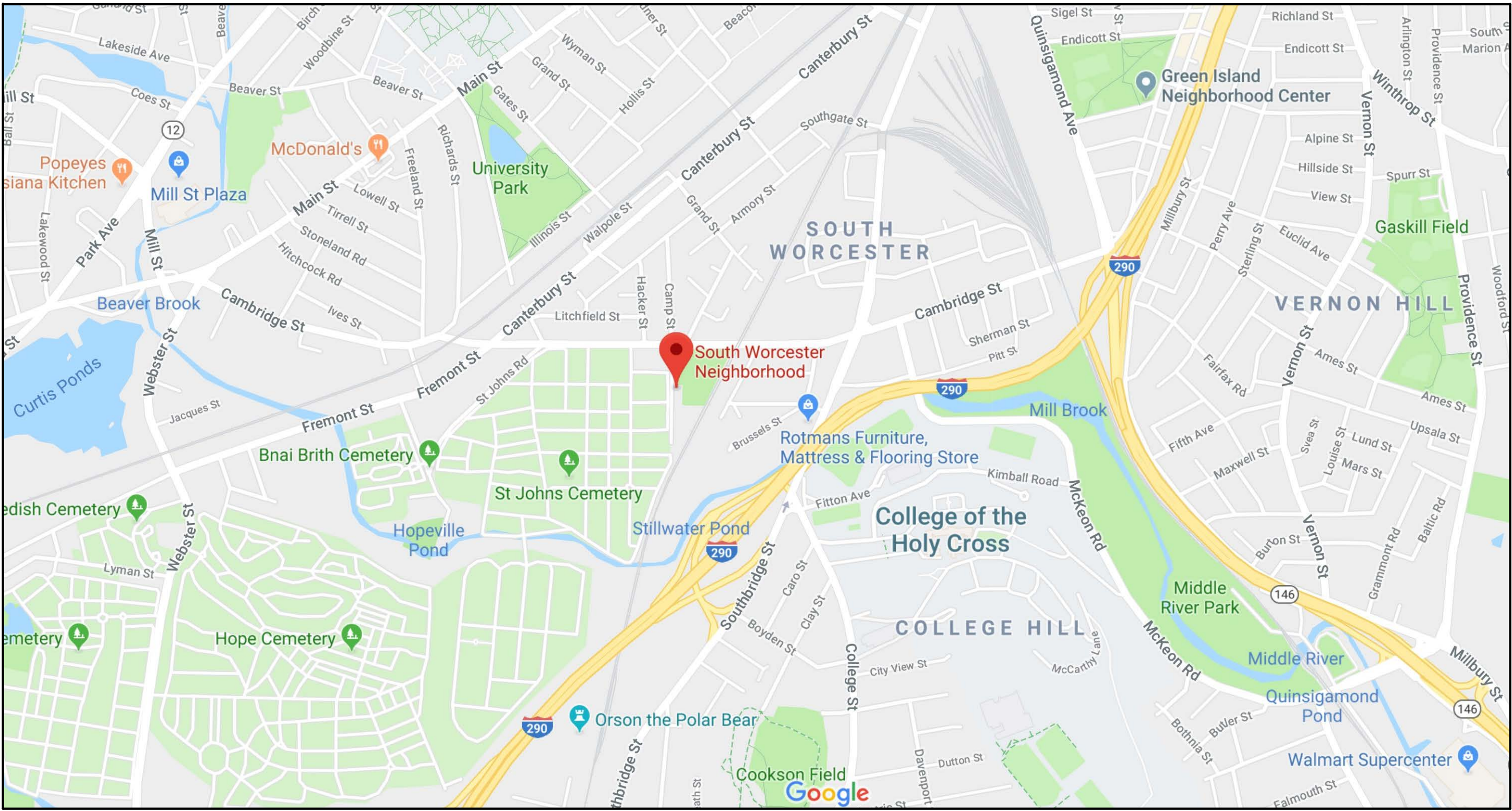


INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
FOR THE
WORCESTER PARKS AND DPW
WORCESTER, MA
BID SET
MARCH 2022



LIST OF DRAWINGS

- T1.0 - COVER SHEET
- A1.0 - DEMOLITION FIRST FLOOR PLAN
- A1.1 - DEMOLITION BASEMENT FLOOR PLAN
- A2.0 - NEW FIRST FLOOR PLAN
- A2.1 - NEW BASEMENT FLOOR PLAN
- A3.0 - WORK AREA PLANS, RCP AND DETAILS
- A3.1 - NEW OFFICE AND KITCHEN RCP
- A4.0 - ELEVATIONS AND DETAILS
- A5.0 - DETAILS
- S1.1 - PLANS AND SECTIONS
- DP-1 - BASEMENT PLUMBING DEMOLITION PLAN
- DP-2 - FIRST FLOOR PLUMBING DEMOLITION PLAN
- P-1 - PROPOSED BASEMENT PLUMBING FLOOR PLAN
- P-2 - PROPOSED FIRST FLOOR PLUMBING PLAN
- DH-1 - FIRST FLOOR HEATING & VENTILATION DEMOLITION PLAN
- H-1 - BASEMENT HVAC PLAN
- H-2 - PROPOSED FIRST FLOOR HEATING & VENTILATION PLAN
- E0 - LEGEND AND NOTES
- ED1 - DEMOLITION PLAN
- ED2 - DEMOLITION PLAN - BASEMENT
- ED3 - DEMOLITION PLAN - FIRST FLOOR
- E1 - LIGHTING PLAN
- E2 - POWER PLAN
- E3 - HVAC POWER PLAN
- EH - ELECTRICAL HVAC POWER REPLACEMENT PLAN
- ER1 - ELECTRICAL REPLACEMENT PLAN - BASEMENT
- ER2 - ELECTRICAL REPLACEMENT PLAN - FIRST FLOOR

KEY PLAN

DRAWING TITLE

COVER SHEET

JOB NUMBER: 1422.2
JOB TITLE

INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT

ARCHITECT

☐ NAULT ARCHITECTS, INC.
71 HOPE AVENUE
WORCESTER, MA 01603

TEL: (508) 755-6134
FAX: (508) 754-4661

DRAWING NO.

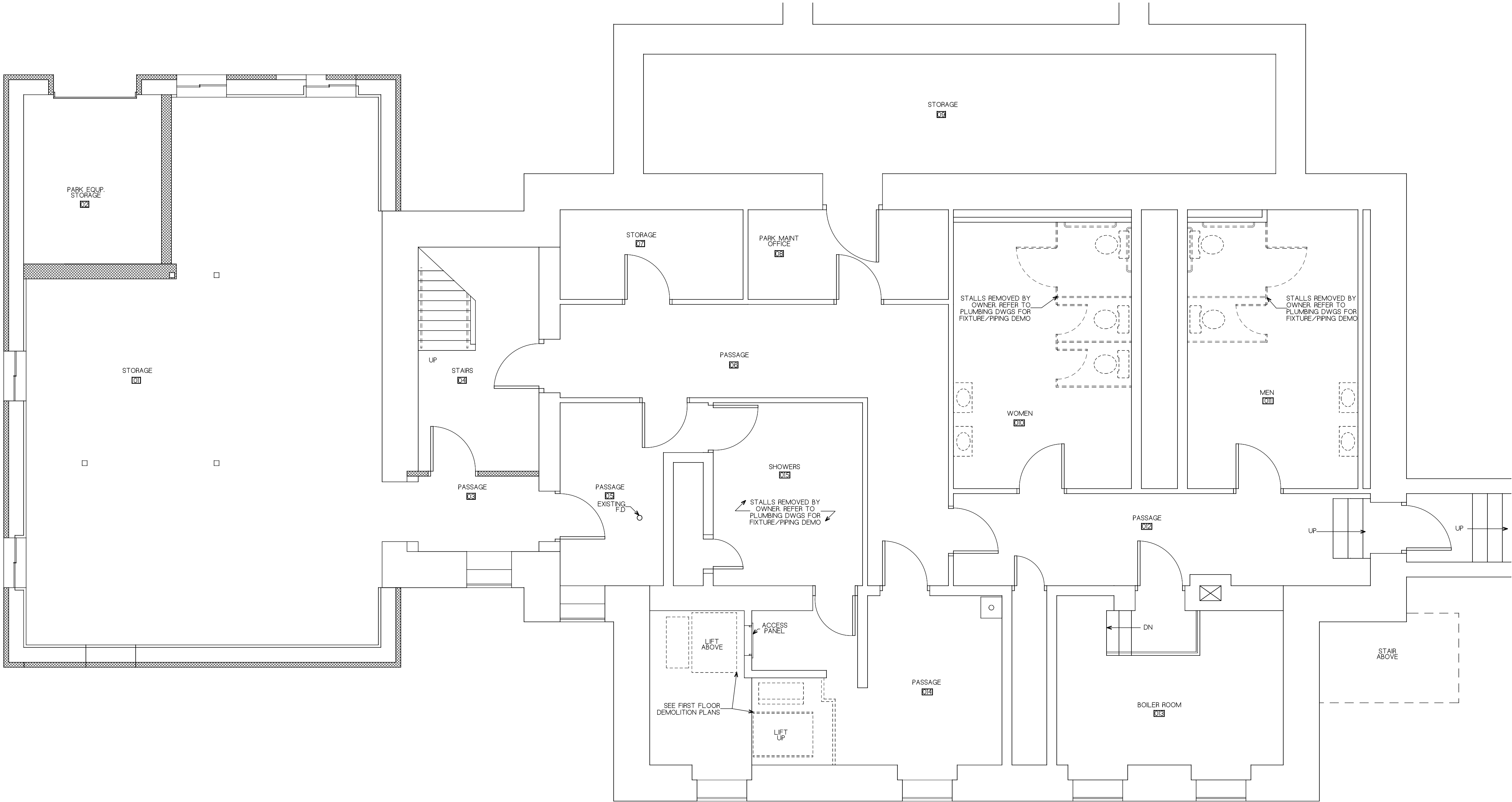
T1.0

SCALE

AS NOTED

DATE

MARCH 2022



1
A1.1 DEMOLITION BASEMENT FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES
1. GO TO VERIFY ALL DIMENSIONS IN THE FIELD.
2. PROVIDE BLOCKING AT ALL WALL-MOUNTED ITEMS.

KEY PLAN

DRAWING TITLE

DEMOLITION BASEMENT FLOOR PLAN

JOB NUMBER: 1422.2
JOB TITLE
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT

ARCHITECT

NAULT ARCHITECTS INC.
71 HOPE AVENUE TEL: (508) 755-6134
WORCESTER, MA 01603 FAX: (508) 754-4661

DRAWING NO.

A1.1

SCALE
AS NOTED

DATE
MARCH 2022

GENERAL NOTES
1. GO TO VERIFY ALL DIMENSIONS IN THE FIELD.
2. PROVIDE BLOCKING AT ALL WALL-MOUNTED ITEMS.

KEY PLAN

DRAWING TITLE

NEW BASEMENT FLOOR PLAN

JOB NUMBER: 1422.2
JOB TITLE
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT

ARCHITECT

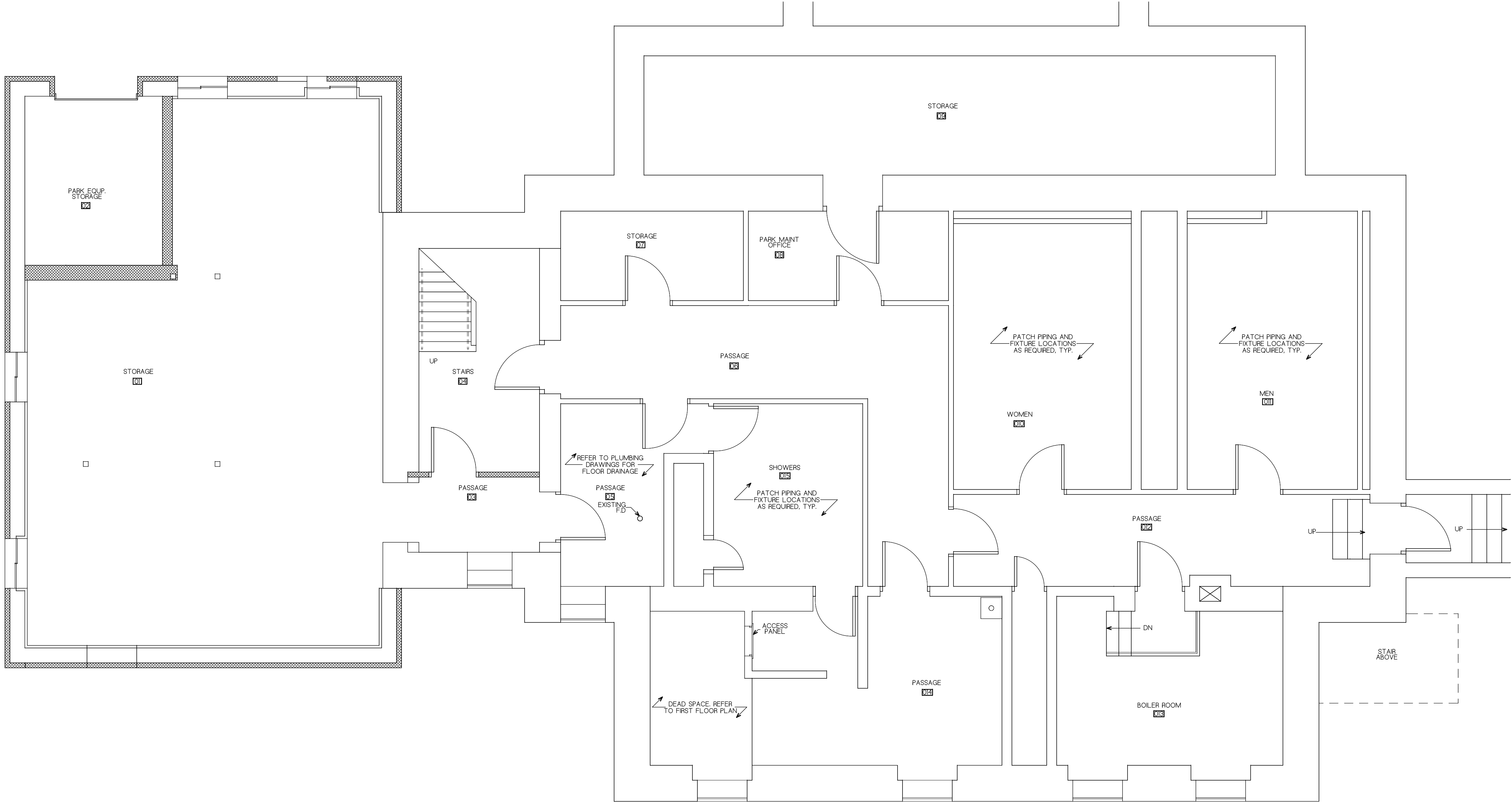
NAULT ARCHITECTS INC.
71 HOPE AVENUE TEL: (508) 755-6134
WORCESTER, MA 01603 FAX: (508) 754-4661

DRAWING NO.

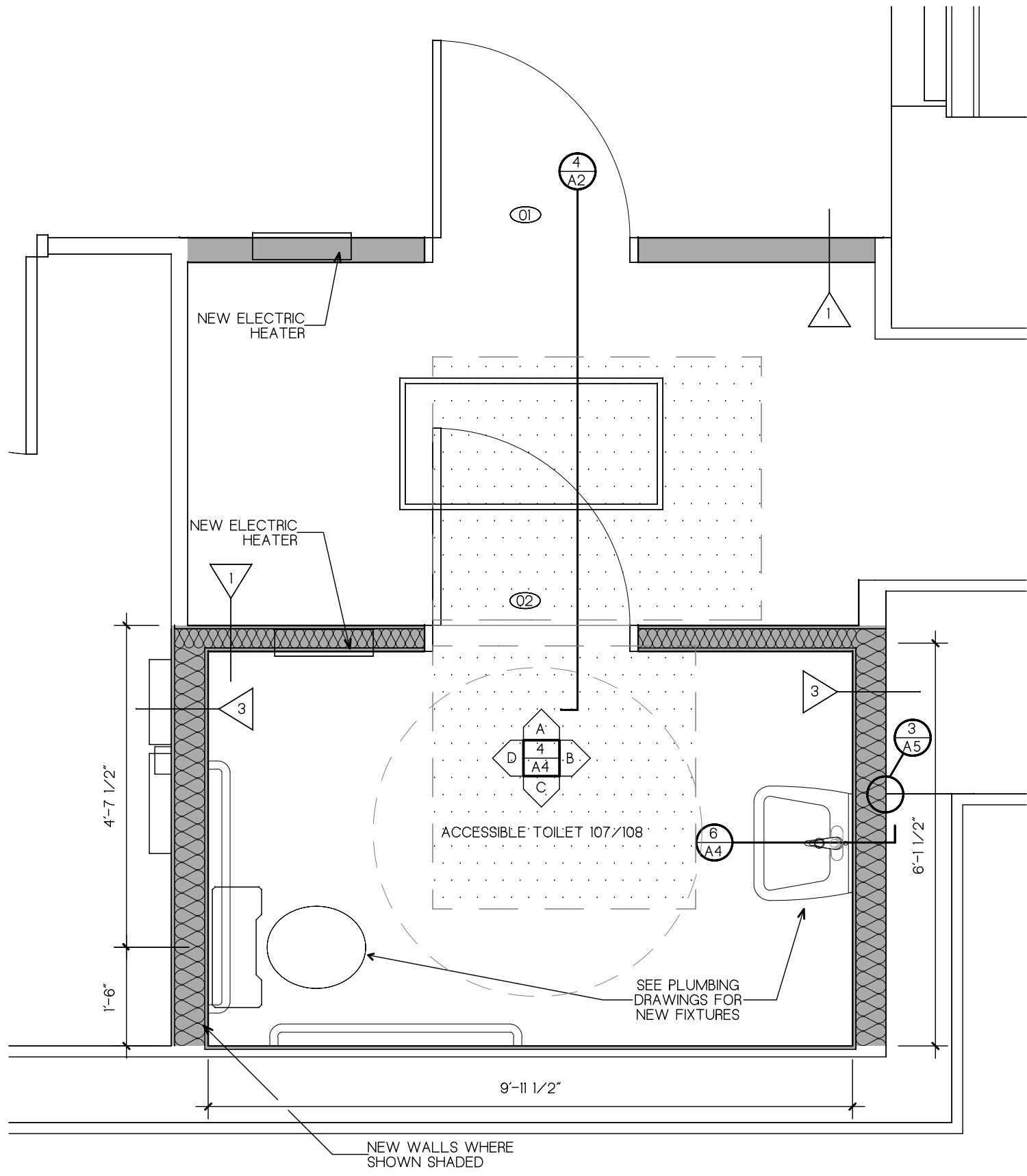
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SCALE
AS NOTED

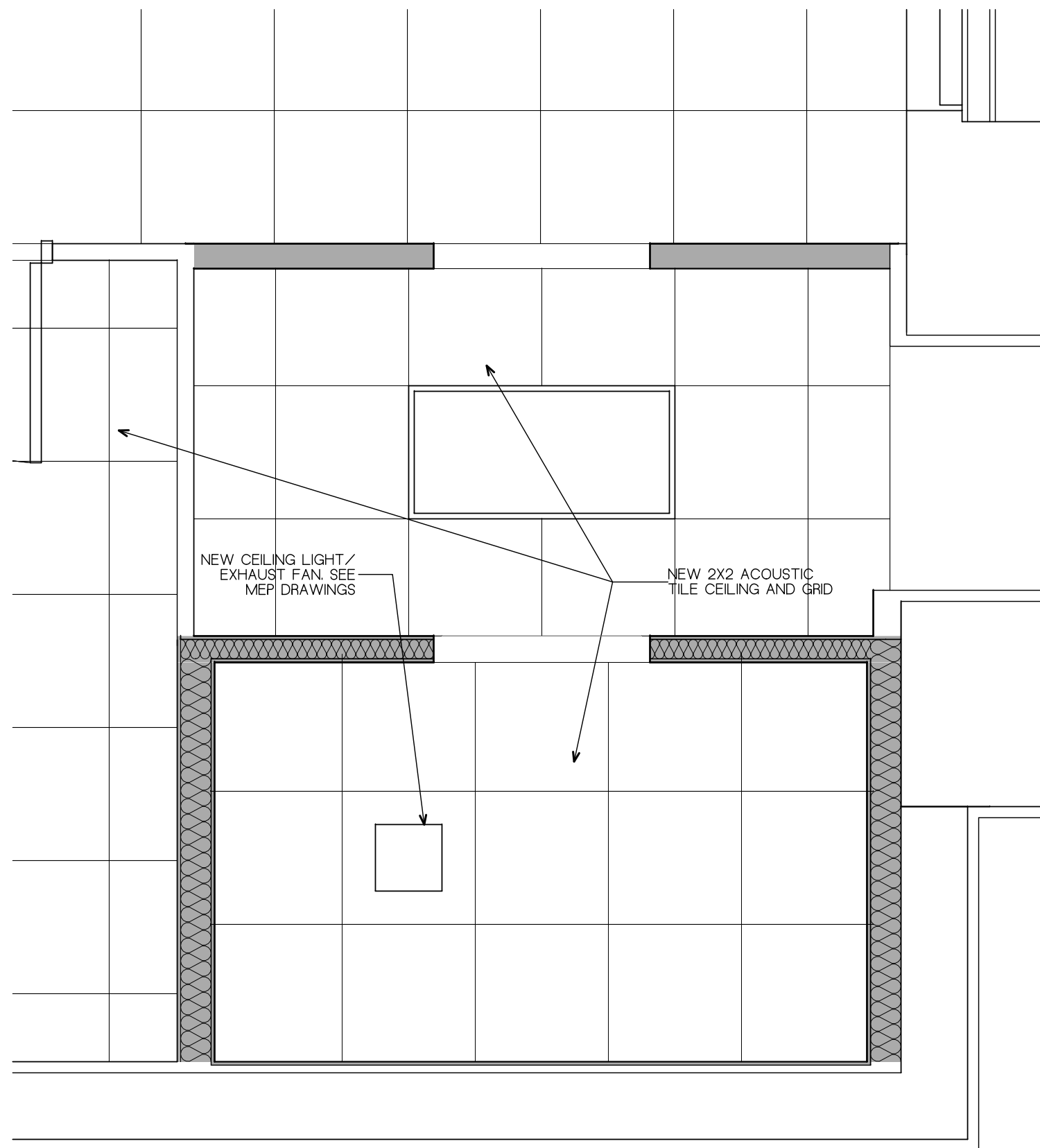
DATE
MARCH 2022



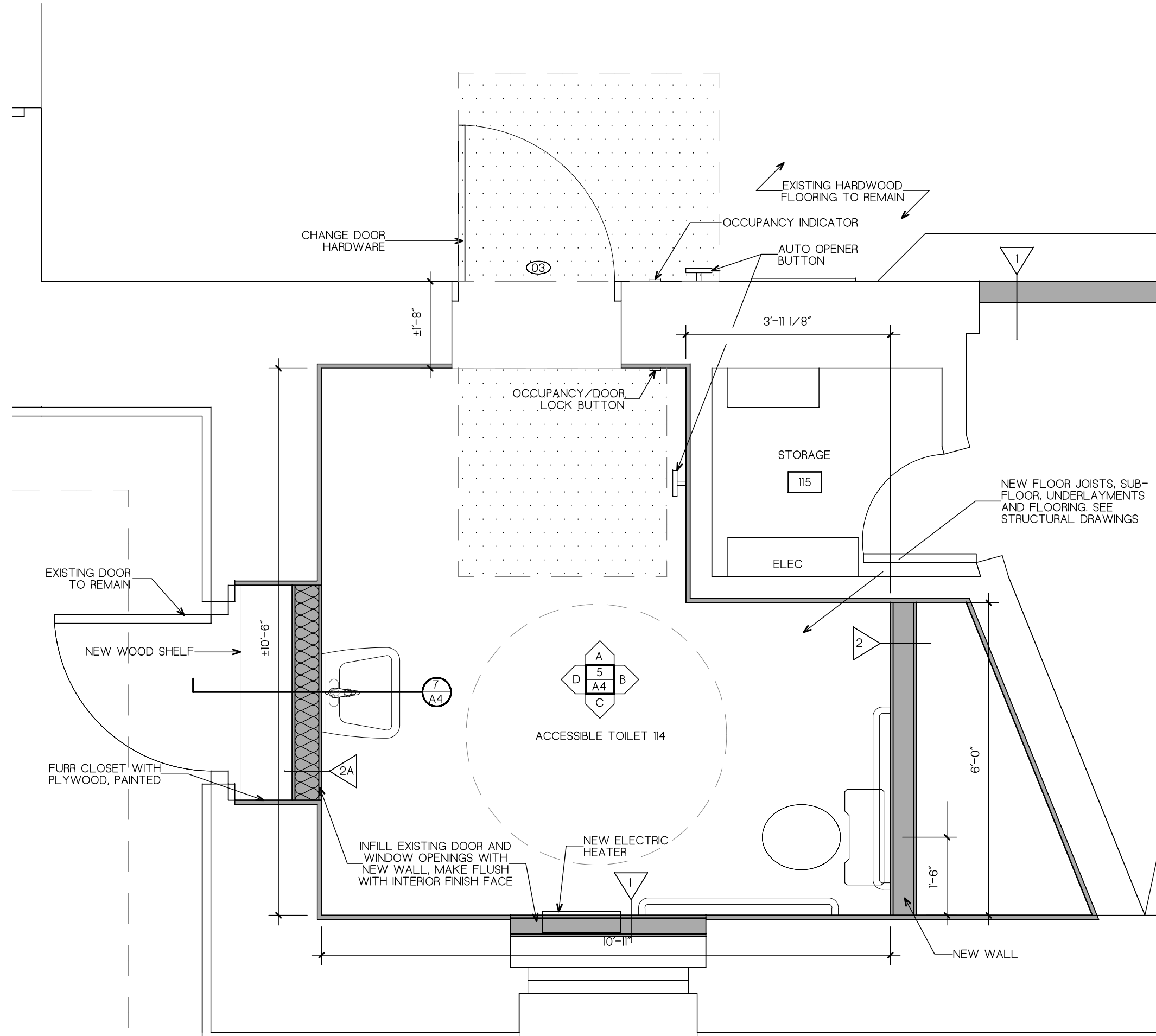
1 NEW BASEMENT FLOOR PLAN
A2.1 1/4" = 1'-0"



