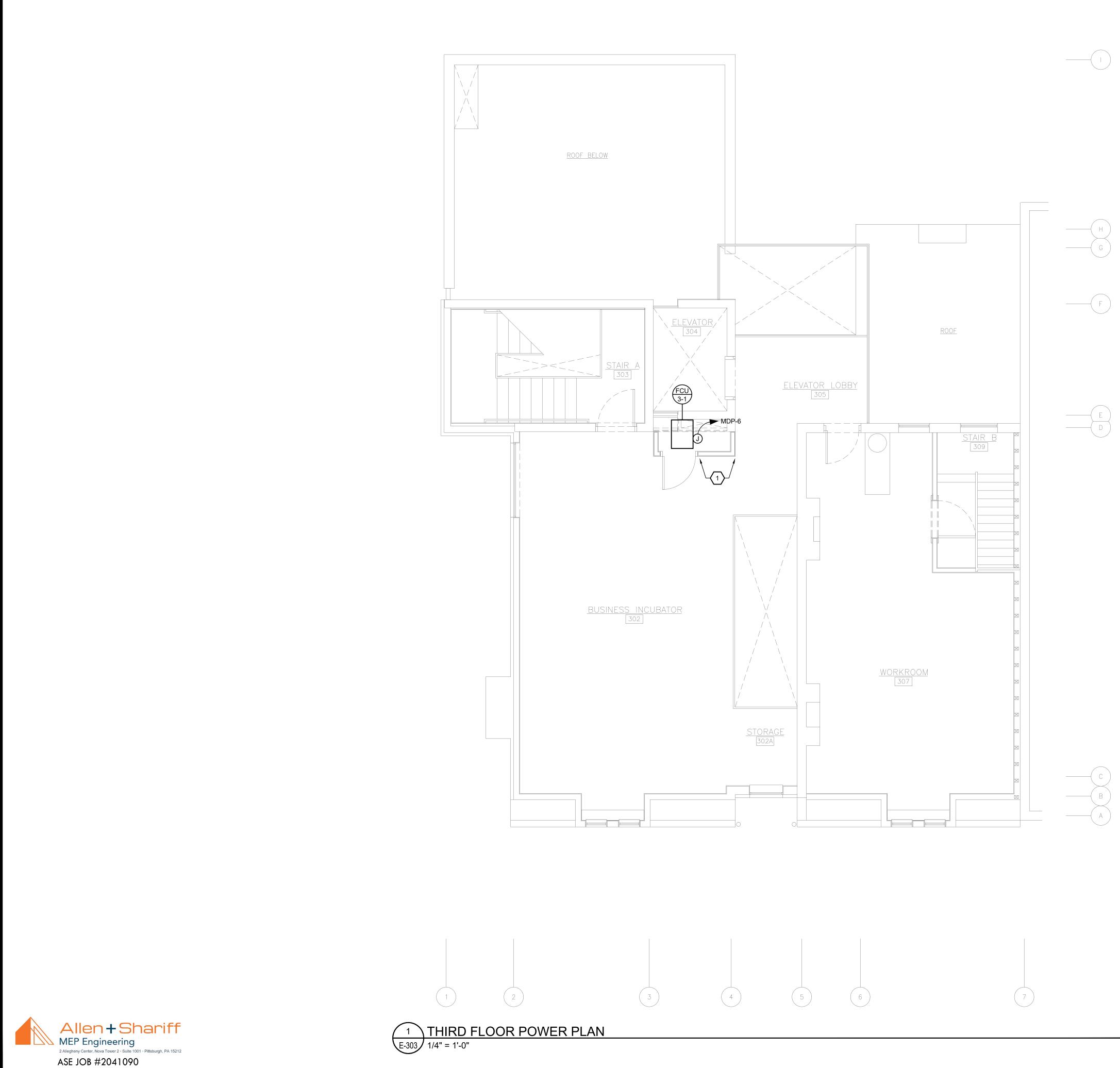
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER





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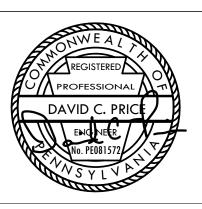
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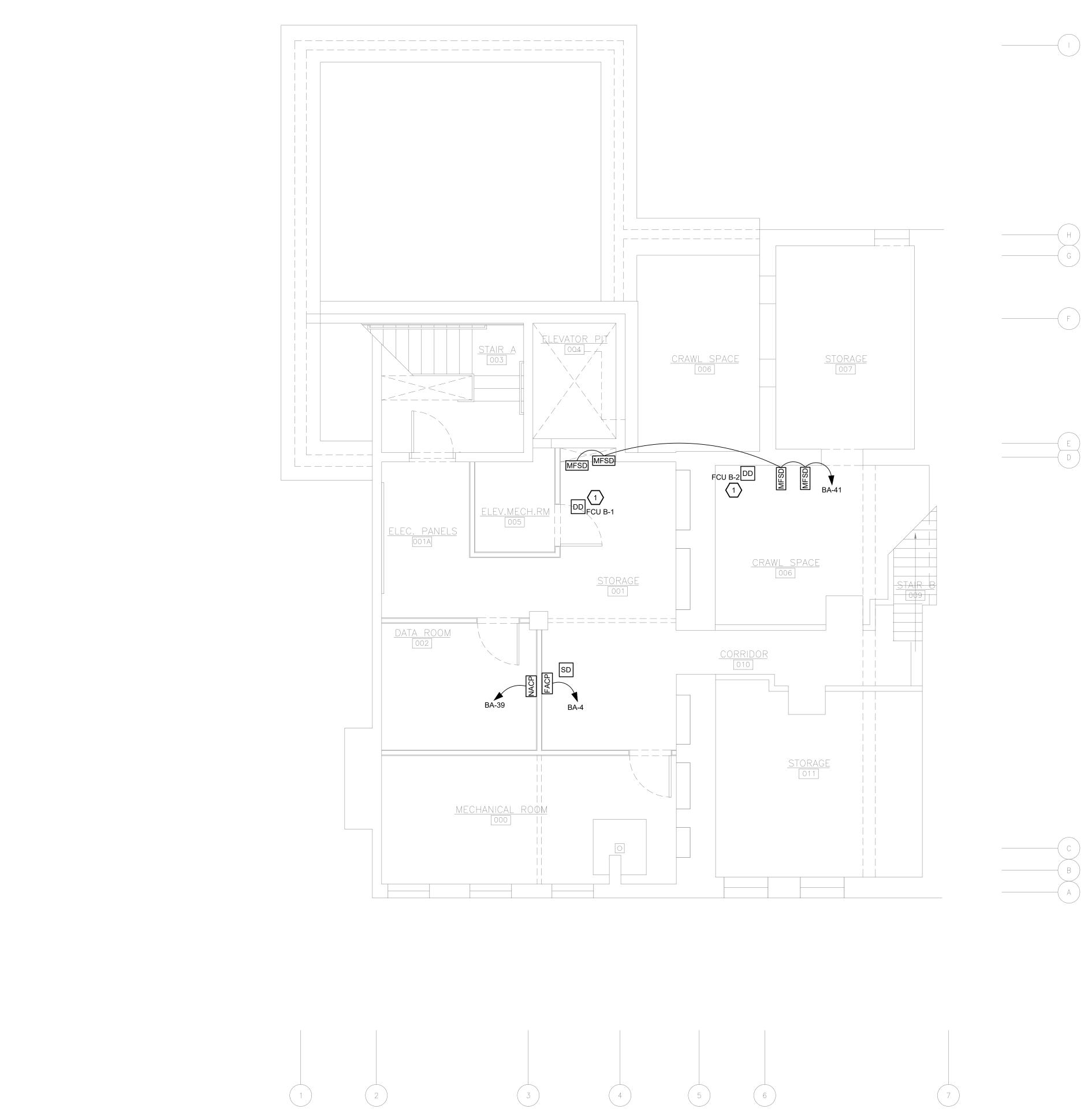


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233









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### <u>FIRE ALARM KEY NOTES:</u> $\langle \# \rangle$

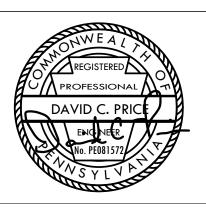
 ELECTRICAL CONTRACTOR SHALL FURNISH DUCT DETECTOR, DIVISION 23 SHALL INSTALL, AND ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM CONNECTION.

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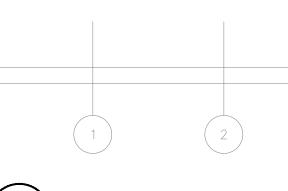


PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER











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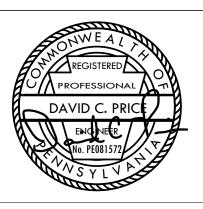
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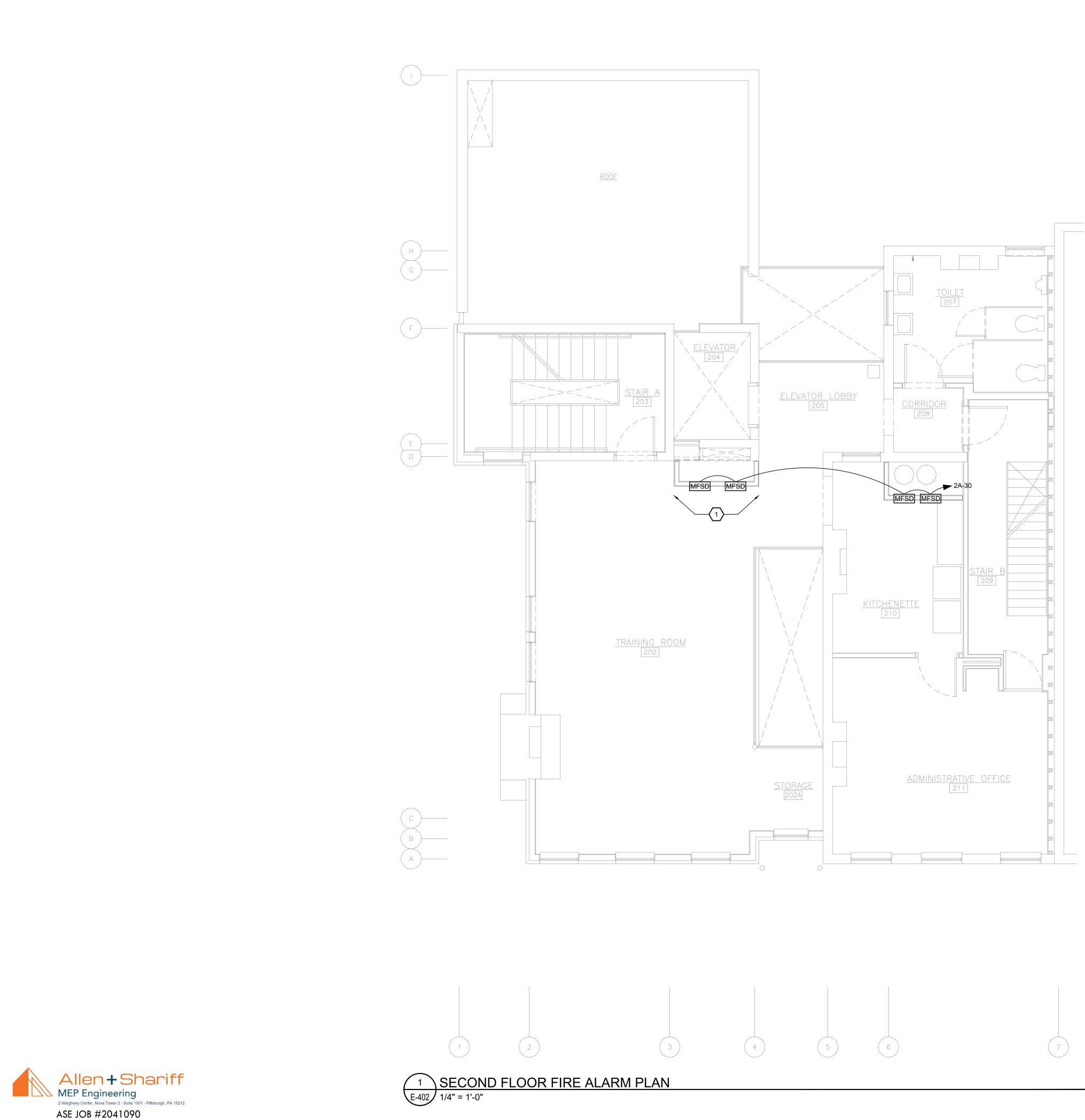
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PROPERTY REHABILITATION FOR:

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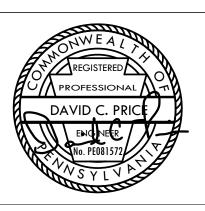
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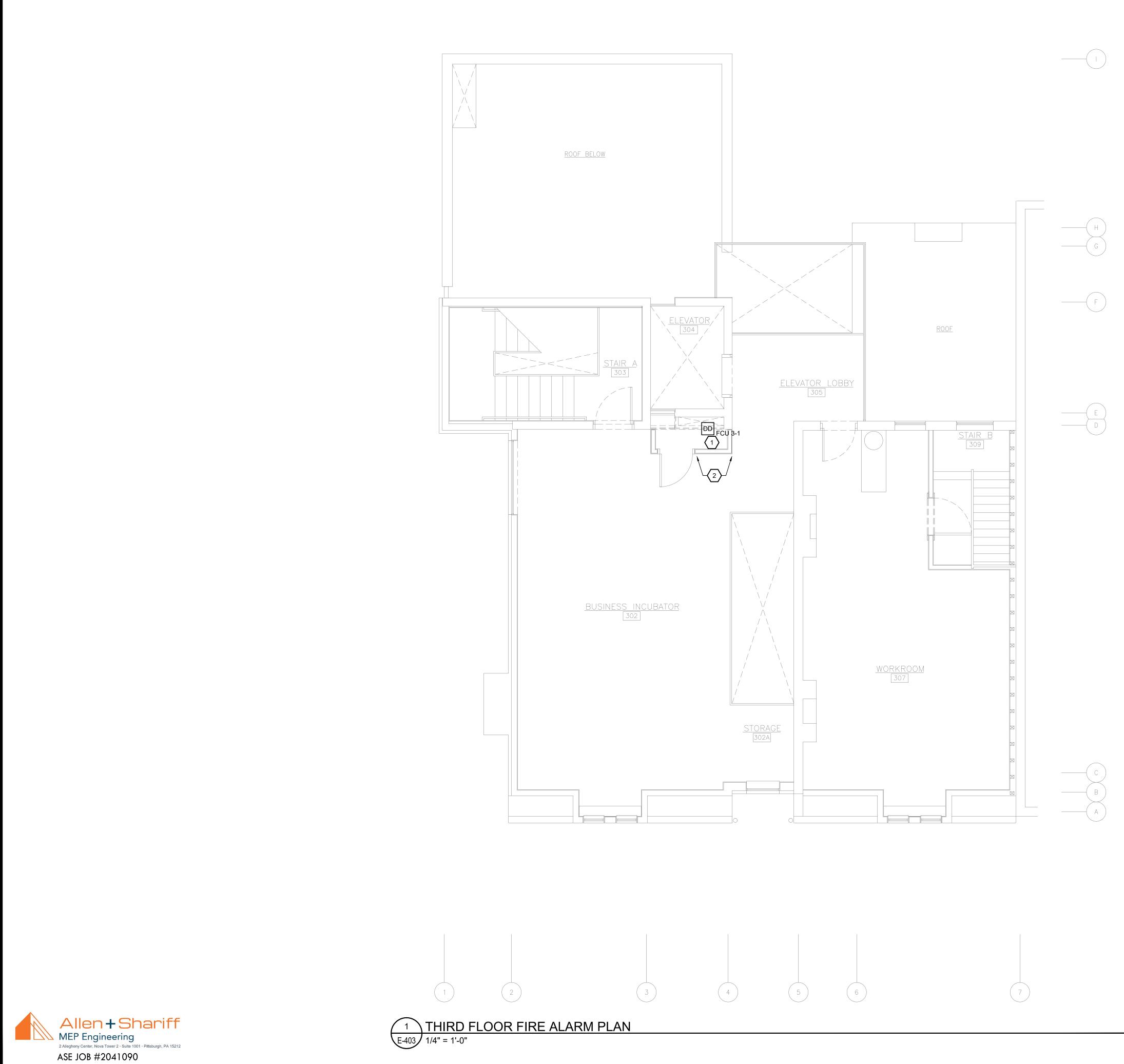
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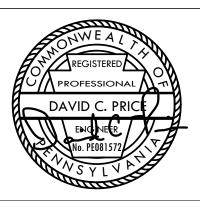
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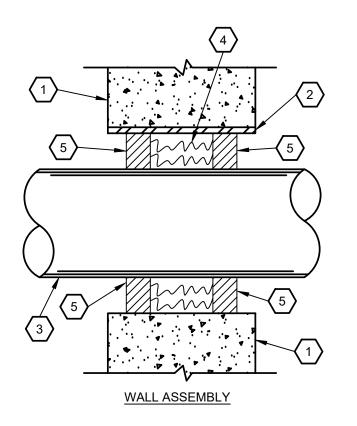


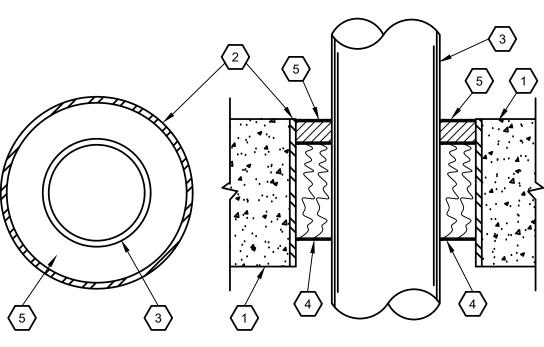
PROPERTY REHABILITATION FOR:

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REHAB BUILDING #35 PITTSBURGH, PA 15233







### <u>KEYED NOTES:</u> $\langle \# \rangle$

1. FLOOR OR WALL ASSEMBLY MINIMUM 5" THICK NORMAL WEIGHT CONCRETE FLOOR OR WALL OR MINIMUM 7-5/8" THICK MASONRY WALL HAVING A MINIMUM 2 HOUR FIRE RESISTIVE RATING WITH A NOMINAL 6" DIAMETER OPENING.

2. STEEL PIPE SLEEVE (OPTIONAL) NOMINAL 6" DIAMETER SCHEDULE 40 OR HEAVIER STEEL PIPE SLEEVE. (2 TRADE SIZES LARGER THAN CONDUIT).

3. STEEL OR EMT CONDUIT NOMINAL 4" DIAMETER CENTERED THROUGH THE OPENING.

4. FORMING MATERIAL MINERAL WOOL, MINIMUM DENSITY OF 4.4 PCF FIRMLY PACKED WITHIN THE OPENING TO A NOMINAL THICKNESS OF 3" FOR FLOORS. FOR WALLS, THE MINERAL WOOL SHALL BE CENTERED IN THE OPENING.

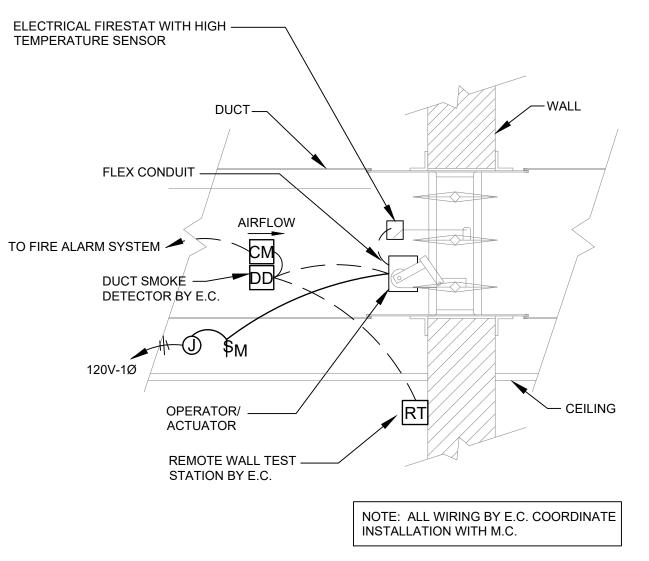
5. FILL, VOID OR CAVITY MATERIAL\* - FILL MATERIAL THAT IS TROWELED INTO THE OPENING TO A MINIMUM THICKNESS OF 1/2" IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. IN WALLS, THE FILL MATERIAL SHALL BE INSTALLED ON BOTH SURFACES OF THE OPENING.

\* BEARING THE "UL" CLASSIFICATION MARKING





FLOOR ASSEMBLY



### NOTES:

1. MOTORIZED FIRE SMOKE DAMPER (MFSD), FRAC. HP, 120V-1Ø. CONTRACTOR.

3. PROVIDE A JUNCTION BOX ABOVE THE CEILING FOR ALL LINE VOLTAGE POWER WIRING. PROVIDE A MANUAL MOTOR STARTER TOGGLE-STYLE SWITCH AS A DISCONNECTING MEANS FOR THE MFSD AS REQUIRED. 4. PROVIDE 2#12,1#12(G)-3/4"C. FROM THE JUNCTION BOX TO THE DISCONNECTING MEANS AND HOMERUN TO A 20A, 120V CIRCUIT BREAKER, TYING A MAXIMUM OF FOUR MFSD'S TO A 20A/1P CIRCUIT BREAKER.

5. PROVIDE ALL REQUIRED FIRE ALARM SYSTEM TIE-IN WIRING AND PROGRAM FIRE ALARM SYSTEM TO PERFORM THE MECHANICAL SEQUENCE OF OPERATION.



2. PROVIDE A DUCT TYPE SMOKE DETECTOR WITH A REMOTE TEST STATION AND AUXILIARY RELAY CONTACTS TO OPERATE THE DAMPER. COORDINATE THE ROUGH-IN LOCATION WITH MECHANICAL DETAILS AND MECHANICAL

2 MOTORIZED FIRE/SMOKE DAMPER DETAIL "MFSD"

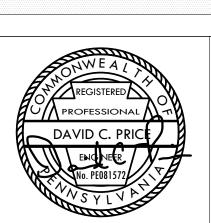
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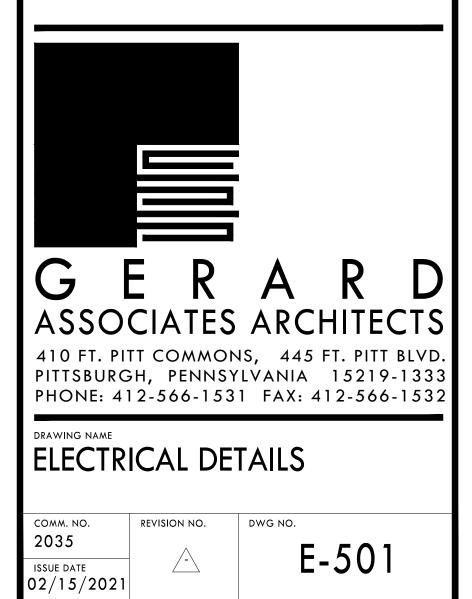
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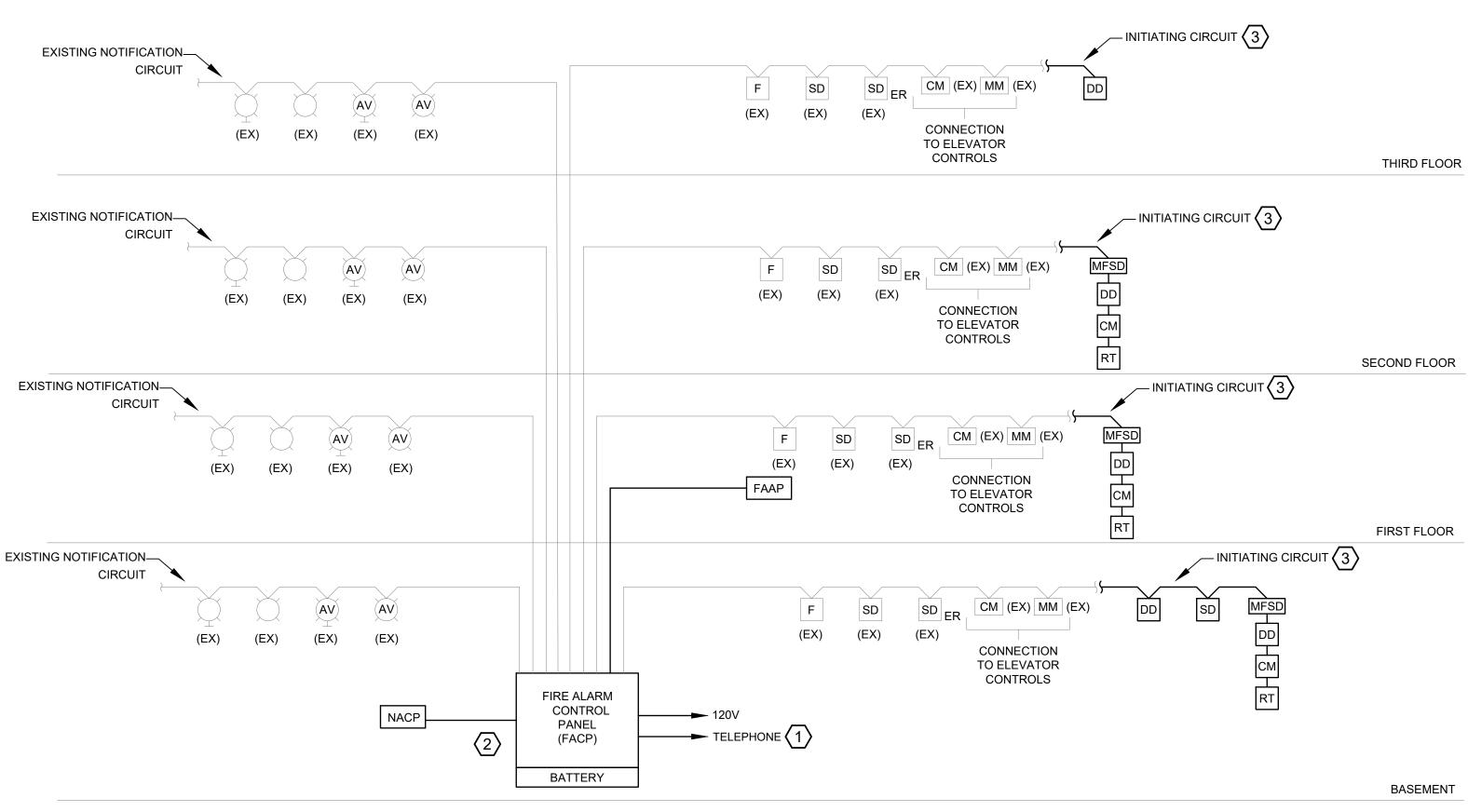
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PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





#### PARTIAL FIRE ALARM RISER DIAGRAM E-601 NOT TO SCALE

GENERAL FIRE ALARM SYSTEM NOTES:

- 1. THE EXISTING FIRE ALARM SYSTEM IS MANUFACTURED BY SIMPLEX. NEW EQUIPMENT AND DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
- 2. REFER TO FLOOR PLAN FOR QUANTITY AND LOCATION OF SYSTEM COMPONENTS. EXACT ARRANGEMENT AND QUANTITY OF DEVICES SHALL BE INDICATED ON THE SHOP DRAWINGS. PROVIDE COMPLETE RISER DIAGRAM AS PART OF SHOP DRAWINGS.
- 3. VERIFY WIRING SIZES WITH THE FIRE ALARM SYSTEM MANUFACTURER AND INSTALL AS DIRECTED. DO NOT LOAD ANY CIRCUIT BEYOND 80% OF RATED CAPACITY. SUBMIT CALCULATIONS TO SUBSTANTIATE. ADD ADDITIONAL CIRCUITS AS REQUIRED.
- 4. FIRE ALARM WIRING SHALL BE ROUTED VIA A SEPARATE CONDUIT SYSTEM (3/4" MINIMUM). FIRE RATED MC CABLE IS ACCEPTABLE WHERE CONCEALED. MC CABLE SHALL BE COLORED RED. PROVIDE CONDUIT SLEEVES WITH ESCUTCHEON PLATES WHERE PASSING THROUGH WALLS, FLOOR, OR CEILINGS.
- 5. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL POWER SUPPLIES. BATTERIES, EXTENDER PANELS, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 6. THIS CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS, WIRING DIAGRAMS, EQUIPMENT CUTS, ETC. AS PART OF THE SHOP DRAWING SUBMITTAL.
- 7. CANDELA RATING SHALL BE PER NFPA 72 CHAPTER 18 REQUIREMENTS. ALL VISUAL AND AUDIO DEVICES SHALL BE SYNCHRONIZED.
- 8. AUDIBLE ALARM SYSTEM SOUND PRESSURE LEVEL SHALL COMPLY WITH IBC 907.5.2.1.
- 9. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA 72, AND LOCAL FIRE DEPARTMENT REQUIREMENTS BY THE INSTALLER. IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHALL. UPON COMPLETE ON A SUCCESSFUL TEST, THE INSTALLER SHALL SO CERTIFY, IN WRITING, TO THE OWNER AND GENERAL CONTRACTOR.
- 10. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, PRODUCTS, EXECUTION, AND INSTALLATION OF THE FIRE ALARM SYSTEM.
- 11. WIRING SHALL BE INSTALLED IN THE APPROPRIATE RACEWAY TO MEET THE SURVIVABILITY REQUIREMENTS OF THE CITY OF PITTSBURGH CODE ENFORCEMENT.
- 12. PROVIDE REMOTE TEST SWITCHES AND ASSOCIATED CONTROL MODULES FOR ALL FIRE SMOKE AND SMOKE DAMPERS. COORDINATE EXACT LOCATION OF ALL TEST SWITCHES WITH OWNER PRIOR TO ROUGH-IN. THESE SHALL BE LOCATED IN UTILITY/BACK-OF-HOUSESPACES.
- 13. EXISTING DUCT DETECTORS, DAMPERS AND RELATED EQUIPMENT (NOT SHOWN) SHALL REMAIN IN PLACE, IN SERVICE. WHERE REQUIRED, EC SHALL RELOCATE ALL TEST SWITCHES ASSOCIATED WITH EXISTING EQUIPMENT TO MAINTAIN ACCESSIBILITY IN NEW CEILING. EXTEND FIRE ALARM CIRCUIT AS REQUIRED.



### KEY NOTES: (#)

- 1. IN ORDER TO PROVIDE DIAL OUT TO FIRE DEPARTMENT, TWO SOURCES SHALL BE PROVIDED TO THE DACT WITHIN THE FIRE ALARM SYSTEM PER NFPA 26.6.3.2.1.4. THE SYSTEM SHALL EMPLOY ONE PHONE LINE AND AN ADDITIONAL TRANSMISSION MEANS AS ALLOWABLE UNDER THAT CODE SECTION AND DEEMED AVAILABLE AT THE SITE. THE OWNER MAY ALSO CHOOSE TO EMPLOY AN ALTERNATE TRANSMISSION MEANS APPROVED BY NFPA IN PLACE OF THE SECOND TELEPHONE LINE. COORDINATE WITH OWNER WHETHER DACT SHOULD DIAL DIRECTLY TO FIRE DEPARTMENT OR TO THIRD PARTY 24/7 MONITORING SERVICE CONTRACTED BY OWNER.
- 2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXISTING FIRE ALARM SYSTEM AND PROVIDE A NEW FACP THAT IS COMPATIBLE WITH THE EXISTING INITIATING AND NOTIFICATION DEVICES. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DEVICES FOR THE NEW FACP TO COMMUNICATE WITH THE OLD DEVICES.
- 3. PROVIDE EXTENSION OF EXISTING FIRE ALARM CIRCUITS TO SUPPLY NEW FIRE ALARM DEVICES. WHERE EXISTING CIRCUITS ARE NOT SIZED TO ACCOMMODATE ADDITIONAL FIRE ALARM DEVICES, PROVIDE NEW FIRE ALARM CIRCUIT TO SERVE FLOOR. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL POWER SUPPLIES, BATTERIES, EXTENDER PANELS, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. AII FIRE ALARM DEVICES SHALL BE FULLY COMPATIBLE WITH EXISTING SYSTEM.

THE FIRE ALARM SCOPE INCLUDES THE REPLACEMENT OF THE EXISTING FIRE ALARM CONTROL PANEL AND THE ADDITION OF INITIATING DEVICES WHERE NOTED ON THE FIRE ALARM NEW WORK PLANS. THE NEW FIRE ALARM CONTROL PANEL SHALL BE FULLY COMPATIBLE AND FUNCTIONAL WITH THE EXISTING INITIATING AND NOTIFICATION DEVICES. ALL EXISTING WIRING AND CONDUIT TO DEVICES SHALL BE REUSED UNDER THIS SCOPE.

THE BASIS OF DESIGN FOR THE FIRE ALARM CONTROL PANEL (FACP) IS A SIMPLEX 4100ES PANEL. CONTACT SIMPLEX REPRESENTATIVE JEFF GASPARIK, (724) 741-3474, WITH QUESTIONS REGARDING THE COMPATIBILITY OF THE NEW PANEL WITH THE EXISTING NOTIFICATION AND INITIATING DEVICES.

FIRE ALARM PERMIT NOTE (CITY OF PITTSBURGH):

THE E.C. BID SHALL INCLUDE THE COST FOR AN INDEPENDENT THIRD PARTY PROFESSIONAL ENGINEER TO SIGN, DATE, AND SEAL ALL FIRE ALARM DOCUMENTS REQUIRED FOR BUILDING PERMIT. THE FIRE ALARM DOCUMENTS INCLUDED WITH THE E-SERIES DRAWINGS ARE PROVIDED FOR FIRE ALARM DESIGN INTENT WITHIN THE CITY OF PITTSBURGH. THE CITY OF PITTSBURGH WILL REQUIRE SIGNED/SEALED MANUFACTURER SHOP DRAWINGS (BY THE INDEPENDENT THIRD PARTY) FOR PERMIT APPROVAL BEYOND THE DOCUMENTS CONTAINED IN THE E-SERIES DRAWINGS.

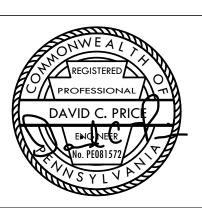
THE FIRE ALARM SHOP DRAWINGS SHALL INCLUDE AT A MINIMUM FIRE ALARM FLOOR PLANS AND A RISER DIAGRAM. EACH PLAN OR RISER SHALL INDICATE THE NUMBER AND TYPES OF FIRE ALARM DEVICES INSTALLED ON EACH CIRCUIT, DEVICE ADDRESSES, CONDUCTOR TYPES AND SIZES, FIRE ALARM ZONES, PRIMARY AND SECONDARY POWER SUPPLIES (AS NECESSARY), AND ALL NEW FIRE ALARM DEVICES AS ADDED TO EXISTING CIRCUITS. DOCUMENTS SHALL ALSO CONTAIN BATTERY AND VOLTAGE DROP CALCULATIONS.

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REVISIONS

THE SITE.



PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



	Donol	
Existing	Fallel	

MDP

Location: MAIN ELECTRICAL ROOM Supply From: EXISTING UTILITY SERVICE Mounting: SURFACE Enclosure: TYPE 1

Volts:	208/120V
Phases:	3
147	

Wires: 4

A.I.C. Rating: EXISTING KAIC Mains Type: MCB Mains Rating: 400 MCB Rating: 400

10 12

14

18 20

24 26

CK

CK	Circuit Description	Wire Size	Trip	Pole		LOAD (VA)				Pole	Trip	Wire Size	Circuit Descriptio		
UN		Wile Size	mp			A		В	(	С	FUIC	mp	VVIIE SIZE		
1	EWH B-1 (NOTE 4)	3#12, 1#12G - 3/4"C	20	2	1500	1500					2	20	3#12, 1#12G - 3/4"C	EWH 1-1 (NOTE 4)	
3		J#12, 1#12 <b>G -</b> J/4 C	20	2			1500	1500			1 1	20	J#12, 1#12 <b>G -</b> 5/4 C		
5	FCU B-1 (NOTE 3)	2#12, 1#12G - 3/4"C	20	1					1380	1380	1	15	2#12, 1#12G - 3/4"C	FCU 3-1 (NOTE 4)	
7	CU B-1 (NOTE 4)	3#4, 1#10G - 1"C	60	2	3619	1380					1	20	2#12, 1#12G - 3/4"C	FCU B-2 (NOTE 3)	
9	CO B-1 (NO 1E 4)	5#4, 1#10 <b>G</b> - 1 C	00	2			3619	1500			2	20	3#12, 1#12G - 3/4"C	EWH 2-1 (NOTE 4)	
11	CU B-2 (NOTE 4)	3#4, 1#10G - 1"C	60	2					3619	1500	1 2	20	J#12, 1#12 <b>G</b> - 5/4 C		
13	CO B-2 (NO 1E 4)	J#4, 1#10G - 1 C	00	2	3619										
15	CU 3-1 (NOTE 4)	3#4, 1#10G - 1"C	60	2			3619				3	40	EXISTING	EX CONDENSING UN	
17	CU 3-1 (NOTE 4)	3#4, 1#10G - 1°C	00	2					3619		1				
19															
21	EX PANEL 2A	EXISTING	100	3							3	60	EXISTING	EX SPARE	
23											1				
25															
27	EX ELEVATOR	EXISTING	150	3							3	150	EXISTING	EX PANEL BA	
29	-														
		1	Fotal L	oad:	11	11618 11738 11498									
	Panel Amps:						96	6.7							
NO	TES:														
1. I	UNLESS OTHERWISE NOTED	D, ALL BRANCH CIRCUIT I	3REAł	KERS	ARE EX	XISTING	TO REM	AIN.							
2. I	LOADS IN BOLD ARE NEW L	OADS ON EXISTING PAN	EL.												
3. (	(WHERE NOTED) REUSE EXI	STING CIRCUIT BREAKEF	THA7	PRE	VIOUSL	Y SERV	ED DEN	OLISHE	D MECH	ANCAL	EQU	IPMEN	IT.		
4. (	4. (WHERE NOTED) PROVIDE NEW CIRCUIT BREAKER SIZED AS SHOWN. MATCH THE MANUFACTURER, MODEL, AND AIC RATING OF EXISTING BREAKERS.														
F	ixisting Brand	ch Panel	B	Δ											
<b>_</b>	•														
		MAIN ELECTRICAL ROO	VI			Volts: 208/120V							A.I.C. Rating: EXISTING KAIC		
	Supply From:					Phases: 3					Mains Type: MLO				
		SURFACE				Wires: 4					Mains Rating				
Enclosure: TYPE 1													MCB Rating	-	

СКТ	Circuit Description	Wire Size	Trip	Pole	LOAD (VA)					Dolo	Trip	Wire Size	Circuit Description	СКТ	
ONT		WIE SIZE	тір	FUIE	A	A	В		C		FUIE	mp	WIE SIZE		ONI
1	LTG BASEMENT	2#12, 1#12G - 3/4"C	20	1	520						1	20	EXISTING	EX REC BASEMENT	2
3	EX EM BATTERY UNIT	EXISTING	20	1				500			1	20	2#12, 1#12G - 3/4"C	FACP (NOTE 3)	4
5	LTG STAIRWELL A	2#12, 1#12G - 3/4"C	20	1					293		1	20	EXISTING	EX LTG ELEV CAB LTS	6
7	LTG ELEVATOR PIT	2#12, 1#12G - 3/4"C	20	1	102						1	20	EXISTING	EX REC ELEVATOR	8
9	LTG ELEV MACHINE RM	2#12, 1#12G - 3/4"C	20	1			46				1	20	EXISTING	EX REC TELEPHONE REC	10
11	LTG 1ST FLOOR	2#12, 1#12G - 3/4"C	20	1					1550		1	20	EXISTING	EX REC SECURITY REC	12
13	EX LTG ATRIUM	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	14
15	EX LTG 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	16
17	EX LTG 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	18
19	EX CIRCUIT	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	20
21	EX CIRCUIT	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	22
23	EX WATER FOUNTAIN	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	24
25	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	26
27	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	28
29	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	30
31	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC BASEMENT	32
33	EX REC EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX REC BASEMENT	34
35	EX REC EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX SNOW MELT	36
37	EX LTG EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX 1ST FLR BATH & STAIR	38
39	NACP (NOTE 3)	2#12, 1#12G - 3/4"C	20	1			500	500			1	20	2#12, 1#12G - 3/4"C	1ST FL MFSD'S	40
41	BASEMENT MFSD'S	2#12, 1#12G - 3/4"C	20	1					1000		1	20		EX SPARE	42
		Т	otal L	oad:	62	22	15	21/223	28	43					
	Panel Amps: 13.9														

NOTES:

. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS ARE EXISTING TO REMAIN.

2. LOADS IN BOLD ARE NEW LOADS ON EXISTING PANEL. . PROVIDE LOCKING DEVICE ON EXISTING BREAKER.

Existing Branch Panel: 2A Location: 2ND FLOOR TRAINING ROOM Volts: 208/120V A.I.C. Rating: EXISTING KAIC Supply From: MDP Mains Type: MLO Phases: 3 Mounting: RECESSED Wires: 4 Mains Rating: 100 Enclosure: TYPE 1 MCB Rating: -LOAD (VA) Circuit Description Wire Size Wire Size Circuit Description R A LTG 2ND FLOOR 2#12, 1#12G - 3/4"C 963 EXISTING EX REC 2ND FLOOR 3 EX LTG 2ND FLOOR EXISTING EXISTING EX REC 2ND FLOOR 5 EX LTG 2ND FLOOR EXISTING 1 20 EXISTING EX REC 2ND FLOOR 7 LTG 3RD FLOOR 2#12, 1#12G - 3/4"C 934 EXISTING EX REC 2ND FLOOR 1 20 9 EX LTG 3RD FLOOR EXISTING 1 20 EXISTING EX REC 2ND FLOOR 11 EX LTG 3RD FLOOR EXISTING EXISTING EX REC 3RD FLOOR 1 20 LTG STAIRWELL B 2#12, 1#12G - 3/4"C 190 EXISTING EX REC 3RD FLOOR 1 20 EX REC ROOFTOP GFI EXISTING EXISTING EX REC 3RD FLOOR 1 20 **EX STEREO** EXISTING EXISTING EX REC 3RD FLOOR EX WATER FOUNTAIN EXISTING EXISTING EX LTG 3RD FLOOR 1 20 EX LTG 2ND FLOOR EXISTING EXISTING EX REC BATHROOM GFI **EX REFRIGERATOR** EXISTING EX RANGE EXISTING 50 EX RIGHT KITCHEN GFI EXISTING EX DISHWASHER EXISTING EXISTING EX CUBICLES 1 20 2#12, 1#12G - 3/4"C 2ND FL MFSD'S 29 EX MICROWAVE EXISTING 20 1000 Total Load: 2087 1000 0

8.6

NOTES:

. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS ARE EXISTING TO REMAIN.

Panel Amps:

. LOADS IN BOLD ARE NEW LOADS ON EXISTING PANEL.



			LIGHTING FIXTUR			ULE		
TYPE	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	LAMP #	AMP(S) LAMP TYPE	DRIVER/ BALLAST		1//
DL1	6" RECESSED DOWNLIGHT	HALO	FRAME: HC6-20-D010 LED MODULE: HM6-12-835		LED, 3500K,	0-10V, DIM TO	21	1
DL1E	6" RECESSED DOWNLIGHT WITH EMERGENCY BATTERY	HALO	REFLECTOR: 61-MD-H FRAME: HC6-20-D010-REM14 LED MODULE: HM6-12-835 REFLECTOR: 61-MD-H		2000LM LED, 3500K, 2000LM	1% 0-10V, DIMTO 1%	21	1
FP1	2'X2' FLAT PANEL	METALUX	22-FPX-42-L835-HCD		LED, 3500K, 4200LM	0-10V, DIM TO 1%	42	1
SM1	4'-0" SURFACE MOUNTED STRIP FIXTURE W/ ROUND LENS	METALUX	4SNLED-LD5-50SL-LW-UNV-L835-CD1-U		LED, 3500K, 5000LM	0-10V, DIM TO 10%	46	1
SM1E	4'-0" SURFACE MOUNTED STRIP FIXTURE W/ ROUND LENS AND EMERGENCY BATTERY	METALUX	4SNLED-LD5-50SL-LW-UNV-EL14W-L835-CD1-U		LED, 3500K, 5000LM	0-10V, DIM TO 10%	46	1
SM2	4'-0" WALL MOUNTED STAIR FIXTURE W/ EMERGENCY BATTERY AND INTEGRAL OCCUPANCY SENSOR	METALUX	4SWLED-40SL-LW-UNV-EL14W-L835-CD1-SVPD2-U		LED, 3500K, 4000LM	0-10V	38	1
SM3	4'-0" SURFACE MOUNTED, WET LISTED VAPORTIGHT STRIP FIXTURE WITH EMERGENCY BATTERY	METALUX	4VT2-LD5-6-FR50-UNV-EL10W-L835-CD1-WL-U		LED, 3500K, 6000LM	0-10V	51	1
WM1	2' WALL MOUNTED VANITY FIXTURE	METALUX	2BCLED-LD4-20SL-F-UNV-L835-CD-1-U		LED, 3500K, 2000LM	0-10V	23	1:
VMM2	EXTERIOR WALL SCONCE WITH PHOTOCELL	ASL	BCJA-W24-ND-30K-H21-PC-XX		LED, 3000K, 2800LM	LED	24	1:
WM3	INTERIOR DECORATIVE WALL SCONCE	ASL	BCRBA-W24-DVD-35K-H20-XX		LED, 3500K, 2800LM	0-10V	24	12
VMM4	EXTERIOR WALL SCONCE WITH EMERGENCY BATTERY AND PHOTOCELL	ASL	DSKE-W24-ND-30K-W4-EMG-PC-XX		LED, 3000K, 2800LM	LED	24	12
UC1	3' UNDERCABINET FIXTURE	HALO	HU30-BSC-36-P		LED, 3500K, 850LM	LED	14	12
XB1	EMERGENCY BATTERY UNIT WITH SELF- DIAGNOSTICS	EXITRONIX	LED-95-WH-G2	2	LED		2	1:
XE1	THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP, EMERGENCY LIGHTING HEADS, SELF- DIAGNOSTICS, AND REMOTE HEAD CAPABILITY	EXITRONIX	VLEDC-51-WH-G2-R4	2	LED		2	1:
XR1	WET LOCATION LED EMERGENCY REMOTE LAMPS	EXITRONIX	RL1-WP-GR		LED		1	-

1. ARCHITECT SHALL SPECIFY / VERIFY ALL FINISH SELECTIONS. 2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

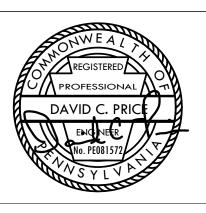
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MOUNTING ACCESSORIES.