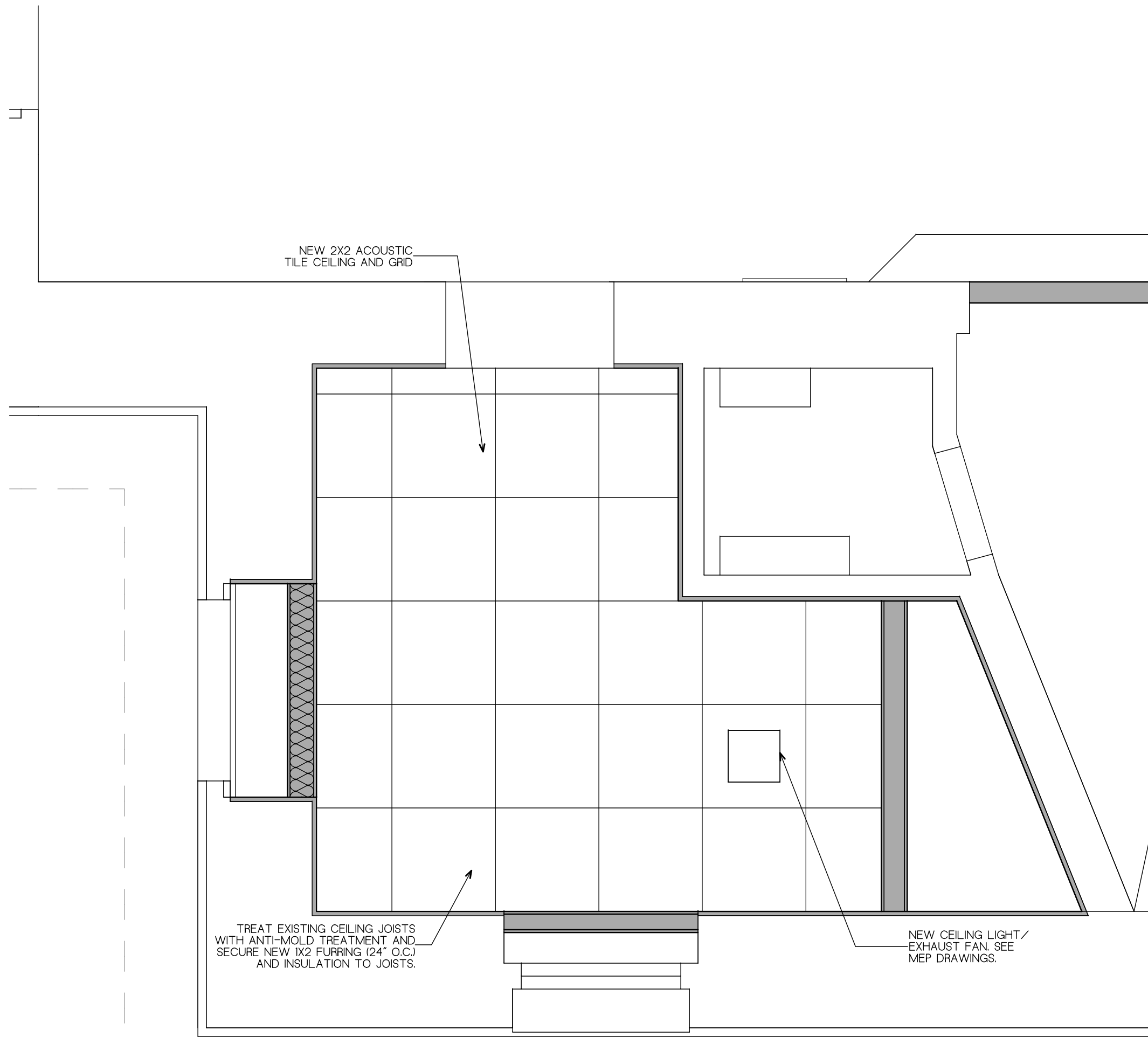
1 ACCESSIBLE TOILET 108/109
A3 1/2" = 1'-0"



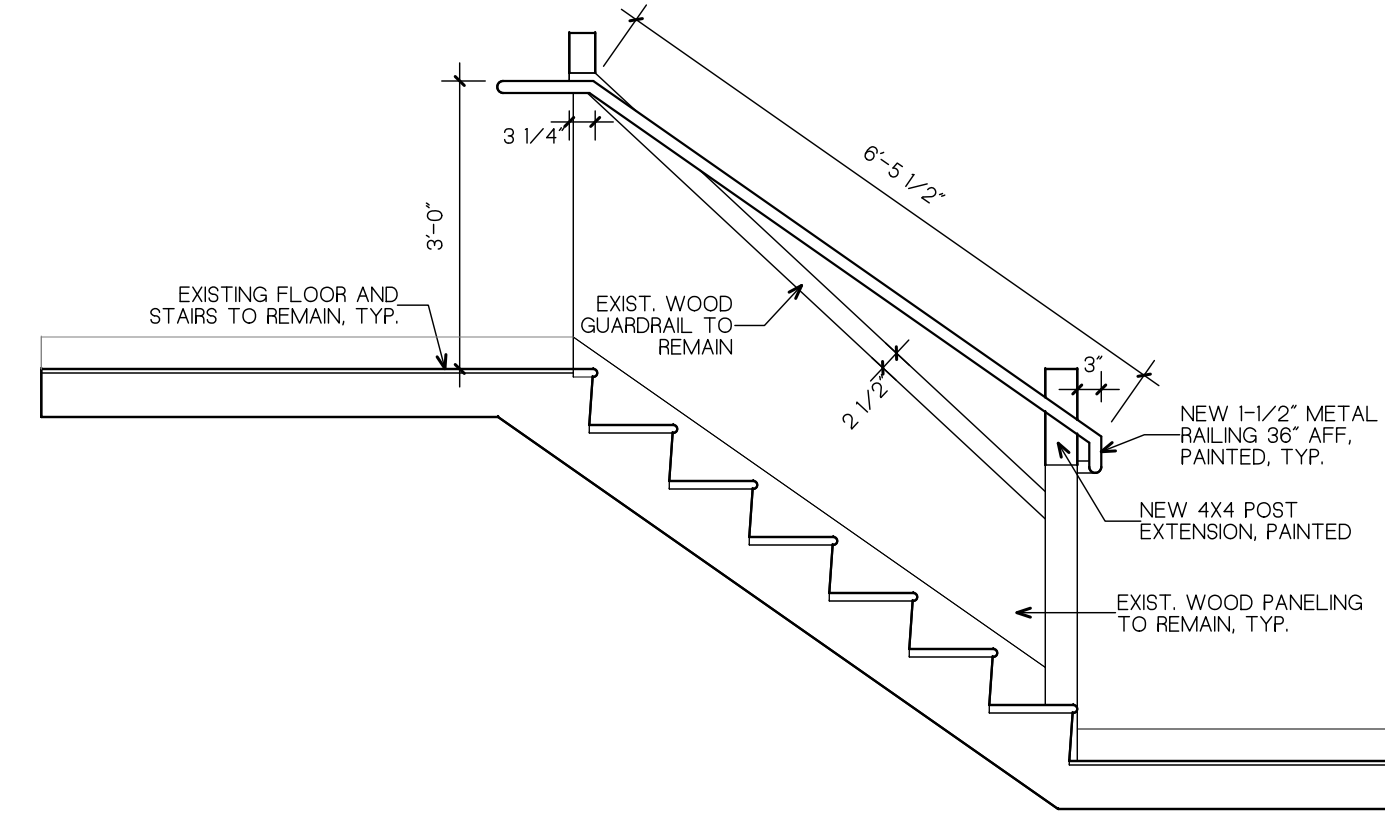
3 ACCESSIBLE TOILET 108/109 RCP
A3 1/2" = 1'-0"



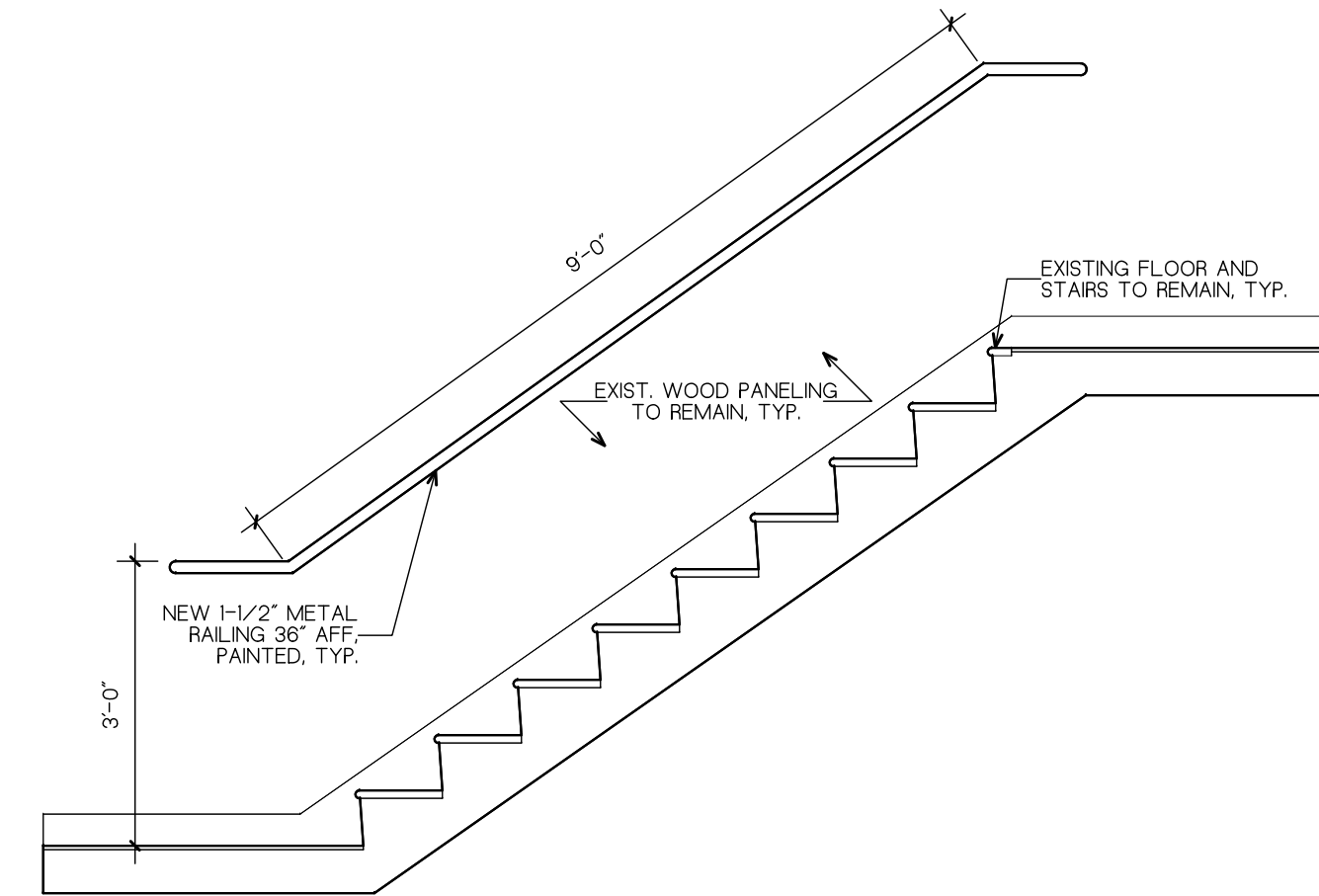
2 ACCESSIBLE TOILET 114
A3 1/2" = 1'-0"



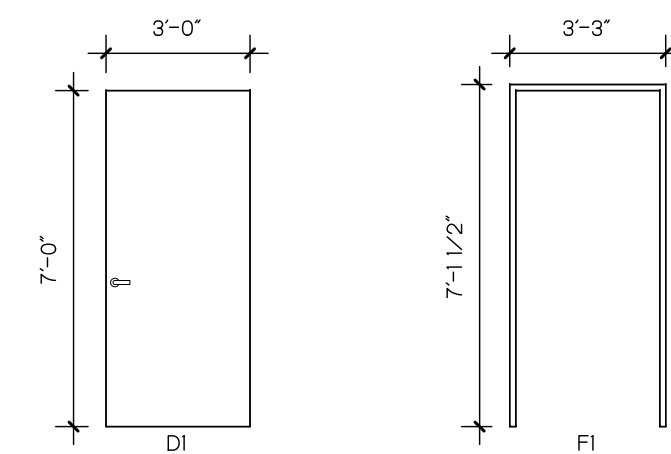
4 ACCESSIBLE TOILET 114 RCP
A3 1/2" = 1'-0"



5 STAIR SECTION 1
A3 1/2" = 1'-0"

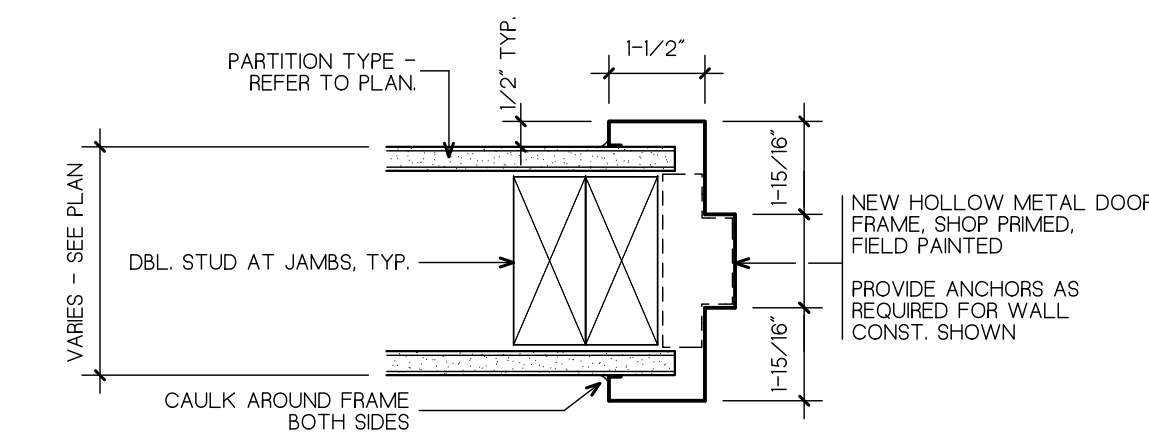


6 STAIR SECTION 2
A3 1/2" = 1'-0"



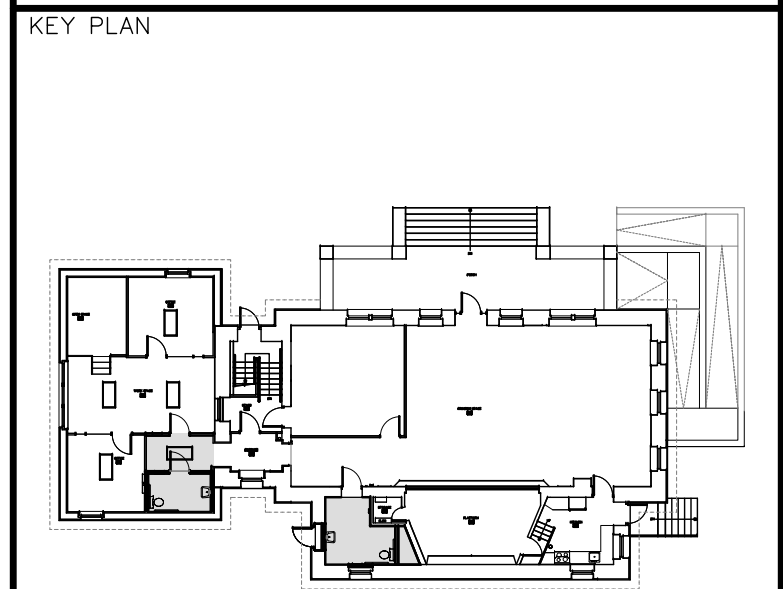
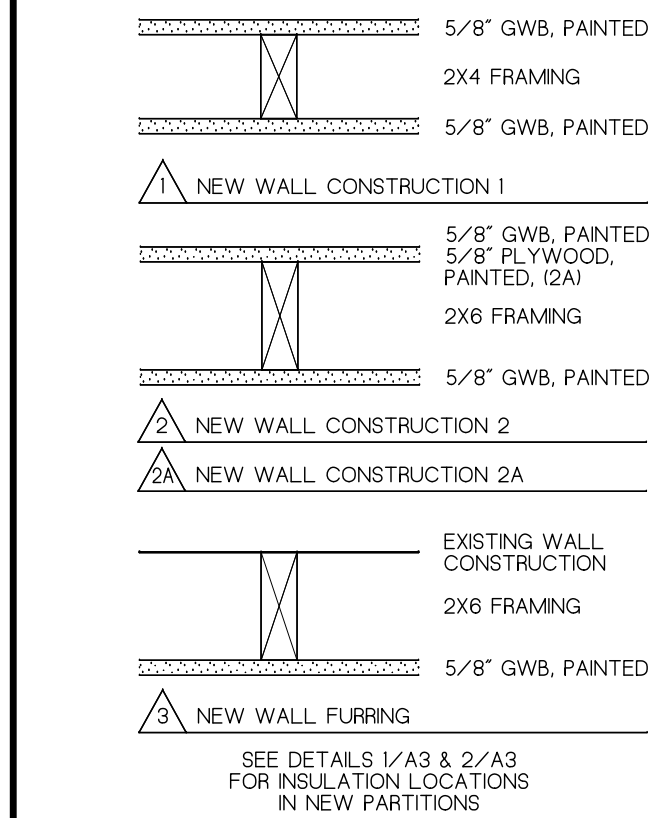
DOOR SCHEDULE											
DOOR NUMBER	DOOR				FRAME			HWDR SET	DOOR RATING	REMARKS	DOOR NUMBER
	TYPE	MAT.	SIZE	FIN.	TYPE	MAT.	FIN.				
01	D1	WOOD	3'-0" X 7'-0"	STD	-	FI	HM	PTD	1	-	01
02	D1	WOOD	3'-0" X 7'-0"	STD	-	FI	HM	PTD	2	-	02
03	EXIST.	WOOD	3'-0" X 6'-8"	STD	-	EXIST.	HM	PTD	3	-	03
04	EXIST.	HM	3'-0" X 6'-8"	PTD	-	EXIST.	HM	PTD	1	-	04

7 DOOR TYPES AND SCHEDULE
A3 1/4" = 1'-0"



8 NEW DOOR FRAME
A3 3" = 1'-0"

GENERAL NOTES
1. GO TO VERIFY ALL DIMENSIONS IN THE FIELD.
2. PROVIDE BLOCKING AT ALL WALL-MOUNTED ITEMS.



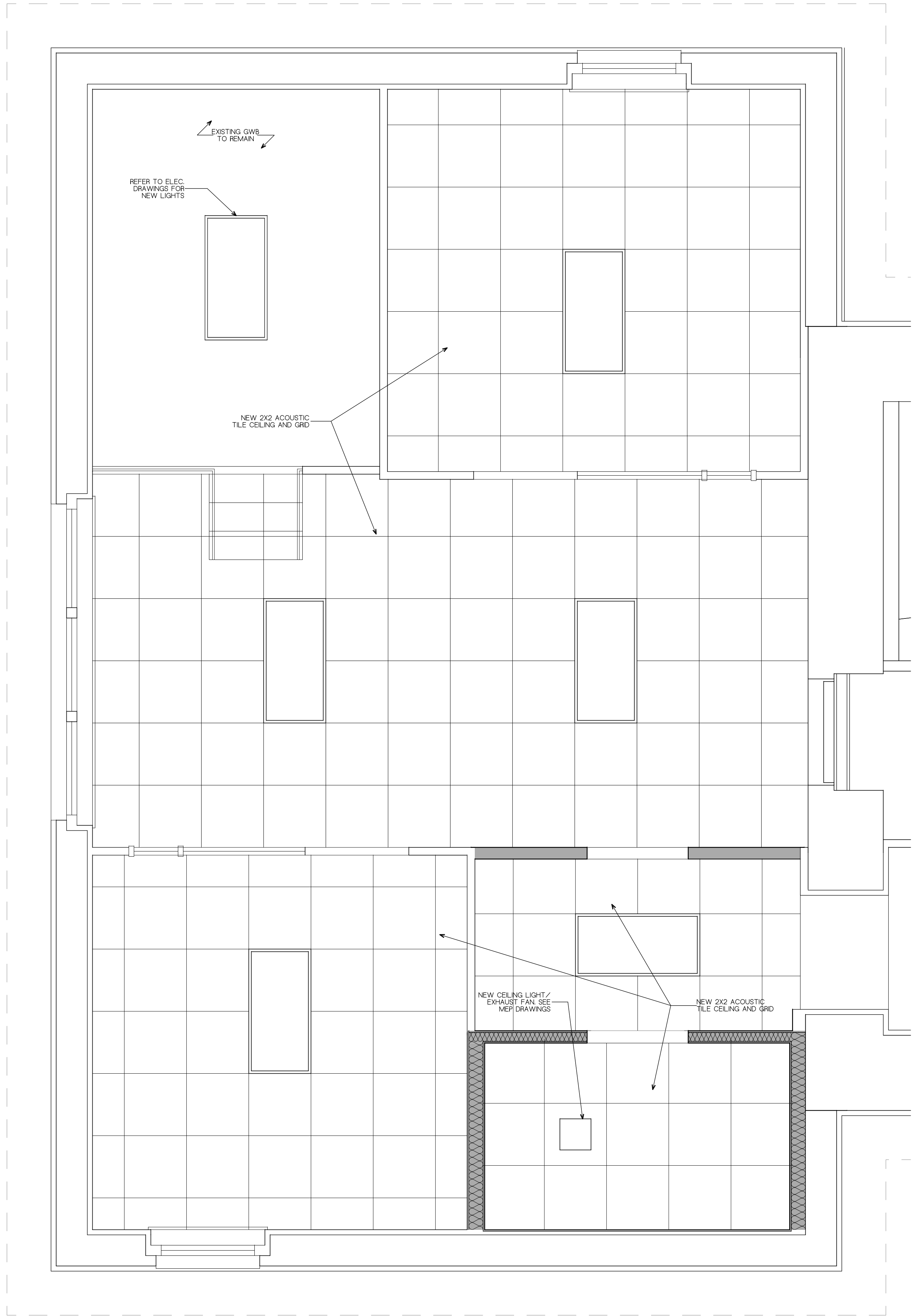
DRAWING TITLE
WORK AREA PLANS AND DETAILS

JOB NUMBER: 1422.2
JOB TITLE
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

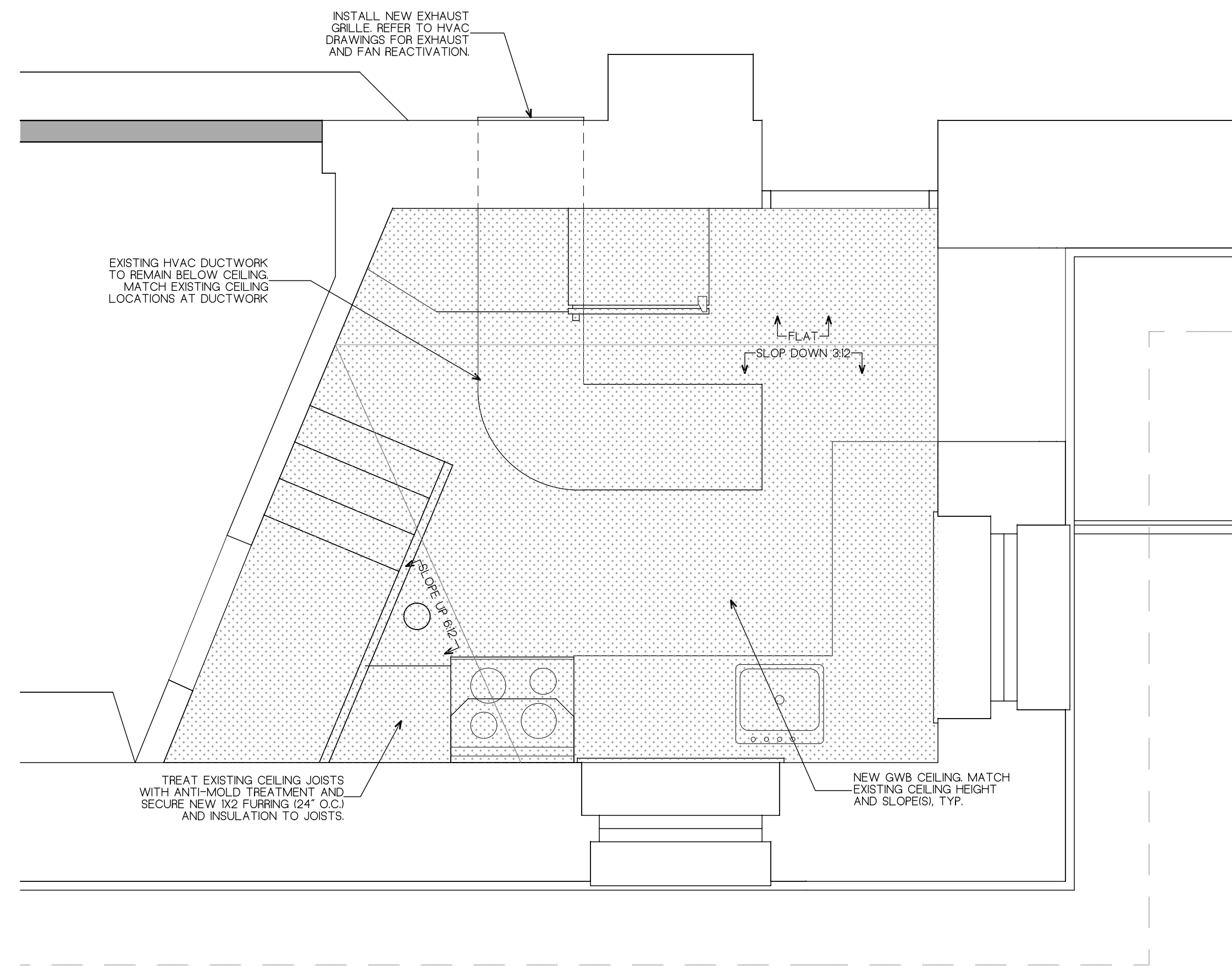
CONSULTANT

ARCHITECT
NAULT ARCHITECTS, INC.
71 HOPE AVENUE
WORCESTER, MA 01603
TEL: (508) 755-6134
FAX: (508) 754-4661

DRAWING NO.
A3.0
SCALE
AS NOTED
DATE
MARCH 2022



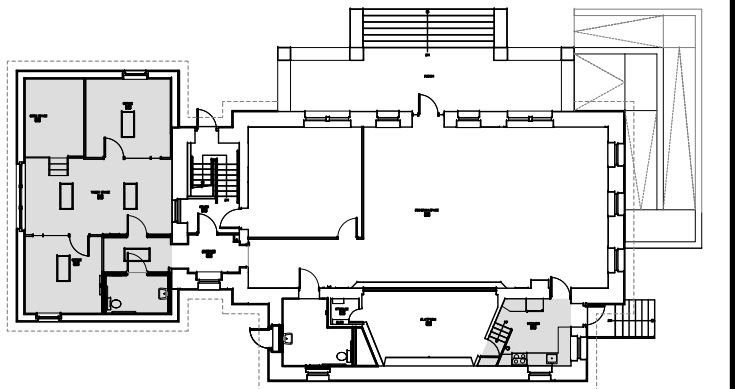
1 OFFICES NEW RCP
1/2" = 1'-0"



2 KITCHEN NEW RCP
1/2" = 1'-0"

GENERAL NOTES
1. GO TO VERIFY ALL DIMENSIONS IN THE FIELD.
2. PROVIDE BLOCKING AT ALL WALL-MOUNTED ITEMS.

KEY PLAN



DRAWING TITLE

NEW OFFICE AND KITCHEN RCP

JOB NUMBER: 1422.2
JOB TITLE

INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT

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71 HOPE AVENUE TEL: (508) 755-6134
WORCESTER, MA 01603 FAX: (508) 754-4661

DRAWING NO.