#### GENERAL CIRCUITING NOTE:

CIRCUIT BREAKERS IN EXISTING PANELS MDP, BA, AND 2A WILL BECOME SPARE FOLLOWING DEMOLITION OF THE EXISTING SPACE. THE LOAD ASSIGNMENTS NOTED HERE ARE ARBITRARY, AND THE EC SHALL UTILIZE ANY EXISTING SPARE BREAKERS AND ANY BREAKERS MADE SPARE THROUGH DEMOLITION IN THESE PANELS. WHERE NO SPARE BREAKER IS AVAILABLE, EC SHALL INSTALL NEW BREAKER IN AN EXISTING PROVISIONAL SPACE. NEW BREAKER SHALL MATCH THE MANUFACTURER, MODEL, & AIC RATING OF EXISTING BREAKERS. ALL BASE BUILDING LOADS AND CIRCUITS SERVING DEVICES THAT ARE EXISTING TO REMAIN SHALL BE MAINTAINED. THE EC SHALL ADJUST CIRCUIT ASSIGNMENTS AS REQUIRED AND PROVIDE NEW PANEL SCHEDULES TO REFLECT THE INSTALLATION AT PROJECT CLOSEOUT.

ALTERNATE: CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, WIRELESS AND WIRED CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHES.

S	MOUNTING	NOTES
	RECESSED, CEILING	
	RECESSED, CEILING	
	RECESSED, CEILING	
	SURFACE, CEILING	WHERE CEILING CONDITIONS DO NOT ALLOW FOR SURFACE MOUNTING, PROVIDE AIRCRAFT CABLE SUSPENSION MOUNTING. EC SHALL FIELD COORDINATE.
	SURFACE, CEILING	WHERE CEILING CONDITIONS DO NOT ALLOW FOR SURFACE MOUNTING, PROVIDE AIRCRAFT CABLE SUSPENSION MOUNTING. EC SHALL FIELD COORDINATE.
	SURFACE, WALL	OCCUPANCY SENSOR SHALL OPERATE TO TURN LIGHTS ON TO 100% LIGHT OUTPUT WHEN STAIRWELL IS OCCUPIED AND 0% WHEN UNOCCUPIED.
	SURFACE, WALL	
	SURFACE, UNDERCABINET	COORDINATE MOUNTING WITH CASEWORK PROVIDER. CONCEAL WHERE POSSIBLE. PROVIDE ALL MOUNTING AND CONNECTION ACCESSORIES.
	SURFACE, WALL	
	UNIVERSAL	PROVIDE NUMBER OF FACES AND DIRECTIONAL CHEVRONS AS SHOWN ON PLANS.
	SURFACE, WALL	



PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB 1205 LIVERPOOL STREET BUILDING #35 PITTSBURGH, PA 15233



### FOR CONSTRUCTION

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REVISIONS

#### GENERAL ELECTRICAL NOTES:

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

DEMOLITION: SEE "ELECTRICAL GENERAL DEMOLITION NOTES FOR ADDITIONAL DEMOLITION REQUIREMENTS.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT.

RECORD DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ARCHITECT OR ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #8 OR LARGER TO ENSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

<u>GROUNDING:</u> PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ELECTRICAL SYSTEM, INCLUDING EQUIPMENT FRAMES CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL CIRCUITS.

LABELS: PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

PANEL DIRECTORY: PROVIDE TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD, INCLUDING EXISTING PANELBOARDS MODIFIED FOR THIS PROJECT, WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING. NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS, AS THEY ARE OFTEN DIFFERENT.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS. PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN AND INSTALL MOTOR STARTERS.

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSIBLE SWITCHES IN LIEU OF NON-FUSIBLE SWITCHES OR FUSIBLE ENCLOSED CIRCUIT BREAKERS OR OTHER DEVICES INDICATED.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS. ROUGH-IN AND HOOK UP DETAILS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

EQUIPMENT DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

LIGHTING ARRANGEMENT: ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

LIGHTING COORDINATION: COORDINATE LIGHTING FIXTURES WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, ACCESS PANELS, ETC.

MATERIAL COORDINATION: VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURES OR DEVICES ARE FURNISHED TO MATCH CONSTRUCTION.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES AND FIRE ALARM DEVICES ARE TO THE BOTTOM OF THE FIXTURE OR DEVICE UNLESS OTHERWISE NOTED.

DEVICE LOCATIONS: COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, AND TELE/DATA OUTLETS WITH OTHER WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL STATIONS. DO NOT MOUNT WIRING DEVICES BACK TO BACK.

EWC RECEPTACLES: RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE EWC ENCLOSURE. VERIFY THE MOUNTING HEIGHT WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

DEVICE COORDINATION: THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK, DOOR SWINGS, AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

BARRIERS: WHERE A MULTIPLE GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION, USING A FULL HEIGHT AND DEPTH BARRIER PLATE.

FIRE PROOFING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE RATED STRUCTURES, PROVIDE FIRE-PROOFING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE PROOFING FOR PENETRATIONS SHALL BE UL APPROVED PER THE THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT, CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES, AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

OWNER FURNISHED EQUIPMENT: CONTRACTOR SHALL OBTAIN CUT SHEETS, INSTALLATION DATA, AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT AND COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY ASSOCIATED WORK.

CONDUIT ROUTING: ALL CONDUIT RUN OVERHEAD SHALL BE RUN AT THE BOTTOM OF THE FLOOR, ROOF STRUCTURE, OR LOWEST CHORD OF JOIST SPACE (AS APPLICABLE) ABOVE IN ORDER TO AVOID CONFLICTS WITH OTHER TRADES.

WIRING DEVICES: ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH CLEAR PLASTIC LAMINATED LABEL WITH BLACK TEXT, NOTING PANELBOARD DESIGNATION AND CIRCUIT NUMBER FROM WHICH IT IS FED.

EQUIPMENT DEMONSTRATION: PROVIDE A DEMONSTRATION OF THE OPERATION OF ALL ELECTRICAL COMPONENTS.

CEILING AND MECHANICAL ROOM PLENUM: ALL WIRING THAT WILL NOT BE RUN IN METAL CONDUIT SHALL BE PLENUM RATED.

### Allen+Sharif MEP Engineering 2 Allegheny Center, Nova Tower 2 · Suite 1001 · Pittsburgh, PA 15212 ASE JOB #2041090

#### ELECTRICAL GENERAL DEMOLITION NOTES

GENERAL: DEMOLITION DRAWINGS ARE BASED ON EXISTING PLANS AND FIELD INVESTIGATION PRIOR TO DEMOLITION. VISIT THE EXISTING BUILDI PRIOR TO BID IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND IN ORDER TO AVOID CONFLICTS.

DASHED ITEMS: ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS ARE EXISTING AND SHALL BE REMOVED COMPLETE INCLUDING BOXES, CONDUIT, WIRE, FASTENERS, AND ASSOCIATED APPURTENANCES UON.

SOLID ITEMS: ALL ITEMS SHOWN SOLID ON DEMOLITION PLANS ARE EXISTING TO REMAIN.

CIRCUITING TO REMAIN: WHERE AFFECTED BY NEW WORK, EXISTING CIRCUITING TO REMAIN SHALL BE REROUTED OR RECONNECTED AS REQUIRED, IN ORDER TO MAINTAIN CONTINUITY OF CIRCUIT.

REUSE OF EXISTING CIRCUITRY: EXISTING CIRCUITS SHALL BE REUSED WHERE CONVENIENT TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS INDICATED OR REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS THAT REMAIN.

EXISTING CONDUIT: ALL EXISTING CONDUITS AND WIRING THAT WILL NOT BE REUSED SHALL BE REMOVED. EXISTING CONDUIT TO REMAIN CONCEALED IN WALLS SHALL BE ABANDONED. EXISTING CONDUIT TO REMAIN BELOW FLOOR SLAB SHALL BE CUT OFF ONE INCH BELOW ROUGH FLOOR AND GROUTED FLUSH. ALL EXISTING WIRING IN CONDUITS TO BE ABANDONED SHALL BE DISCONNECTED FROM POWER SOURCE AND REMOVED.

REPAIR DAMAGE: EXERCISE CARE IN REMOVAL OF DEMOLITION ITEMS. REPAIR, AT NO ADDITIONAL COST TO OWNER, ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN.

ASSOCIATED APPURTENANCES: REMOVE ALL ELECTRICAL APPURTENANCES (DISCONNECTS, STARTERS, WIRING, CONDUIT, ETC.) ASSOCIATED WITH EQUIPMENT TO BE REMOVED BY OTHERS.

KNOCKOUT PLUGS AND COVERS: ALL CONDUIT REMOVED SHALL BE REMOVED IN ITS ENTIRETY, INCLUDING FITTINGS, MOUNTING DEVICES, MOUNTING HARDWARE, ETC. PROVIDE CONDUIT PLUGS AND BLANKS FOR ALL OPENINGS CREATED BY THE REMOVAL OF CONDUIT. PROVIDE BLANK COVER PLATES FOR ALL OPENED OUTLET BOXES CREATED BY THE REMOVAL OF THE EQUIPMENT AND/OR DEVICES.

DEMOLISHED MATERIALS: ALL MATERIALS REMOVED UNDER DEMOLITION. NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE.

SCHEDULE OUTAGES: ALL WORK AND ALL POWER OUTAGES SHALL BE SCHEDULED AT TIMES CONVENIENT TO THE OWNER.

EXISTING CIRCUITS: IF DURING THE COURSE OF CONSTRUCTION, IT IS DETERMINED BY THE CONTRACTOR THAT AN EXISTING CIRCUIT BECOMES SPARE, THE CONTRACTOR SHALL UPDATE THE PANELBOARD DIRECTORY TO INDICATE SUCH, EVEN IF IT IS NOT EXPLICITLY MARKED ON THE ELECTRICAL PLANS.

GENERAL SPECIAL SYSTEM NOTES:

TELEPHONE AND DATA SYSTEMS

THE TELEPHONE AND DATA SYSTEMS WILL BE FURNISHED AND INSTALLED THROUGH THE OWNER'S VENDOR (THE VENDOR) UNDER A SEPARATE CONTRACT. ALL CABLING AND WIRING (EXCEPT FOR POWER WIRING), J-HOOKS, JACKS, COVER PLATE COMPATIBLE WITH THE EQUIPMENT, DEVICES, RACKS, AND COMPONENT EQUIPMENT WILL BE PROVIDED BY THE VENDOR, UNLESS INDICATED OTHERWISE. THE VENDOR WILL PROVIDE INSTALLATION DURING CONSTRUCTION. THE ELECTRICAL CONTRACTOR (THE CONTRACTOR) SHALL COORDINATE ALL ROUGH-IN, BOX SIZES AND CONFIGURATIONS, CONDUIT SIZES AND ROUTING WITH THE VENDOR PRIOR TO INSTALLATION OF THE RACEWAY SYSTEM.

THE CONTRACTOR SHALL PROVIDE ALL CONDUIT WITH PULL WIRE, AND 4"X4"X2 1/4"BOX WITH SINGLE GANG PLASTER RING UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELECTRICAL REQUIREMENTS WITH THE VENDOR PRIOR TO ROUGH-IN.

STUB ALL CONDUITS WITH PULL WIRE FOR COMMUNICATIONS DEVICES TO ABOVE AN ACCESSIBLE CORRIDOR CEILING AND TERMINATE WITH INSULATED NYLON BUSHING. THE VENDOR WILL PROVIDE J-HOOKS ABOVE THE CEILING FROM THE STUB OUT TO EQUIPMENT LOCATION AS REQUIRED FOR HIS CABLING AND TERMINATE WITH INSULATED NYLON BUSHING. WHERE A WALL SEPARATES THE CONDUIT STUB OUT FROM THE EQUIPMENT LOCATION, PROVIDE A 1" MINIMUM SLEEVE THROUGH THE WALL, ABOVE AN ACCESSIBLE CEILING, TO ACCOMMODATE THE CABLING, ALL CONDUITS AND SLEEVES PENETRATING RATED FIRE OR SMOKE WALLS SHALL BE PROVIDED WITH APPROVED FIRE RETARDANT TO PROVIDE A UL RATED WALL PENETRATION ASSEMBLY. MAINTAIN VENDOR RECOMMENDED SEPARATION BETWEEN WIRING OF DIFFERENT SYSTEMS AND FROM INTERFERENCE PRODUCING ELECTRICAL DEVICES SUCH AS FLUORESCENT LIGHTS. BALLAST, TRANSFORMERS, RELAYS, MOTOR CONTROLS, ETC.

PROVIDE POWER CIRCUITS FOR TELECOMMUNICATIONS EQUIPMENT AS INDICATED.

THE CONTRACTOR SHALL PROVIDE ALL BACKBOXES, CONDUIT, GROUNDING AND SHALL INSTALL ALL SPECIAL BOXES WITH PLASTER RING FURNISHED BY THE VENDOR FOR THE TELECOMMUNICATIONS SYSTEMS IN ACCORDANCE WITH THE APPLICABLE CODES.

THE CONTRACTOR SHALL INSTALL ALL COMMUNICATIONS SLEEVES AND CONDUIT IN ACCORDANCE WITH DRAWINGS, ELECTRICAL SPECIFICATIONS, VENDOR WIRING DIAGRAMS, AND ALL APPLICABLE CODES.

THE GENERAL CONTRACTOR SHALL PROVIDE IN-WALL REINFORCEMENT AS NECESSARY FOR ALL COMMUNICATIONS CABINETS, SHELVES, BRACKETS, FURNITURE MOUNTS, ETC. AND SHALL MOUNT CABINETS, SHELVES, BRACKETS, AND FURNITURE MOUNTS IN ACCORDANCE WITH DRAWINGS, VENDOR SUBMITTALS, AND ALL APPLICABLE CODES.

COORDINATE FINAL LOCATIONS AND ELEVATIONS OF ALL TELECOMMUNICATIONS DEVICES AND OUTLETS WITH ARCHITECTURAL PLANS, CASEWORK AND ELEVATIONS, AND VENDOR REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE A COMPLETION SCHEDULE BROKEN DOWN BY PROJECT PHASES, FOR TURNOVER OF COMPLETED COMMUNICATIONS ROUGH-IN FOR VENDOR FINISH WORK. THE CONTRACTOR SHALL COORDINATE TURNOVER WITH VENDORS, AND SHALL TURNOVER AREAS FOR VENDOR FINISH WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA VENDOR COST RESULTING FROM INCORRECT COMMUNICATIONS ROUGH-IN.

NOTIFICATION: NOTIFY THE OWNER PRIOR TO TURNING OFF ANY CIRCUITS.

${\pmb \Phi}^{\sf WP}$	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTING TYPE, 20A, 120V, WITH COOPER MODEL WIU-1D (OR EQUAL) "WHILE-IN-USE" WEATHERPROOF COVER, 18"AFG UON.
J	JUNCTION BOX - ABOVE CEILINGS OR FLUSH IN WALLS.
	ELECTRICAL PANELBOARD
	ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED). AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR, AND 1 #12 GROUNDING CONDUCTOR IN 3/4" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS SHALL BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. NEUTRAL AND GROUNDING CONDUCTORS SHALL BE SHARED AS ALLOWED BY THE NEC. CONDUIT LARGER THAN 3/4" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.
	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL, SURFACE MOUNTED, TOP 5'-9" AFF.
FAAP	FIRE ALARM ANNUNCIATOR PANEL, RECESSED, TOP 5'-0" AFF.
NACP	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL, SURFACE MOUNTED, TOP, 5'-9" AFF.
F	FIRE ALARM MANUAL PULL STATION, 44"AFF TO ACTUATING ARM, UON.
SD	ADDRESSABLE FIRE ALARM SYSTEM PHOTO-ELECTRIC SMOKE DETECTOR, CEILING MOUNTED.
DD	DUCT MOUNTED ADDRESSABLE FIRE ALARM SYSTEM PHOTO-ELECTRIC SMOKE DETECTOR.
ММ	FIRE ALARM SYSTEM MONITOR MODULE.
СМ	FIRE ALARM SYSTEM CONTROL MODULE.
$\sum_{30}$	FIRE ALARM VISUAL (STROBE) APPLIANCE, CEILING MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.
$\mathcal{Q}_{_{30}}$	FIRE ALARM SYSTEM VISUAL (STROBE) APPLIANCE, WALL MOUNTED AT 80" AFF TO BOTTOM OF LENS, OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.

FIRE ALARM AUDIO/VISUAL (HORN/STROBE) APPLIANCE, CEILING

FIRE ALARM SYSTEM AUDIO/VISUAL (HORN/STROBE), WALL MOUNTED AT

WHICHEVER IS LOWER, UON. SUBSCRIPT INDICATES MINIMUM CANDELA

SMOKE DAMPER CONNECTION, 120V. REFER TO DETAIL 2/E-501 FOR

MOUNTED. SUBSCRIPT INDICATES MINIMUM CANDELA RATING.

80" AFF TO BOTTOM OF LENS, OR 6" BELOW FINISHED CEILING,

FIRE ALARM SYSTEM ADDRESSABLE REMOTE TEST SWITCH.

POWER

	LIGHTING
	LIGHTING FIXTURE.
0	DOWNLIGHT FIXTURE.
2 🖵	WALL MOUNTED LIGHTING FIXTURE.
	LIGHTING FIXTURE WITH EMERGENCY BATTERY. TYPICAL ALL FIXTU TYPES.
Y	EMERGENCY LIGHTING REMOTE UNIT, CONNECT AHEAD OF LOCAL CONTROLS.
	EMERGENCY BATTERY LIGHTING UNIT, CONNECT AHEAD OF LOCAL CONTROLS.
	EXIT LIGHTING FIXTURE WITH EMERGENCY HEADS AND DIRECTIONA ARROWS AS INDICATED ON DRAWINGS. CONNECT TO LIGHTING CIR AHEAD OF LOCAL CONTROLS. SHADED AREA DENOTES LIGHTED FA
\$ <sub>a</sub>	SINGLE POLE SWITCH, 20A, 120/277V, 44"AFF UON. SUBSCRIPT "a" INDICATES ASSOCIATED FIXTURES TO BE CONTROLLED.
\$ <sub>L1a</sub>	LOW VOLTAGE SWITCH FOR ON/OFF CONTROL OF A SINGLE ZONE, 4 AFF UON. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C2X OR APPROVED EQUAL.
\$ <sub>D1a</sub>	LOW VOLTAGE SWITCH FOR ON/OFF AND RAISE/LOWER CONTROL O SINGLE ZONE, 44" AFF UON. SUBSCRIPT "a", WHERE USED, INDICATE ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C4X OR APPROVED EQUAL.
\$ <sub>D2a,b</sub>	LOW VOLTAGE SWITCH FOR ON/OFF AND RAISE/LOWER CONTROL O TWO ZONES, 44" AFF UON. SUBSCRIPT "a,b", WHERE USED, INDICATE ASSOCIATED FIXTURES TO BE CONTROLLED. PROVIDE GREENMAX MODEL #DRKDN-C8X OR APPROVED EQUAL.
\$ <sub>VSa</sub>	LINE VOLTAGE DUAL TECHNOLOGY WALL SWITCH VACANCY SENSO WITH ON/OFF CONTROL (MANUAL ON), 44" AFF UON. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO BE CONTROLL PROVIDE GREENGATE MODEL #VNW-D OR APPROVED EQUAL.
VSa	ANALOG 360-DEGREE MULTI-TECHNOLOGY VACANCY SENSOR. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO CONTROLLED. PROVIDE LEVITON MODEL #OSC10-MOW OR APPROVE EQUAL. PROVIDE COMPATIBLE SMART PACK FOR EACH CONTROL ZO PROVIDE COMPATIBLE 2-PORT ANALOG INTERFACE.
OS a	ANALOG 360-DEGREE MULTI-TECHNOLOGY OCCUPANCY SENSOR. SUBSCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTURES TO CONTROLLED. PROVIDE LEVITON MODEL #OSC10-MOW OR APPROVE EQUAL. PROVIDE COMPATIBLE SMART PACK FOR EACH CONTROL ZO PROVIDE COMPATIBLE 2-PORT ANALOG INTERFACE. (NOTE: SAME PRODUCT AS "VACANCY" SENSOR, NOTED DIFFERENT TO INDICATE CONTROL STRATEGY)
SP a	GREENMAX DRC SMART PACK MODEL #DRD07-EDO OR APPROVED EQUAL. SUBCRIPT "a", WHERE USED, INDICATES ASSOCIATED FIXTU TO BE CONTROLLED.
2P	LEVITON 2-PORT ANALOG INTERFACE MODEL #DRIDO-CB2 OR APPROVED EQUAL.
RC	GREENMAX DRC LINE VOLTAGE ROOM CONTROLLER MODEL # DRC07-EDO OR APPROVED EQUAL.
	LIGHTING FIXTURE KEY
Aa O NL	<ol> <li>LETTER "A" DENOTES FIXTURE TYPE. REFER TO LIGHTING FIXTUR SCHEDULE.</li> <li>ASSOCIATED LETTER "a", WHERE USED, INDICATES LIGHTING FIXT CONTROL DEVICE DESIGNATION.</li> <li>"NL" INDICATES A NIGHT LIGHT FIXTURE CIRCUITED AHEAD OF LO CONTROLS.</li> </ol>

GENERAL

MORE INFORMATION.

KEYNOTE.

AV30

MFSD

RT

 $\left(1\right)$ 

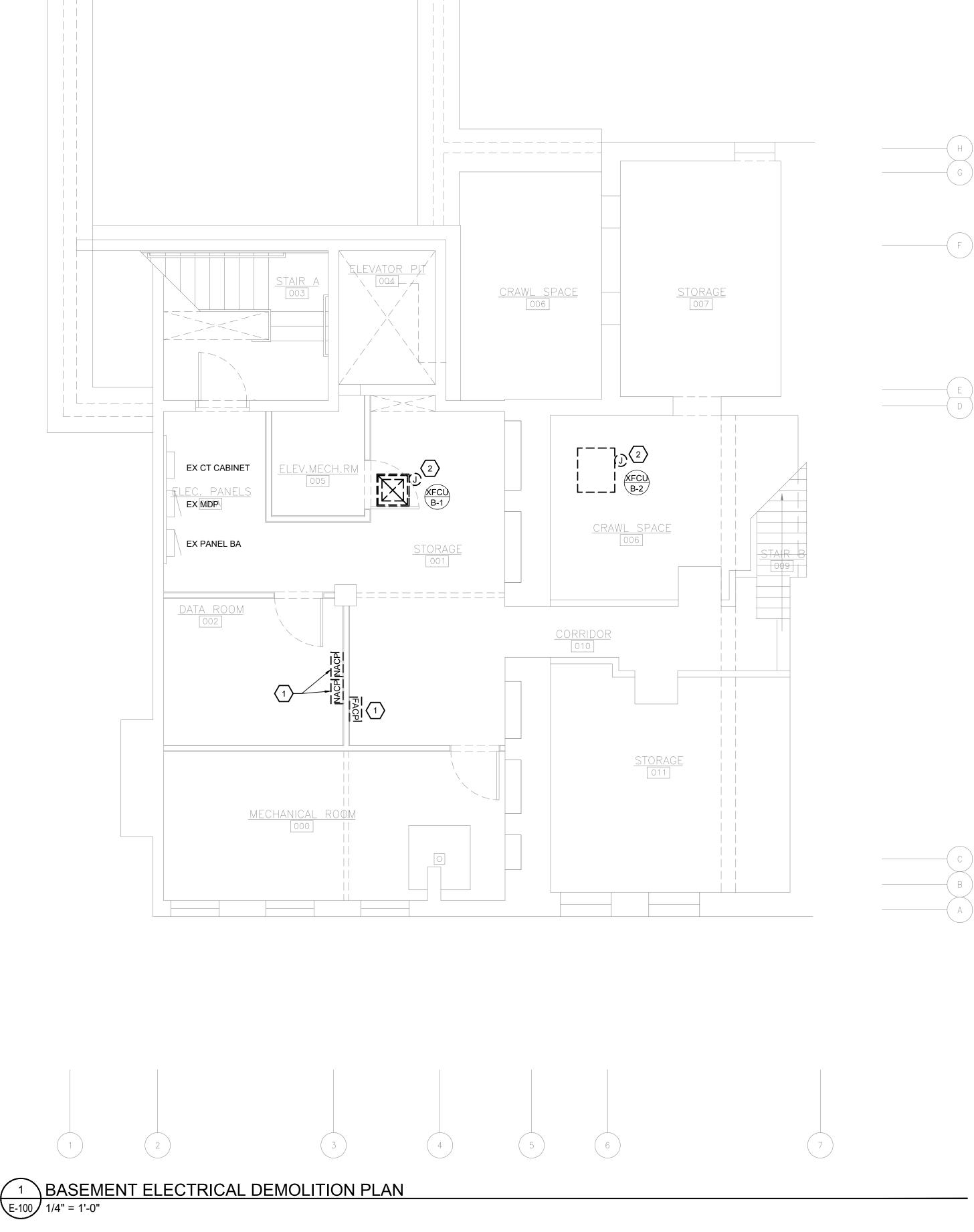
LINEWEIGHTS							
	NEW						
	EXISTING						
	REMOVE EXISTING						

			ELECTRICAL ABBREVIATIONS	FOR	CONSTR	UCTION
		А	AMPERE			
	_	AFF				
	_	AFG AHU	ABOVE FINISHED GRADE	COPYRIGHT PROT AND DESIGNS INC	TECTION ACT OF 1990. REPRODUC	1990 AND KNOWN AS THE ARCHITECTURAL WORKS TION AND USE OF THIS DOCUMENT OR THE IDEAS THORIZATION OF GERARD ASSOCIATES ARCHITECTS,
	-	AIC				BE CHECKED AND VERIFIED BY THE CONTRACTOR AT
L ALL FIXTURE		ATS	AUTOMATIC TRANSFER SWITCH	REVISIO	) N S	
		AV	AUDIO/VISUAL		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
OF LOCAL	_	BFG C	BELOW FINISHED GRADE			
) OF LOCAL	_	СВ	CIRCUIT BREAKER			
DIRECTIONAL GHTING CIRCUIT	-	СКТ	CIRCUIT			
LIGHTED FACE.		EBU	EMERGENCT BATTERY UNIT			
CRIPT "a"		EC	EMPTY CONDUIT			
GLE ZONE, 44" OCIATED		EC	ELECTRICAL CONTRACTOR			
DDEL	_	ECB				
	_	EF ETR	EXHAUST FAN EXISTING TO REMAIN			
CONTROL OF A D, INDICATES GREENMAX	-	EWC	ELECTRIC WATER COOLER			
	_	EWH	ELECTRIC WATER HEATER			
CONTROL OF A		EX	EXISTING			
D, INDICATES BREENMAX		FLA	FULL LOAD AMPS			
		GC	GENERAL CONTRACTOR			
NCY SENSOR SCRIPT "a",		GFCI	GROUND FAULT CIRCUIT INTERRUPTER			
CONTROLLED. QUAL.		GND	GROUND			
NSOR.		HID	HIGH INTENSITY DISCHARGE			
IXTURES TO BE OR APPROVED CONTROL ZONE.		HP	HORSE POWER/HEAT PUMP			
JONTROL ZONE.		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING			
SENSOR. IXTURES TO BE	_	IG	ISOLATED GROUND			
OR APPROVED CONTROL ZONE.		JB	JUNCTION BOX			
DIFFERENTLY		KVA	KILO-VOLT AMPERE			
PPROVED	_		KILO-WATT			
ATED FIXTURES	_	LC LTG	LIGHTING CONTACTOR			
32 OR	_	MAU	MAKE UP AIR UNIT			
	-	MCA	MINIMUM CIRUIT AMPS	ENNO.	AWEAL A	
DEL #		MC	MECHANICAL CONTRACTOR			
		MC	METAL CLAD			
ING FIXTURE		MCB	MAIN CIRCUIT BREAKER	A SHE		
GHTING FIXTURE			MANUFACTURER		VSYLVAC	
HEAD OF LOCAL	-		MAIN LUGS ONLY			
	-		NON-FUSED	PROPE	ERTY REHAB	LITATION FOR:
	_	NL	NIGHT LIGHT			
		NTS	NOT TO SCALE	Ιцлс	DTACK	ORDER #35
		OC	ON CENTER			
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		ELOPME	
	L	Р	POLE		ORIUNI	TIES CENTER
				REH/	AB	
	_		PUMP CONTROL PANEL POWER FACTOR	1205 LI	VERPOOL STREE	Т
	F		PANEL	BUILDIN PITTSBU	G #35 RGH, PA 15233	}
		PNLBD	PANELBOARD			
	F	Ø	PHASE			
	-		PRIMARY			
	F	RTU	ROOF TOP UNIT			
		SEC	SECONDARY			
	_	TBB	TELEPHONE BACKBOARD			
	_	TR				
	-	TYP UON	TYPICAL UNLESS OTHERWISE NOTED			
	-	V	VOLTS			
		VAC	VOLTS ALTERNATING CURRENT			
		VAV	VARIABLE AIR VOLUME	10	E R	
		VDC	VOLTS DIRECT CURRENT	ASS	OCIATES	ARCHITECTS
	F	VFD		410 FT.	PITT COMMON	IS, 445 FT. PITT BLVD.
	F	W WP	WATTS/WIRE WEATHERPROOF		-	LVANIA 15219-1333 1 FAX: 412-566-1532
	┝	XFMR	TRANSFORMER			
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CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHING. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH SALVAGING AND REINSTALLING EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.

1





#### ELECTRICAL DEMOLITION GENERAL NOTES:

- 1. ELECTRICAL DISTRIBUTION EQUIPMENT IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
- 6. ALL EXISTING LIGHTING FIXTURES, EMERGENCY BATTERY HEADS, EMERGENCY LIGHTING INVERTERS, EXIT SIGNS AND ASSOCIATED CONTROL DEVICES SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. THE MAJORITY OF LIGHTING EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE. REFER TO ALTERNATE NOTE ON THIS SHEET FOR MORE INFORMATION.
- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATING DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.

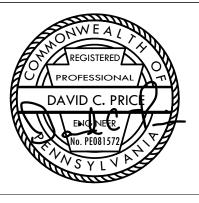
### ELECTRICAL DEMOLITION KEY NOTES: $\langle \# \rangle$

- 1. DEMOLISH EXISTING FIRE ALARM HEAD-END EQUIPMENT INCLUDING BUT NOT LIMITED TO FACP, NACP, DACT, FAAP, ETC. MAINTAIN ALL EXISTING FIRE ALARM CIRCUITS TO EXISTING TO REMAIN FIRE ALARM NOTIFICATION AND INITIATING DEVICES FOR CONNECTION TO NEW FACP. REFER TO NEW FIRE ALARM WORK PLANS FOR MORE INFORMATION.
- 2. DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO EXISTING FURNACE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW FURNACE. REFER TO NEW BASEMENT POWER WORK PLAN FOR MORE INFORMATION.

## FOR CONSTRUCTION

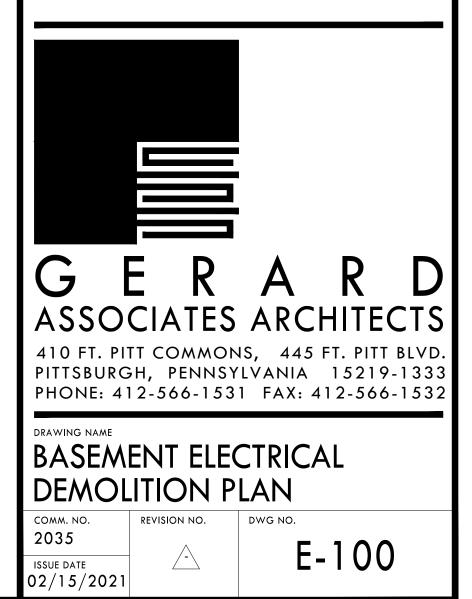
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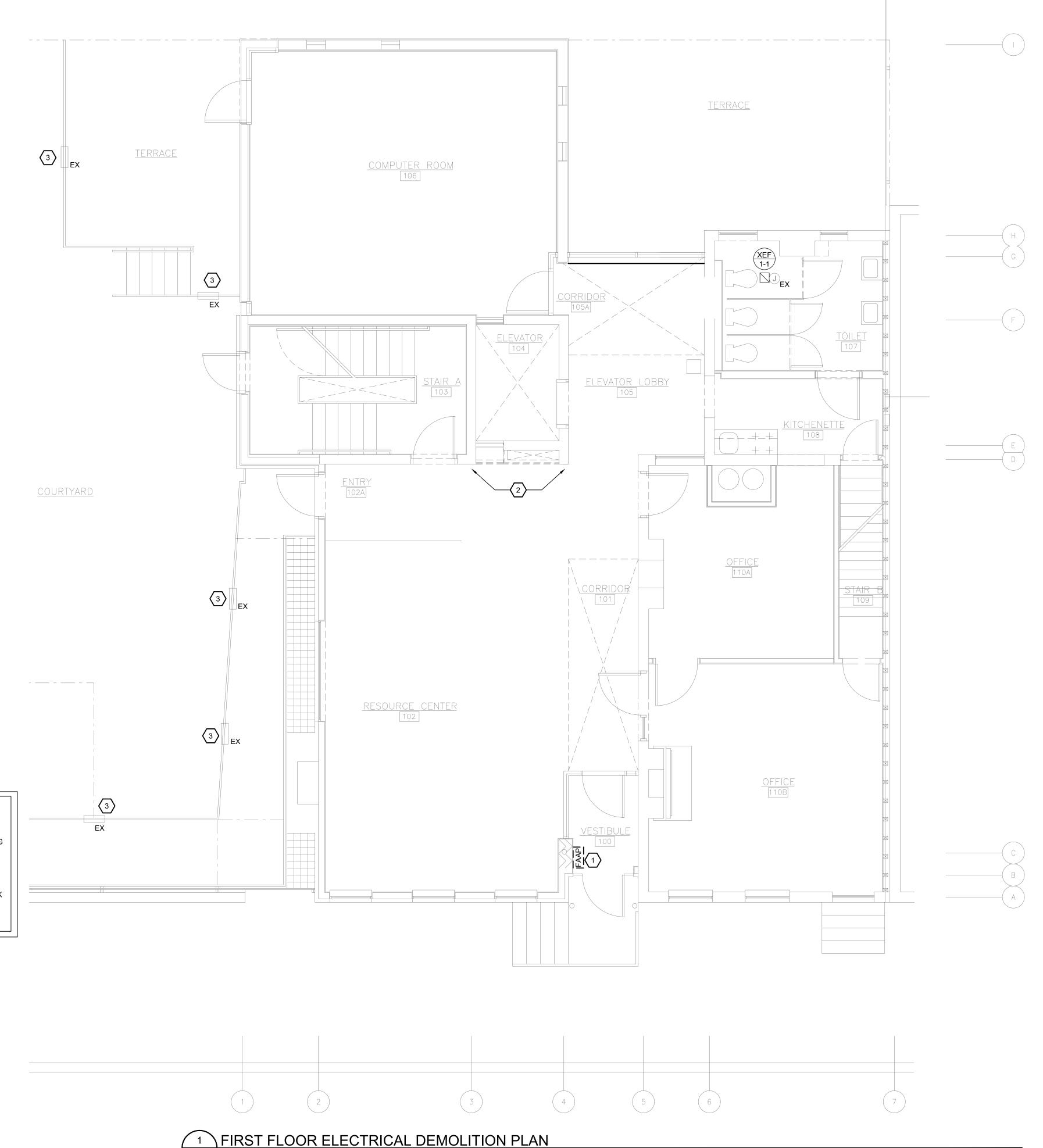
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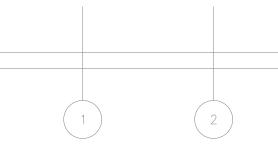
### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**





CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHING. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH SALVAGING AND REINSTALLING EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.





E-101 1/4" = 1'-0"

#### ELECTRICAL DEMOLITION GENERAL NOTES:

- 1. ELECTRICAL DISTRIBUTION EQUIPMENT IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
- 6. ALL EXISTING LIGHTING FIXTURES, EMERGENCY BATTERY HEADS, EMERGENCY LIGHTING INVERTERS, EXIT SIGNS AND ASSOCIATED CONTROL DEVICES SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. THE MAJORITY OF LIGHTING EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE. REFER TO ALTERNATE NOTE ON THIS SHEET FOR MORE INFORMATION.
- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.

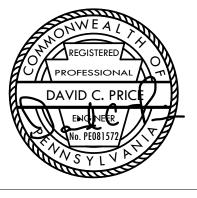
ELECTRICAL DEMOLITION KEY NOTES:  $\langle \# \rangle$ 

- 1. DEMOLISH EXISTING FIRE ALARM ANNUNCIATOR PANEL.
- 2. DISCONNECT AND REMOVE ALL DEVICES THAT CONFLICT WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE SALVAGED FOR REINSTALLATION AND WHICH DEVICES SHALL BE DEMOLISHED. REFER TO NEW WORK PLANS FOR MORE INFORMATION.
- 3. EXTERIOR STEP LIGHT IS EXISTING TO REMAIN. MAINTAIN EXISTING LIGHTING CIRCUIT(S) AND CONTROL DEVICE(S).

## FOR CONSTRUCTION

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REVISIONS



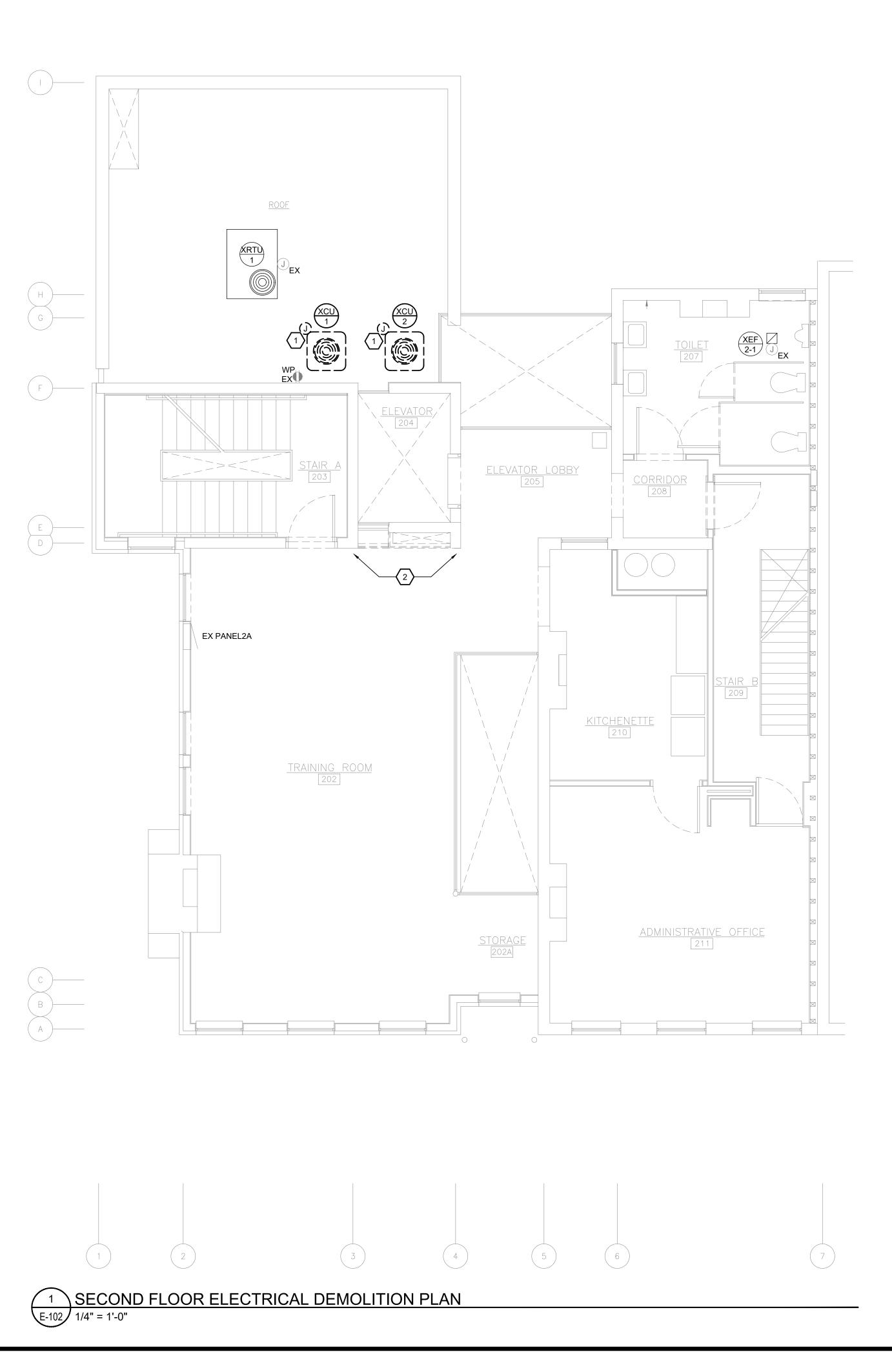
PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**



CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHING. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH SALVAGING AND REINSTALLING EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.





#### ELECTRICAL DEMOLITION GENERAL NOTES:

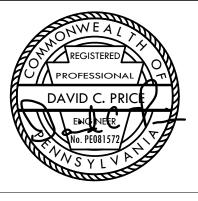
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- 2. FIXTURES AND DEVICES NOTED WITH "EX" ARE EXISTING TO REMAIN. MAINTAIN EXISTING CIRCUITRY UNLESS OTHERWISE NOTED ON NEW WORK PLANS.
- 3. ALL HOLES IN WALLS, COLUMN ENCLOSURES, CEILINGS AND FLOORS FROM CONDUIT PENETRATIONS, JUNCTION BOXES OR WIRING DEVICES SHALL BE PATCHED AND PAINTED PER THE ARCHITECT.
- 4. ALL DEVICES ON WALLS THAT ARE SCHEDULED FOR DEMOLITION, WHETHER REPRESENTED ON THIS PLAN OR NOT, SHALL BE DISCONNECTED AND REMOVED. INTERCEPT AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN CONTINUITY OF POWER TO EXISTING DEVICES.
- 5. NOT ALL DEVICES ON WALLS THAT ARE SCHEDULED AS EXISTING TO REMAIN ARE REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONSULT WITH ARCHITECT AND BUILDING OWNER ABOUT WHETHER DEVICE SHOULD BE REMOVED OR NOT.
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- 7. ALL EXISTING FIRE ALARM NOTIFICATION AND INITIATION DEVICES ARE EXISTING TO REMAIN. THE MAJORITY OF FIRE ALARM EQUIPMENT IS NOT REPRESENTED ON THIS PLAN. ELECTRICAL CONTRACTOR SHALL FIELD SURVEY TO UNDERSTAND THE DEMOLITION SCOPE.
- ELECTRICAL DEMOLITION KEY NOTES: (#)
- 1. DEMOLISH ELECTRICAL CONNECTION TO EXISTING CONDENSING UNIT BACK TO SOURCE. DEMOLISH ANY AND ALL ASSOCIATED CONDUIT, WIRING, AND DISCONNECTS, ETC.
- 2. DISCONNECT AND REMOVE ALL DEVICES THAT CONFLICT WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE SALVAGED FOR REINSTALLATION AND WHICH DEVICES SHALL BE DEMOLISHED. REFER TO NEW WORK PLANS FOR MORE INFORMATION.