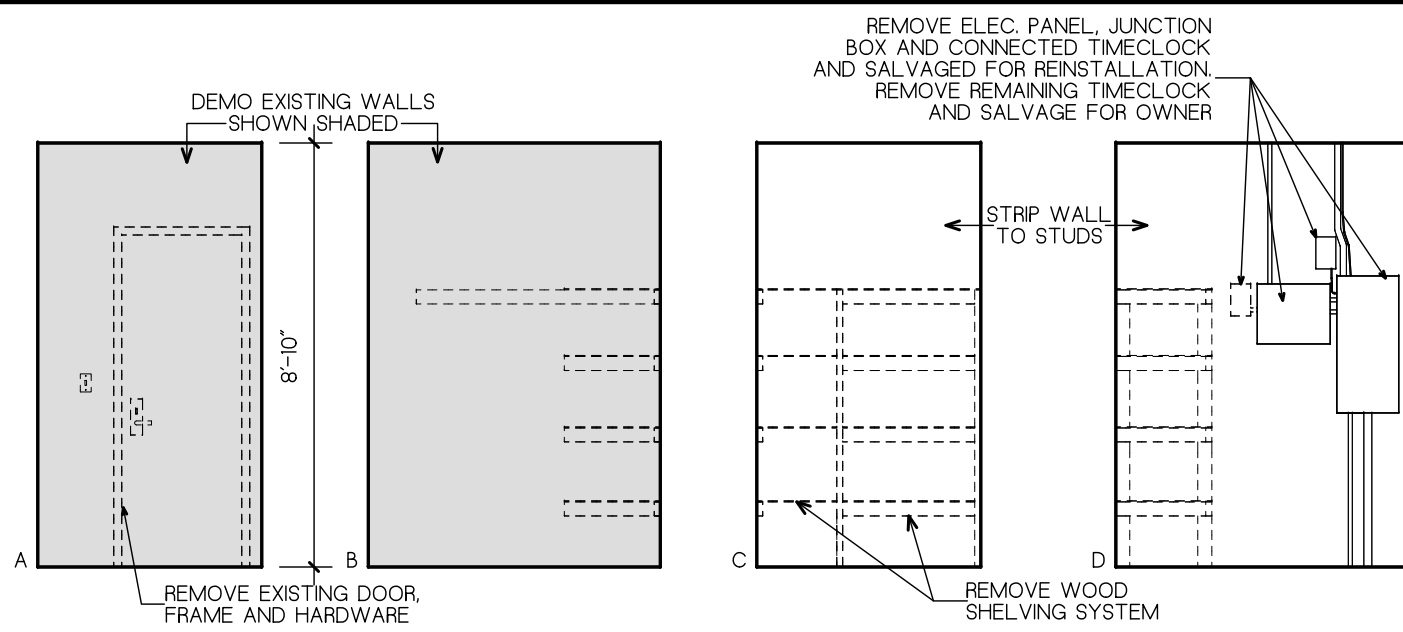
A3.1

SCALE

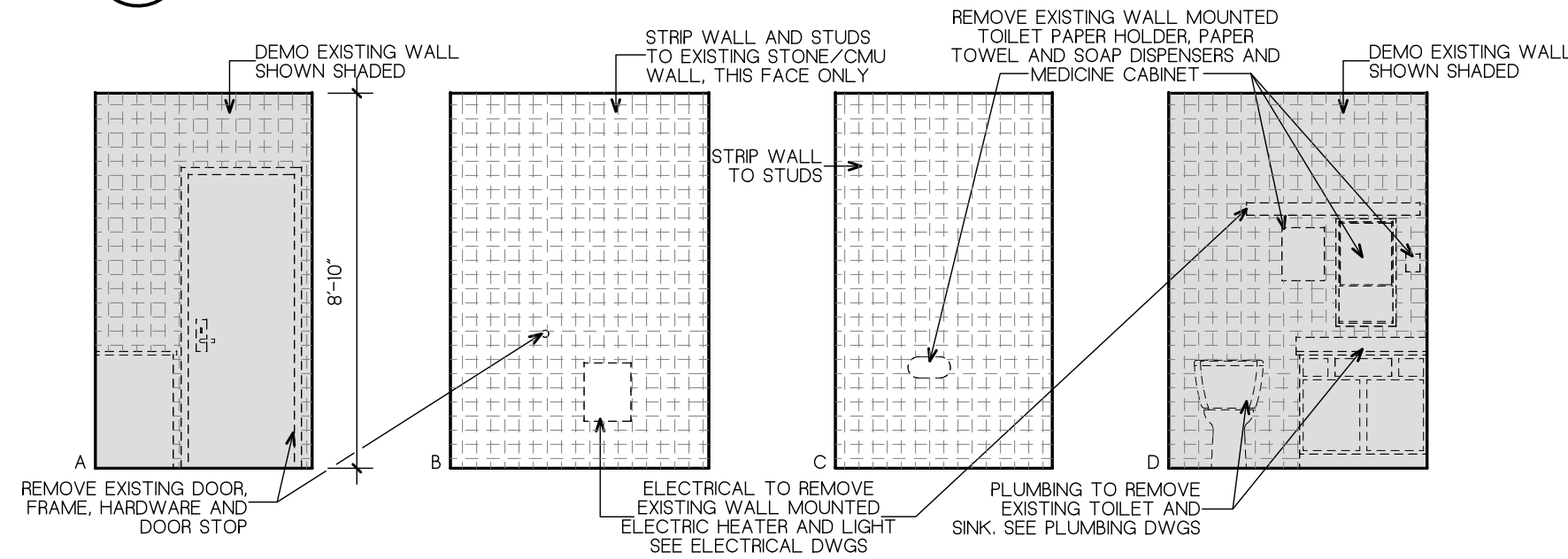
AS NOTED

DATE

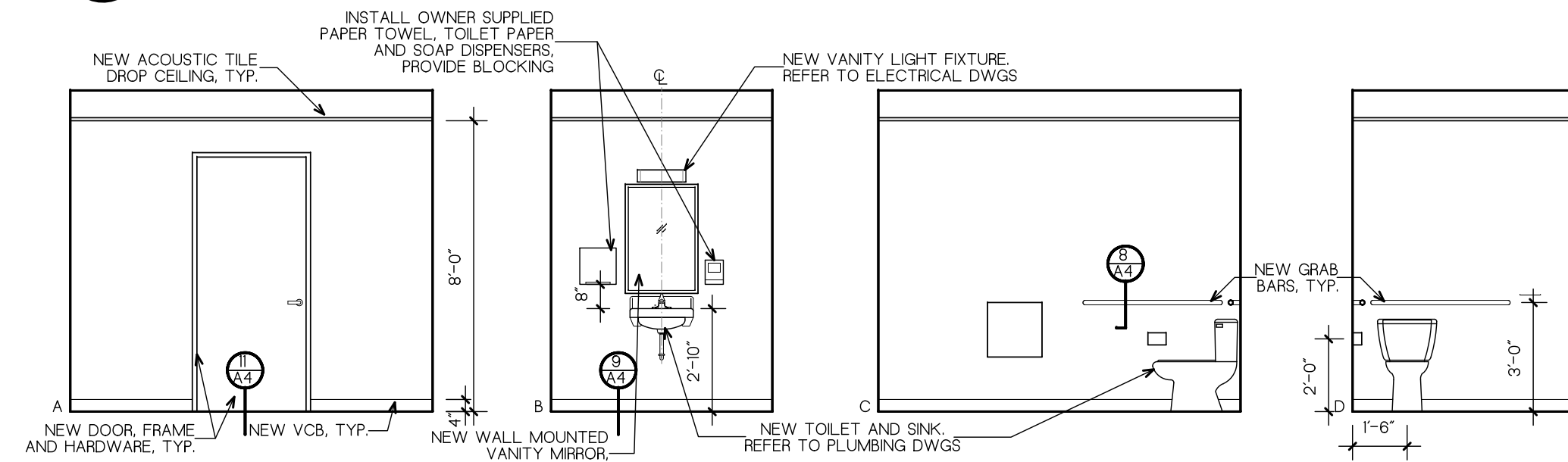
MARCH 2022



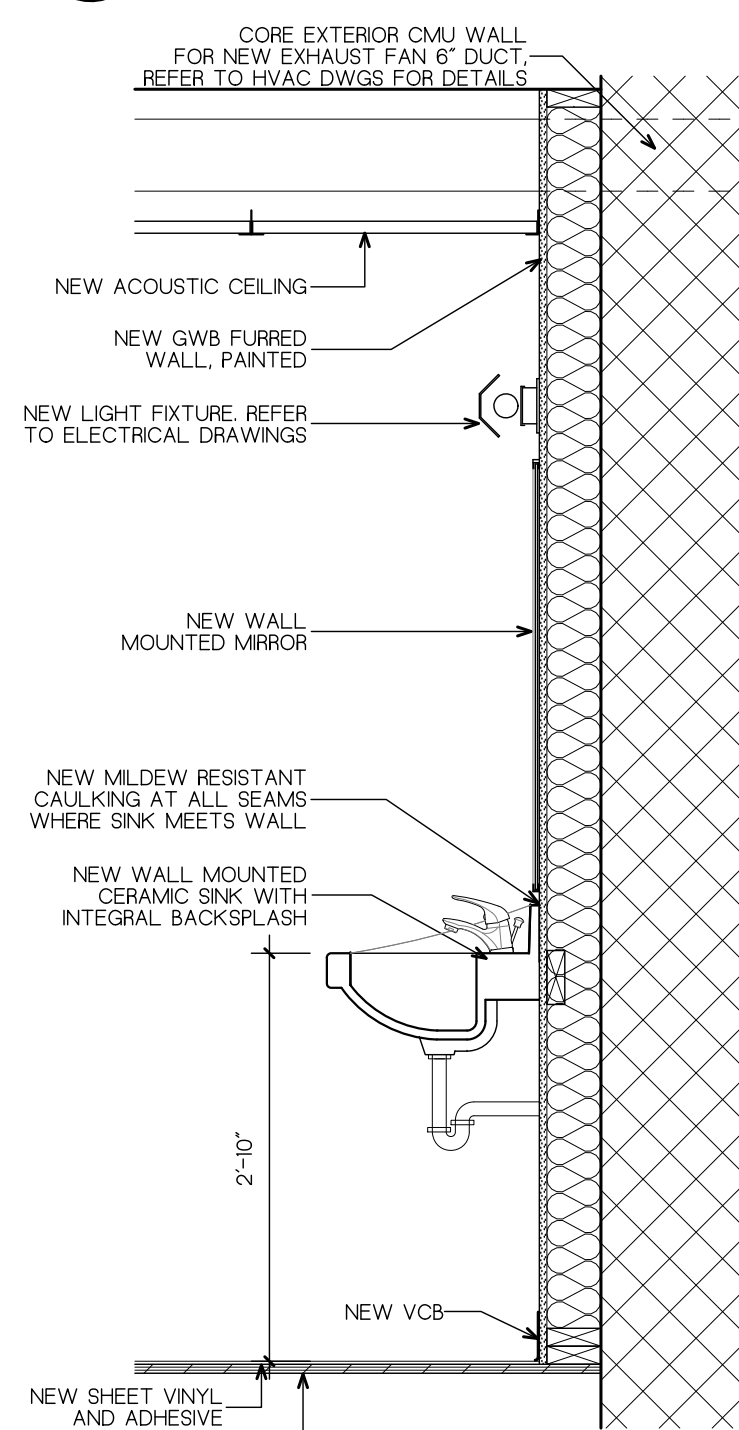
1 STORAGE ROOM DEMOLITION ELEVATIONS
A4 1/4" = 1'-0"



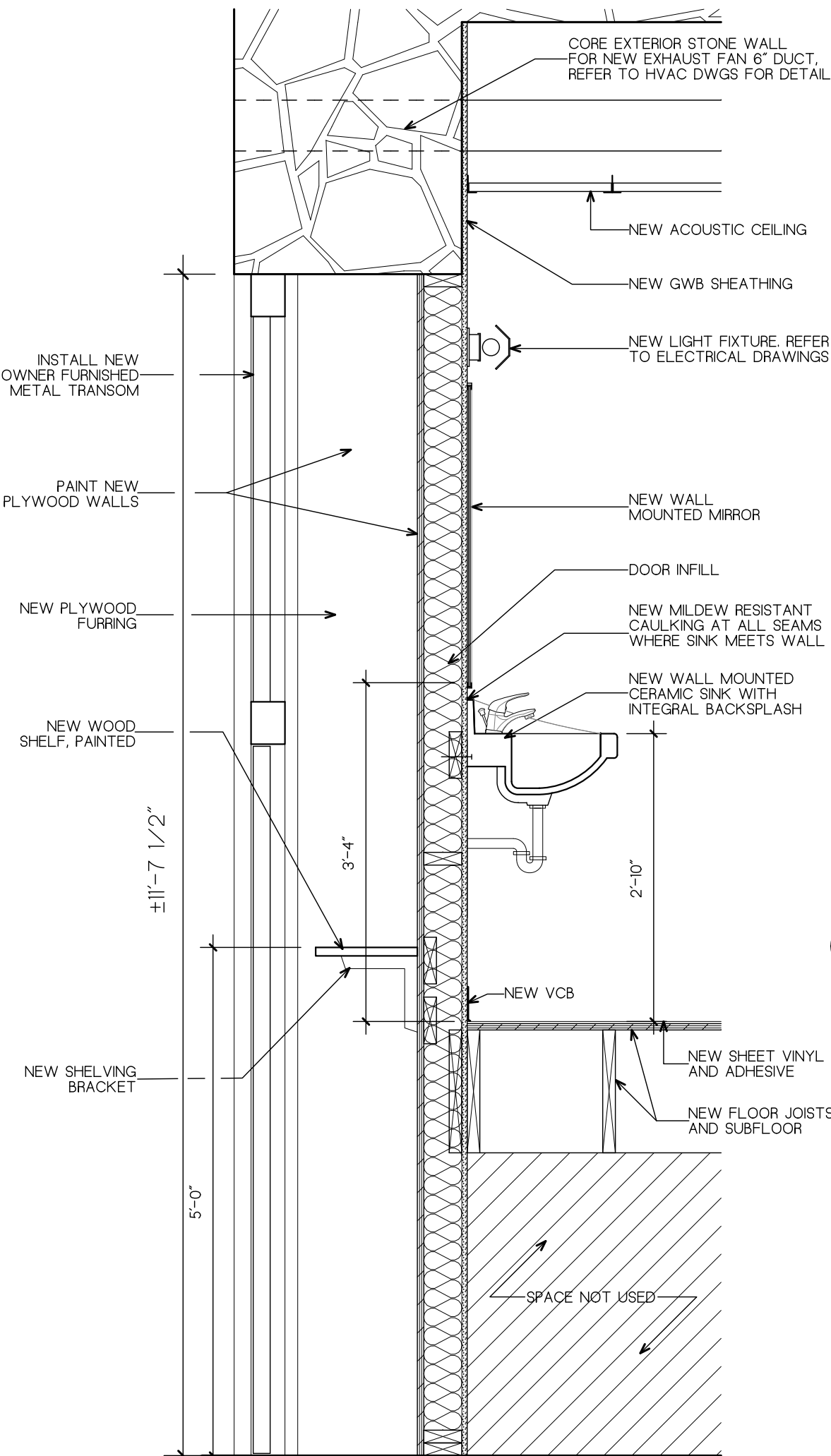
2 STAFF BATHROOM DEMOLITION ELEVATIONS
A4 1/4" = 1'-0"



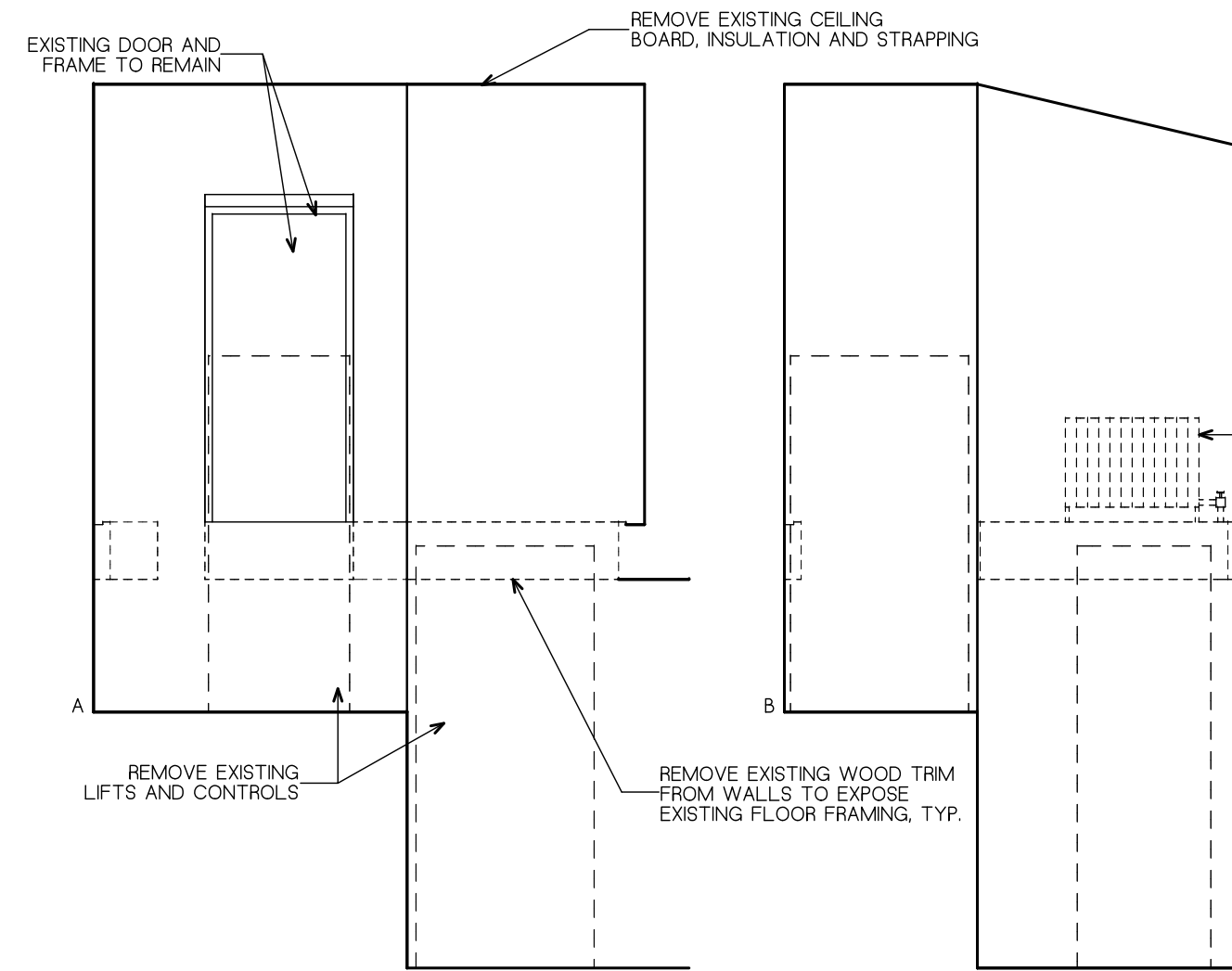
4 ACCESSIBLE TOILET 107/108 ELEVATIONS
A4 1/4" = 1'-0"



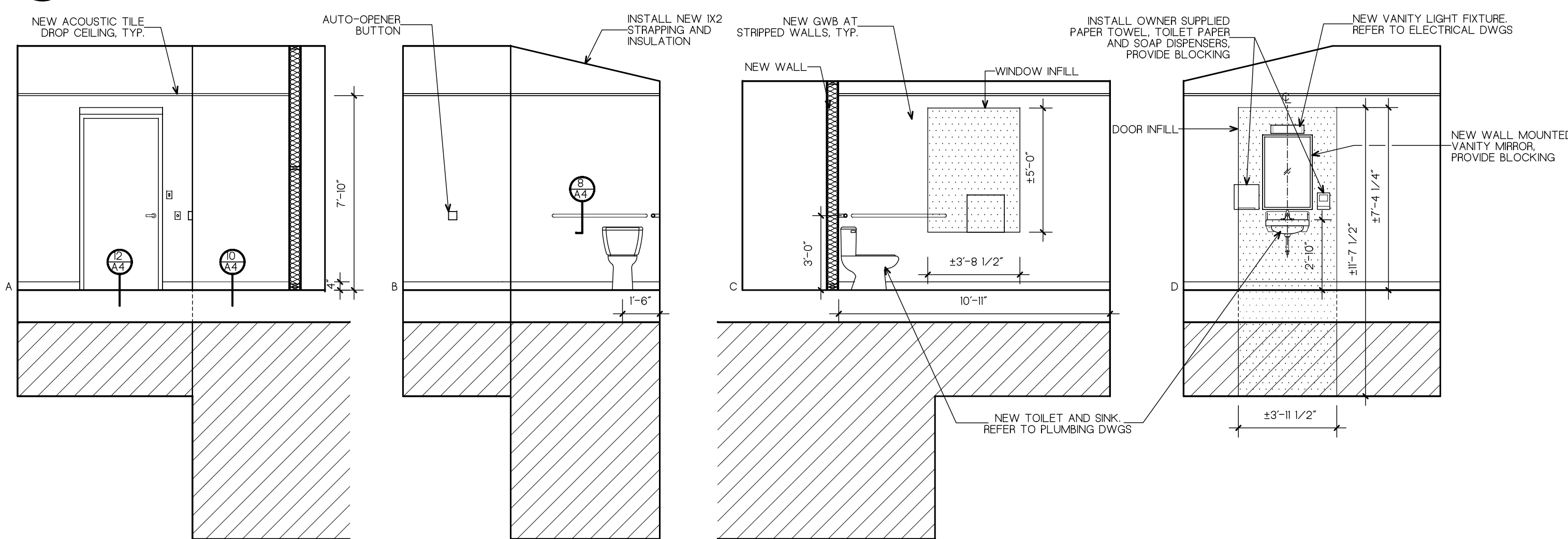
6 ACCESSIBLE TOILET 107/108 SINK SECTION
A4 3/4" = 1'-0"



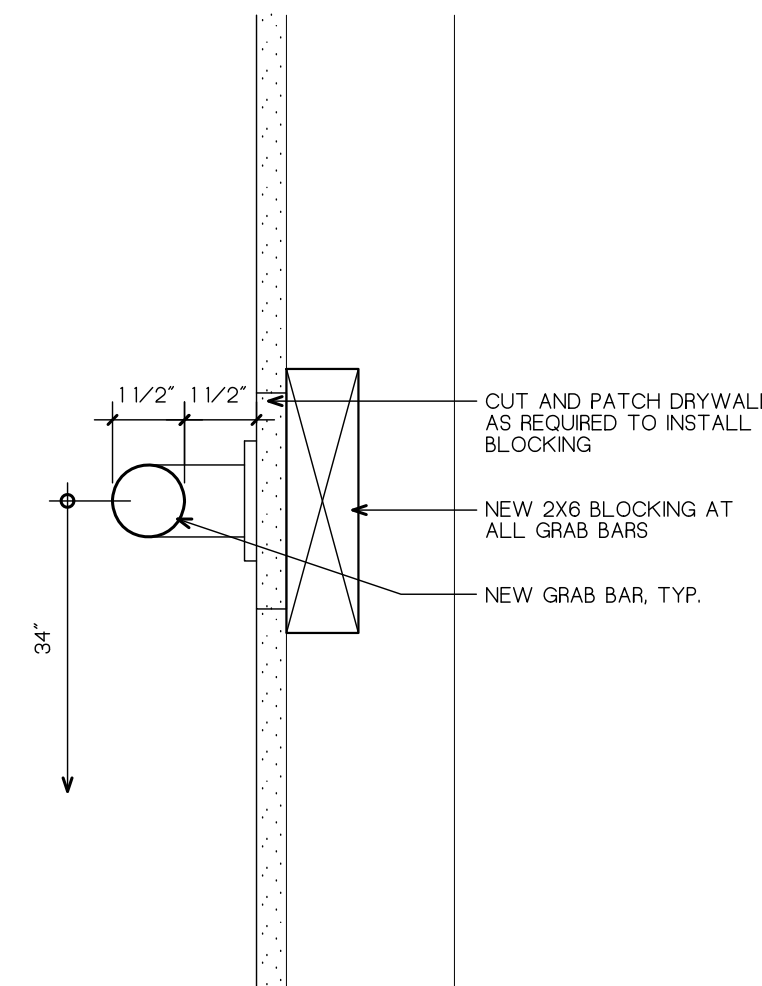
7 ACCESSIBLE TOILET 114 SINK SECTION
A4 3/4" = 1'-0"



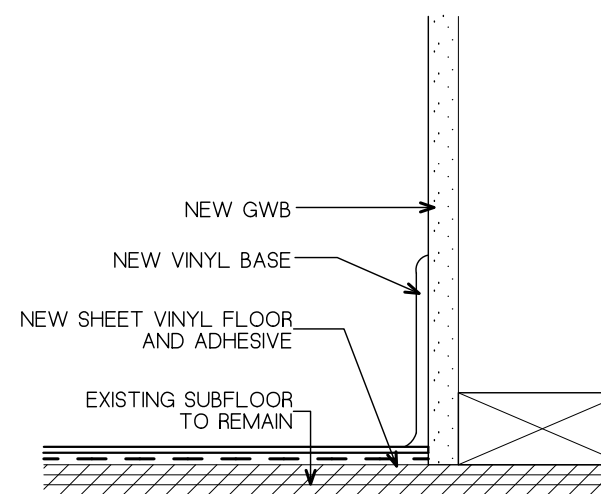
3 LIFT DEMOLITION ELEVATIONS
A4 1/4" = 1'-0"



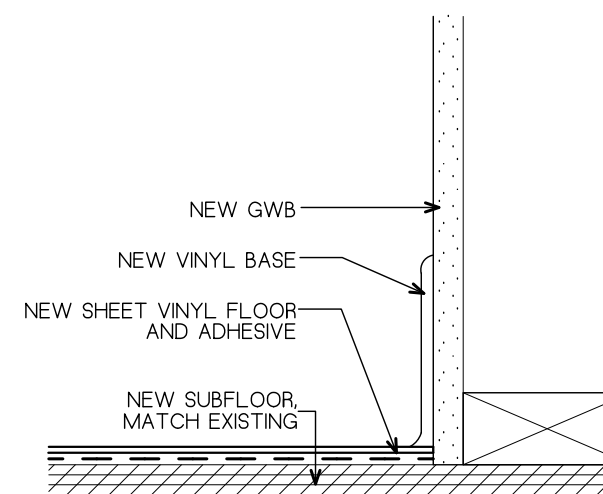
5 ACCESSIBLE TOILET 114 NEW ELEVATIONS
A4 1/4" = 1'-0"



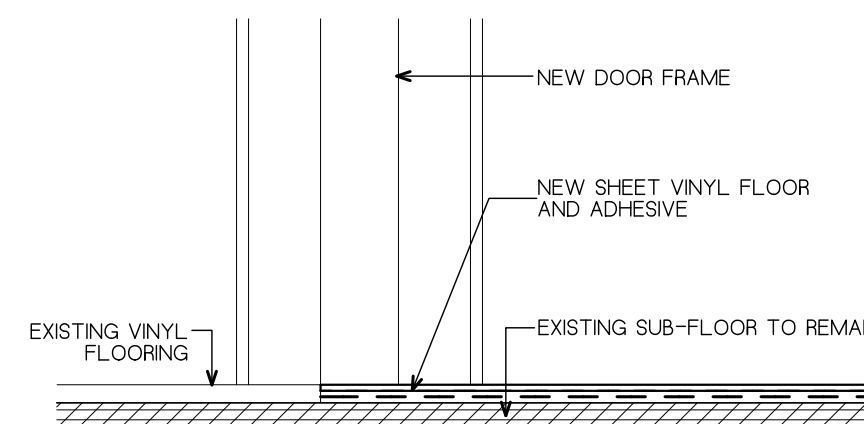
8 GRAB BAR MOUNTING DETAIL
A4 3" = 1'-0"



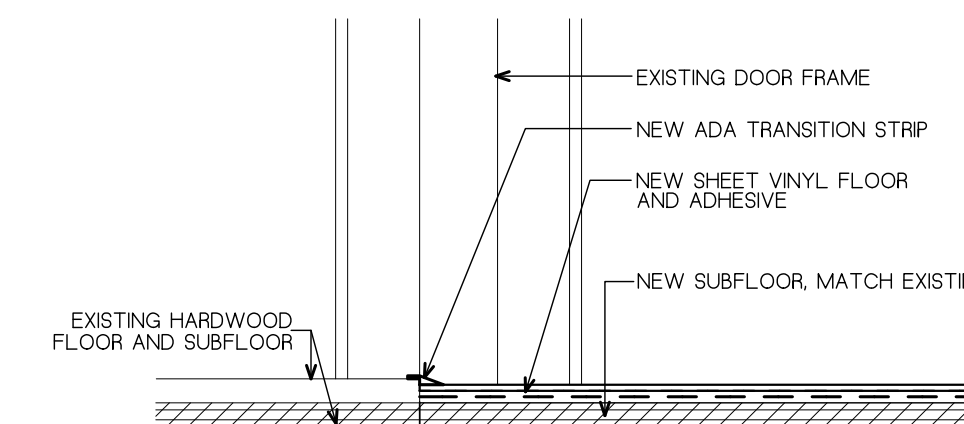
9 ACCESSIBLE TOILET 107/108 FLOORING
A4 3" = 1'-0"



10 ACCESSIBLE TOILET 114 FLOORING
A4 3" = 1'-0"



11 ACCESSIBLE TOILET 107/108 FLOORING TRANSITION
A4 3" = 1'-0"



12 ACCESSIBLE TOILET 114 FLOORING TRANSITION
A4 3" = 1'-0"

GENERAL NOTES
1. GO TO VERIFY ALL DIMENSIONS IN THE FIELD.
2. PROVIDE BLOCKING AT ALL WALL-MOUNTED ITEMS.

KEY PLAN

DRAWING TITLE

ELEVATIONS AND DETAILS

JOB NUMBER: 1422.2
JOB TITLE
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT

ARCHITECT

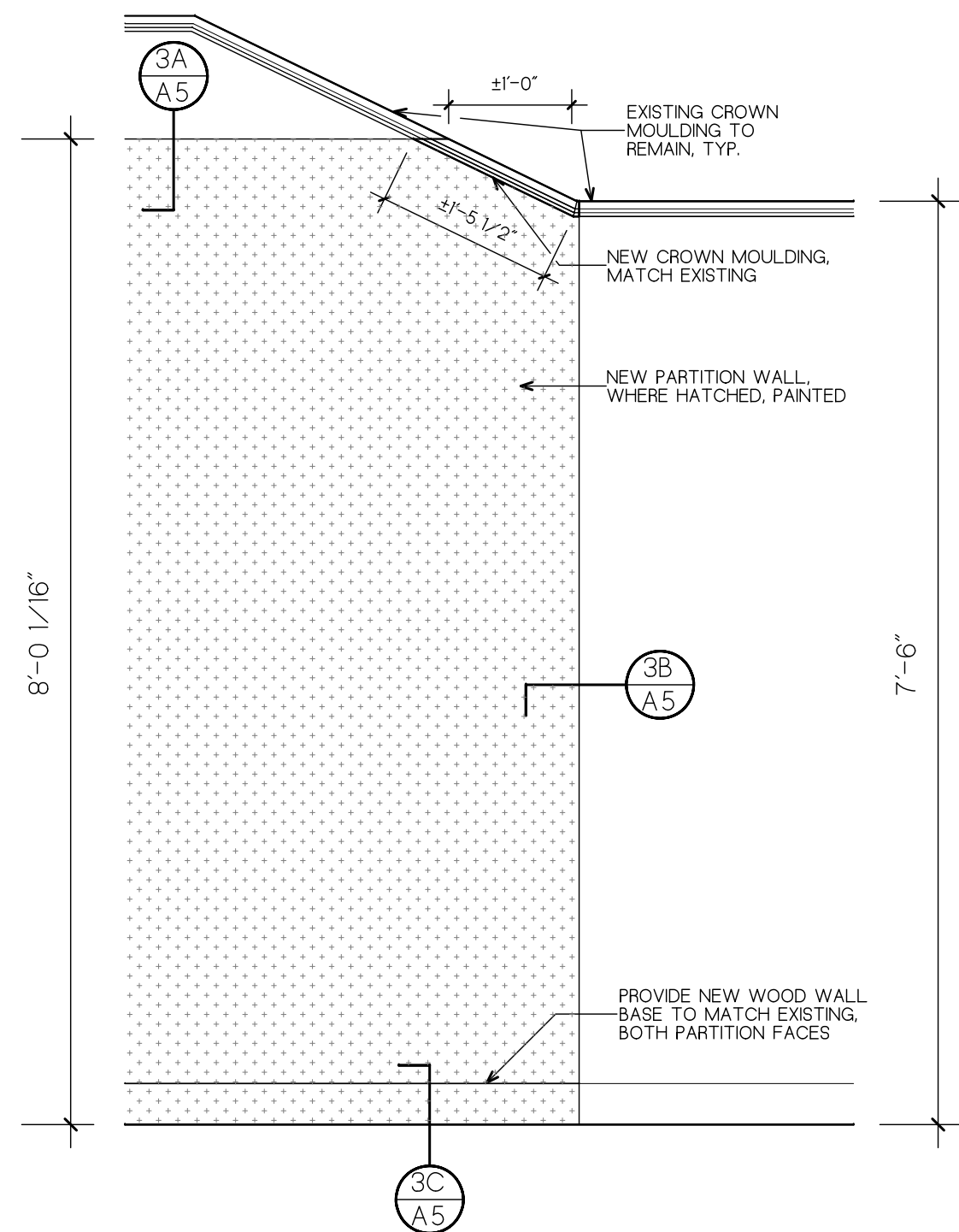
NAULT ARCHITECTS INC.
71 HOPE AVENUE TEL: (508) 755-6134
WORCESTER, MA 01603 FAX: (508) 754-4661

DRAWING NO.

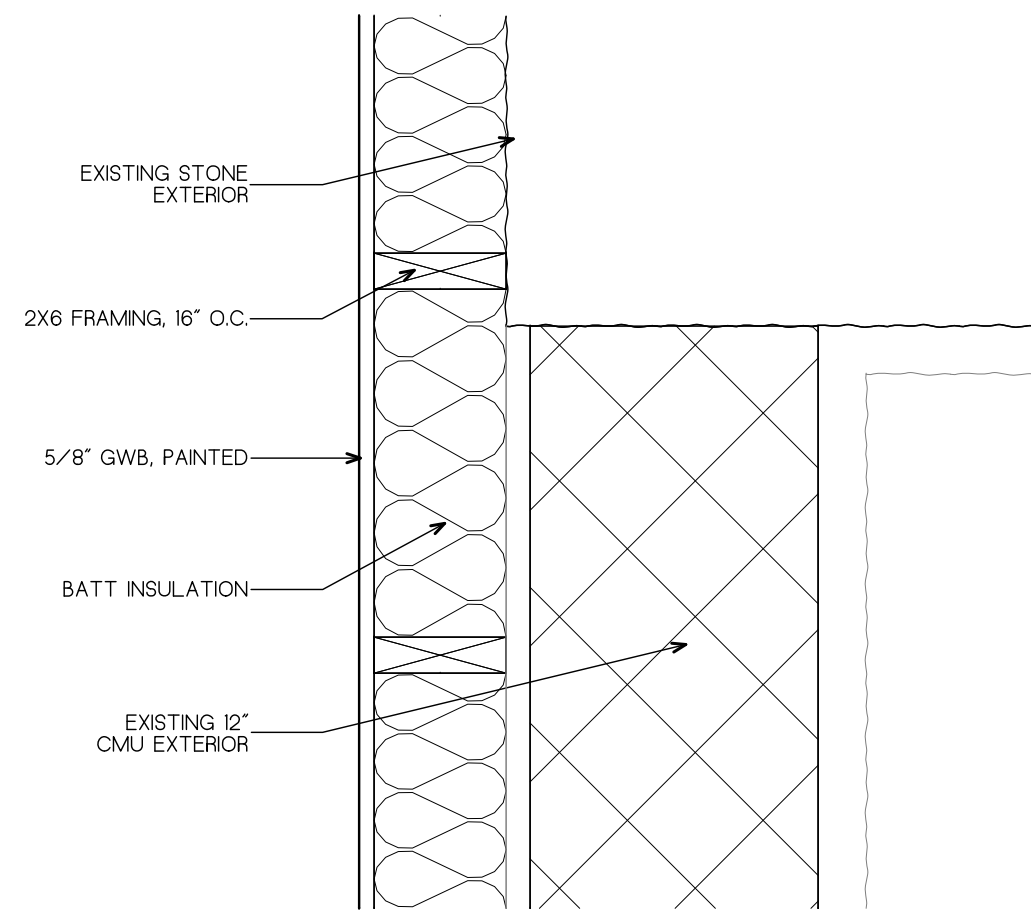
A4.0

SCALE
AS NOTED

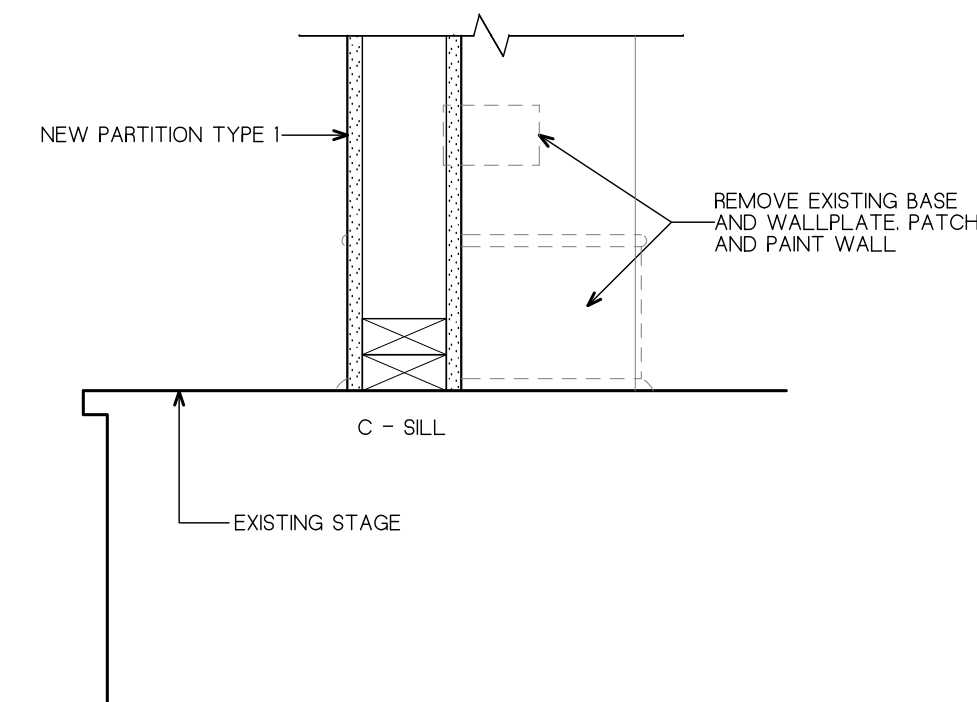
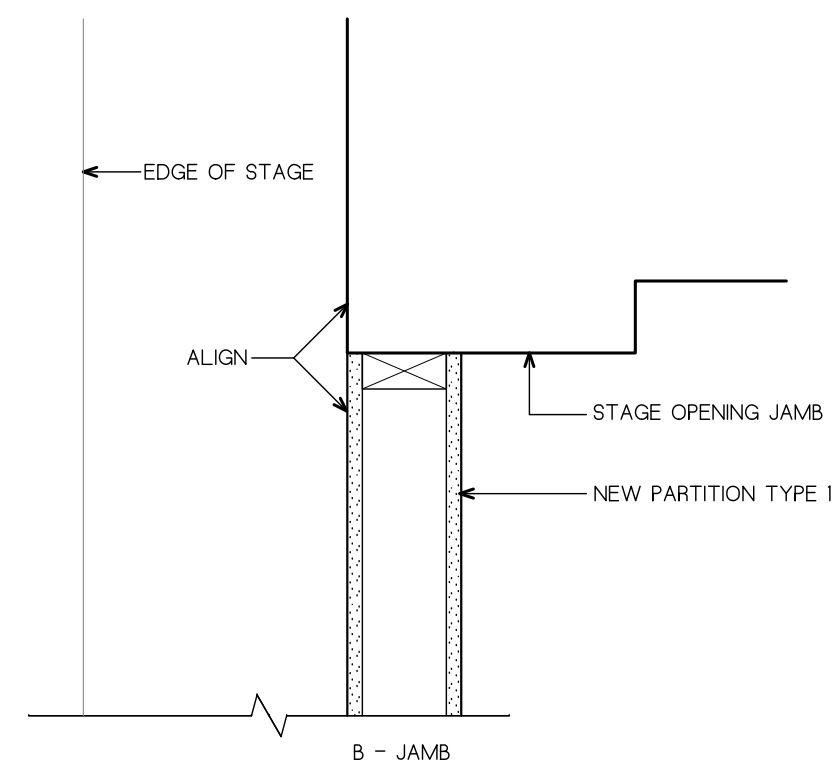
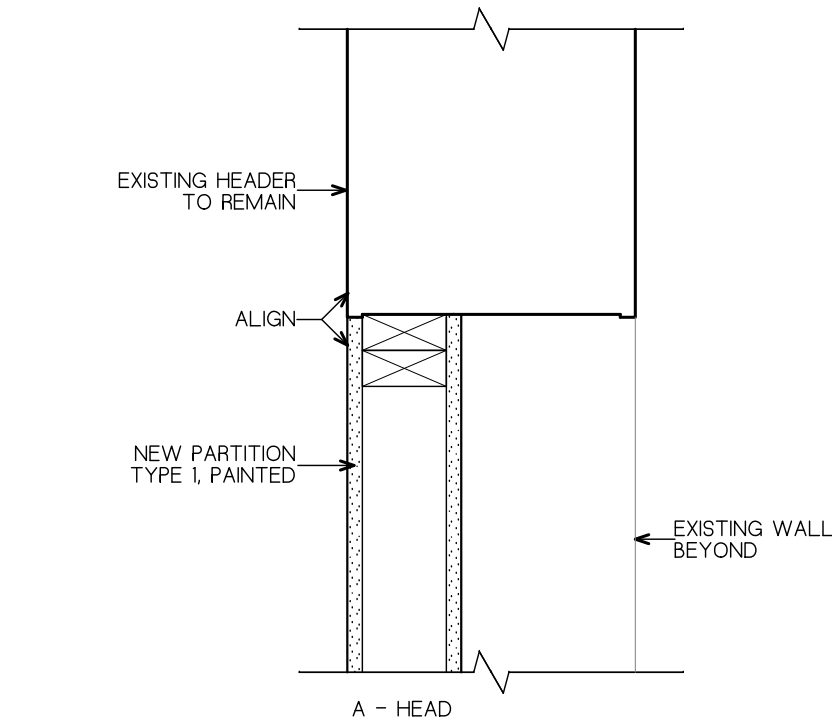
DATE
MARCH 2022



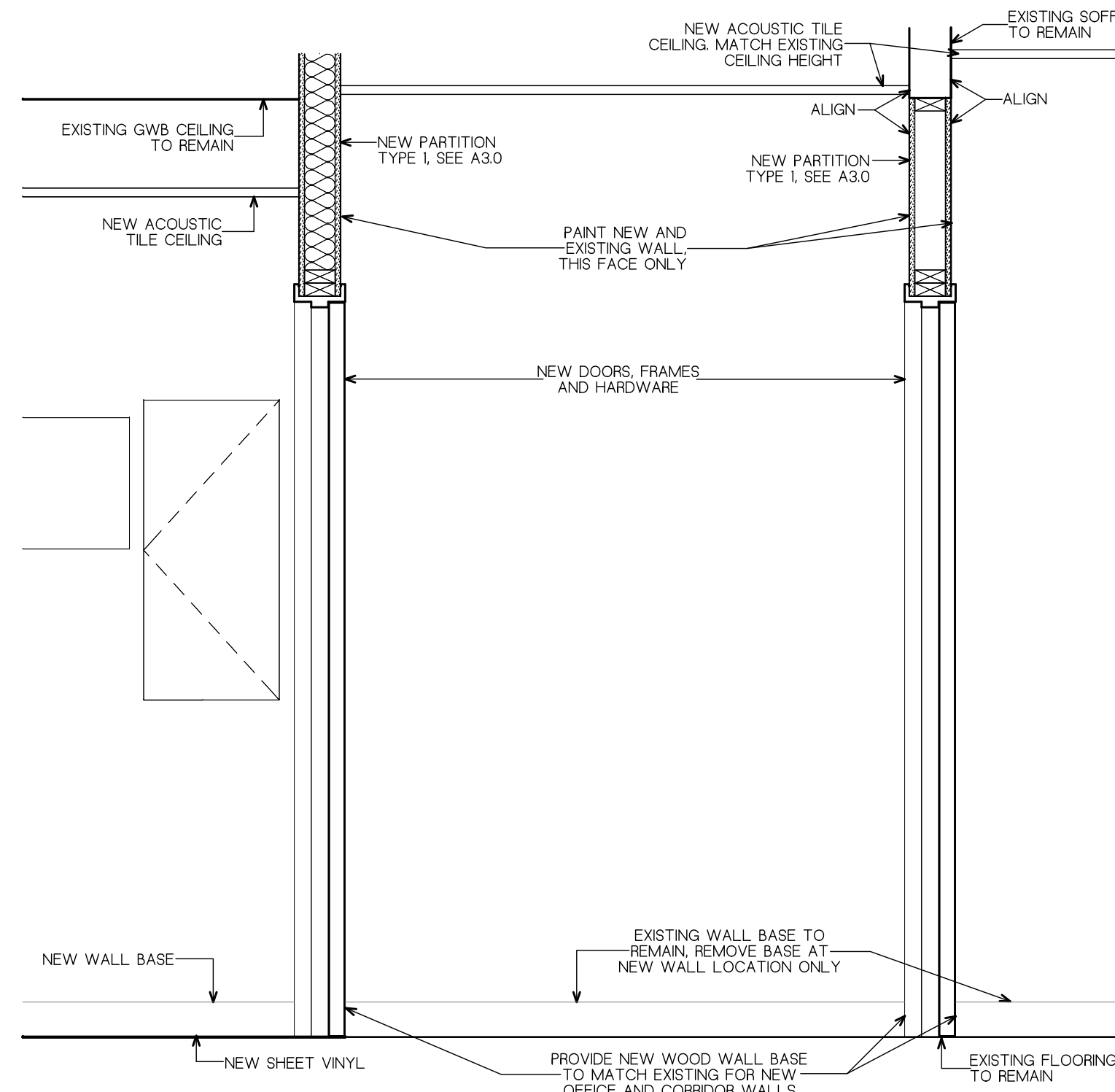
1 STAGE NEW PARTITION ELEVATION
3/4" = 1'-0"



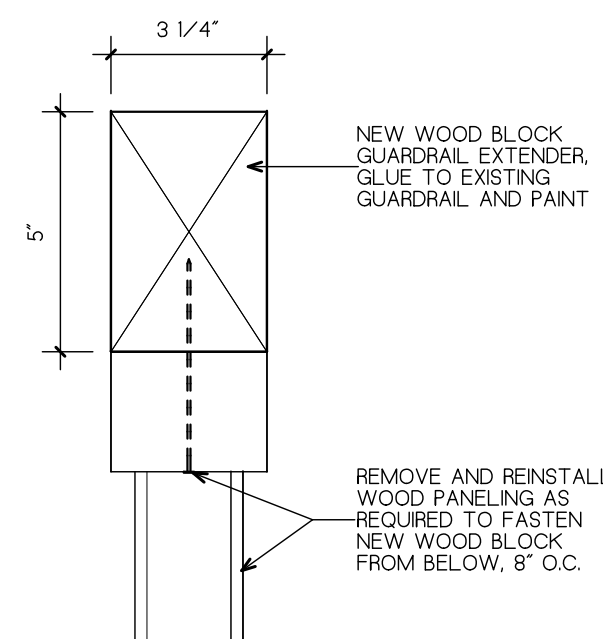
2 FURRING AT STONE WALL
1-1/2" = 1'-0"



3 STAGE NEW PARTITION SECTIONS
1-1/2" = 1'-0"



4 CORRIDOR SECTION
3/4" = 1'-0"



5 GUARDRAIL PARTITION
3" = 1'-0"

GENERAL NOTES
1. GC TO VERIFY ALL DIMENSIONS IN THE FIELD.
2. PROVIDE BLOCKING AT ALL WALL-MOUNTED ITEMS.

KEY PLAN

DRAWING TITLE

DETAILS

JOB NUMBER: 1422.2
JOB TITLE
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT

ARCHITECT

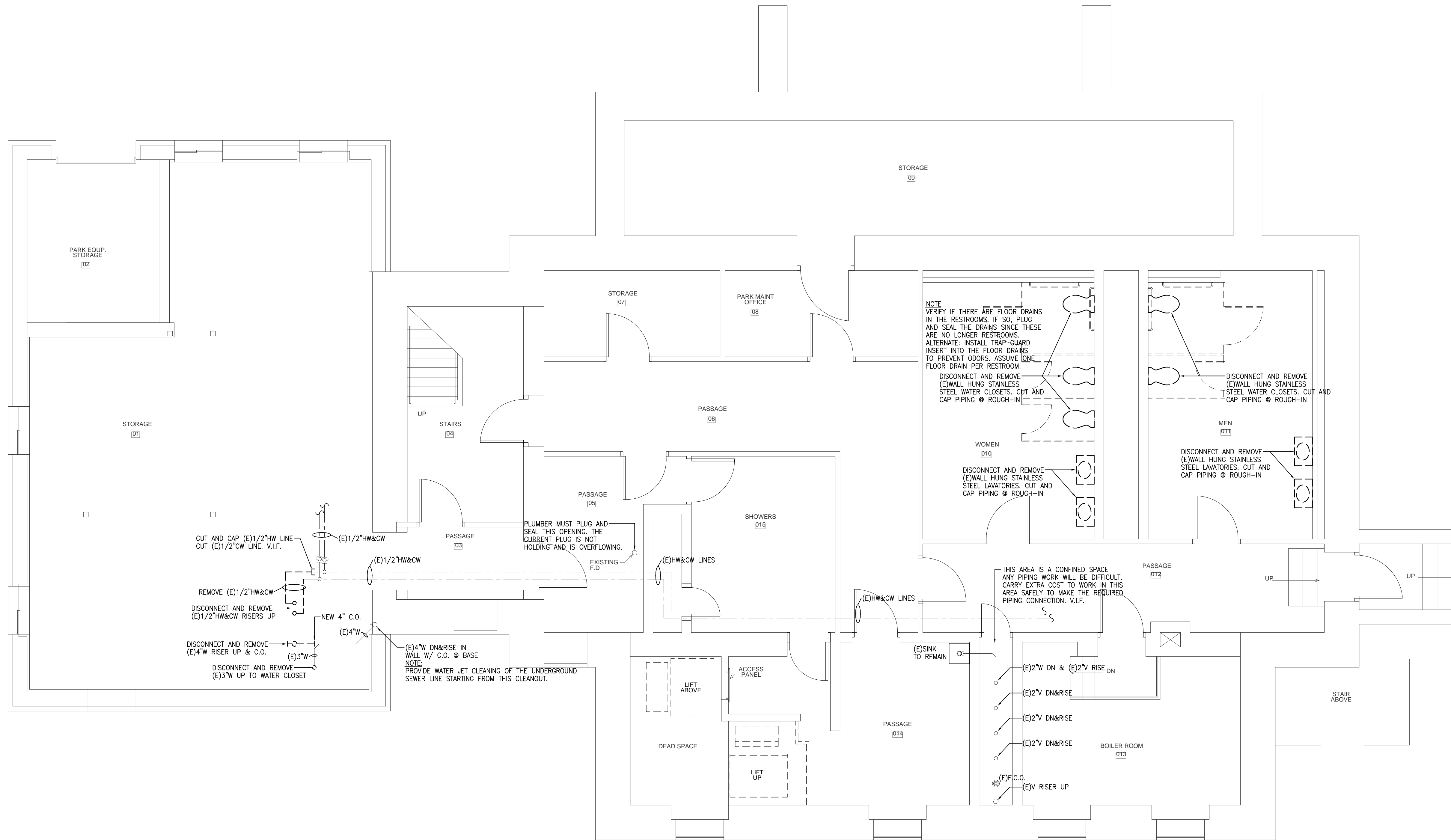
NAULT ARCHITECTS INC.
71 HOPE AVENUE
WORCESTER, MA 01603
TEL: (508) 755-6134
FAX: (508) 754-4661

DRAWING NO.

A5.0

SCALE
AS NOTED

DATE
MARCH 2022



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

GENERAL NOTES

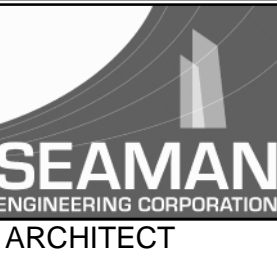
KEY PLAN

DRAWING TITLE

BASEMENT PLUMBING
DEMOLITION PLAN

JOB NUMBER: 1422.2
JOB TITLE

INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA



CONSULTANT
22 West Street, Unit C
Millbury, MA 01527
ph:508-865-1400
fx:508-865-1401

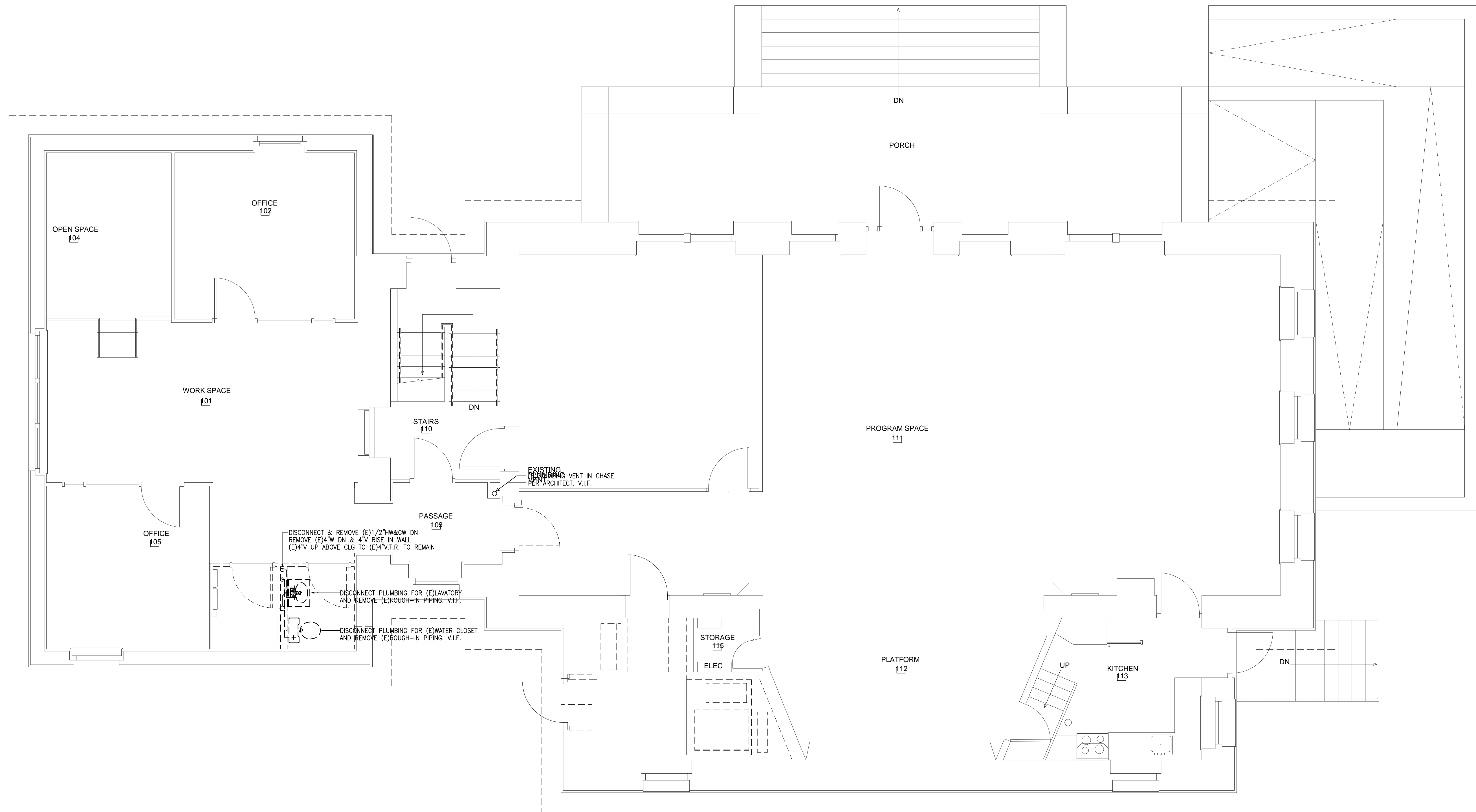
NAULT ARCHITECTS, INC.
37 HOPE AVENUE
WORCESTER, MA 01603
TEL: (508)754-6034
FAX: (508) 754-6651

DRAWING NO.