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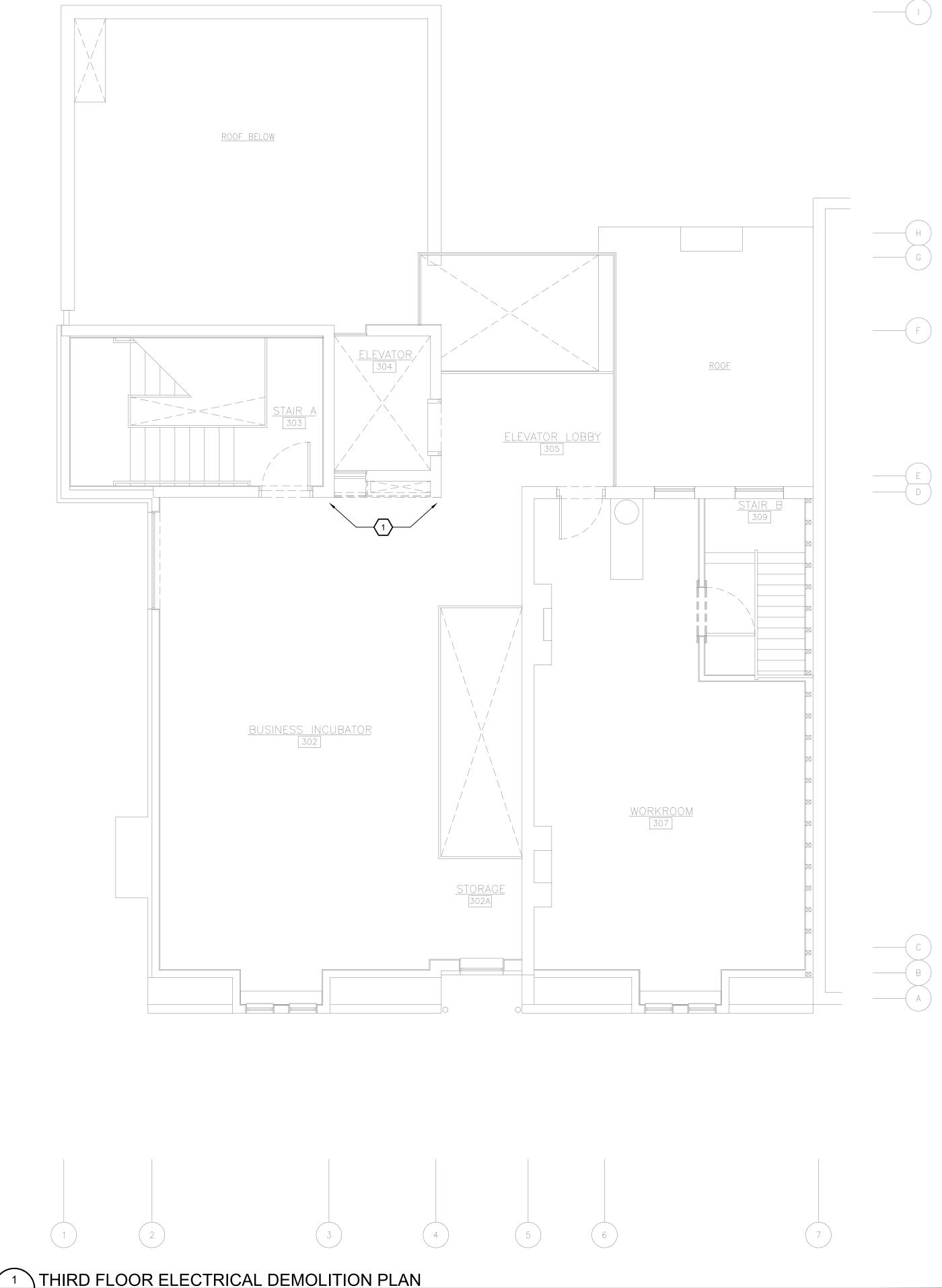
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E-103 1/4" = 1'-0"

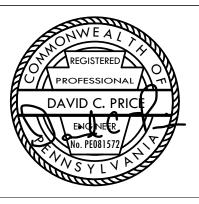
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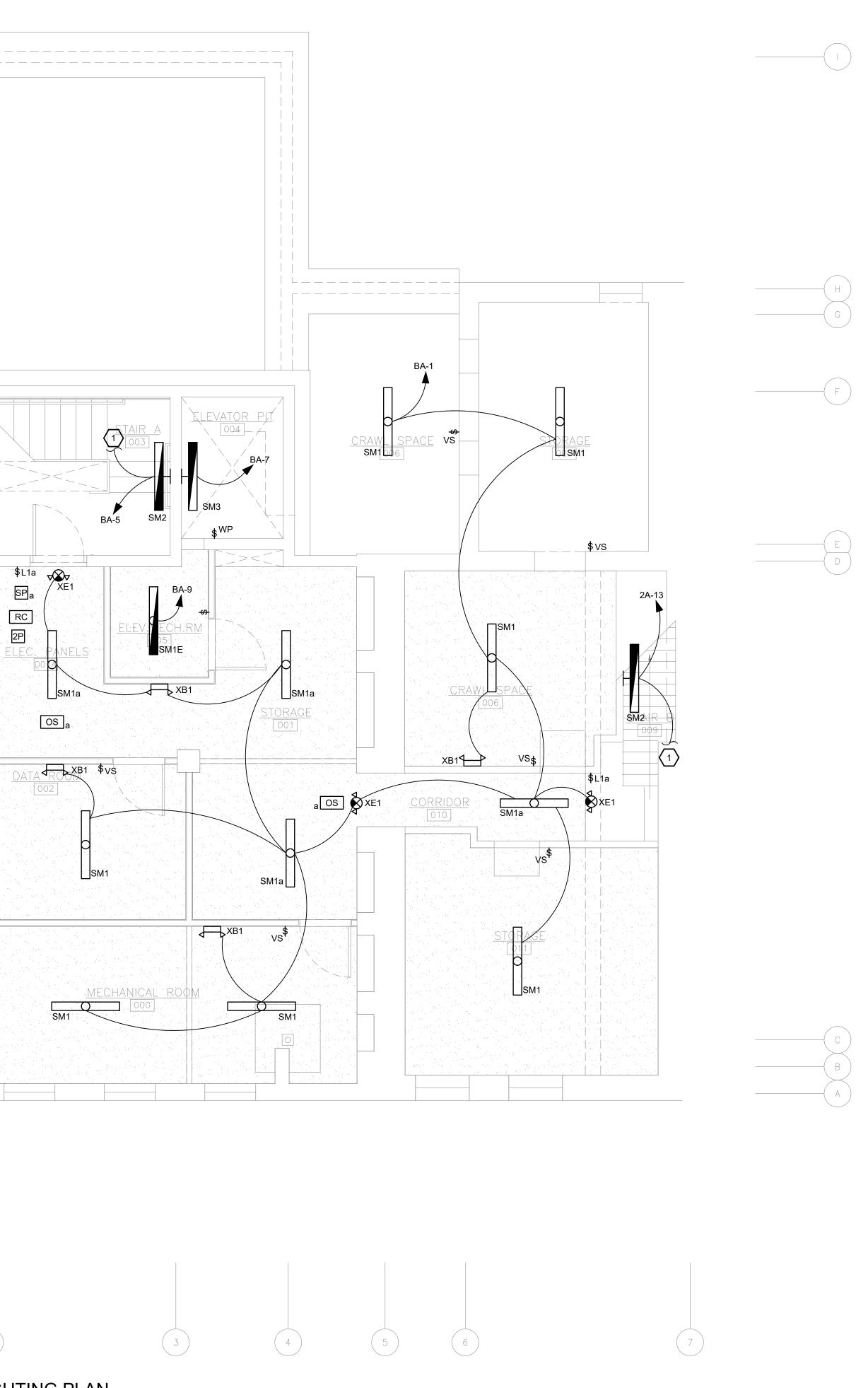
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#### LIGHTING GENERAL NOTES:

- 1. FIRE STOP ALL FIRE RATED FLOORS, CEILINGS, AND WALLS AS REQUIRED BY CODE. PENETRATIONS INTO OR THROUGH FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH IBC CHAPTER 7.
- 2. PROVIDE EXPANSION FITTINGS AS REQUIRED AT ALL EXPANSION JOINTS. COORDINATE WITH ARCHITECTURAL PLANS.
- 3. WHERE EXPOSED, BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. WHERE CONCEALED WITHIN WALLS OR ABOVE CEILING, MC CABLE IS PERMISSIBLE. EXPOSED CONDUIT SHALL BE PAINTED PER ARCHITECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
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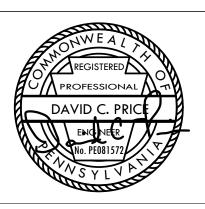
LIGHTING KEY NOTES: (#)

1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.

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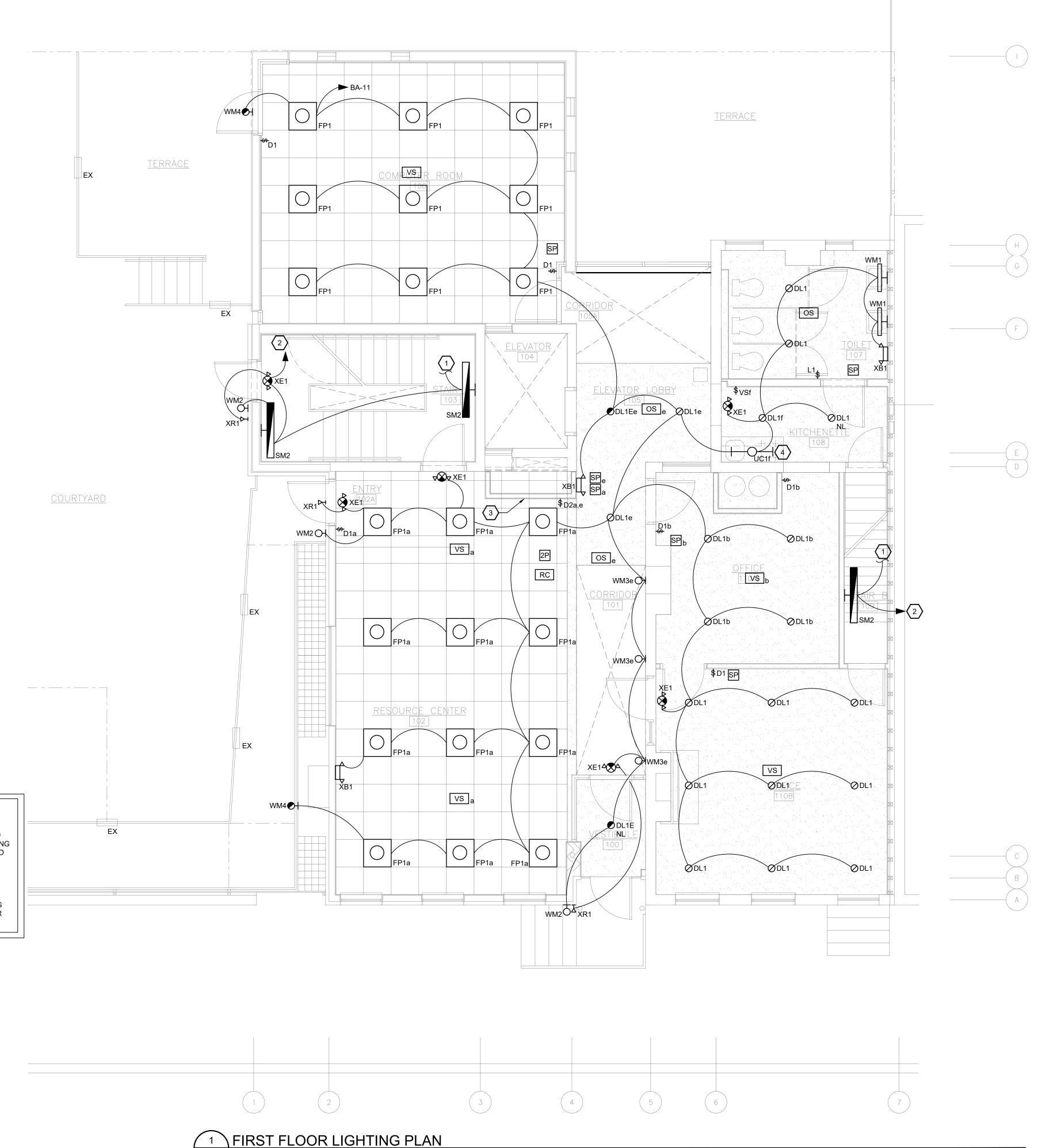
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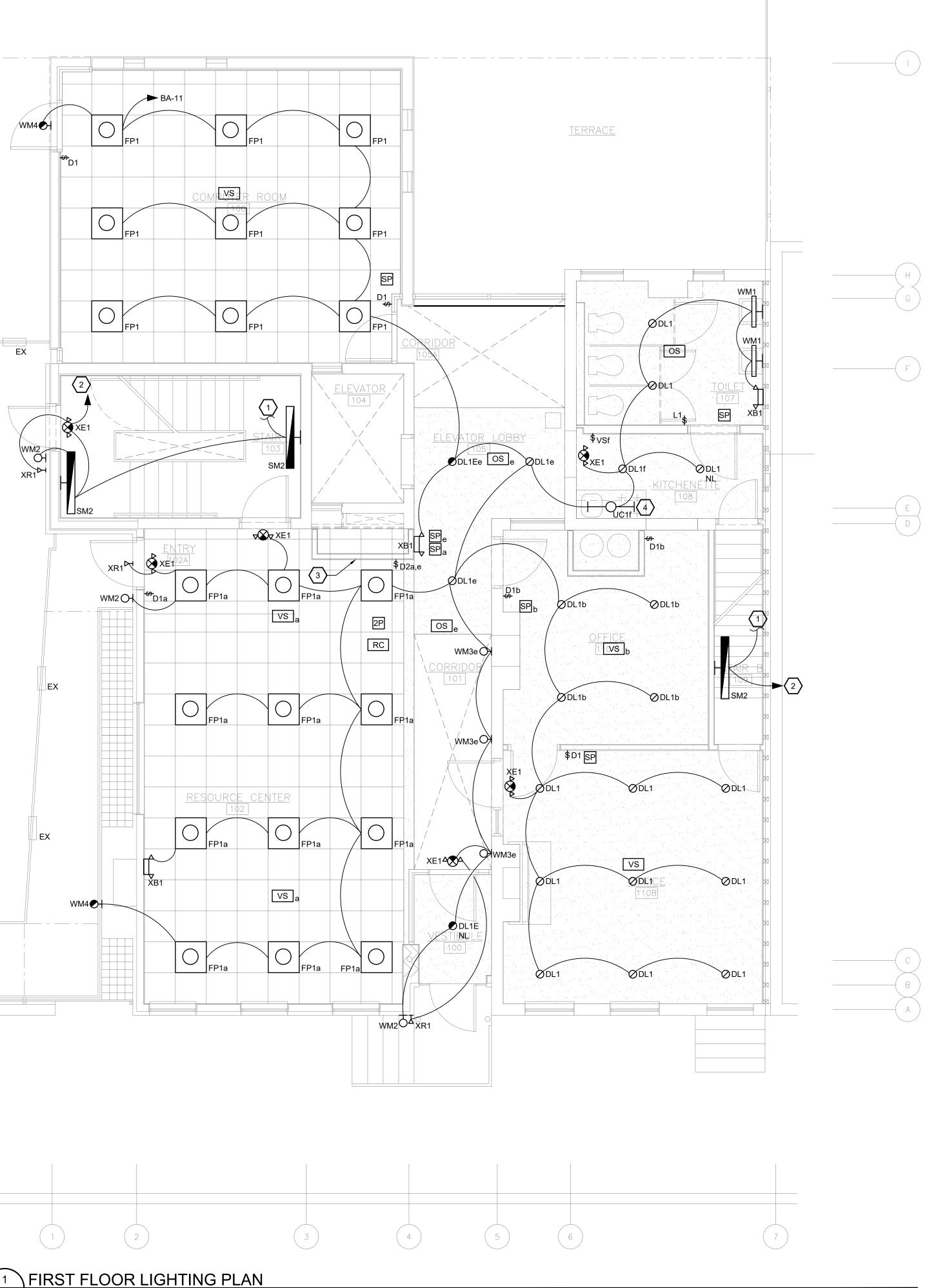
## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





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#### LIGHTING GENERAL NOTES:

- 1. FIRE STOP ALL FIRE RATED FLOORS, CEILINGS, AND WALLS AS REQUIRED BY CODE. PENETRATIONS INTO OR THROUGH FIRE RESISTANCE RATED WALLS SHALL COMPLY WITH IBC CHAPTER 7.
- 2. PROVIDE EXPANSION FITTINGS AS REQUIRED AT ALL EXPANSION JOINTS. COORDINATE WITH ARCHITECTURAL PLANS.
- 3. WHERE EXPOSED, BRANCH CIRCUITS SHALL BE RUN IN EMT CONDUIT ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. WHERE CONCEALED WITHIN WALLS OR ABOVE CEILING, MC CABLE IS PERMISSIBLE. EXPOSED CONDUIT SHALL BE PAINTED PER ARCHITECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
- 5. EXIT SIGNS AND EMERGENCY WALL PACKS SHALL BE CIRCUITED TO AN UNSWITCHED HOT LEG OF THE CIRCUIT NOTED AHEAD OF LOCAL CONTROLS.
- 6. OCCUPANCY / VACANCY SENSORS HAVE BEEN LOCATED PER THE RECOMMENDED SPACING OF THE BASIS OF DESIGN PRODUCTS. THE EXACT LOCATIONS AND QUANTITY OF SENSORS SHALL BE VERIFIED BY THE MANUFACTURER FOR PRODUCTS SUBMITTED AS EQUALS.

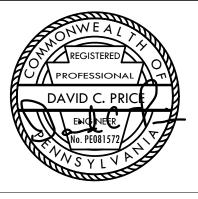
### LIGHTING KEY NOTES: (#)

- 1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.
- 2. CIRCUIT LIGHTING FIXTURES TO CIRCUIT SERVING THIS STAIRWELL. REFER TO BASEMENT LIGHTING PLAN E-200 FOR CIRCUIT DESIGNATION.
- 3. REINSTALL DEVICES ON THIS WALL THAT WERE SALVAGED THROUGH DEMOLITION AND CONFLICTED WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE REINSTALLED AND WHICH DEVICES SHALL BE DEMOLISHED. EXTEND CIRCUITS AS REQUIRED.
- 4. INSTALL (1) UNDERCABINET LIGHT FIXTURE. FIELD VERIFY TO DETERMINE THE EXACT LENGTH OF FIXTURE NEEDED.

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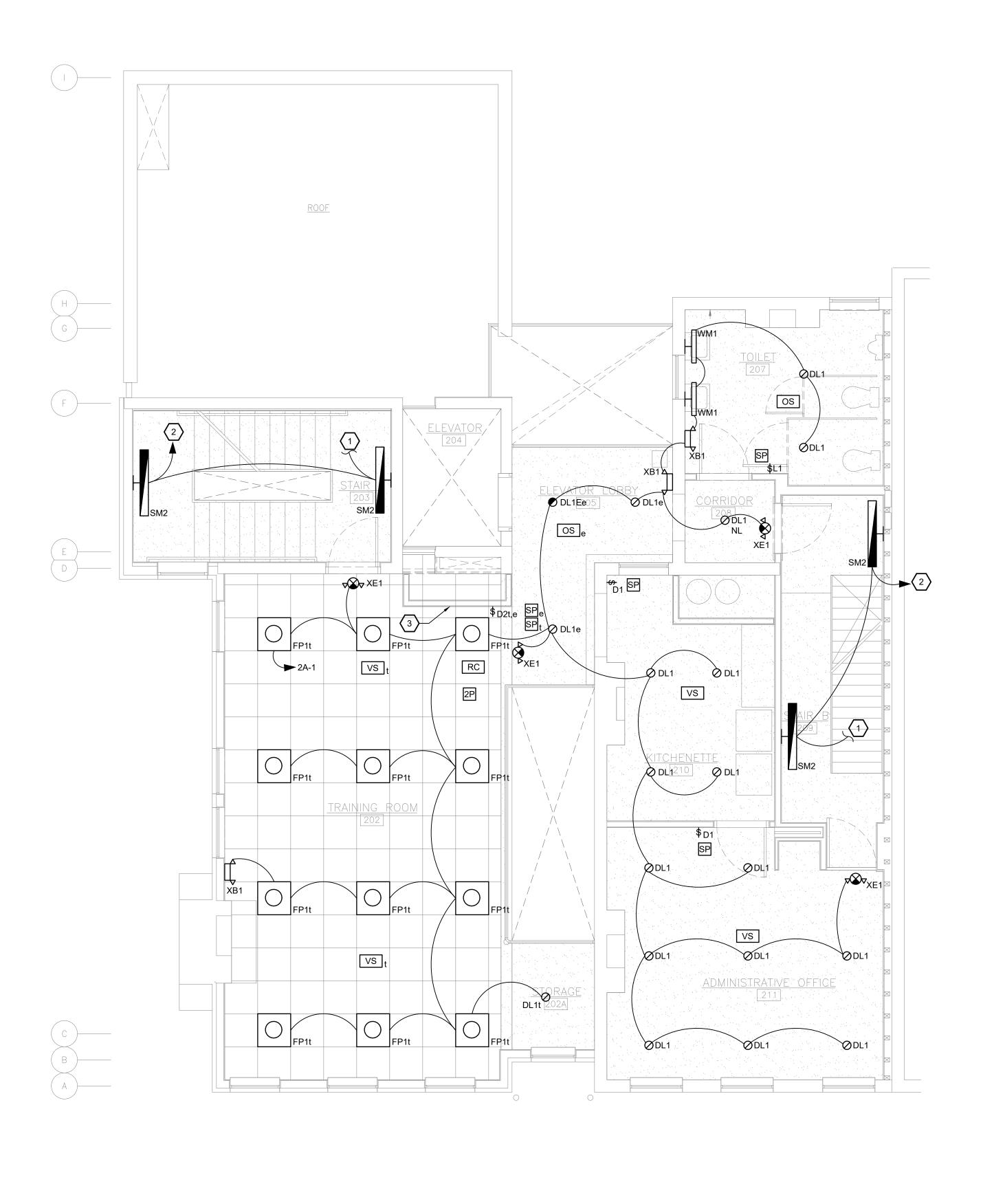
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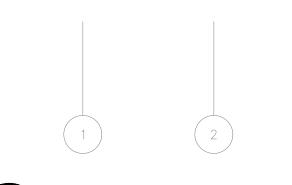
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### LIGHTING GENERAL NOTES:

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- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND EXACT LIGHTING FIXTURE LOCATIONS AND DIMENSIONAL INFORMATION.
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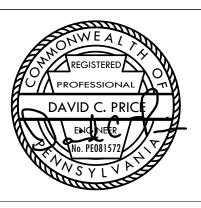
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- 1. CIRCUIT SHALL EXTEND TO ALL LIGHTING FIXTURES IN ENTIRE STAIRWELL.
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- 3. REINSTALL DEVICES ON THIS WALL THAT WERE SALVAGED THROUGH DEMOLITION AND CONFLICTED WITH THE NEW MECHANICAL CHASE. CONFIRM LOCATION OF NEW CHASE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. COORDINATE WITH ARCHITECT WHICH DEVICES SHALL BE REINSTALLED AND WHICH DEVICES SHALL BE DEMOLISHED.