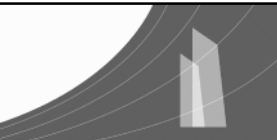

DP-1

SCALE
1/4" = 1'-0"

DATE
MARCH 2022



FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/4"=1'-0"

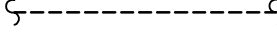

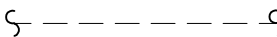
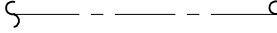

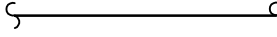
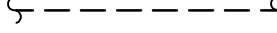
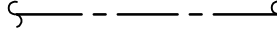
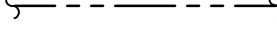




GENERAL NOTES	
KEY PLAN	
DRAWING TITLE	
FIRST FLOOR PLUMBING DEMOLITION PLAN	
JOB NUMBER: 1422.2 JOB TITLE	
INTERIOR ACCESSIBILITY RENOVATIONS SOUTH WORCESTER NEIGHBORHOOD IMPROVEMENT CENTER WORCESTER, MA	
CONSULTANT	
<div><div>SEAMAN ENGINEERING CORPORATION ARCHITECT</div><div>22 West Street, Unit C Millbury, MA 01527</div><div>ph:508-865-1400 fx:508-865-1401</div></div>	
ARCHITECT	
<div><div>NAULT ARCHITECTS, INC.</div><div>37 HOPE AVENUE WORCESTER, MA 01603</div><div>TEL: (508) 754-6614 FAX: (508) 754-6651</div></div>	
SCALE 1/4" = 1'-0"	DRAWING NO.
	DP-2
DATE MARCH 2022	

PLUMBING NOTES:

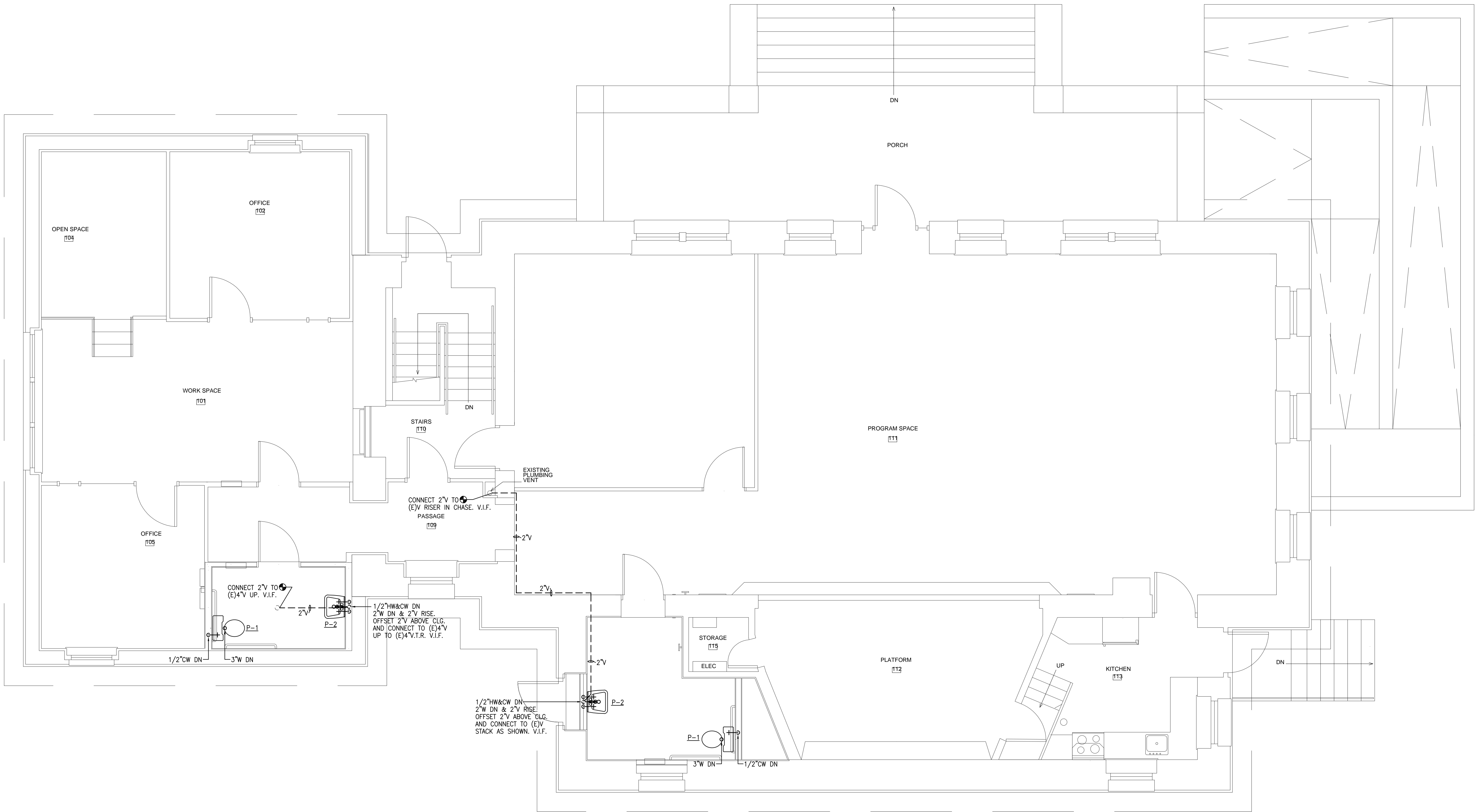
1. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL MATERIAL, LABOR, SUPERVISION AND TRANSPORTATION REQUIRED TO COMPLETE THE WORK DESCRIBED ON THESE DRAWINGS AND IN THE SPECIFICATIONS UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LOCATION IN THE FIELD.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
4. ALL PIPING TO BE INSTALLED PER LOCAL, STATE, AND FEDERAL CODES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL OFFSETS AND MODIFICATIONS AS REQUIRED TO CLEAR BUILDING STRUCTURES.
6. ALL PIPING TO BE PRESSURE TESTED BEFORE INSULATION. LEAVE VALVES OPEN, READY FOR OPERATION.
7. INSULATE ALL COLD AND HOT LINES INSTALLED WITH 1/2" FIBERGLASS OR CLOSED CELL INSULATION..
8. REPAIR OF ANY DAMAGE TO THE NEW CONSTRUCTION DURING THE EXECUTION OF THIS WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
9. ALL EXPOSED PIPING/FITTINGS TO BE CHROME PLATED COPPER/BRASS.
10. ALL WATER SUPPLY PIPING TO BE RIGID TYPE L COPPER UNLESS STATED OTHERWISE.
11. ALL WASTE AND VENT PIPING TO BE CAST IRON OR DWV COPPER AS ALLOWED BY THE MA PLUMBING CODE.
12. PIPING RUNS ARE SHOWN AS REPRESENTATIVE OF REQUIRED SIZES. ROUTING MAY BE CHANGED BY CONTRACTOR AS NECESSITATED BY STRUCTURAL CONSIDERATIONS.
13. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATION OF PLUMBING FIXTURES.
14. ALL DOMESTIC AND WASTE PIPING IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE AND WORKING FIXTURES.

PLUMBING FIXTURE SCHEDULE			
KEY		P-1	P-2
FIXTURE		WALL HUNG HC WATER CLOSET	WALL HUNG LAVATORY (HAND/CAP)
P I P E C O N N E C T I O N S	TRAP	—	1-1/2"
	WASTE	4"	1-1/2"
	VENT	2"	1-1/4"
	CWS	1/2"	3/8"
	HWS	—	3/8"
MOUNTING HEIGHT FL. TO RIM		16-1/2"	PER ARCH
MATERIAL		VITREOUS CHINA	VITREOUS CHINA
FITTINGS		2-PIECE G-MAX FLUSH SYSTEM 12" ROUGH-IN ELONGATED 1.6 GPF OPEN FRONT ELONGATED SEAT	SYMMONS SYMMETRIX LAVATORY FAUCET W/ #5-20-G GRID DRAIN
	MANUF.	TOTO	TOTO
	MODEL	DRAKE CT744SL#01	LT307.4

KEY

- | | |
|---|--|
|  | EXISTING PIPING AND/OR
FIXTURES TO BE REMOVED |
|  | EXISTING WASTE PIPING |
|  | EXISTING VENT PIPING |
|  | EXISTING COLD WATER PIPING |
|  | EXISTING HOT WATER PIPING |
|  | WASTE PIPING (W) |
|  | VENT PIPING (V) |
|  | COLD WATER PIPING (CW) |
|  | 110°F HOT WATER PIPING (HW) |
|  | PIPE DROP |
|  | PIPE RISE |
| V.I.F. | VERIFY IN FIELD |
| C.O. | CLEANOUT |
| F.C.O. | FLOOR CLEANOUT |
| (E) | EXISTING |
| <u>P=#</u> | PLUMBING FIXTURE CALLOUT |
|  | CONNECT NEW TO EXISTING |
|  | FIXTURE STOP |

GENERAL NOTES



PROPOSED FIRST FLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

KEY PLAN

DRAWING TITLE

PROPOSED FIRST FLOOR PLUMBING PLAN

JOB NUMBER: 1422.2
JOB TITLE

INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT



22 West Street, Unit C ph:508-865-1401
Millbury, MA 01527 fx:508-865-1401



NAULT ARCHITECTS, INC

71 HOPE AVENUE
WORCESTER, MA 01603

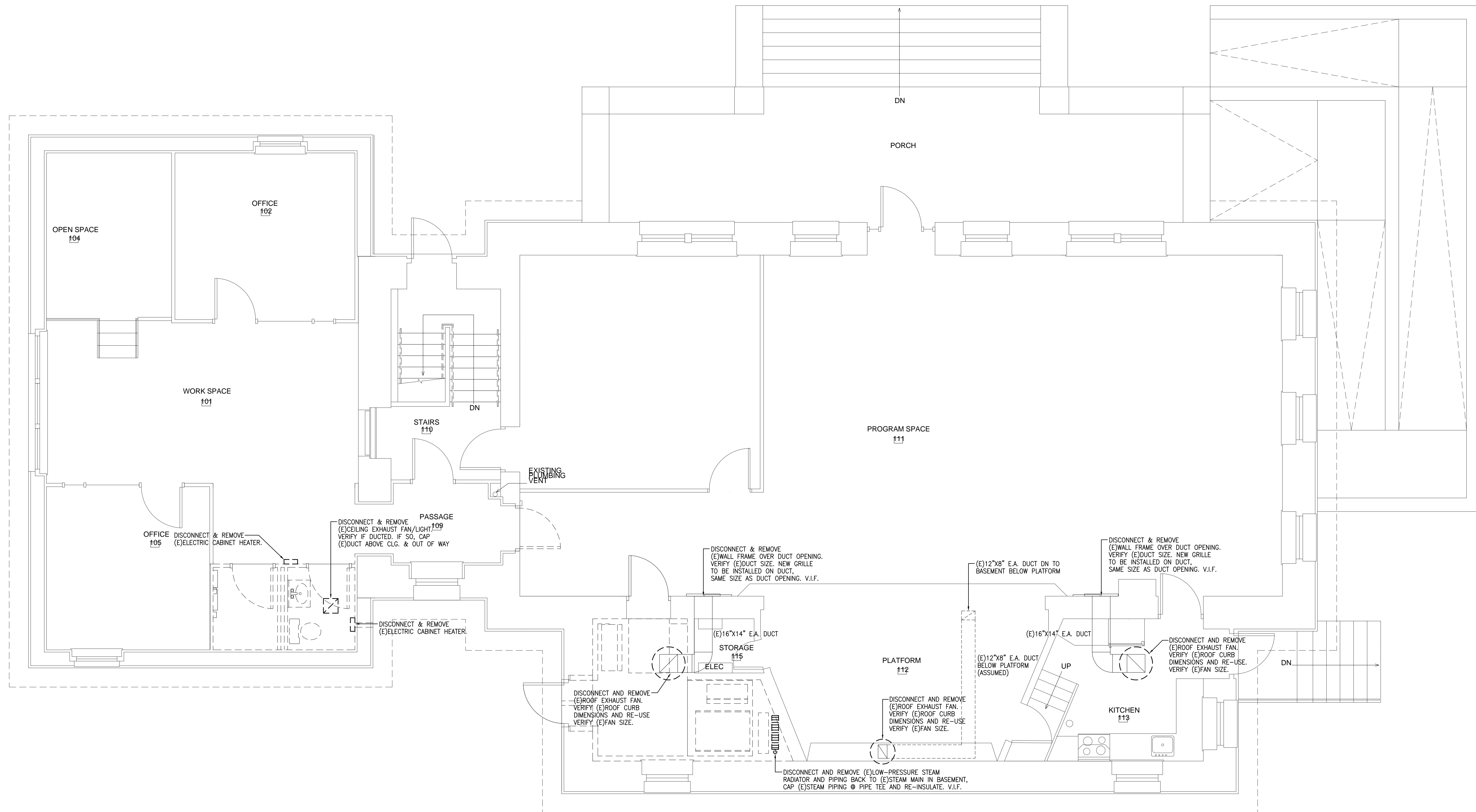
TEL: (508) 755-6131
FAX: (508) 754-4666

DRAWING NO.

P-2

SCALE
1/4" = 1'-0"

DATE
MARCH 2022



FIRST FLOOR HEATING AND VENTILATION DEMOLITION PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES

KEY PLAN

DRAWING TITLE
FIRST FLOOR
HEATING & VENTILATION
DEMOLITION PLAN

JOB NUMBER: 1422.2
JOB TITLE
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT
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ARCHITECT

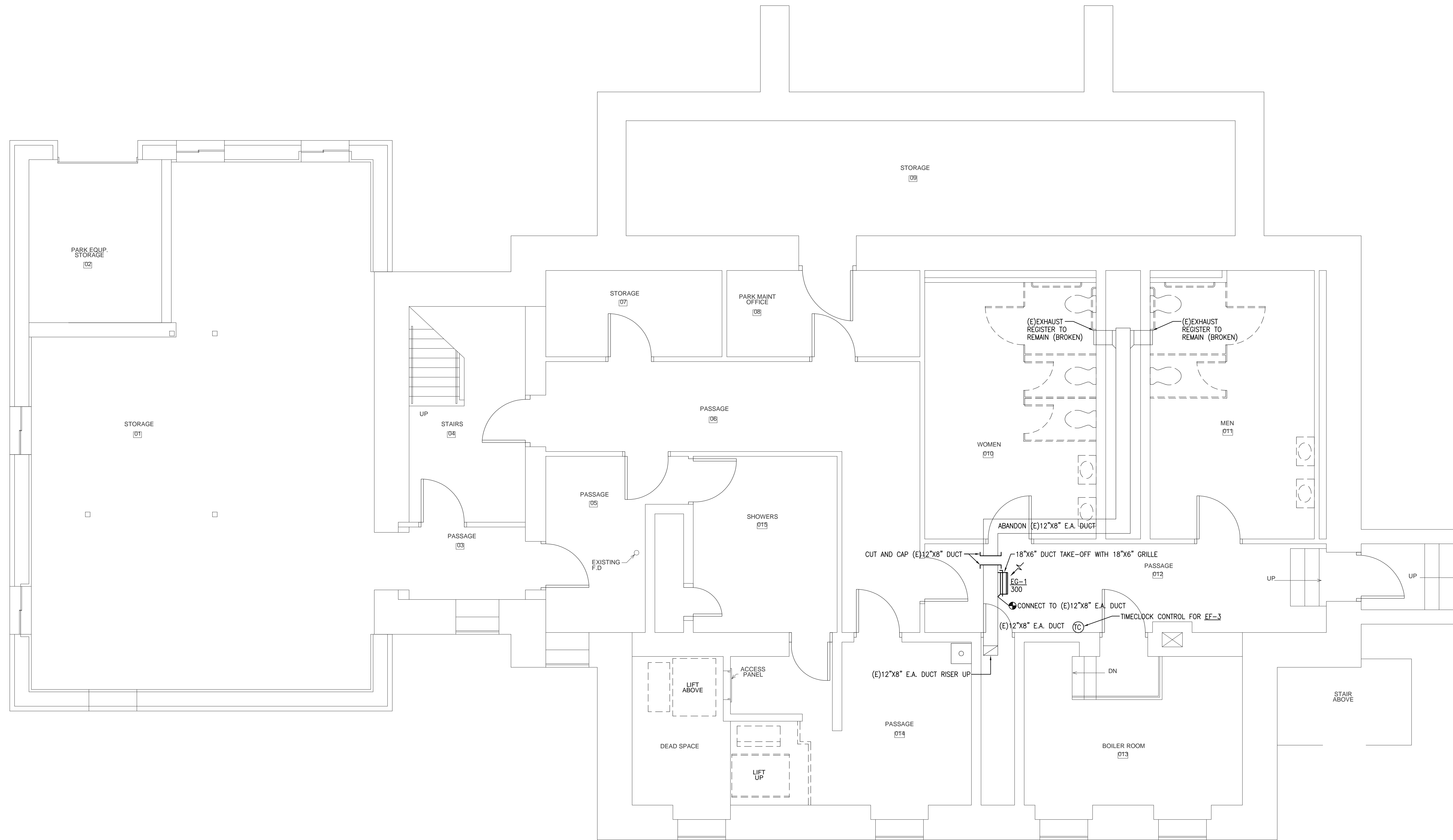
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WORCESTER, MA 01603 FAX: (508) 754-4651

DRAWING NO.

DH-1

SCALE
1/4" = 1'-0"

DATE
MARCH 2022



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

GENERAL NOTES

KEY PLAN

DRAWING TITLE
BASEMENT HVAC PLAN

JOB NUMBER: 1422.2
JOB TITLE
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT
SEAMAN 22 West Street, Unit C ph:508-865-1400
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ARCHITECT

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DRAWING NO.

H-1

SCALE
1/4" = 1'-0"

DATE
MARCH 2022

EXHAUST FAN/LIGHT SCHEDULE		
F A N S	UNIT NUMBER	CEX-1
	SERVICE	2ND FL BATH
	MFR MAKE	PANASONIC
	MODEL	#FV-0511VKSJ2
	C.F.M. (MEDIUM SPEED)	80
M O T O R & S T A R T E R	STATIC PRESS. (IN WG)	0.25"
	FAN RPM	1127
	FAN SONES	0.5
	MAX. CURRENT (AMPS)	0.19
	REMARKS	① ②

- ① PROVIDE HANGING VIBRATION ISOLATORS & BACKDRAFT DAMPER
- ② INCLUDES 10W DIMMABLE LED CHIP PANEL, 3000 KELVIN WARM WHITE/90CRI/700 LUMENS/70 LPM/ENERGY STAR 2.0 CERTIFIED/50,000 HOURS RATED AVERAGE LIFE/ <1W ONE LED NIGHT LIGHT INCLUDED.

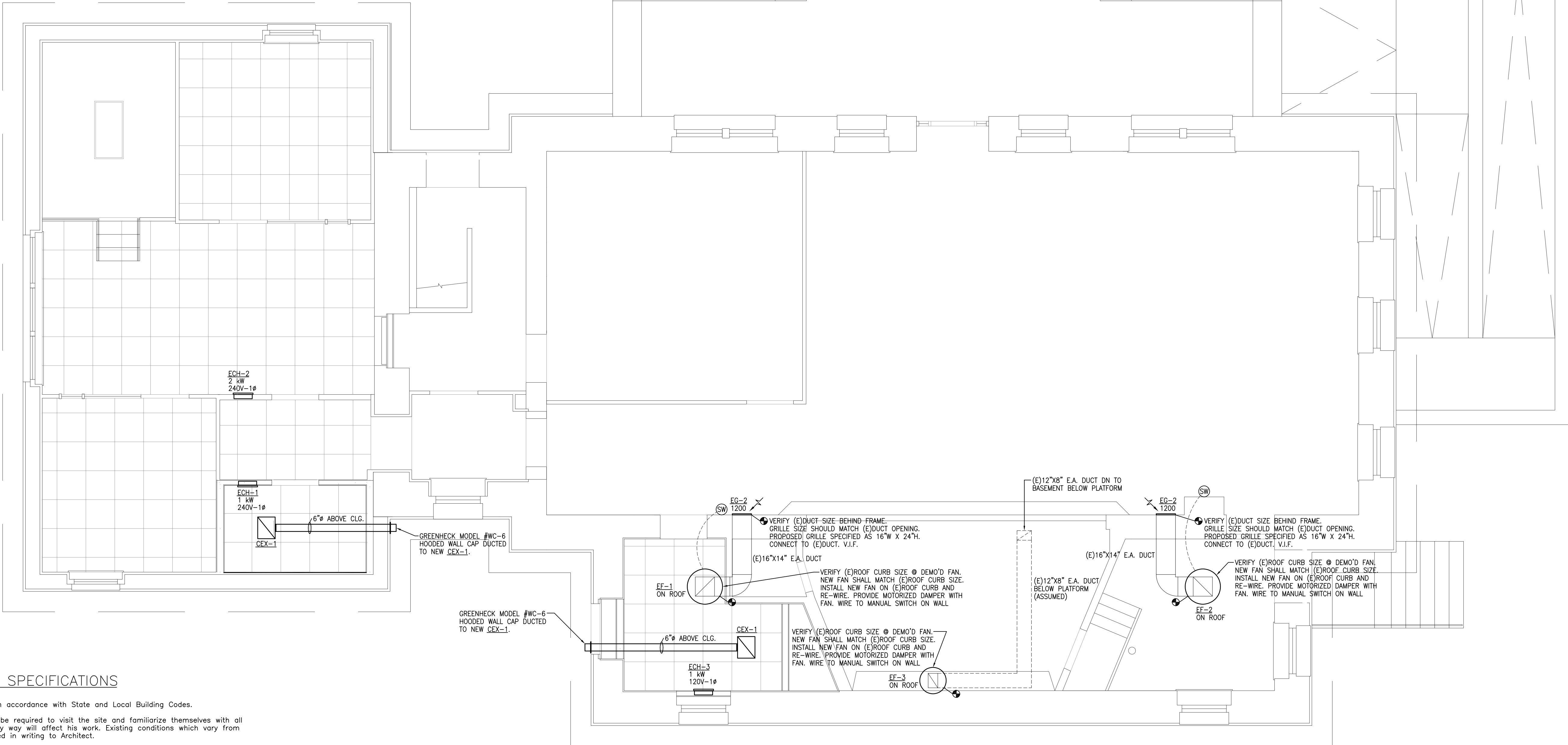
FAN SCHEDULE			
F A N S	UNIT NUMBER	EF-1 & EF-2	EF-3
	SERVICE	PROGRAM SPACE	BASEMENT
	MANUFACTURER	GREENHECK	GREENHECK
	MODEL #	G-130-VG	G-095-VG
	C.F.M.	1200	300
M O T O R & S T A R T E R	EXTERNAL/TOTAL STATIC PRESS. (IN WG)	0.6"	0.6"
	FAN RPM	1202	1473
	FAN BHP	0.2	0.08
	FAN SONES	9.4	9.5
	DRIVE TYPE	DIRECT DRIVE	DIRECT DRIVE
M O T O R & S T A R T E R	TYPE	ODP	ODP
	POWER (H.P. OR WATTS)	1/2	1/6
	R.P.M	-	-
	VOLTAGE/PHASE	115V-1ø	115V-1ø
	AMPS	-	-
S T A R T E R	TYPE	START/STOP SWITCH	TIMECLOCK
	NEMA SIZE	-	-
	CONTROL	START/STOP	TIMECLOCK
	AUX. CONTACTS	-	-
	REMARKS	① ②	② ③

- ① PROVIDE 0-10 VDC REMOTE CONTROL FOR FAN (SWITCHED FAN CONTROL), NEMA 3R DISCONNECT SWITCH, AND MOTORIZED BACKDRAFT DAMPER WITH ACTUATOR.
- ② VERIFY EXISTING ROOF CURB SIZE. EXISTING ROOF CURB TO BE RE-USED. VERIFY THAT PROPOSED FAN WILL FIT ON EXISTING ROOF CURB BEFORE ORDERING. IF ROOF CURB IS DIFFERENT SIZE, THEN SMALLER OR LARGER FAN MAY BE REQUIRED.
- ③ PROVIDE 7-DAY TIMECLOCK FOR FAN, NEMA 3R DISCONNECT SWITCH AND MOTORIZED BACKDRAFT DAMPER WITH ACTUATOR.

EXHAUST GRILLE SCHEDULE		
KEY	EG-1	EG-2
MANUFACTURER	PRICE	PRICE
MODEL	530	530
NECK SIZE (W X H)	18"x6"	16"x24"
MODULE SIZE	---	---
BORDER	SURFACE	SURFACE
FINISH	WHITE	WHITE
BLADE ORIENTATION	LONG DIM.	SHORT DIM.
DAMPER	NONE	NONE
NOTES		

EQUIPMENT NOTES:

- EGH-1** QMARK MODEL #CWH1202DSFPQ ELECTRIC CABINET HEATER; 1000 WATTS @ 240 VOLT, 1 PHASE, 4.2 AMPS; 3,413 BTUH HEAT OUTPUT; RECESSED STYLE; INTEGRAL ADJUSTABLE THERMOSTAT AND FAN SWITCH; COLOR SELECTION BY ARCHITECT. NOTE: THIS IS A TWO WATTAGE UNIT. ADJUST FOR LOWER WATTAGE.
- EGH-2** QMARK MODEL #CWH1202DSF ELECTRIC CABINET HEATER; 2000 WATTS @ 240 VOLT, 1 PHASE, 8.4 AMPS; 6,826 BTUH HEAT OUTPUT; RECESSED STYLE; INTEGRAL ADJUSTABLE THERMOSTAT AND FAN SWITCH; COLOR SELECTION BY ARCHITECT. NOTE: THIS IS A TWO WATTAGE UNIT. ADJUST FOR HIGHER WATTAGE.
- EGH-3** QMARK MODEL #CWH1101DSF ELECTRIC CABINET HEATER; 1000 WATTS @ 120 VOLT, 1 PHASE, 8.4 AMPS; 3,413 BTUH HEAT OUTPUT; RECESSED STYLE; INTEGRAL ADJUSTABLE THERMOSTAT AND FAN SWITCH; COLOR SELECTION BY ARCHITECT. NOTE: THIS IS A TWO WATTAGE UNIT. ADJUST FOR LOWER WATTAGE.



PROPOSED FIRST FLOOR HEATING AND VENTILATION PLAN
SCALE: 1/4"=1'-0"

NOTES AND SPECIFICATIONS

- All work to be done in accordance with State and Local Building Codes.
- Each Contractor shall be required to visit the site and familiarize themselves with all conditions which in any way will affect his work. Existing conditions which vary from Drawings shall be noted in writing to Architect.
- The Contractor shall be responsible for all permits and fees.
- Existing building and site conditions affecting the work under this contract are not completely shown on Drawings. The Contractor must restore any damage work to existing conditions at the Contractor's expense.
- The work at all times shall be kept clean and debris shall not accumulate. All work related debris, material and equipment shall be hauled away and disposed of by the Contractor.
- The Contractor shall guarantee all work and materials for a term of one (1) year from date of acceptance of work.
- The Contractor shall provide a Certificate of Insurance acceptable to the Owner.
- Contractor shall disconnect, remove and dispose all existing equipment, ductwork and piping not reused by this project.
- Perform work and provide material and equipment for a complete and operational H.V.A.C. system, material and equipment shall be Underwriters Laboratory (UL) listed.
- All shutdown time shall be coordinated with Owner before Installation begins, esp. steam heat.
- Materials and equipment shall be new unless otherwise noted.
- All ductwork shall be fabricated and installed in accordance with SMACNA standards, minimum 24 gauge Seal at joints & seams with duct sealer. Ductwork shall be rated for 3" w.g.

SYMBOLS LEGEND

- | | |
|--|---|
| | DEMOLISH AND REMOVE (E) STEAM RADIATOR AND EXISTING PIPING. CAP (E) PIPING AT MAIN(S) |
| | DEMOLISH AND REMOVE (E) CEILING EXHAUST FAN/LIGHT |
| | DEMOLISH AND REMOVE (E) WALL CABINET HEATER |
| | EXISTING DUCTWORK TO REMAIN |
| | PROPOSED DUCTWORK |
| | PROPOSED CEILING EXHAUST FAN/LIGHT |
| | PROPOSED WALL CABINET HEATER |
| | EXISTING |
| | VERIFY IN FIELD |

- | | |
|--|--|
| | EXHAUST GRILLE |
| | EXHAUST GRILLE CALLOUT AIRFLOW (CFM) |
| | WALL FAN ON/OFF SWITCH |
| | TIME CLOCK |
| | CONNECT NEW TO EXISTING |
| | NEW ROOF EXHAUST FAN MOUNTED ON EXISTING ROOF CURB |
| | VERIFY (E) ROOF CURB SIZE AND MATCH FAN SIZE TO CURB |

GENERAL NOTES

KEY PLAN

DRAWING TITLE

PROPOSED FIRST FLOOR
HEATING & VENTILATION
PLAN

JOB NUMBER: 1422.2
JOB TITLE

INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
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



H-2



SCALE
1/4" = 1'-0"

DATE
MARCH 2022


ELECTRICAL DEMOLITION NOTES	
1. EXISTING CONDITIONS WERE OBTAINED FROM A/E FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO START OF CONSTRUCTION.	21. VERIFY ABANDONED WIRING AND EQUIPMENT SERVE ONLY THE AREAS BEING RENOVATED.
2. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE AND EXAMINE THE AREA OF WORK SO AS TO SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF WORK.	22. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVERS FOR ABANDONED BOXES WHICH ARE NOT REMOVED. COORDINATE FINISH AND COLOR WITH THE ARCHITECT.
3. THE ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING ELECTRICAL SERVICES AND CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES FOUND.	23. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT BACK TO THE SOURCE OF SUPPLY.
4. THE ELECTRICAL SUBCONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OWNER ALL DEVICES THAT ARE BEING REMOVED AND THAT ARE TO REMAIN PRIOR TO COMMENCING WORK.	24. WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE FROM THAT CIRCUIT, INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND FIXTURES ON THAT CIRCUIT.
5. THE ELECTRICAL SUBCONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REMOVING ALL ELECTRICAL DEVICES, CONDUIT AND ASSOCIATED WIRING IN WALLS, FLOORS AND CEILINGS THAT ARE SCHEDULED TO BE DEMOLISHED. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED AFTER THE AWARD OF THE ELECTRICAL CONTRACT.	25. USE SUITABLE METHODS TO LIMIT AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN AIR TO THE LOWEST LEVEL OF AIR POLLUTION PRACTICAL. PROVIDE BARRICADES AND OBSERVE SAFETY REGULATIONS.
6. THE CONTRACTOR SHALL THOROUGHLY REVIEW THESE ELECTRICAL CONSTRUCTION DOCUMENTS PRIOR TO PREPARING A BID FOR THE ELECTRICAL WORK SHOWN. THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED.	26. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS.
7. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS. THE ELECTRICAL SUBCONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.	27. WHERE PRESENT WORK, ADJACENT CONSTRUCTION AND FINISHES ARE DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, DEVICES OR APPARATUS, THE SAME SHALL BE REPAIRED OR PATCHED TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADJOINING WORK BY GENERAL CONTRACTOR.
8. THE ELECTRICAL SUBCONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.	28. SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.
9. REPORT DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.	29. ANY EXISTING EQUIPMENT THAT IS REMOVED SHALL BE INVENTORIED AND TURNED OVER TO THE OWNER PRIOR TO FINAL INSPECTION. UPON INSPECTION BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF ANY EQUIPMENT THAT ARE DEEMED USELESS TO THE OWNER. DISPOSE LAMPS ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.
10. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL. REMOVE FEEDERS TOGETHER WITH ASSOCIATED CONDUIT, BOXES, ETC. BACK TO THE SOURCE. REFER TO ARCHITECTURAL DRAWINGS.	
11. SCHEDULE WITH OWNER WORK TO BE PERFORMED IN EXISTING FACILITIES. PERFORM WORK AT TIMES AND UNDER CONDITIONS APPROVED BY THE OWNER.	
12. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.	
13. MAKE SAFE, DISCONNECT AND REMOVE ELECTRICAL DEVICES, WIRING, CONDUIT, ETC. ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED. COORDINATE WITH HVAC, PLUMBING AND FIRE ALARM DRAWINGS. REMOVE CONDUCTORS BACK TO THE SOURCE, UNLESS NOTED OTHERWISE. MARK EXISTING UNUSED CIRCUIT BREAKERS AS SPARE.	
14. REMOVE ELECTRICAL FIXTURES, DEVICES AND EQUIPMENT NOT REQUIRED TO REMAIN IN SERVICE. RECONNECT EXISTING CIRCUITS TO OTHER SOURCES OF SUPPLY. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.	
18. REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.	
19. REMOVE EXPOSED ABANDONED CONDUIT. CUT CONCEALED ABANDONED CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.	
20. PROVIDE MOUNTING PARTS AND ACCESSORIES FOR ALL DEVICES, FIXTURES, EQUIPMENT, RACEWAY, ETC THAT ARE TO BE RELOCATED.	

GENERAL NOTES	
1. ALL RACEWAY SHALL BE CONCEALED UNLESS OTHERWISE NOTED. PROVIDE PULL STRINGS FOR ALL RACEWAYS. COORDINATE ROUTING OF ALL EXPOSED CONDUITS WITH THE ARCHITECT.	17. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED.
2. THE SIZES OF ELECTRICAL RACEWAY SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS AND SHALL MEET THE REQUIREMENTS OF THE LOCAL ELECTRIC CODE, 3/4" MINIMUM, OR AS SHOWN ELSEWHERE.	18. SWITCHES SHALL BE MOUNTED 4'-0" MAX ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
3. ALL WORK INCLUDING DEVICES, OUTLETS, FIXTURES, WIRING, CONDUIT, RACEWAY, EQUIPMENT, ETC SHOWN ON THE ELECTRICAL PLANS IS NEW WORK AND SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL SUBCONTRACTOR OR THEIR SUB-CONTRACTORS, UNLESS NOTED OTHERWISE.	19. ALL PANELBOARDS SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 4'-0". PROVIDE A MINIMUM OF 3'-0" CLEARANCE FOR ALL 208V ELECTRICAL PANELS.
4. ALL NEW OUTLETS, DEVICES, FIXTURES, WIRING, CONDUIT, RACEWAY, EQUIPMENT, ETC SHOWN ON THE ELECTRICAL PLANS SHALL BE PROVIDED WITH ALL PARTS AND ACCESSORIES FOR A COMPLETE INSTALLATION.	20. ALL 20A, 125V NON-LOCKING RECEPTACLES IN DAMP AND WET LOCATIONS SHALL BE LISTED AS WEATHER RESISTANT TYPE PER NEC.
5. ALL WIRE AND CABLE FOR POWER, LIGHTING, ALARM, SIGNAL, UNLESS OTHERWISE NOTED, SHALL HAVE TYPE THHN INSULATION AND SHALL BE RATED FOR 600V MINIMUM.	21. REFER TO ARCHITECTS INTERIOR ROOM ELEVATIONS FOR EXACT LOCATIONS OF LIGHT FIXTURES, RECEPTACLES AND LIGHT SWITCHES AND OTHER WALL MOUNTED ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. CONSULT ARCHITECT PRIOR TO ROUGH-IN SHOULD THE ELECTRICAL DRAWINGS DIFFER WITH THE ARCHITECT'S INTERIOR ELEVATIONS.
6. MINIMUM WIRE SHALL BE #12. ALL WIRING SHALL BE NEW, UNLESS NOTED OTHERWISE. WIRING IN EXCESS OF 70 FEET FOR 120/208V MUST BE SIZED FOR VOLTAGE DROP. UPGRADE FEEDER SIZES IN ACCORDANCE WITH THE NEC. LIMIT VOLTAGE DROP TO LESS THAN 3%. FEEDERS SHALL FOLLOW SIMILAR GUIDELINES AND BE LIMITED TO 2% DROP.	22. VERIFY EXACT LOCATION OF CASEWORK AND FURNITURE WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
7. ALL WIRING INSTALLATION SHALL BE COLOR CODED AS PER THE ELECTRICAL CODE. ALL CONDUCTORS SHALL BE STRANDED TYPE.	23. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES IN AREA'S BEING PROVIDED WITH FIN TUBE RADIATION WITH ARCHITECT PRIOR TO ROUGH-IN.
8. CIRCUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. CONDUITS AND CABLES SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.	24. REFER TO HVAC, KITCHEN AND PLUMBING CONSULTANTS DRAWINGS AND ASSOCIATED PROJECT SPECIFICATIONS FOR ADDITIONAL SCOPE OF RELATED ELECTRICAL WORK.
9. CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO MOTORS AND OTHER EQUIPMENT.	25. FOR EXACT LOCATION OF HVAC, AND PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTION, REFER TO HVAC, AND PLUMBING CONSULTANTS DRAWINGS.
10. ALL CONDUIT RUNS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION AND DEFLECTION TYPE FITTINGS.	26. CONFIRM EXACT POWER REQUIREMENTS AND CONNECTION LOCATIONS FOR ALL EQUIPMENT PRIOR TO INSTALLATION WITH HVAC, PLUMBING AND GENERAL CONTRACTOR.
11. ALL WIRING DEVICES, PANEL BOARDS, DISTRIBUTION BOARDS, MOTORS, ETC., SHALL BE GROUNDED AS PER ELECTRIC CODE.	27. SWITCHGEAR & PANEL DESIGNATIONS ARE INTENDED TO BE INTERPRETED AS INDICATED BELOW: BLANK: CONTAINS NECESSARY BUS AND HARDWARE FOR FUTURE ADDITION OF BREAKERS OR STARTERS WITHIN SIZE RANGE SHOWN. SPACE: CONTAINS NECESSARY BUS AND HARDWARE FOR FUTURE ADDITION OF BREAKERS OR STARTERS WITHIN SIZE RANGE SHOWN. SPARE: CONTAINS A COMPLETE BREAKER OR STARTER INSTALLED, SIZE AS INDICATED AVAILABLE FOR FUTURE USE.
12. ARCHITECTURAL DRAWINGS, INDICATE REQUIRED LOCATION OF WIRING DEVICES, COORDINATE ALL COVER PLATE COLORS WITH ARCHITECT.	28. ELECTRICAL SUBCONTRACTOR TO VERIFY ACTUAL CEILING CONSTRUCTION TYPE AND FURNISH ALL LIGHTING FIXTURES WITH THE CORRECT MOUNTING DEVICE, ALL PARTS AND ACCESSORIES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE FIXTURE CATALOG NUMBER. THE CONTRACTOR SHALL VERIFY DEPTH OF ALL RECESSED LIGHTING FIXTURES PRIOR TO ORDERING FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE RECESSED FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO THE ARCHITECT PRIOR TO ORDERING FIXTURES.
13. ALL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH LOCAL, STATE & FEDERAL CODES, STATE AND LOCAL AUTHORITIES. FILE ALL PLANS, OBTAIN ALL PERMITS, PAY ALL FEES, SCHEDULE ALL INSPECTIONS, MAKE ALL TESTS AND OBTAIN ALL APPROVALS REQUIRED. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF NATIONAL ELECTRIC CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL COMPONENTS SHALL BE UL LISTED.	29. THE ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING ELECTRICAL SERVICES AND CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES FOUND PRIOR TO BID.
14. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, SPECIFICATIONS, LAWS & ORDINANCES, THE MOST STRINGENT SHALL APPLY.	
15. SUBMIT FOR APPROVAL. COMPLETE SHOP DRAWINGS, LIST OF MATERIALS AND DETAILED DATA OF EQUIPMENT GIVING THE MANUFACTURERS NAME, CATALOG NUMBER, SIZE, CAPACITY AND DIMENSIONS. SUBMIT SHOP DRAWINGS FOR APPROVAL ONLY AFTER VERIFYING ALL DIMENSIONS, CONFIRM THAT THE EQUIPMENT, DEVICES, FIXTURES, ETC. CAN BE INSTALLED WITHOUT MODIFICATIONS. NO EQUIPMENT SHALL BE INSTALLED OR FABRICATED WITHOUT OBTAINING APPROVAL. ANY MODIFICATIONS REQUIRED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.	
16. SUBMIT FOR APPROVAL PRODUCTS THAT ARE APPROVED EQUAL ONLY. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR TO VERIFY THAT THE SUBSTITUTED SYSTEMS ARE APPROVED EQUAL. IN THE EVENT THAT UNAPPROVED SYSTEMS ARE SUBMITTED FOR APPROVAL, THE ELECTRICAL SUBCONTRACTOR SHALL RETURN THESE SYSTEMS TO THE VENDOR AND FURNISH AND INSTALL APPROVED SYSTEMS AT NO ADDITIONAL COST TO THE OWNER.	

WIRING DEVICES	
GENERAL NOTE: COORDINATE EXACT LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL ELEVATION PLANS PRIOR TO ROUGH-IN	
	- DUPLEX RECEPTACLE, WALL MOUNTED
	- GFCI DUPLEX RECEPTACLE, WALL MOUNTED
	- QUAD RECEPTACLE, WALL MOUNTED
	- 50A RANGE RECEPTACLE
	- DUAL-TECH OCCUPANCY SENSOR WALL, MOUNTED
	- SINGLE POLE TOGGLE SWITCH
	- THREE-WAY TOGGLE SWITCH
	- PADDLE FAN SPEED CONTROL
<u>ABBREVIATIONS:</u>	
TP - DENOTES OUTLET TO BE TAMPER RESISTANT	
<u>NOTES FOR WIRING DEVICES:</u>	
1. COORDINATE EXACT LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL ELEVATION PLANS PRIOR TO ROUGH-IN.	
2. ALL EXPOSED WIRING SHALL BE INSTALLED IN CONDUIT.	

WIRING	
	- HOME RUN TO PANEL
	- HOME RUN TO PANEL
INSTALL #12 AWG WIRE TO ALL DEVICES IN THE CIRCUIT UNLESS OTHERWISE NOTED	
WIRE SIZES SHOWN ON WIRING RUNS ARE FOR THE ASSISTANCE TO THE ELECTRICIAN IN RUNNING THE WIRING. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR TO VERIFY ALL WIRE SIZES AND INSTALL THE REQUIRED NUMBER OF CONDUCTORS NEEDED FOR THE INSTALLATION.	

DEMOLITION LEGEND	
<u>DEMOLITION ABBREVIATIONS:</u>	
"XR"	- DENOTES EXISTING DEVICE/OUTLET/EQUIPMENT TO BE REMOVED TOGETHER WITH ASSOCIATED WIRING, CONDUIT, SURFACE RACEWAY, ETC. AND CIRCUIT PULLED BACK TO NEXT ACTIVE OUTLET/BACK TO SOURCE. UNLESS NOTED OTHERWISE.
"ETR"	- DENOTES EXISTING DEVICE/OUTLET/EQUIPMENT TO REMAIN.
"RP"	- EXISTING DEVICE/OUTLET/EQUIPMENT TO BE REMOVED AND NEW DEVICE, EQUIPMENT OR FIXTURE AS SPECIFIED INSTALLED ON EXISTING OUTLET, RECONNECT TO EXISTING CIRCUIT. UNLESS NOTED OTHERWISE
"XRL"	- EXISTING DEVICE/OUTLET/EQUIPMENT TO BE DISCONNECTED, REMOVED AND RELOCATED.
"XL"	- NEW LOCATION OF RELOCATED EXISTING DEVICE/OUTLET/EQUIPMENT. EXTEND CONDUIT AND FEEDERS TO NEW LOCATION.
<u>NOTES FOR DEMOLITION:</u>	
1. MAKE SAFE, DISCONNECT, AND REMOVE EXISTING DEVICES, OUTLETS AND EQUIPMENT TO BE REMOVED OR RELOCATED TOGETHER WITH ASSOCIATED WIRING, CONDUIT, SURFACE RACEWAY, ETC. AND CIRCUIT PULLED BACK TO NEXT ACTIVE OUTLET/BACK TO SOURCE UNLESS NOTED OTHERWISE.	

EQUIPMENT	
	- ELECTRICAL PANEL,

GENERAL NOTES

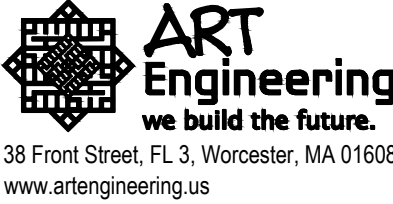
KEY PLAN

DRAWING TITLE

LEGEND AND NOTES

JOB NUMBER: 1609
JOB TITLE:
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

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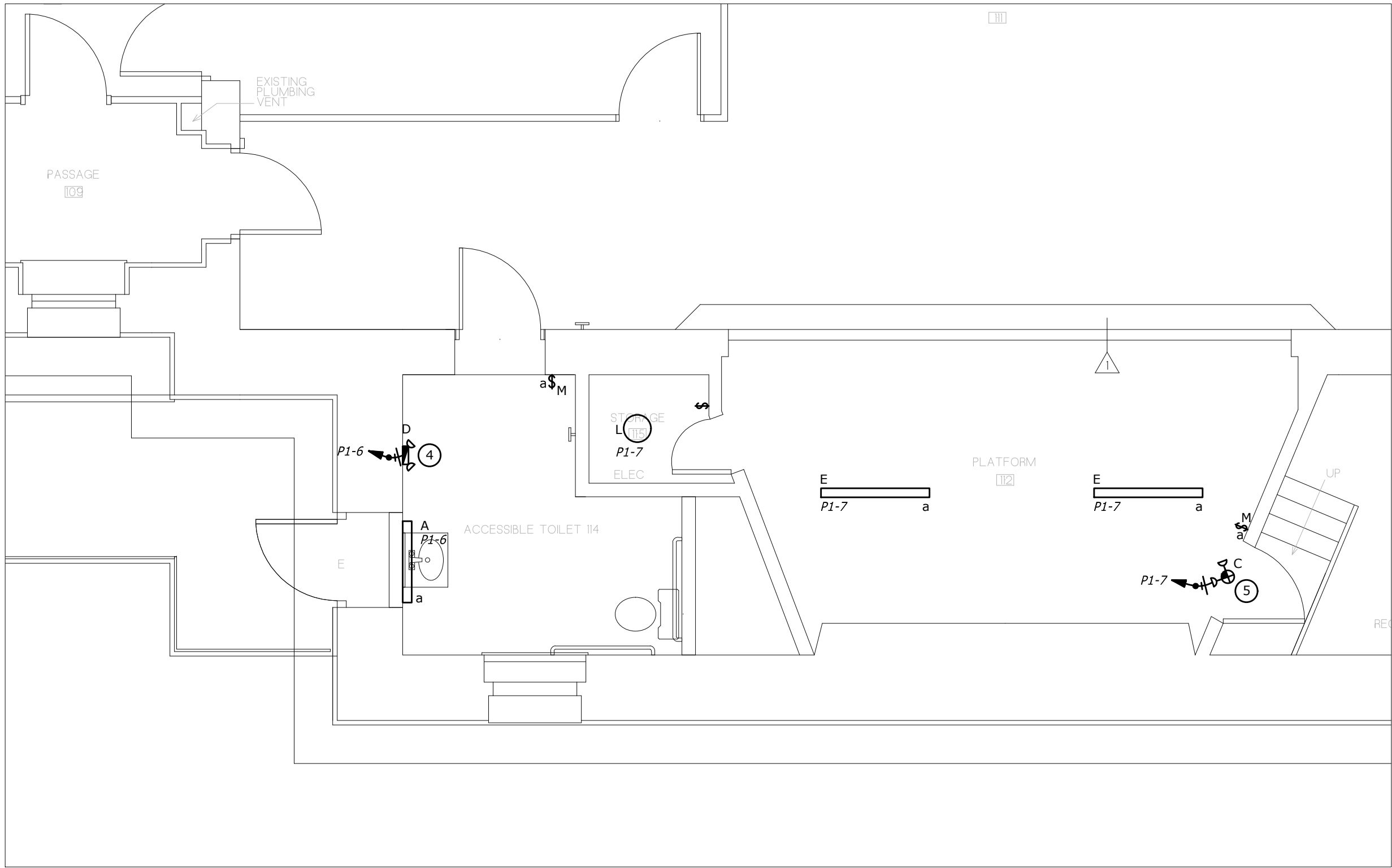


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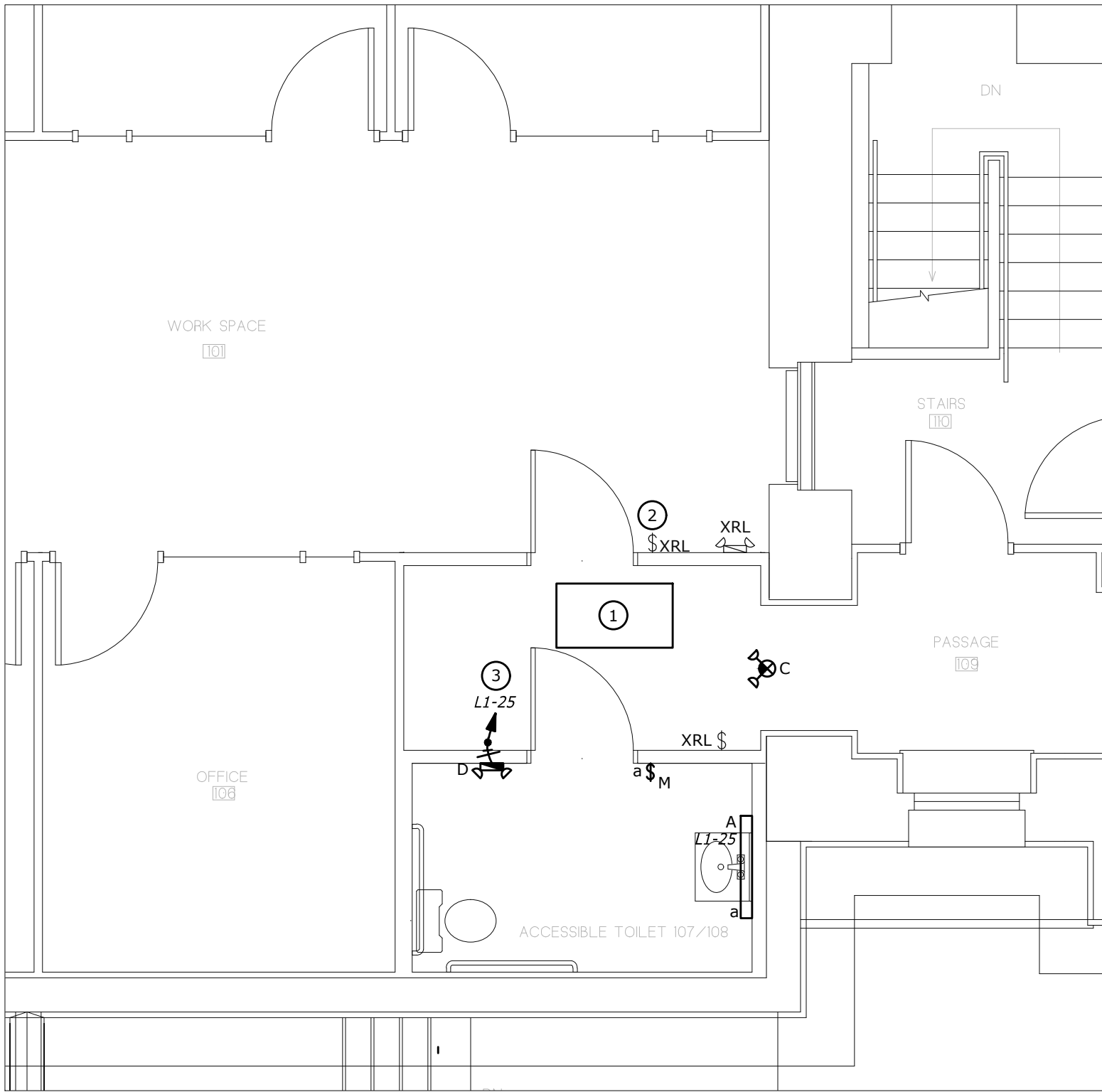
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DATE
MARCH, 2022



1 ROOM 114 - LIGHTING PLAN
1/4" = 1'-0"



2 ROOM 107 & 108 - LIGHTING PLAN
1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE						
CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	VOLTS
A		LED	MIRROR LIGHT	WALL	WAC LIGHTING WS-38024-BN	120V 1P 2W
C		LED	EXIT SIGN	WALL	SURE-LITES LPXC25SD	120V 1P 2W
D		LED	EDU	WALL	SURE-LITES SEL-50-SD WALL MOUNTED	120V 1P 2W
E		LED	SURFACE STRIP	CEILING	METALUX 4SNLED-LC-37SL-UNV-L835	120V 1P 2W
F		LED	SURFACE LINEAR WRAP	CEILING	METALUX 4NLW4040C	120V 1P 2W
F-1		LED	SURFACE LINEAR WRAP	CEILING	METALUX 4NLW4040C-EL14WE	120V 1P 2W
G		LED	SURFACE OUTDOOR	WALL	MCGRAW EDISON 1ST-SA1-A-725-U-T4-COLOR-CBP-120V-BPC-W/ EM BALLAST	120V 1P 2W
H			PADDLE FAN	CEILING	HUNTER 59136 HFC-72	120V 1P 2W
J		LED	RECESSED TROFFER	CEILING	ADVANTAGE ENVIORNMENTAL LIGHTING C243SSM	120V 1P 2W
K		LED	SURFACE OUTDOOR	CEILING	FAIL-SAFE H12S-LD4-50W-30-OPL-COLOR-120-EDC1-EL5W-PB120	120V 1P 2W
L		LED	SURFACE	CEILING	METALUX FM11WR40R	120V 1P 2W

- KEYED NOTES
- 1

CONNECT NEW 2X4 RECESSED LED TROFFER TO NEW RELOCATED SWITCH.
- 2

CONNECT NEW RELOCATED SWITCH TO EXISTING OFFICE LIGHTS.
- 3

PROVIDE 20A 1-POLE CIRCUIT BREAKER TO MATCH EXISTING IN BLANK SPACE. REVISE PANEL DIRECTORY TO REFLECT THIS ADDITIONAL CIRCUIT.
- 4

CONNECT LIGHTING CIRCUIT TO PANEL P-1 CIRCUIT #6 WHICH HAS BECOME A SPARE BY THE REMOVAL OF THE LIGHTS IN THE LIFT AREA. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
- 5

CONNECT LIGHTING CIRCUIT TO PANEL P-1 CIRCUIT #7. DISCONNECT THE EXISTING BRANCH CIRCUIT CONDUCTORS FROM THE 20/1 CIRCUIT BREAKER FOR STAGE LIGHTS WHICH ARE NOT USED. COIL UP AND IDENTIFY THESE EXISTING CONDUCTORS IN THE PANEL. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.