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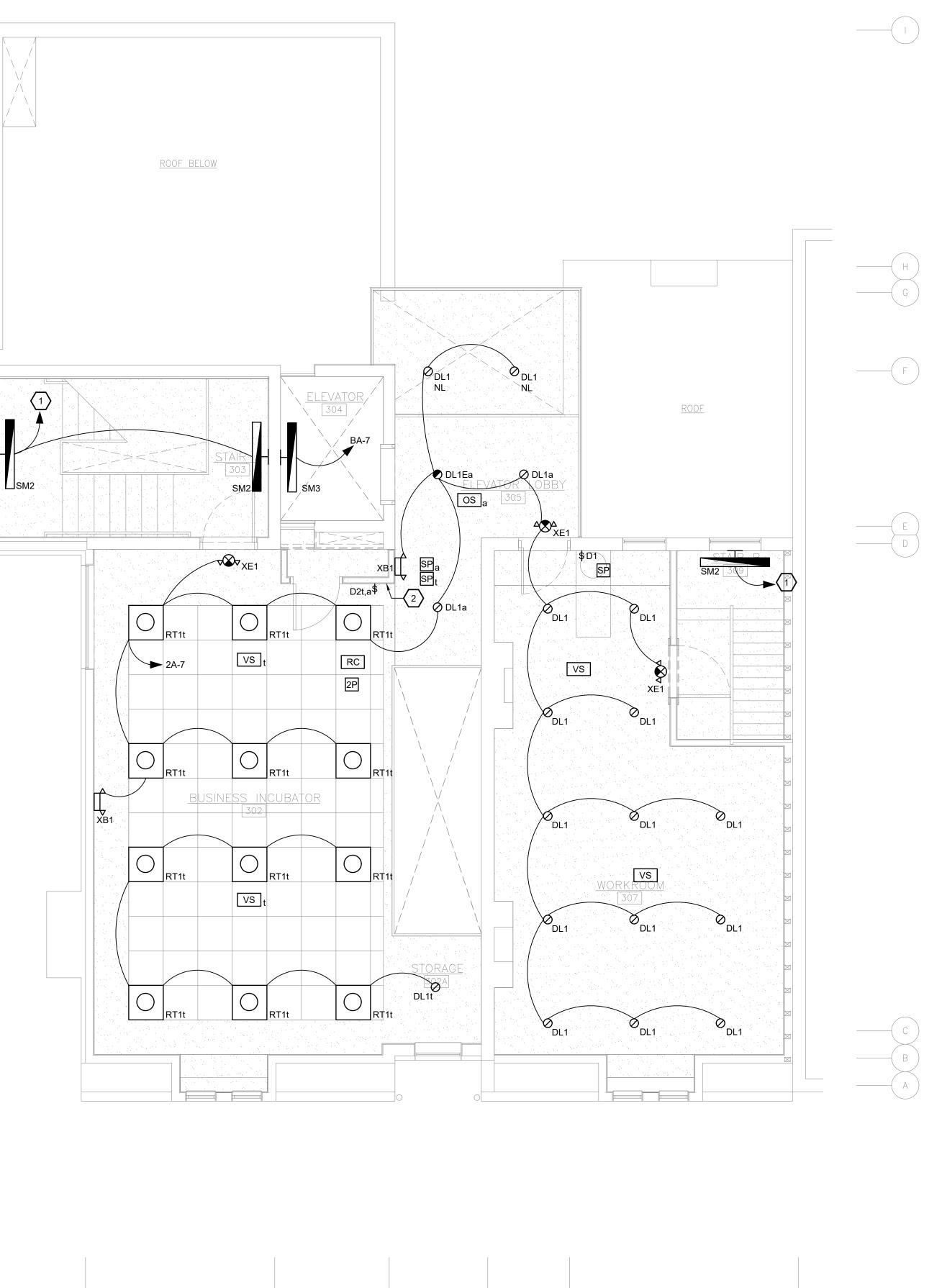
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## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



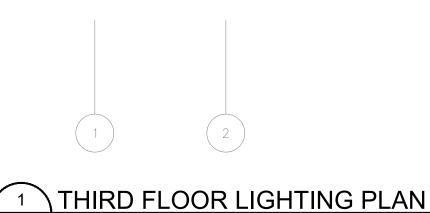


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### ALTERNATE:

CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, WIRELESS AND WIRED CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHES. DO NOT INCLUDE IN THE DEDUCT ANY WORK ASSOCIATED WITH THE SALVAGING AND REINSTALLATION OF EXISTING DEVICES TO ALLOW FOR THE NEW MECHANICAL CHASE.





E-203 1/4" = 1'-0"

#### LIGHTING GENERAL NOTES:

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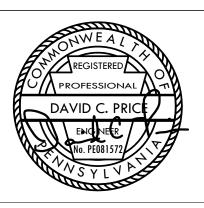
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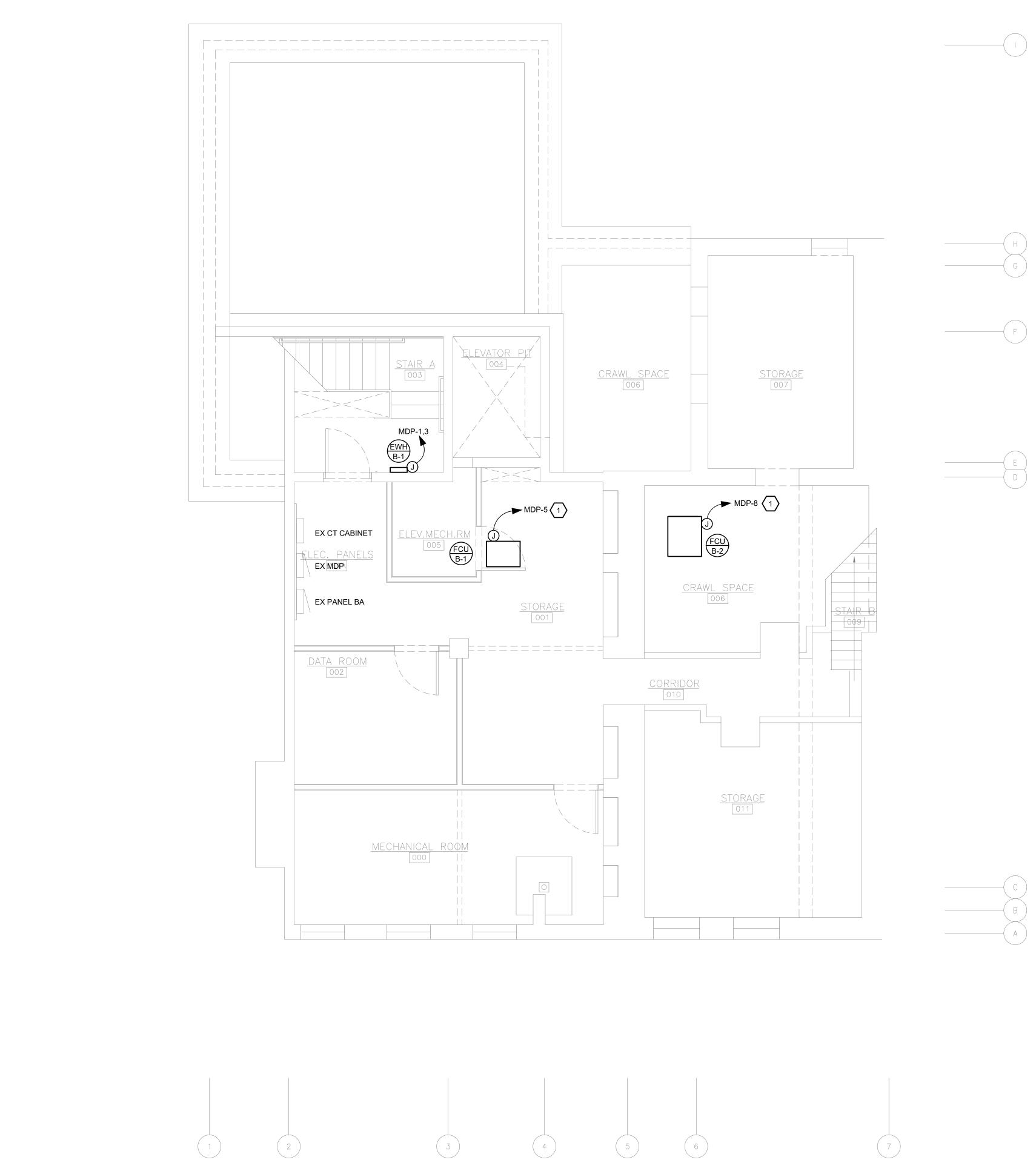
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PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**











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- 4. EC SHALL NOT HAVE MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT WITHOUT DERATING AMPACITIES PER THE NEC.
- 5. VERIFY EXACT LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
- 6. WHERE DEVICES ARE DIMENSIONED ON ARCHITECTURAL DRAWINGS, INSTALL DEVICES PER THOSE DIMENSIONS. WHERE DEVICE LOCATIONS ARE NOT DIMENSIONED ON ARCHITECTURAL DRAWINGS, INSTALL IN ACCORDANCE WITH DEFAULT LOCATIONS IN ELECTRICAL SPECIFICATIONS.
- 7. ALL ELECTRICAL DEVICES SHALL BE INSTALLED PER ADA.
- 8. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH DIVISION 23. MECHANICAL EQUIPMENT DISCONNECTS AND VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED BY DIVISION 23, INSTALLED AND WIRED BY EC, UNLESS NOTED OTHERWISE. THESE DISCONNECTS HAVE NOT BEEN SHOWN ON THIS PLAN.

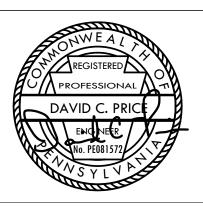
### <u>POWER KEY NOTES:</u> $\langle \# \rangle$

1. REUSE EXISTING CIRCUIT SALVAGED FROM DEMOLISHED MECHANICAL EQUIPMENT. EXTEND CIRCUIT AS REQUIRED TO NEW FURNACE.

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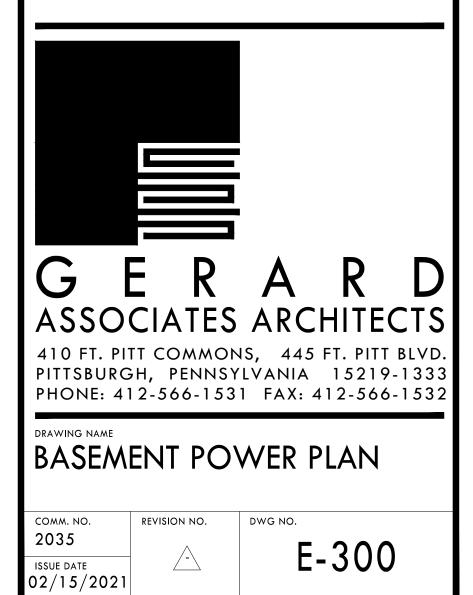
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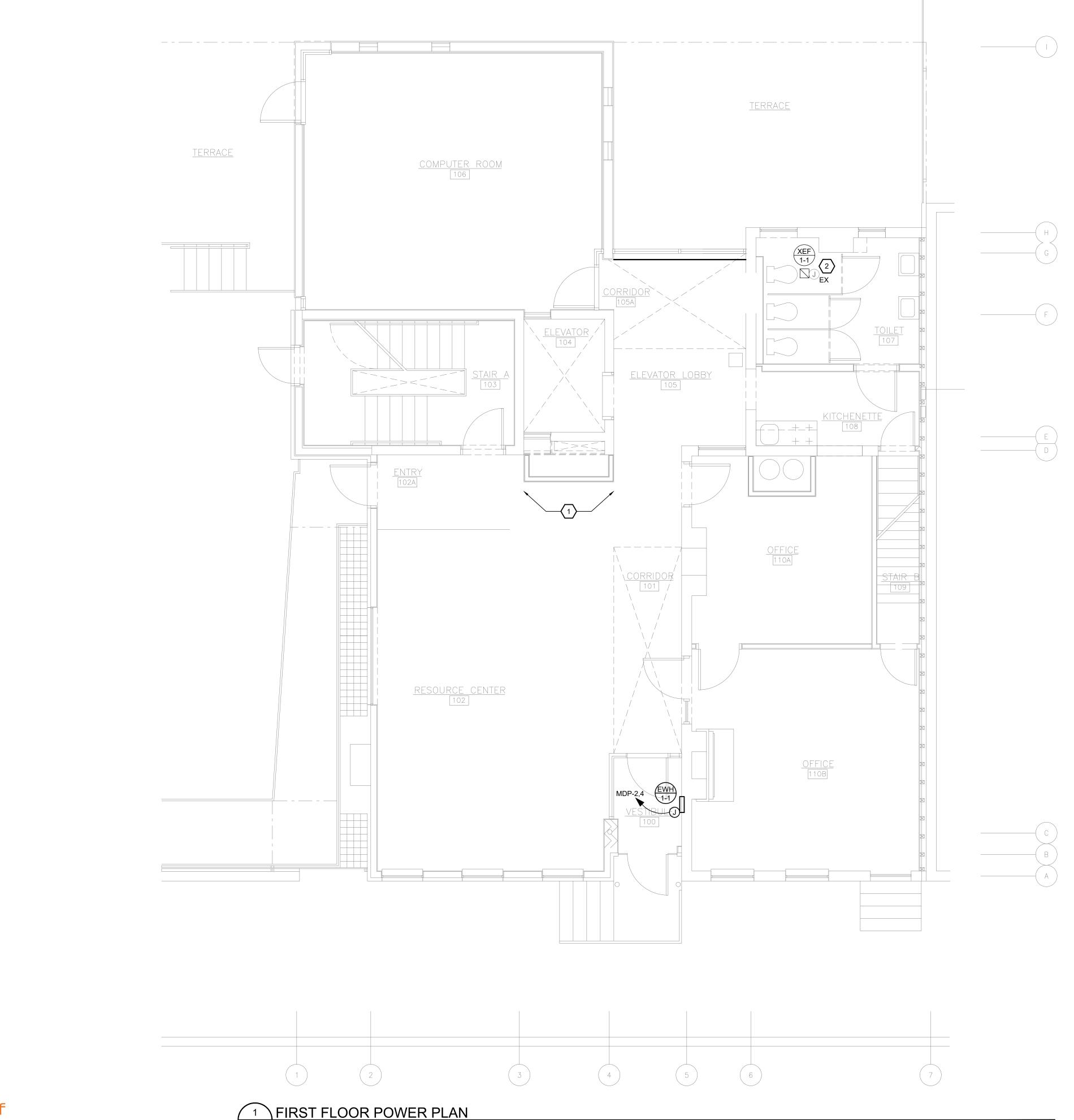


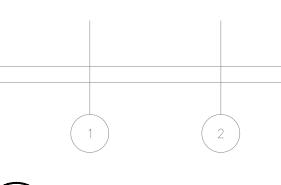
PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233











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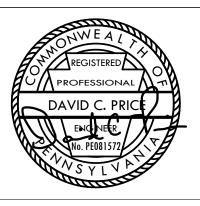
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- 2. EXISTING EXHAUST FAN SHALL BE CONTROLLED BY NEW LIGHTING SWITCH SHOWN ON 1ST FLOOR LIGHTING PLAN. CIRCUIT THROUGH LIGHTING POWER PACK/ROOM CONTROLLER FOR CONTROL THROUGH SWITCH AND OCCUPANCY SENSOR. REFER TO LIGHTING PLAN FOR CIRCUIT ASSIGNMENT.

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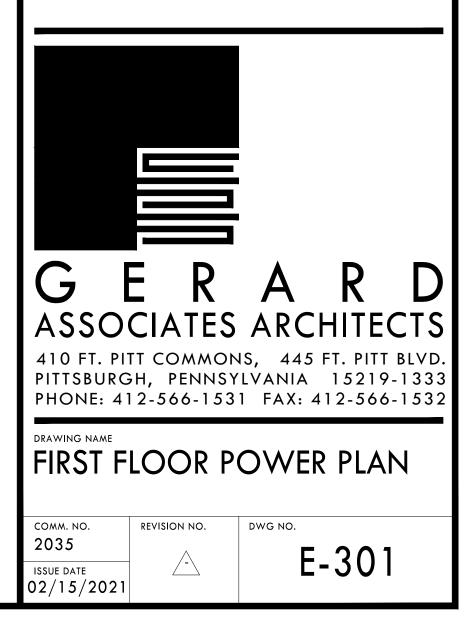
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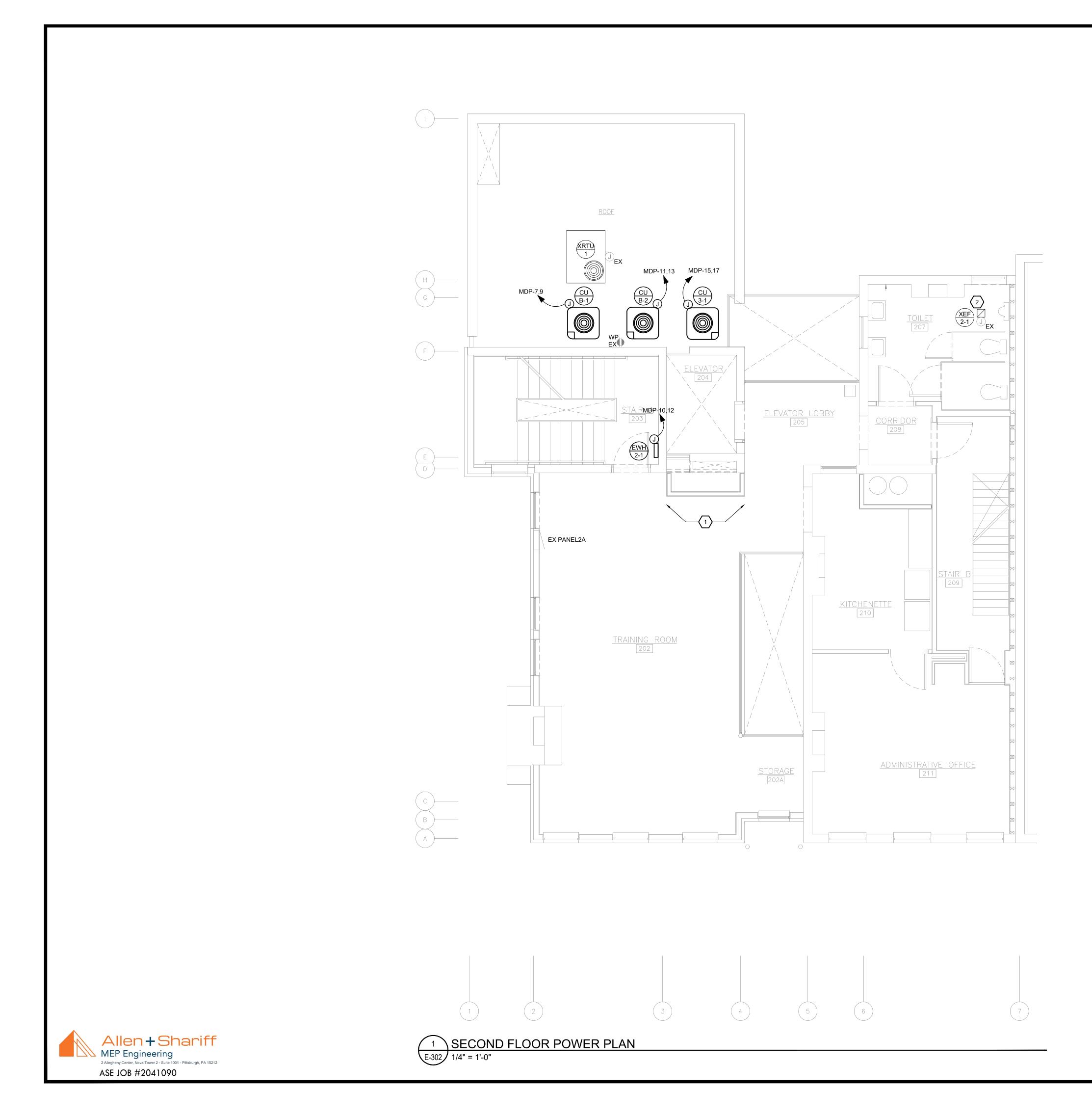


PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233





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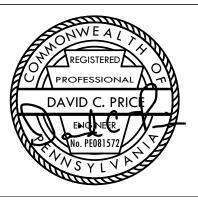
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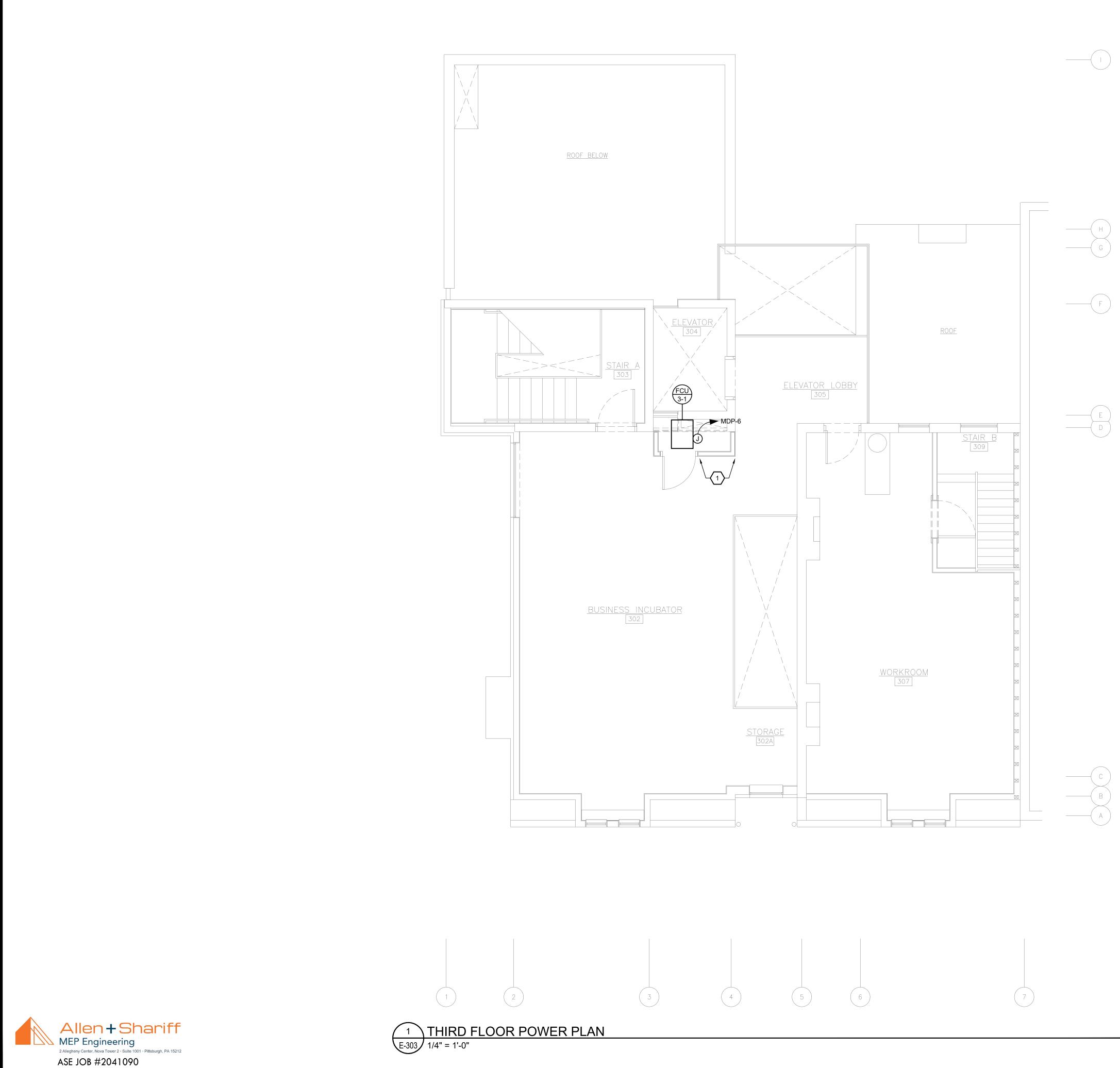
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PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER





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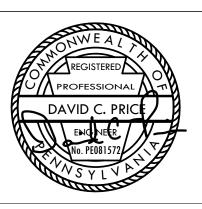
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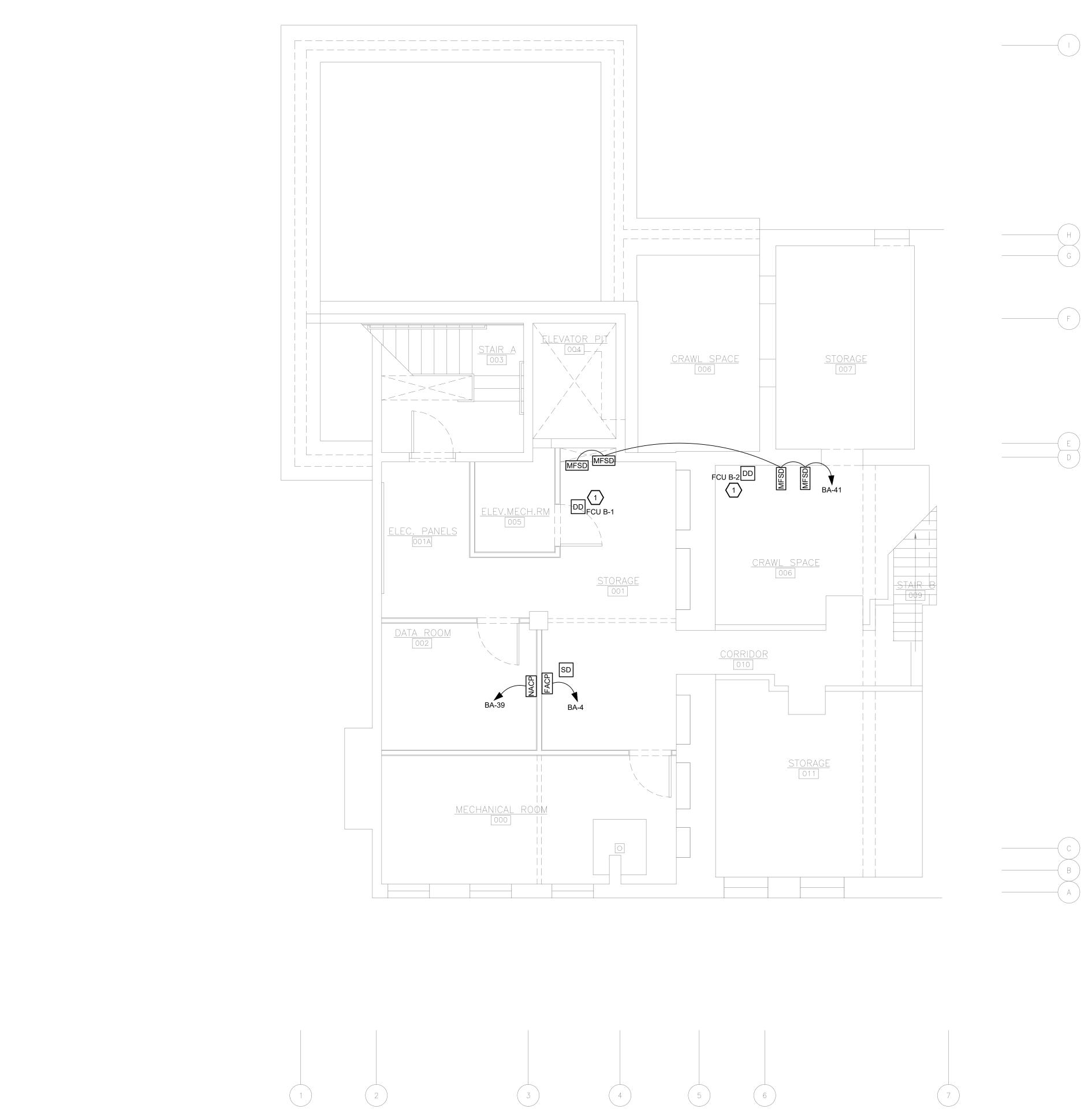


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

REHAB BUILDING #35 PITTSBURGH, PA 15233









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### <u>FIRE ALARM KEY NOTES:</u> $\langle \# \rangle$

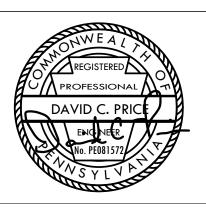
 ELECTRICAL CONTRACTOR SHALL FURNISH DUCT DETECTOR, DIVISION 23 SHALL INSTALL, AND ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM CONNECTION.

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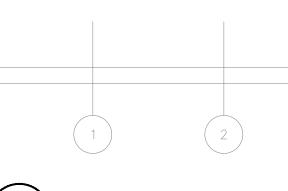


PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & OPPORTUNITIES CENTER











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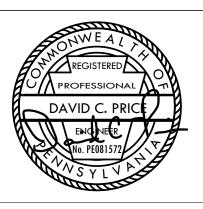
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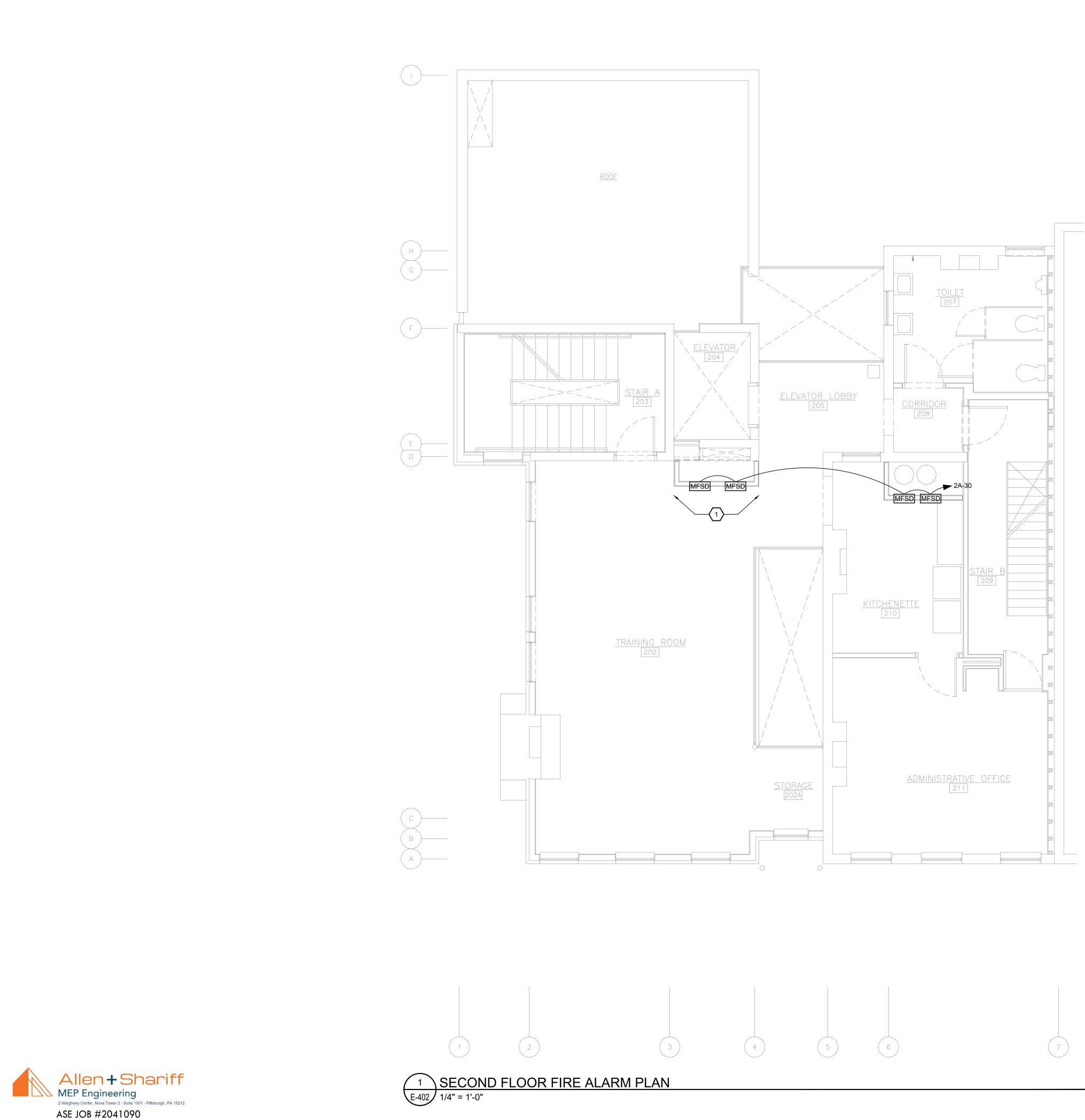
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PROPERTY REHABILITATION FOR:

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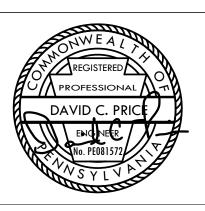
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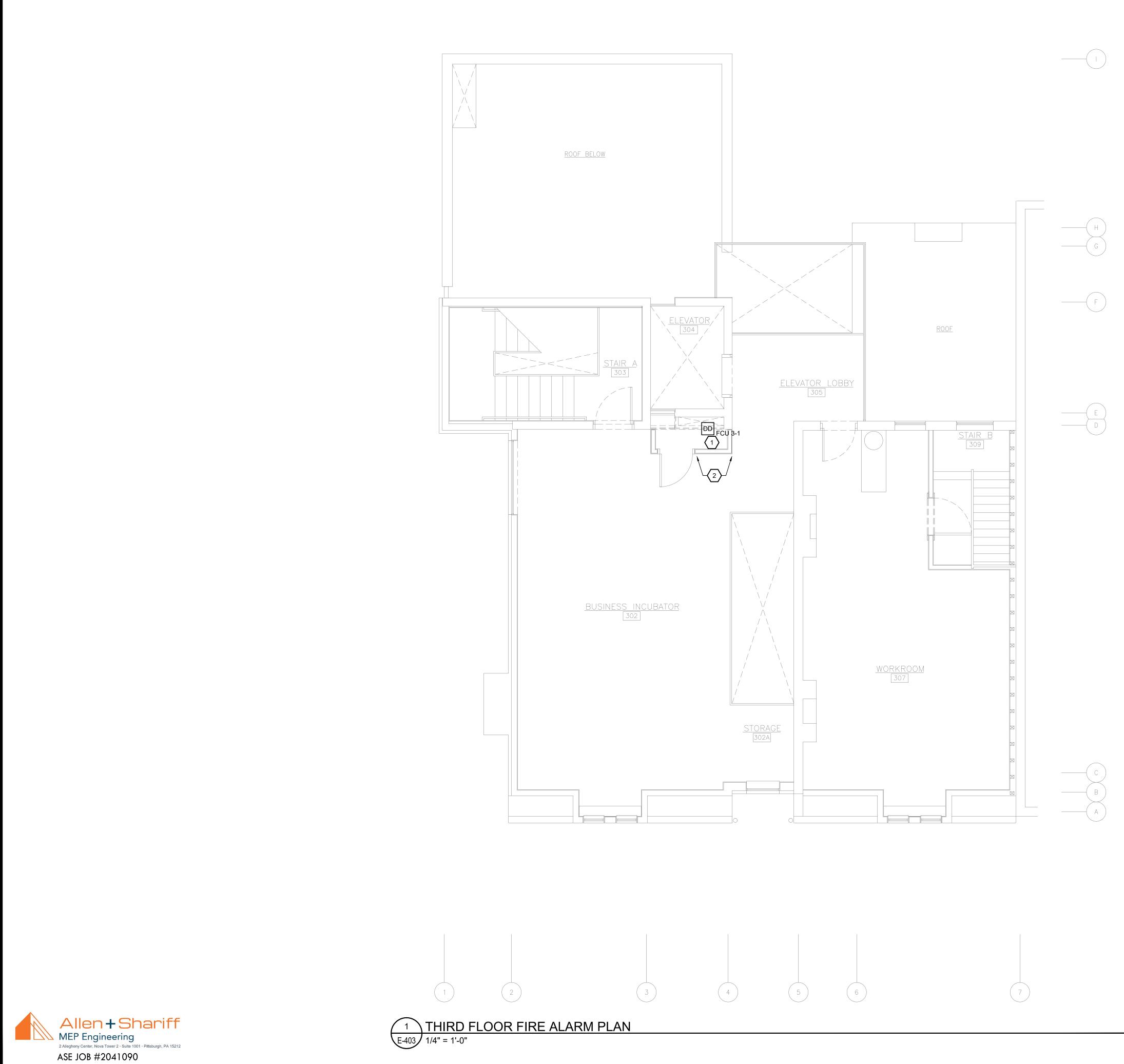
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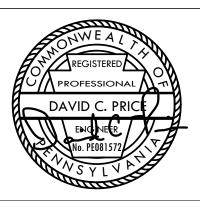
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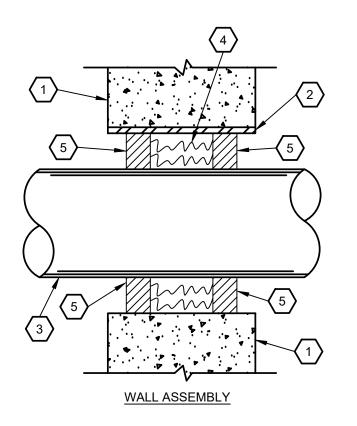
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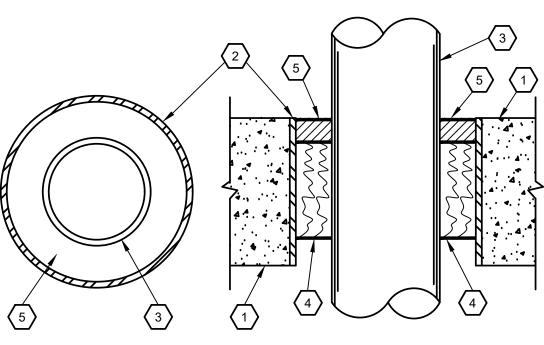


PROPERTY REHABILITATION FOR:

### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**







### <u>KEYED NOTES:</u> $\langle \# \rangle$

1. FLOOR OR WALL ASSEMBLY MINIMUM 5" THICK NORMAL WEIGHT CONCRETE FLOOR OR WALL OR MINIMUM 7-5/8" THICK MASONRY WALL HAVING A MINIMUM 2 HOUR FIRE RESISTIVE RATING WITH A NOMINAL 6" DIAMETER OPENING.

2. STEEL PIPE SLEEVE (OPTIONAL) NOMINAL 6" DIAMETER SCHEDULE 40 OR HEAVIER STEEL PIPE SLEEVE. (2 TRADE SIZES LARGER THAN CONDUIT).

3. STEEL OR EMT CONDUIT NOMINAL 4" DIAMETER CENTERED THROUGH THE OPENING.

4. FORMING MATERIAL MINERAL WOOL, MINIMUM DENSITY OF 4.4 PCF FIRMLY PACKED WITHIN THE OPENING TO A NOMINAL THICKNESS OF 3" FOR FLOORS. FOR WALLS, THE MINERAL WOOL SHALL BE CENTERED IN THE OPENING.

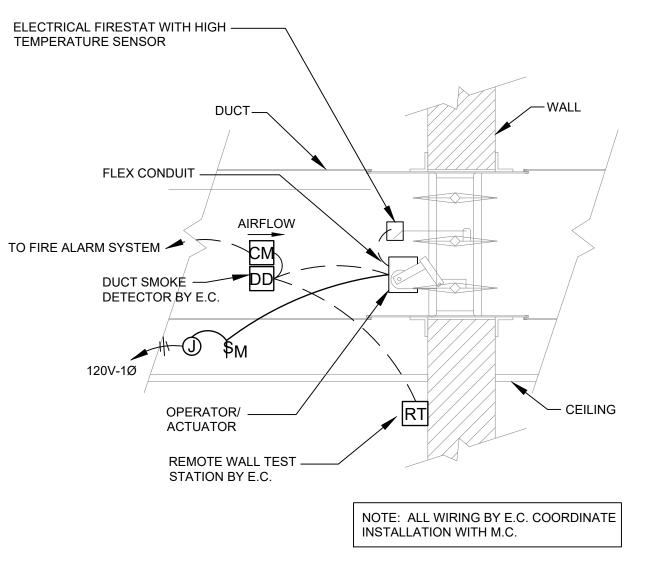
5. FILL, VOID OR CAVITY MATERIAL\* - FILL MATERIAL THAT IS TROWELED INTO THE OPENING TO A MINIMUM THICKNESS OF 1/2" IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. IN WALLS, THE FILL MATERIAL SHALL BE INSTALLED ON BOTH SURFACES OF THE OPENING.

\* BEARING THE "UL" CLASSIFICATION MARKING





FLOOR ASSEMBLY



#### NOTES:

1. MOTORIZED FIRE SMOKE DAMPER (MFSD), FRAC. HP, 120V-1Ø. CONTRACTOR.

3. PROVIDE A JUNCTION BOX ABOVE THE CEILING FOR ALL LINE VOLTAGE POWER WIRING. PROVIDE A MANUAL MOTOR STARTER TOGGLE-STYLE SWITCH AS A DISCONNECTING MEANS FOR THE MFSD AS REQUIRED. 4. PROVIDE 2#12,1#12(G)-3/4"C. FROM THE JUNCTION BOX TO THE DISCONNECTING MEANS AND HOMERUN TO A 20A, 120V CIRCUIT BREAKER, TYING A MAXIMUM OF FOUR MFSD'S TO A 20A/1P CIRCUIT BREAKER.

5. PROVIDE ALL REQUIRED FIRE ALARM SYSTEM TIE-IN WIRING AND PROGRAM FIRE ALARM SYSTEM TO PERFORM THE MECHANICAL SEQUENCE OF OPERATION.



2. PROVIDE A DUCT TYPE SMOKE DETECTOR WITH A REMOTE TEST STATION AND AUXILIARY RELAY CONTACTS TO OPERATE THE DAMPER. COORDINATE THE ROUGH-IN LOCATION WITH MECHANICAL DETAILS AND MECHANICAL

2 MOTORIZED FIRE/SMOKE DAMPER DETAIL "MFSD"

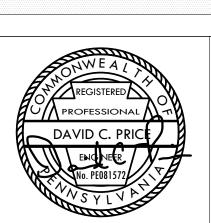
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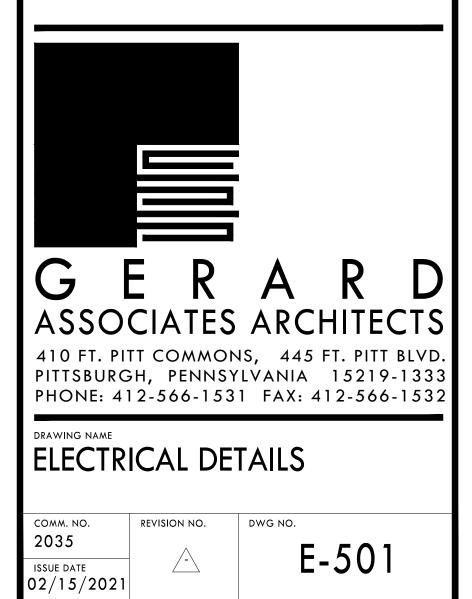
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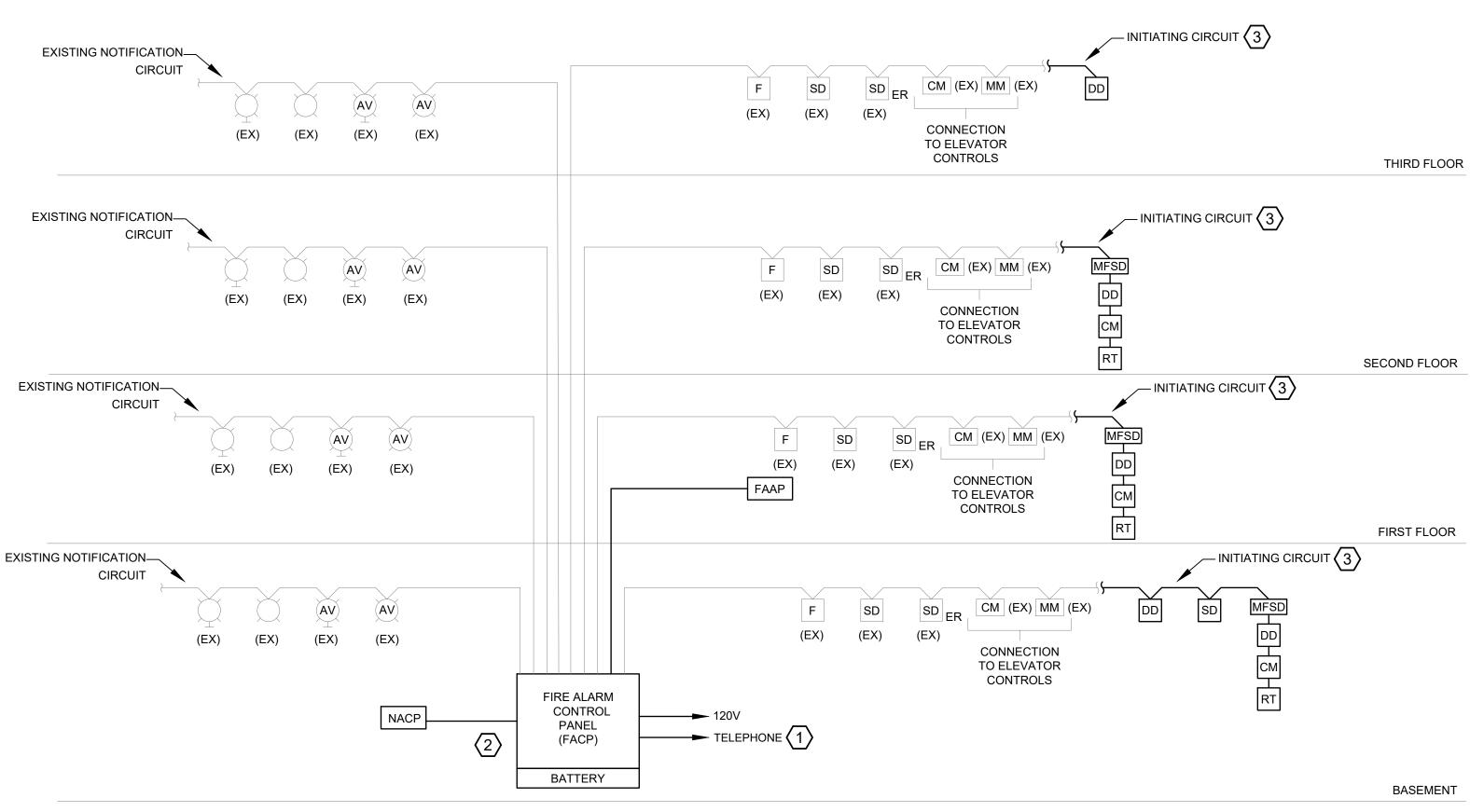
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PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 **DEVELOPMENT & OPPORTUNITIES CENTER**





#### PARTIAL FIRE ALARM RISER DIAGRAM E-601 NOT TO SCALE

GENERAL FIRE ALARM SYSTEM NOTES:

- 1. THE EXISTING FIRE ALARM SYSTEM IS MANUFACTURED BY SIMPLEX. NEW EQUIPMENT AND DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
- 2. REFER TO FLOOR PLAN FOR QUANTITY AND LOCATION OF SYSTEM COMPONENTS. EXACT ARRANGEMENT AND QUANTITY OF DEVICES SHALL BE INDICATED ON THE SHOP DRAWINGS. PROVIDE COMPLETE RISER DIAGRAM AS PART OF SHOP DRAWINGS.
- 3. VERIFY WIRING SIZES WITH THE FIRE ALARM SYSTEM MANUFACTURER AND INSTALL AS DIRECTED. DO NOT LOAD ANY CIRCUIT BEYOND 80% OF RATED CAPACITY. SUBMIT CALCULATIONS TO SUBSTANTIATE. ADD ADDITIONAL CIRCUITS AS REQUIRED.
- 4. FIRE ALARM WIRING SHALL BE ROUTED VIA A SEPARATE CONDUIT SYSTEM (3/4" MINIMUM). FIRE RATED MC CABLE IS ACCEPTABLE WHERE CONCEALED. MC CABLE SHALL BE COLORED RED. PROVIDE CONDUIT SLEEVES WITH ESCUTCHEON PLATES WHERE PASSING THROUGH WALLS, FLOOR, OR CEILINGS.
- 5. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL POWER SUPPLIES. BATTERIES, EXTENDER PANELS, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 6. THIS CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS, WIRING DIAGRAMS, EQUIPMENT CUTS, ETC. AS PART OF THE SHOP DRAWING SUBMITTAL.
- 7. CANDELA RATING SHALL BE PER NFPA 72 CHAPTER 18 REQUIREMENTS. ALL VISUAL AND AUDIO DEVICES SHALL BE SYNCHRONIZED.
- 8. AUDIBLE ALARM SYSTEM SOUND PRESSURE LEVEL SHALL COMPLY WITH IBC 907.5.2.1.
- 9. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA 72, AND LOCAL FIRE DEPARTMENT REQUIREMENTS BY THE INSTALLER. IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHALL. UPON COMPLETE ON A SUCCESSFUL TEST, THE INSTALLER SHALL SO CERTIFY, IN WRITING, TO THE OWNER AND GENERAL CONTRACTOR.
- 10. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, PRODUCTS, EXECUTION, AND INSTALLATION OF THE FIRE ALARM SYSTEM.
- 11. WIRING SHALL BE INSTALLED IN THE APPROPRIATE RACEWAY TO MEET THE SURVIVABILITY REQUIREMENTS OF THE CITY OF PITTSBURGH CODE ENFORCEMENT.
- 12. PROVIDE REMOTE TEST SWITCHES AND ASSOCIATED CONTROL MODULES FOR ALL FIRE SMOKE AND SMOKE DAMPERS. COORDINATE EXACT LOCATION OF ALL TEST SWITCHES WITH OWNER PRIOR TO ROUGH-IN. THESE SHALL BE LOCATED IN UTILITY/BACK-OF-HOUSESPACES.
- 13. EXISTING DUCT DETECTORS, DAMPERS AND RELATED EQUIPMENT (NOT SHOWN) SHALL REMAIN IN PLACE, IN SERVICE. WHERE REQUIRED, EC SHALL RELOCATE ALL TEST SWITCHES ASSOCIATED WITH EXISTING EQUIPMENT TO MAINTAIN ACCESSIBILITY IN NEW CEILING. EXTEND FIRE ALARM CIRCUIT AS REQUIRED.