GENERAL NOTES

KEY PLAN

DRAWING TITLE

LIGHTING PLAN

JOB NUMBER: 1609
JOB TITLE:
INTERIOR ACCESSIBILITY RENOVATIONS
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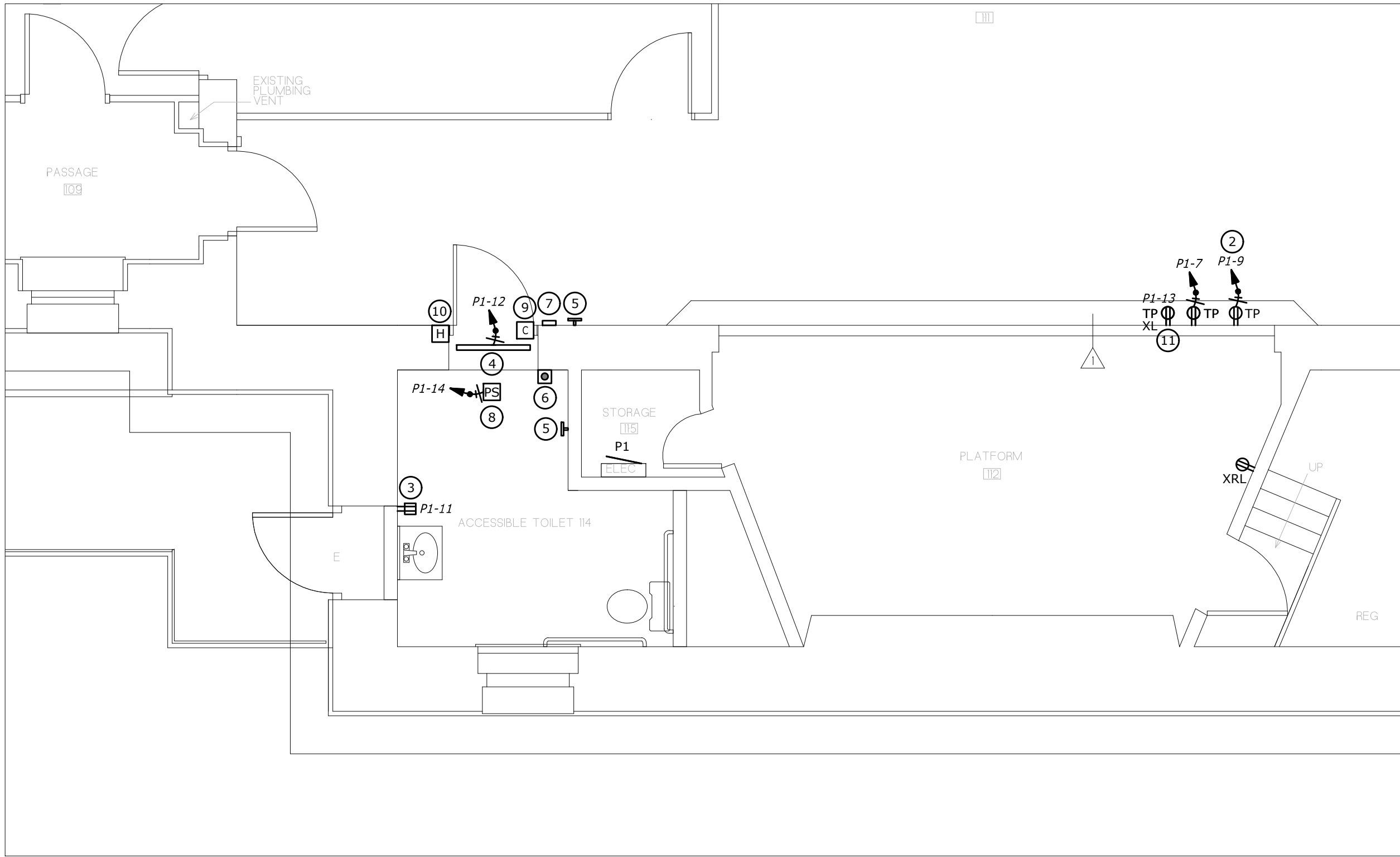
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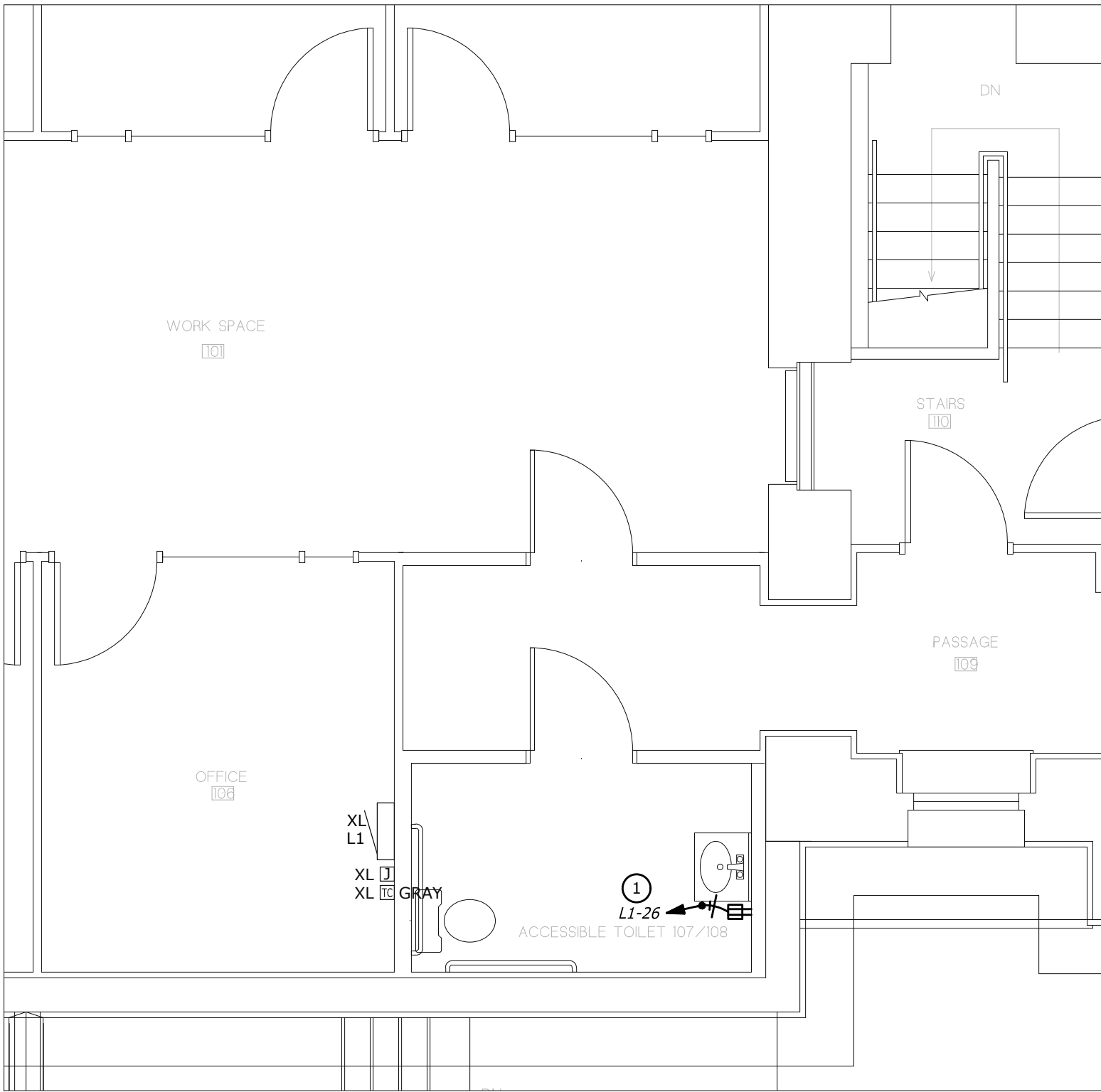
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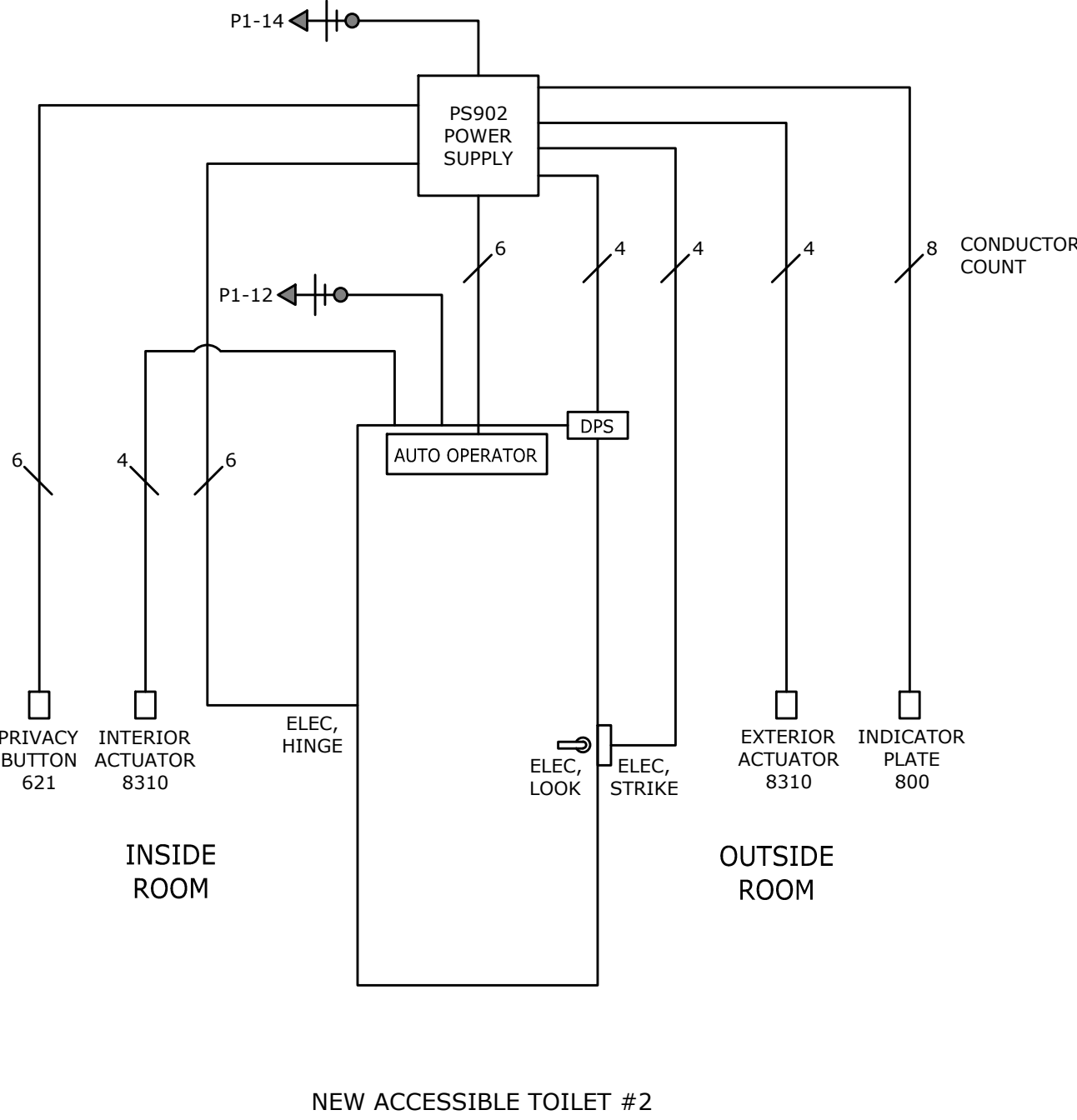
1 ROOM 114 - POWER PLAN
1/4" = 1'-0"



1 ROOM 107 & 108 - POWER PLAN
1/4" = 1'-0"

Existing Panel		MOUNTING SURFACE		VOLTS 240/120V 2P 3W	
L1				BUS AMPS 200	
CKT #	CKT BKR	CIRCUIT DESCRIPTION	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	20/2	BATH HEAT	a 2	20/1	BATH GFCI/TV MONITOR
3			b 4	20/1	LIGHTS MAIN ROOM
5	20/2	ROCHELLE HEAT	a 6	20/1	FRONT OFFICE/MAIN ROOM PLUGS
7			b 8	20/1	LIGHTS BACK OFFICE
9	20/2	HEAT	a 10	20/1	EXIT LIGHTS
11			b 12	20/1	EMERGENCY LIGHTS
13	20/2	HEAT	a 14	20/1	BASEMENT OUTLETS
15			b 16	20/1	CELLULAR LIGHTS
17	30/2	HEAT	a 18	20/1	OUTLET BASEMENT
19			b 20	20/1	OUTLET BASEMENT
21	20/1	CONTROL CIRCUIT	a 22	20/2	OFFICE HEATER
23	20/1	TIME CLOCK SIGN	b 24		
25	-/1	SPACE	a 26	-/1	SPACE
27	-/1	SPACE	b 28	-/1	SPACE
29	-/1	SPACE	a 30	-/1	SPACE

Existing Panel		MOUNTING SURFACE		VOLTS 240/120V 2P 3W	
P1				BUS AMPS 100	
CKT #	CKT BKR	CIRCUIT DESCRIPTION	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	20/1	LIGHTS MAIN HALL	a 2	20/1	EXTERIOR LIGHTS
3	20/1	LIGHTS MAIN HALL	b 4	20/1	OUTSIDE LIGHTS AND PLUGS - FRONT
5	20/1	LIGHTS MAIN HALL	a 6	20/1	LIGHTS OVER LIFTS
7	20/1	STAGE LIGHTS	b 8	20/1	BATTERY UNIT
9	20/1	STAGE LIGHTS	a 10	20/1	BACK STAIR LIGHTS
11	20/1	STAGE LIGHTS	b 12	20/1	UPPER LIFT
13	20/1	KITCHEN LIGHT/DOOR LIGHT/STAGE PLUG	a 14	20/1	LOWER LIFT
15	20/1	PLUGS SOUTH WALL	b 16	20/1	KITCHEN PLUGS
17	20/1	CLOCK AND SPOT LIGHT	a 18	20/1	KITCHEN PLUGS
19	20/1	UNMARKED	b 20	20/1	PLUGS NORTH AND SOUTH WALL
21	20/1	UNMARKED	a 22	20/1	PLUGS NORTH WALL
23	20/1	UNMARKED	b 24	20/1	EXIT LIGHTS
25	20/1	UNMARKED	a 26	20/1	TELEPHONE OUTLET
27	20/1	UNMARKED	b 28	20/1	UNMARKED
29	20/1	UNMARKED	a 30	-/1	SPACE



- NOTES:
- MULTICONDUCTOR CABLES TO BE #18 AWG SOLID COPPER PLENUM RATED
 - WALL MOUNTED DEVICES TO HAVE AN OUTLET BOX AND 3/4" EMT SLEEVE TO ABOVE THE DROP CEILING
 - CABLING TO THE ELECTRIC DOOR STRIKE AND ELECTRIC HINGE TO BE IN FLEXIBLE METALLIC CONDUIT

- DRAWING KEYED NOTES
- PROVIDE 20A 1-POLE CIRCUIT BREAKER TO MATCH EXISTING IN BLANK SPACE. REVISE PANEL DIRECTORY TO REFLECT THIS ADDITIONAL CIRCUIT.
 - CONNECT RECEPTACLE CIRCUIT TO PANEL P-1 CIRCUIT #9. DISCONNECT THE EXISTING BRANCH CIRCUIT CONDUCTORS FROM THE 20/1 CIRCUIT BREAKER FOR STAGE LIGHTS WHICH ARE NOT USED. COIL UP AND IDENTIFY THESE EXISTING CONDUCTORS IN THE PANEL. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - CONNECT RECEPTACLE CIRCUIT TO PANEL P-1 CIRCUIT #11. DISCONNECT THE EXISTING BRANCH CIRCUIT CONDUCTORS FROM THE 20/1 CIRCUIT BREAKER FOR STAGE LIGHTS WHICH ARE NOT USED. COIL UP AND IDENTIFY THESE EXISTING CONDUCTORS IN THE PANEL. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - ELECTROHYDRAULIC DOOR CLOSER. CONNECT CIRCUIT TO PANEL P-1 CIRCUIT #12 WHICH HAS BECOME A SPARE BY THE REMOVAL OF THE UPPER LIFT. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - PUSH PLATE DOOR ACTUATOR
 - PRIVACY LOCK PUSH BUTTON
 - OCCUPANCY INDICATOR
 - POWER SUPPLY ABOVE DROP CEILING
 - DOOR POSITION CONTACT
 - ELECTRIC HINGE
 - NEW LOCATION OF EXISTING STAGE RECEPTACLE.

- PANEL SCHEDULE KEYED NOTES
- PROVIDE 20A 1-POLE CIRCUIT BREAKER TO MATCH EXISTING IN BLANK SPACE. #25 IN PANEL L1 REVISE PANEL DIRECTORY TO REFLECT THIS ADDITIONAL CIRCUIT.
 - CONNECT LIGHTING CIRCUIT TO PANEL P-1 CIRCUIT #6 WHICH HAS BECOME A SPARE BY THE REMOVAL OF THE LIGHTS IN THE LIFT AREA. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - CONNECT LIGHTING CIRCUIT TO PANEL P-1 CIRCUIT #7. DISCONNECT THE EXISTING BRANCH CIRCUIT CONDUCTORS FROM THE 20/1 CIRCUIT BREAKER FOR STAGE LIGHTS WHICH ARE NOT USED. COIL UP AND IDENTIFY THESE EXISTING CONDUCTORS IN THE PANEL. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - PROVIDE 20A 1-POLE CIRCUIT BREAKER TO MATCH EXISTING IN BLANK SPACE. #26 IN PANEL L1 REVISE PANEL DIRECTORY TO REFLECT THIS ADDITIONAL CIRCUIT.
 - CONNECT RECEPTACLE CIRCUIT TO PANEL P-1 CIRCUIT #9. DISCONNECT THE EXISTING BRANCH CIRCUIT CONDUCTORS FROM THE 20/1 CIRCUIT BREAKER FOR STAGE LIGHTS WHICH ARE NOT USED. COIL UP AND IDENTIFY THESE EXISTING CONDUCTORS IN THE PANEL. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - CONNECT RECEPTACLE CIRCUIT TO PANEL P-1 CIRCUIT #11. DISCONNECT THE EXISTING BRANCH CIRCUIT CONDUCTORS FROM THE 20/1 CIRCUIT BREAKER FOR STAGE LIGHTS WHICH ARE NOT USED. COIL UP AND IDENTIFY THESE EXISTING CONDUCTORS IN THE PANEL. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - ELECTROHYDRAULIC DOOR CLOSER. CONNECT CIRCUIT TO PANEL P-1 CIRCUIT #12 WHICH HAS BECOME A SPARE BY THE REMOVAL OF THE UPPER LIFT. REVISE PANEL DIRECTORY TO REFLECT THIS CIRCUIT CHANGE.
 - CONNECT NEW BATHROOM ELECTRIC CABINET HEATER TO PANEL L1 CIRCUITS 1,3. DISCONNECT AND REMOVE THE EXISTING BATHROOM HEAT CIRCUIT CONDUCTORS FROM THE 20/2 CIRCUIT BREAKER. REVISE PANEL DIRECTORY TO REFLECT THIS CHANGE.
 - CONNECT NEW OFFICE ELECTRIC CABINET HEATER TO PANEL L1 CIRCUITS 22,24. DISCONNECT AND REMOVE THE EXISTING OFFICE HEAT CIRCUIT CONDUCTORS FROM THE 20/2 CIRCUIT BREAKER.
 - PROVIDE A 20A 1-POLE CIRCUIT BREAKER TO MATCH EXISTING IN BLANK SPACE #30 IN PANEL P1 FOR THE NEW BATHROOM ELECTRIC CABINET HEATER.
 - POWER SUPPLY. CONNECT CIRCUIT TO PANEL P-1 CIRCUIT #14 WHICH HAS BECOME A SPARE BY THE REMOVAL OF THE LOWER LIFT. REVISE PANEL DIRECTORY TO REFLECT CHANGES

GENERAL NOTES

KEY PLAN

DRAWING TITLE

POWER PLAN

JOB NUMBER: 1609
JOB TITLE:
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

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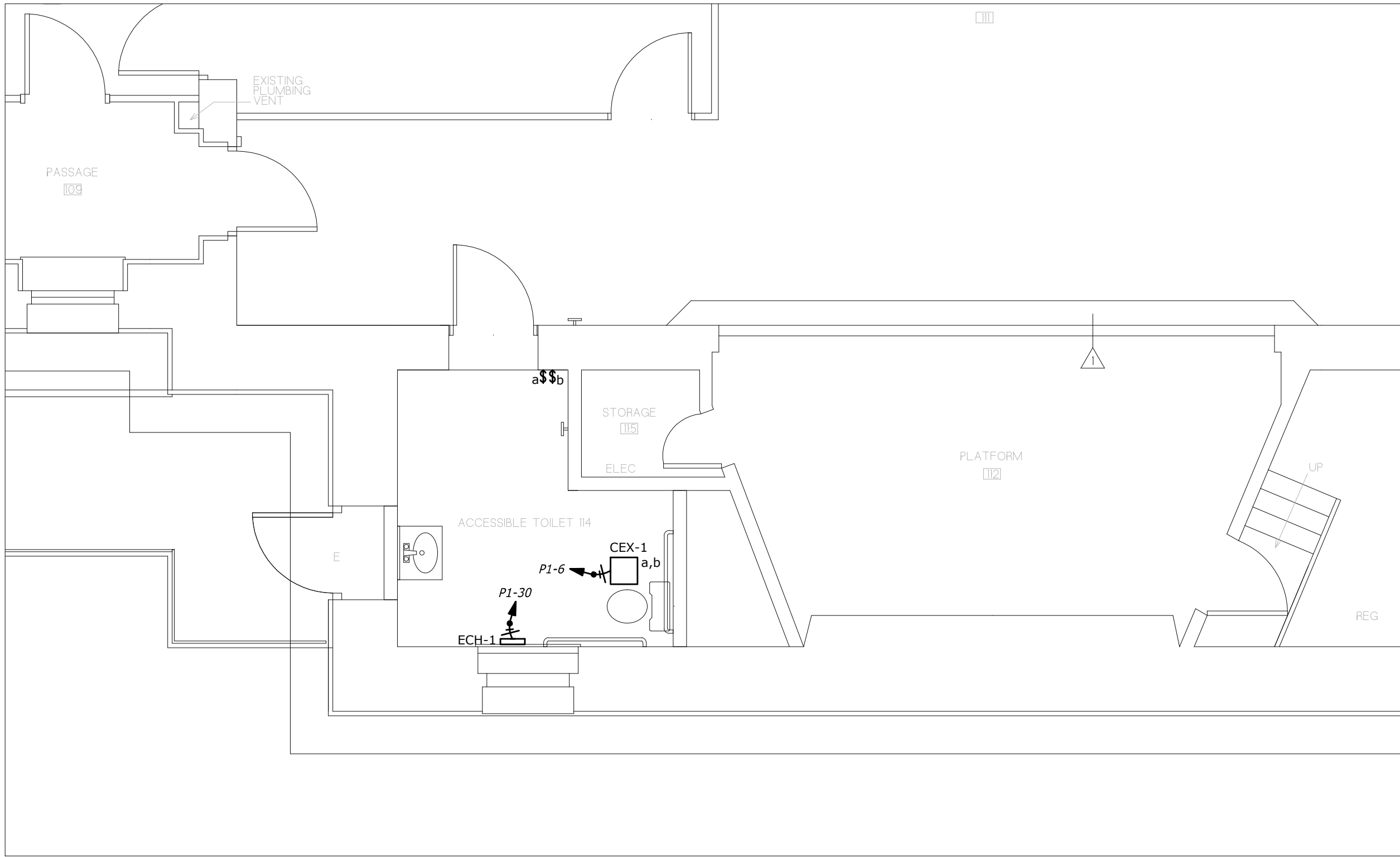
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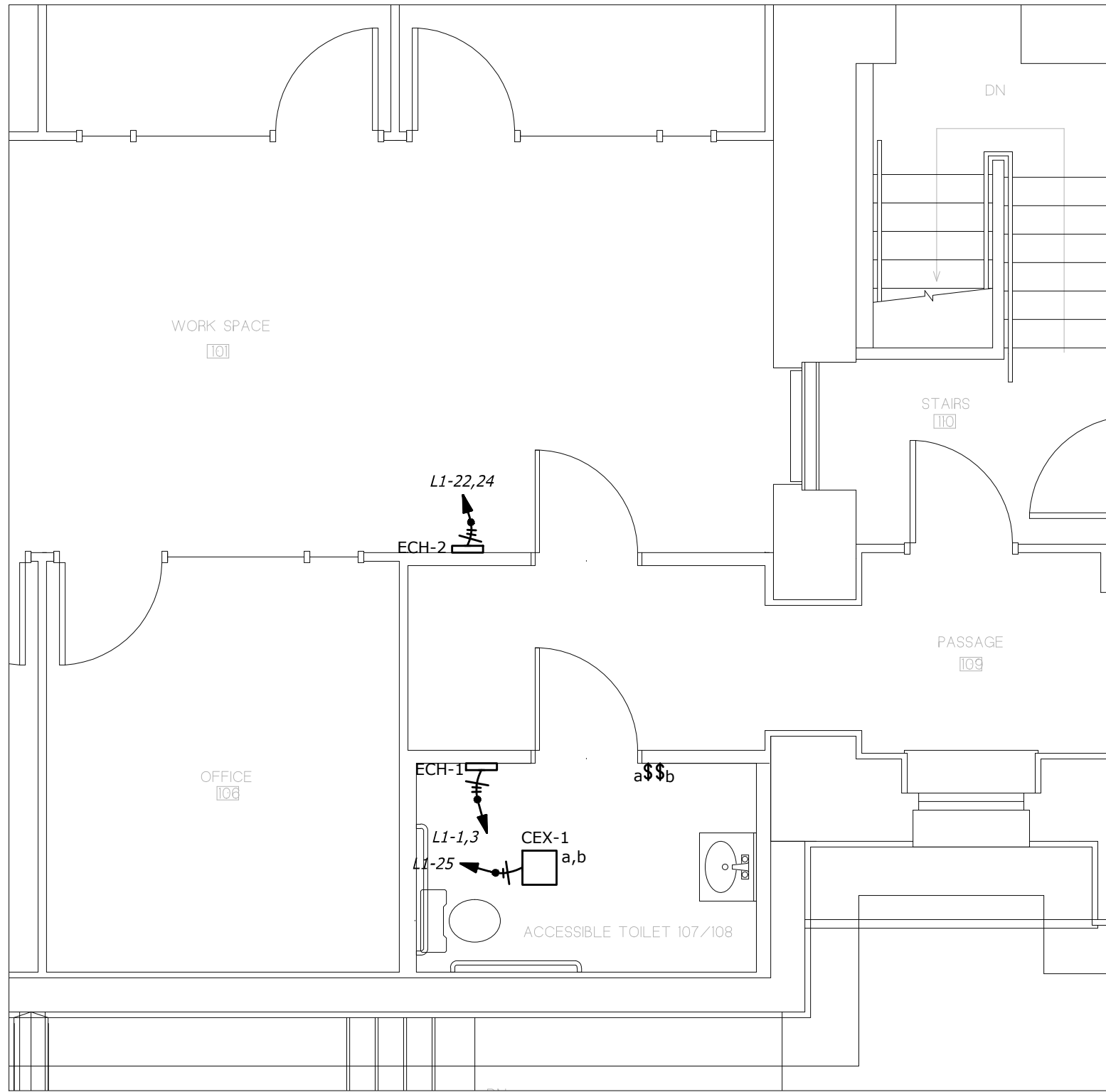
E2