### KEY NOTES: (#)

- 1. IN ORDER TO PROVIDE DIAL OUT TO FIRE DEPARTMENT, TWO SOURCES SHALL BE PROVIDED TO THE DACT WITHIN THE FIRE ALARM SYSTEM PER NFPA 26.6.3.2.1.4. THE SYSTEM SHALL EMPLOY ONE PHONE LINE AND AN ADDITIONAL TRANSMISSION MEANS AS ALLOWABLE UNDER THAT CODE SECTION AND DEEMED AVAILABLE AT THE SITE. THE OWNER MAY ALSO CHOOSE TO EMPLOY AN ALTERNATE TRANSMISSION MEANS APPROVED BY NFPA IN PLACE OF THE SECOND TELEPHONE LINE. COORDINATE WITH OWNER WHETHER DACT SHOULD DIAL DIRECTLY TO FIRE DEPARTMENT OR TO THIRD PARTY 24/7 MONITORING SERVICE CONTRACTED BY OWNER.
- 2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXISTING FIRE ALARM SYSTEM AND PROVIDE A NEW FACP THAT IS COMPATIBLE WITH THE EXISTING INITIATING AND NOTIFICATION DEVICES. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DEVICES FOR THE NEW FACP TO COMMUNICATE WITH THE OLD DEVICES.
- 3. PROVIDE EXTENSION OF EXISTING FIRE ALARM CIRCUITS TO SUPPLY NEW FIRE ALARM DEVICES. WHERE EXISTING CIRCUITS ARE NOT SIZED TO ACCOMMODATE ADDITIONAL FIRE ALARM DEVICES, PROVIDE NEW FIRE ALARM CIRCUIT TO SERVE FLOOR. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL POWER SUPPLIES, BATTERIES, EXTENDER PANELS, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. AII FIRE ALARM DEVICES SHALL BE FULLY COMPATIBLE WITH EXISTING SYSTEM.

THE FIRE ALARM SCOPE INCLUDES THE REPLACEMENT OF THE EXISTING FIRE ALARM CONTROL PANEL AND THE ADDITION OF INITIATING DEVICES WHERE NOTED ON THE FIRE ALARM NEW WORK PLANS. THE NEW FIRE ALARM CONTROL PANEL SHALL BE FULLY COMPATIBLE AND FUNCTIONAL WITH THE EXISTING INITIATING AND NOTIFICATION DEVICES. ALL EXISTING WIRING AND CONDUIT TO DEVICES SHALL BE REUSED UNDER THIS SCOPE.

THE BASIS OF DESIGN FOR THE FIRE ALARM CONTROL PANEL (FACP) IS A SIMPLEX 4100ES PANEL. CONTACT SIMPLEX REPRESENTATIVE JEFF GASPARIK, (724) 741-3474, WITH QUESTIONS REGARDING THE COMPATIBILITY OF THE NEW PANEL WITH THE EXISTING NOTIFICATION AND INITIATING DEVICES.

FIRE ALARM PERMIT NOTE (CITY OF PITTSBURGH):

THE E.C. BID SHALL INCLUDE THE COST FOR AN INDEPENDENT THIRD PARTY PROFESSIONAL ENGINEER TO SIGN, DATE, AND SEAL ALL FIRE ALARM DOCUMENTS REQUIRED FOR BUILDING PERMIT. THE FIRE ALARM DOCUMENTS INCLUDED WITH THE E-SERIES DRAWINGS ARE PROVIDED FOR FIRE ALARM DESIGN INTENT WITHIN THE CITY OF PITTSBURGH. THE CITY OF PITTSBURGH WILL REQUIRE SIGNED/SEALED MANUFACTURER SHOP DRAWINGS (BY THE INDEPENDENT THIRD PARTY) FOR PERMIT APPROVAL BEYOND THE DOCUMENTS CONTAINED IN THE E-SERIES DRAWINGS.

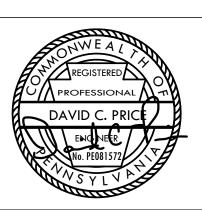
THE FIRE ALARM SHOP DRAWINGS SHALL INCLUDE AT A MINIMUM FIRE ALARM FLOOR PLANS AND A RISER DIAGRAM. EACH PLAN OR RISER SHALL INDICATE THE NUMBER AND TYPES OF FIRE ALARM DEVICES INSTALLED ON EACH CIRCUIT, DEVICE ADDRESSES, CONDUCTOR TYPES AND SIZES, FIRE ALARM ZONES, PRIMARY AND SECONDARY POWER SUPPLIES (AS NECESSARY), AND ALL NEW FIRE ALARM DEVICES AS ADDED TO EXISTING CIRCUITS. DOCUMENTS SHALL ALSO CONTAIN BATTERY AND VOLTAGE DROP CALCULATIONS.

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PROPERTY REHABILITATION FOR:

## HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**



	Donol	-
Existing	Falle	

MDP

Location: MAIN ELECTRICAL ROOM Supply From: EXISTING UTILITY SERVICE Mounting: SURFACE Enclosure: TYPE 1

Volts:	208/120V
Phases:	3
147	

Wires: 4

Volts: 208/120V

A.I.C. Rating: EXISTING KAIC Mains Type: MCB Mains Rating: 400 MCB Rating: 400

A.I.C. Rating: EXISTING KAIC

10 12

14

18 20

24 26

CK

**Circuit Description** 

01/7					LOAD (VA)					<b>T</b> ·				
CKT	Circuit Description	Wire Size	Trip	Pole	,	A	1	3		С	Pole	Trip	Wire Size	Circuit Description
1	EWH B-1 (NOTE 4)	3#12, 1#12G - 3/4"C	20	2	1500	1500					2	20	3#12, 1#12G - 3/4"C	EWH 1-1 (NOTE 4)
3		J#12, 1#12 <b>9 -</b> 5/4 C	20	2			1500	1500			1 2	20	J#12, 1#12 <b>G</b> - 5/4 C	
5	FCU B-1 (NOTE 3)	2#12, 1#12G - 3/4"C	20	1					1380	1380	1	15	2#12, 1#12G - 3/4"C	FCU 3-1 (NOTE 4)
7	CU B-1 (NOTE 4)	3#4, 1#10G - 1"C	60	2	3619	1380					1	20	2#12, 1#12G - 3/4"C	FCU B-2 (NOTE 3)
9	CO B-1 (NOTE 4)	J#4, 1#10 <b>G</b> - 1 C	00	2			3619	1500			2	20	3#12, 1#12G - 3/4"C	EWH 2-1 (NOTE 4)
11	CU B-2 (NOTE 4)	3#4, 1#10G - 1"C	60	2					3619	1500	<b>1 2</b>	20	3#12, 1#12 <b>G</b> - 3/4 C	
13	CO B-2 (NO TE 4)	J#4, 1#10 <b>G</b> - 1 C	00	2	3619									
15	CU 3-1 (NOTE 4)	3#4, 1#10G - 1"C	2#4 4#400 4%0 00				3619				3	40	EXISTING	EX CONDENSING UNIT #
17	CU 3-1 (NUTE 4)	J#4, 1#10 <b>G</b> - 1 C	60	2					3619		1			
19														
21	EX PANEL 2A	EXISTING	100	3							3	60	EXISTING	EX SPARE
23											1			
25														
27	EX ELEVATOR	EXISTING	150	3							3	150	EXISTING	EX PANEL BA
29											1			
		Т	otal L	oad:	11	618	11	738	11	498				
		Pa	nel A	mps:			96	6.7						
NOT	ES:													
1. L	1. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS ARE EXISTING TO REMAIN.													
2. L	2. LOADS IN BOLD ARE NEW LOADS ON EXISTING PANEL.													
3. (	3. (WHERE NOTED) REUSE EXISTING CIRCUIT BREAKER THAT PREVIOUSLY SERVED DEMOLISHED MECHANCAL EQUIPMENT.													
4. (	WHERE NOTED) PROVIDE N	EW CIRCUIT BREAKER S	ZED	AS S	HOWN.	MATCH	THE MA	NUFAC	TURER,	MODEL	AND	AIC F	RATING OF EXISTING BRE	AKERS.
			-	-										

#### Existing Branch Panel: BA Location: MAIN ELECTRICAL ROOM Supply From: MDP

Supply From: MDP Mounting: SURFACE Enclosure: TYPE 1							F	Phases: Wires:					Mains Type: Mains Rating: MCB Rating:	150	
СКТ	Circuit Description	Wire Size	Trip	Pole	ŀ	4	LOAD E		(	2	Pole	Trip	Wire Size	Circuit Description	<mark>СКТ</mark>
1	LTG BASEMENT	2#12, 1#12G - 3/4"C	20	1	520						1	20	EXISTING	EX REC BASEMENT	2
3	EX EM BATTERY UNIT	EXISTING	20	1				500			1	20	2#12, 1#12G - 3/4"C	FACP (NOTE 3)	4
5	LTG STAIRWELL A	2#12, 1#12G - 3/4"C	20	1					293		1	20	EXISTING	EX LTG ELEV CAB LTS	6
7	LTG ELEVATOR PIT	2#12, 1#12G - 3/4"C	20	1	102						1	20	EXISTING	EX REC ELEVATOR	8
9	LTG ELEV MACHINE RM	2#12, 1#12G - 3/4"C	20	1			46				1	20	EXISTING	EX REC TELEPHONE REC	10
11	LTG 1ST FLOOR	2#12, 1#12G - 3/4"C	20	1					1550		1	20	EXISTING	EX REC SECURITY REC	12
13	EX LTG ATRIUM	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	14
15	EX LTG 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	16
17	EX LTG 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	18
19	EX CIRCUIT	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	20
21	EX CIRCUIT	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	22
23	EX WATER FOUNTAIN	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	24
25	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	26
27	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	28
29	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC COMPUTER ROOM	30
31	EX REC 1ST FLOOR	EXISTING	20	1							1	20	EXISTING	EX REC BASEMENT	32
33	EX REC EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX REC BASEMENT	34
35	EX REC EXTERIOR	EXISTING	20 1 1 20 EXISTING EX SNOW M		EX SNOW MELT	36									
37	EX LTG EXTERIOR	EXISTING	20	1							1	20	EXISTING	EX 1ST FLR BATH & STAIR	38
39	NACP (NOTE 3)	2#12, 1#12G - 3/4"C	20	1			500	500			1	20	2#12, 1#12G - 3/4"C	1ST FL MFSD'S	40
41	BASEMENT MFSD'S	2#12, 1#12G - 3/4"C	20	1					1000		1	20		EX SPARE	42
	Total Load			oad:	62	22	15	46	28	43					

13.9

8.6

NOTES:

. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS ARE EXISTING TO REMAIN.

Panel Amps:

2. LOADS IN BOLD ARE NEW LOADS ON EXISTING PANEL. . PROVIDE LOCKING DEVICE ON EXISTING BREAKER. Existing Branch Panel: 2A Location: 2ND FLOOR TRAINING ROOM Volts: 208/120V A.I.C. Rating: EXISTING KAIC Mains Type: MLO Supply From: MDP Phases: 3 Mounting: RECESSED Wires: 4 Mains Rating: 100 Enclosure: TYPE 1 MCB Rating: -LOAD (VA) Circuit Description Wire Size Wire Size R A LTG 2ND FLOOR 2#12, 1#12G - 3/4"C 963 EXISTING EX REC 2ND FLOOR 3 EX LTG 2ND FLOOR EXISTING EXISTING EX REC 2ND FLOOR 5 EX LTG 2ND FLOOR EXISTING 1 20 EXISTING EX REC 2ND FLOOR 7 LTG 3RD FLOOR 2#12, 1#12G - 3/4"C 934 EXISTING EX REC 2ND FLOOR 1 20 9 EX LTG 3RD FLOOR EXISTING 1 20 EXISTING EX REC 2ND FLOOR 1 EX LTG 3RD FLOOR EXISTING EX REC 3RD FLOOR EXISTING 1 20 LTG STAIRWELL B 2#12, 1#12G - 3/4"C 190 EXISTING EX REC 3RD FLOOR 1 20 EX REC ROOFTOP GFI EXISTING EXISTING EX REC 3RD FLOOR 1 20 **EX STEREO** EXISTING EXISTING EX REC 3RD FLOOR EX WATER FOUNTAIN EXISTING EXISTING EX LTG 3RD FLOOR EX LTG 2ND FLOOR EXISTING 1 20 EXISTING EX REC BATHROOM GFI **EX REFRIGERATOR** EXISTING EXISTING EX RANGE 50 EX RIGHT KITCHEN GFI EXISTING EX DISHWASHER EXISTING EXISTING EX CUBICLES 1 20 2#12, 1#12G - 3/4"C 2ND FL MFSD'S 29 EX MICROWAVE EXISTING 20 1000 Total Load: 2087 1000 0

NOTES:

. UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT BREAKERS ARE EXISTING TO REMAIN.

Panel Amps:

. LOADS IN BOLD ARE NEW LOADS ON EXISTING PANEL.



			LIGHTING FIXTURI			ULE		
TYPE	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	LAMP #	AMP(S) LAMP TYPE	DRIVER/ BALLAST	CONTRACTOR OF A	VOL
DL1	6" RECESSED DOWNLIGHT	HALO	FRAME: HC6-20-D010 LED MODULE: HM6-12-835		LED, 3500K,	0-10V, DIM TO	21	120
DL1E	6" RECESSED DOWNLIGHT WITH EMERGENCY BATTERY	HALO	REFLECTOR: 61-MD-H FRAME: HC6-20-D010-REM14 LED MODULE: HM6-12-835 REFLECTOR: 61-MD-H		2000LM LED, 3500K, 2000LM	1% 0-10V, DIM TO 1%	21	120
FP1	2'X2' FLAT PANEL	METALUX	22-FPX-42-L835-HCD		LED, 3500K, 4200LM	0-10V, DIM TO 1%	42	120
SM1	4'-0" SURFACE MOUNTED STRIP FIXTURE W/ ROUND LENS	METALUX	4SNLED-LD5-50SL-LW-UNV-L835-CD1-U		LED, 3500K, 5000LM	0-10V, DIM TO 10%	46	120
SM1E	4'-0" SURFACE MOUNTED STRIP FIXTURE W/ ROUND LENS AND EMERGENCY BATTERY	METALUX	4SNLED-LD5-50SL-LW-UNV-EL14W-L835-CD1-U		LED, 3500K, 5000LM	0-10V, DIMTO 10%	46	120
SM2	4'-0" WALL MOUNTED STAIR FIXTURE W/ EMERGENCY BATTERY AND INTEGRAL OCCUPANCY SENSOR	METALUX	4SWLED-40SL-LW-UNV-EL14W-L835-CD1-SVPD2-U		LED, 3500K, 4000LM	0-10V	38	120
SM3	4'-0" SURFACE MOUNTED, WET LISTED VAPORTIGHT STRIP FIXTURE WITH EMERGENCY BATTERY	METALUX	4VT2-LD5-6-FR50-UNV-EL10W-L835-CD1-WL-U		LED, 3500K, 6000LM	0-10V	51	120
WM1	2' WALL MOUNTED VANITY FIXTURE	METALUX	2BCLED-LD4-20SL-F-UNV-L835-CD-1-U		LED, 3500K, 2000LM	0-10V	23	120
WM2	EXTERIOR WALL SCONCE WITH PHOTOCELL	ASL	BCJA-W24-ND-30K-H21-PC-XX		LED, 3000K, 2800LM	LED	24	120
WM3	INTERIOR DECORATIVE WALL SCONCE	ASL	BCRBA-W24-DVD-35K-H20-XX		LED, 3500K, 2800LM	0-10V	24	120
VVIVI4	EXTERIOR WALL SCONCE WITH EMERGENCY BATTERY AND PHOTOCELL	ASL	DSKE-W24-ND-30K-W4-EMG-PC-XX		LED, 3000K, 2800LM	LED	24	120
UC1	3' UNDERCABINET FIXTURE	HALO	HU30-BSC-36-P		LED, 3500K, 850LM	LED	14	120
XB1	EMERGENCY BATTERY UNIT WITH SELF- DIAGNOSTICS	EXITRONIX	LED-95-WH-G2	2	LED		2	120
XE1	THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP, EMERGENCY LIGHTING HEADS, SELF- DIAGNOSTICS, AND REMOTE HEAD CAPABILITY	EXITRONIX	VLEDC-51-WH-G2-R4	2	LED		2	120
XR1	WET LOCATION LED EMERGENCY REMOTE LAMPS	EXITRONIX	RL1-WP-GR		LED		1	

1. ARCHITECT SHALL SPECIFY / VERIFY ALL FINISH SELECTIONS. 2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

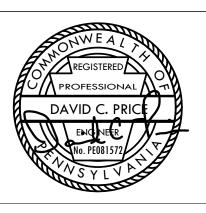
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MOUNTING ACCESSORIES.

#### **GENERAL CIRCUITING NOTE:**

CIRCUIT BREAKERS IN EXISTING PANELS MDP, BA, AND 2A WILL BECOME SPARE FOLLOWING DEMOLITION OF THE EXISTING SPACE. THE LOAD ASSIGNMENTS NOTED HERE ARE ARBITRARY, AND THE EC SHALL UTILIZE ANY EXISTING SPARE BREAKERS AND ANY BREAKERS MADE SPARE THROUGH DEMOLITION IN THESE PANELS. WHERE NO SPARE BREAKER IS AVAILABLE, EC SHALL INSTALL NEW BREAKER IN AN EXISTING PROVISIONAL SPACE. NEW BREAKER SHALL MATCH THE MANUFACTURER, MODEL, & AIC RATING OF EXISTING BREAKERS. ALL BASE BUILDING LOADS AND CIRCUITS SERVING DEVICES THAT ARE EXISTING TO REMAIN SHALL BE MAINTAINED. THE EC SHALL ADJUST CIRCUIT ASSIGNMENTS AS REQUIRED AND PROVIDE NEW PANEL SCHEDULES TO REFLECT THE INSTALLATION AT PROJECT CLOSEOUT.

ALTERNATE: CONTRACTOR SHALL PRICE SEPARATELY ALL WORK, INCLUSIVE OF ALL LABOR, MATERIALS, TAX, OVERHEAD AND PROFIT, ASSOCIATED WITH THE DEMOLITION OF THE EXISTING LIGHTING AND LIGHTING CONTROLS. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF EXISTING FIXTURES SHALL BE INCLUDED IN THE DEDUCT ALTERNATE INCLUDING BUT NOT LIMITED TO FIXTURES, SWITCHES, WIRING, WIRELESS AND WIRED CONTROLS, CONTROL PANELS, PROGRAMMING, GENERAL CEILING AND WALL PATCHES.

S	MOUNTING	NOTES
	RECESSED, CEILING	
	RECESSED, CEILING	
	RECESSED, CEILING	
	SURFACE, CEILING	WHERE CEILING CONDITIONS DO NOT ALLOW FOR SURFACE MOUNTING, PROVIDE AIRCRAFT CABLE SUSPENSION MOUNTING. EC SHALL FIELD COORDINATE.
	SURFACE, CEILING	WHERE CEILING CONDITIONS DO NOT ALLOW FOR SURFACE MOUNTING, PROVIDE AIRCRAFT CABLE SUSPENSION MOUNTING. EC SHALL FIELD COORDINATE.
	SURFACE, WALL	OCCUPANCY SENSOR SHALL OPERATE TO TURN LIGHTS ON TO 100% LIGHT OUTPUT WHEN STAIRWELL IS OCCUPIED AND 0% WHEN UNOCCUPIED.
	SURFACE, WALL	
	SURFACE, UNDERCABINET	COORDINATE MOUNTING WITH CASEWORK PROVIDER. CONCEAL WHERE POSSIBLE. PROVIDE ALL MOUNTING AND CONNECTION ACCESSORIES.
	SURFACE, WALL	
	UNIVERSAL	PROVIDE NUMBER OF FACES AND DIRECTIONAL CHEVRONS AS SHOWN ON PLANS.
	SURFACE, WALL	



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### HACP TASK ORDER #35 DEVELOPMENT & **OPPORTUNITIES CENTER**