SCALE
AS NOTED

DATE
MARCH, 2022



1 ROOM 114 - HAVC POWER PLAN
1/4" = 1'-0"



1 ROOM 107 & 108 - HVAC POWER PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE												
EQUIPMENT TAG	DESCRIPTION	HP	FLA	MCA	MOCP	VOLTS/ PHASE	TRIP/ POLE	CONNECTION	DISC./ FUSE	NEMA	CIRCUIT	FEEDER
CEX-1	EXHAUST FAN /LIGHT ACCESSIBLE TOILET 114		0.19A			120V 1P 2W	20/1	\$			P1-6	3/4"C,2#12,#12G
CEX-1	EXHAUST FAN/LIGHT ACCESSIBLE TOILET 108/109		0.19A			120V 1P 2W	20/1	\$			L1-25	3/4"C,2#12,#12G
ECH-1	ELECTRIC CABINET HEATER 114		8.33A			120V 1P 2W	20/1	\$			P1-30	3/4"C,2#12,#12G
ECH-1	ELECTRIC CABINET HEATER 108/109		4.8A			240/120V 2P 3W	20/2	\$			L1-1,3	3/4"C,3#12,#12G
ECH-2	ELECTRIC CABINET HEATER OFFICE		8.65A			240/120V 2P 3W	20/2	\$			L1-22,24	3/4"C,3#12,#12G
EF-1	ROOF EXHAUST FAN	1/2 HP	9.8A		20	120V 1P 2W	20/1	\$†			MDP-19	3/4"C,2#12,#12G
EF-2	ROOF EXHAUST FAN	1/2 HP	9.8A		20	120V 1P 2W	20/1	\$†			MDP-21	3/4"C,2#12,#12G
EF-3	ROOF EXHAUST FAN	1/6 HP	4.4A		20	120V 1P 2W	20/1	\$†			MDP-1	3/4"C,2#12,#12G

GENERAL NOTES

KEY PLAN

DRAWING TITLE

HVAC POWER PLAN

JOB NUMBER: 1609
JOB TITLE:
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
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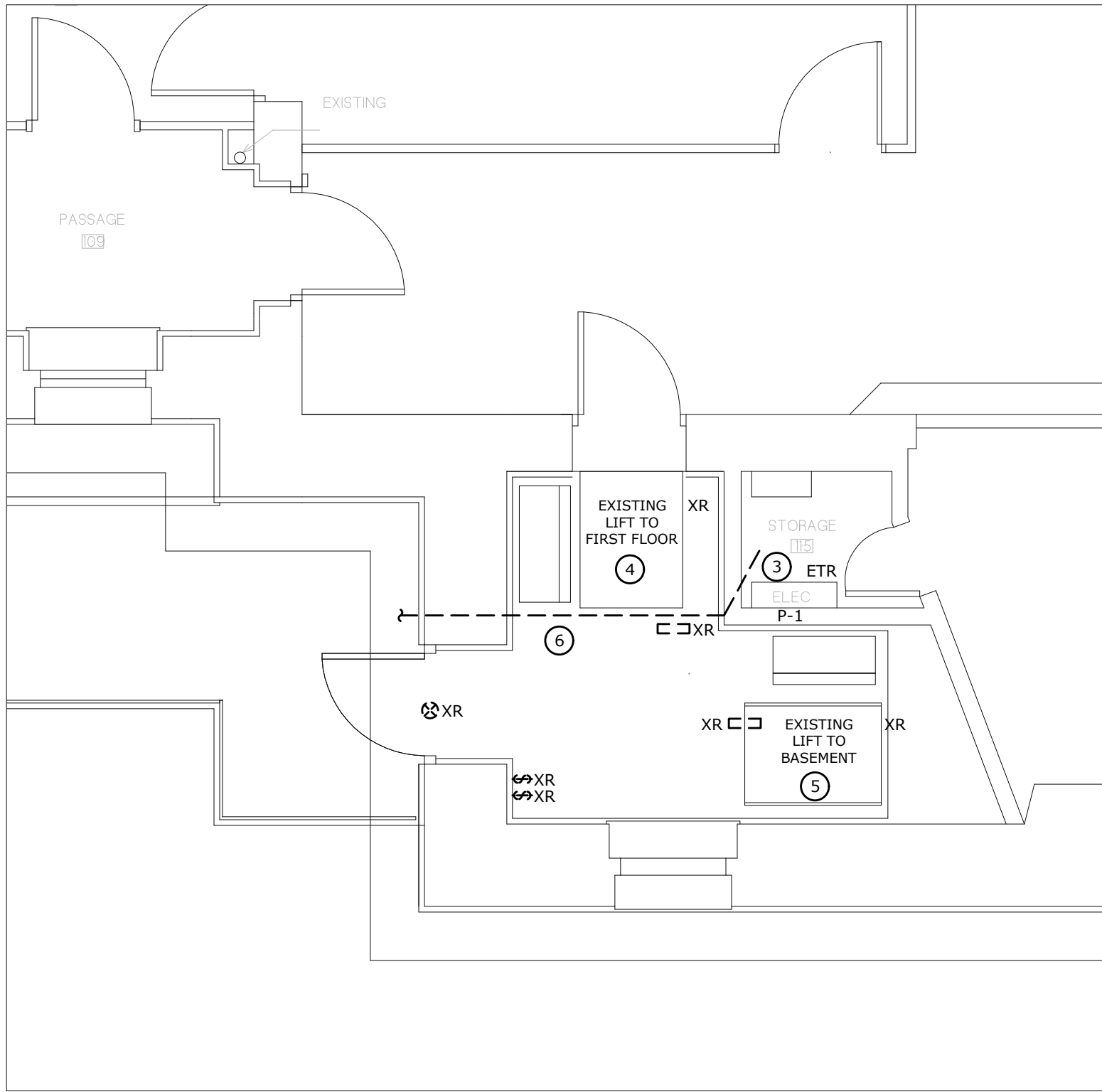
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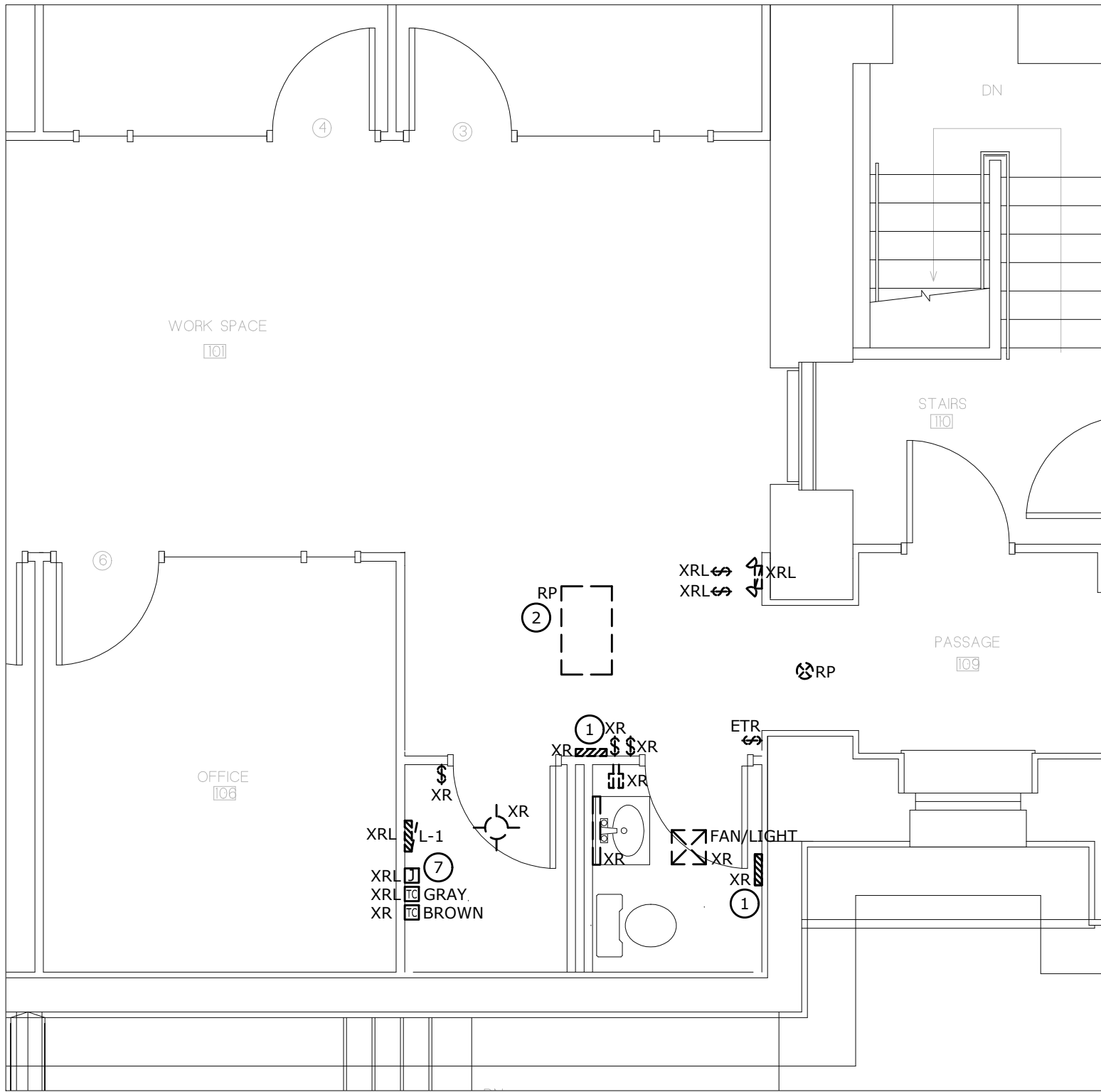
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1 ROOM 114 - DEMOLOTION PLAN
1/4" = 1'-0"



1 ROOM 107 & 108 - DEMOLITION PLAN
1/4" = 1'-0"

- KEYED NOTES
- EXISTING ELECTRIC SURFACE WALL HEATERS TO BE REMOVED.
 - EXISTING RECESSED FLUORESCENT TROFFER TO BE REPLACED AND HAVE NEW SWITCH DESIGNATION.
 - EXISTING SQUARE D PANEL P-1 CONTAINING CIRCUITS FOR FIRST FLOOR LIFTS.
 - EXISTING SQUARE D PANEL P-1 CIRCUIT #12 20/1 CIRCUIT BREAKER.
 - EXISTING SQUARE D PANEL P-1 CIRCUIT #14 20/1 CIRCUIT BREAKER.
 - RELOCATE TWO (2) EXISTING TEL/DATA CABLES ENTERING FROM THE BUILDING EXTERIOR, RUNNING THROUGH THE LIFT ROOM, AND TERMINATING IN THE ELECTRIC ROOM.
 - EXISTING SURFACE MOUNTED PANEL L-1, RELAY JUNCTION BOX, AND TWO (2) TIME CLOCKS. ROTATE 180° INTO OFFICE IN NEW WALL. DISCONNECT AND REMOVE THE EXISTING "BROWN" TIME CLOCK, AND RETURN TO OWNER. REFERENCE DRAWING A-2.

GENERAL NOTES

KEY PLAN

DRAWING TITLE
DEMOLITION PLAN

JOB NUMBER: 1609
JOB TITLE:
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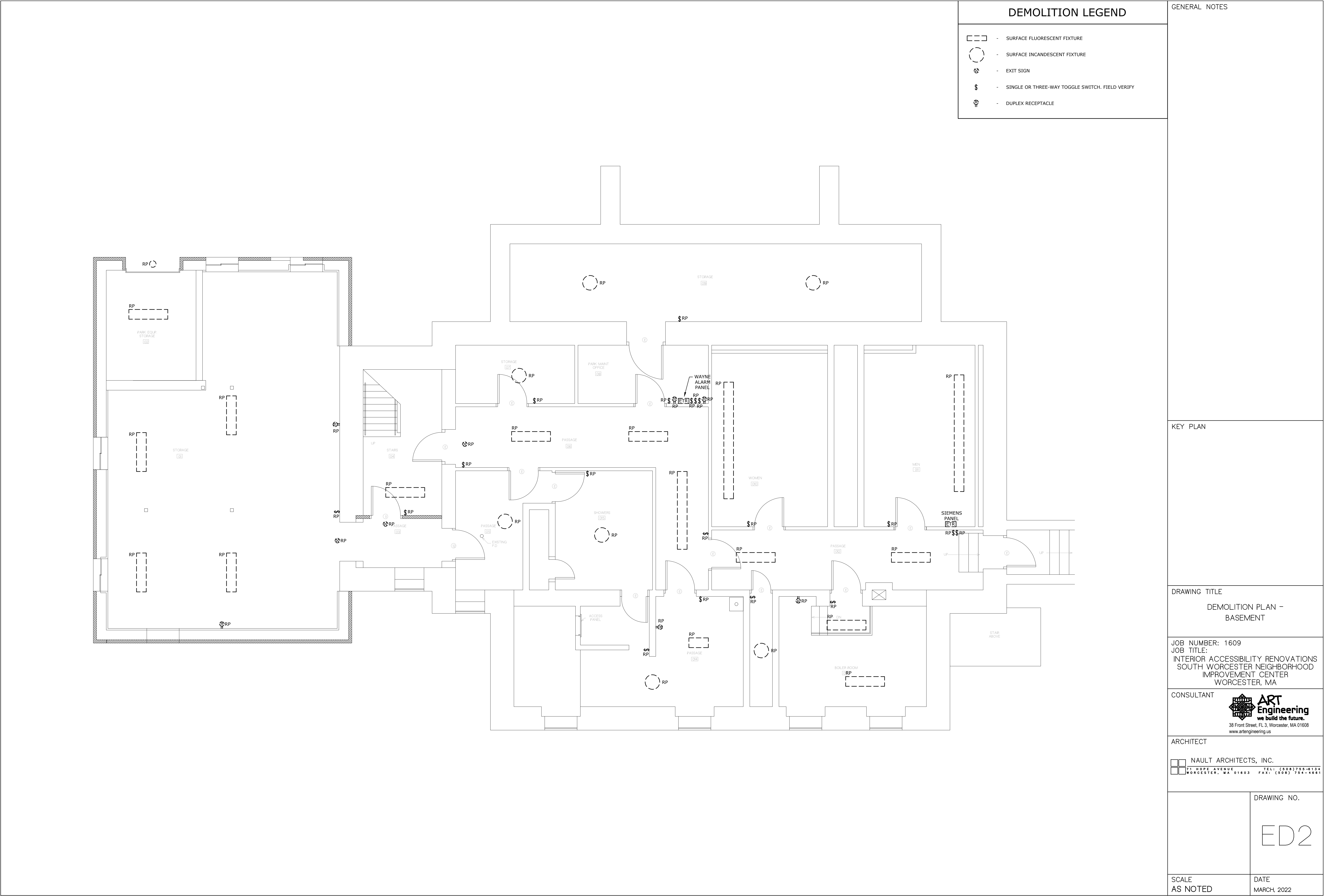
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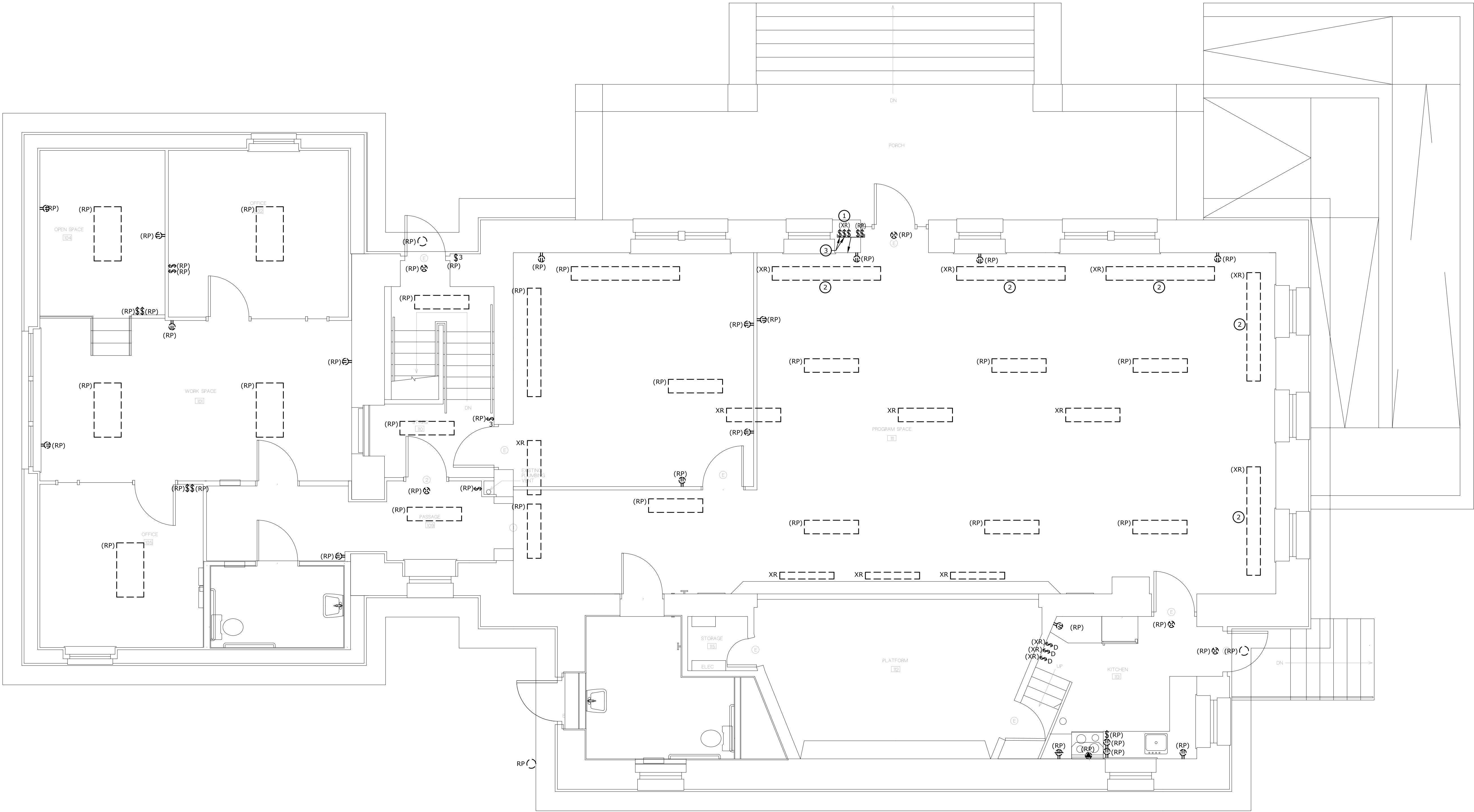
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ED1

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AS NOTED

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MARCH, 2022





- KEYED NOTES
- ① REMOVE SWITCH AND PROVIDE BLANK INSERT IN DEVICE PLATE.
 - ② PROVIDE BLANK ON EXISTING OUTLET UPON FIXTURE REMOVAL.
 - ③ CONFIRM THAT THESE SWITCHES CONTROL THE PERIMETER FIXTURES ON THE ANGLED CEILINGS BEFORE REMOVAL.

GENERAL NOTES

KEY PLAN

DRAWING TITLE
DEMOLITION PLAN -
FIRST FLOOR

JOB NUMBER: 1609
JOB TITLE:
INTERIOR ACCESSIBILITY RENOVATIONS
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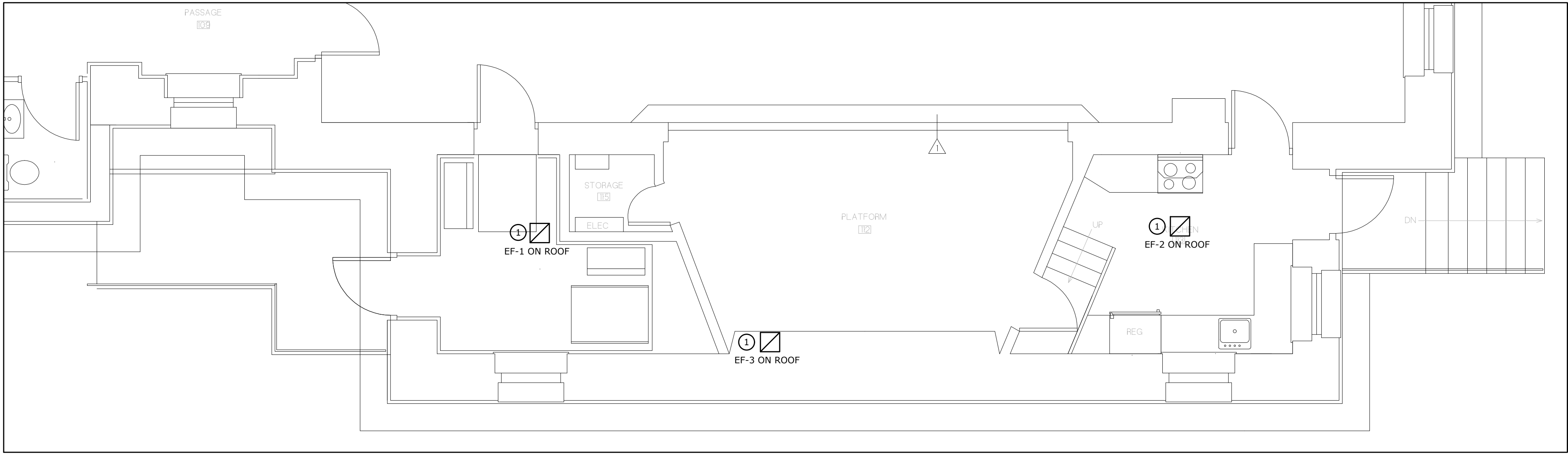
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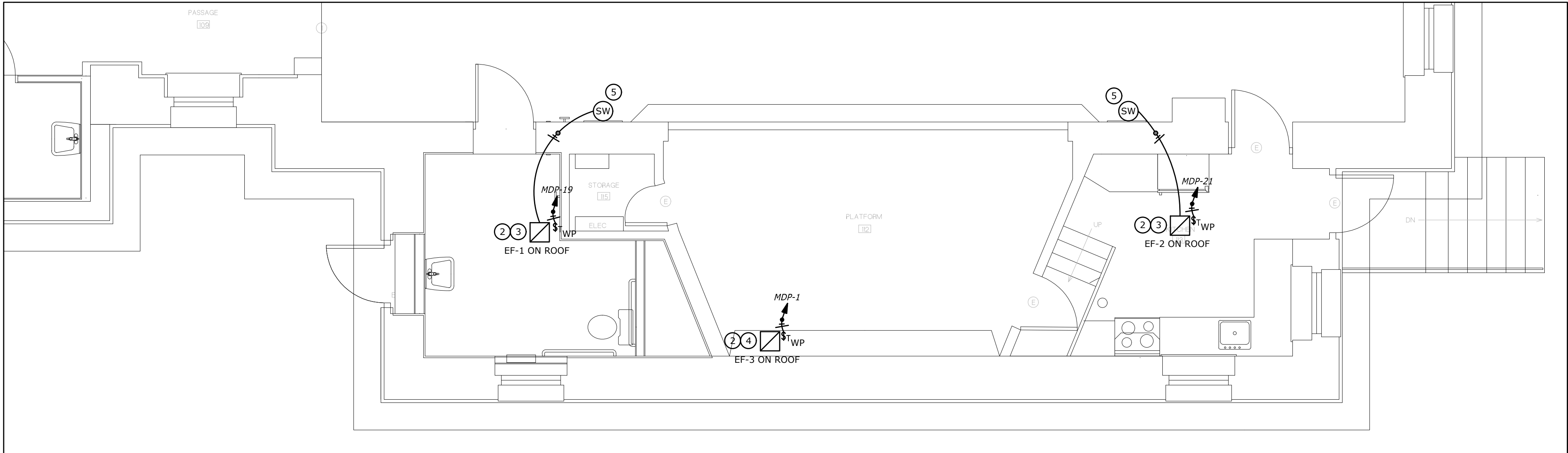
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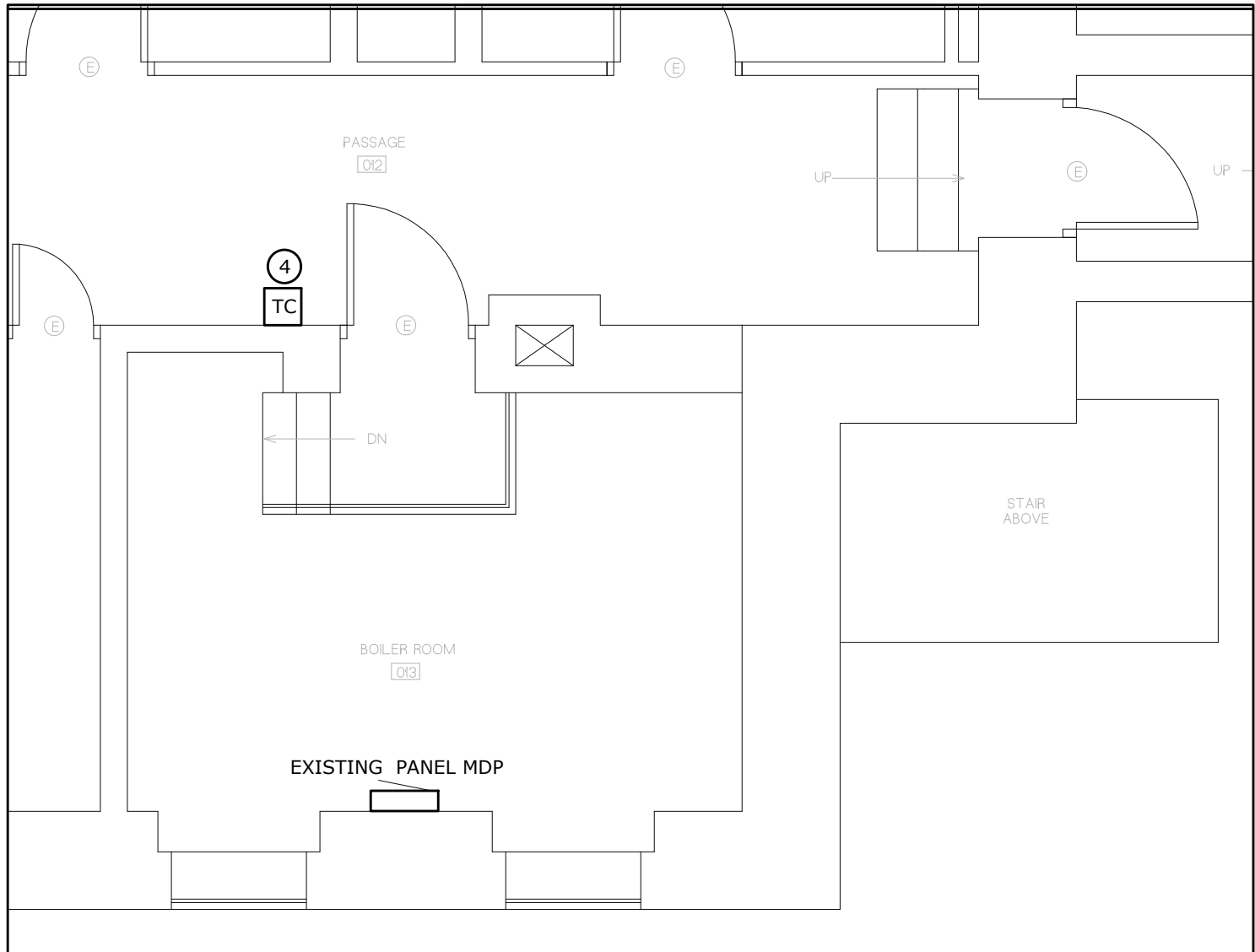
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1 DEMOLITION - PARTIAL FIRST FLOOR PLAN
1/4" = 1'-0"



1 PROPOSED - PARTIAL FIRST FLOOR PLAN
1/4" = 1'-0"



3 PARTIAL BASEMETN PLAN
1/4" = 1'-0"

- KEYED NOTES
- 1 DISCONNECT EXISTING EXHAUST FAN.
 - 2 RECONNECT AND RE-CIRCUIT NEW REPLACEMENT EXHAUST FANS.
 - 3 PROVIDE NEW 20A 1-POLE CIRCUIT BREAKER IN EXISTING BASEMENT PANEL MDP.
 - 4 CIRCUIT EF-3 THROUGH BASEMENT TIME CLOCK PROVIDED BY HVAC CONTRACTOR.
 - 5 WALL FAN ON/OFF SWITCH FURNISHED BY HVAC CONTRACTOR, AND INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. REFERENCE DRAWING H-2

GENERAL NOTES

KEY PLAN

DRAWING TITLE
ELECTRICAL HVAC
POWER REPLACEMENT
PLAN

JOB NUMBER: 1609
JOB TITLE:
INTERIOR ACCESSIBILITY RENOVATIONS
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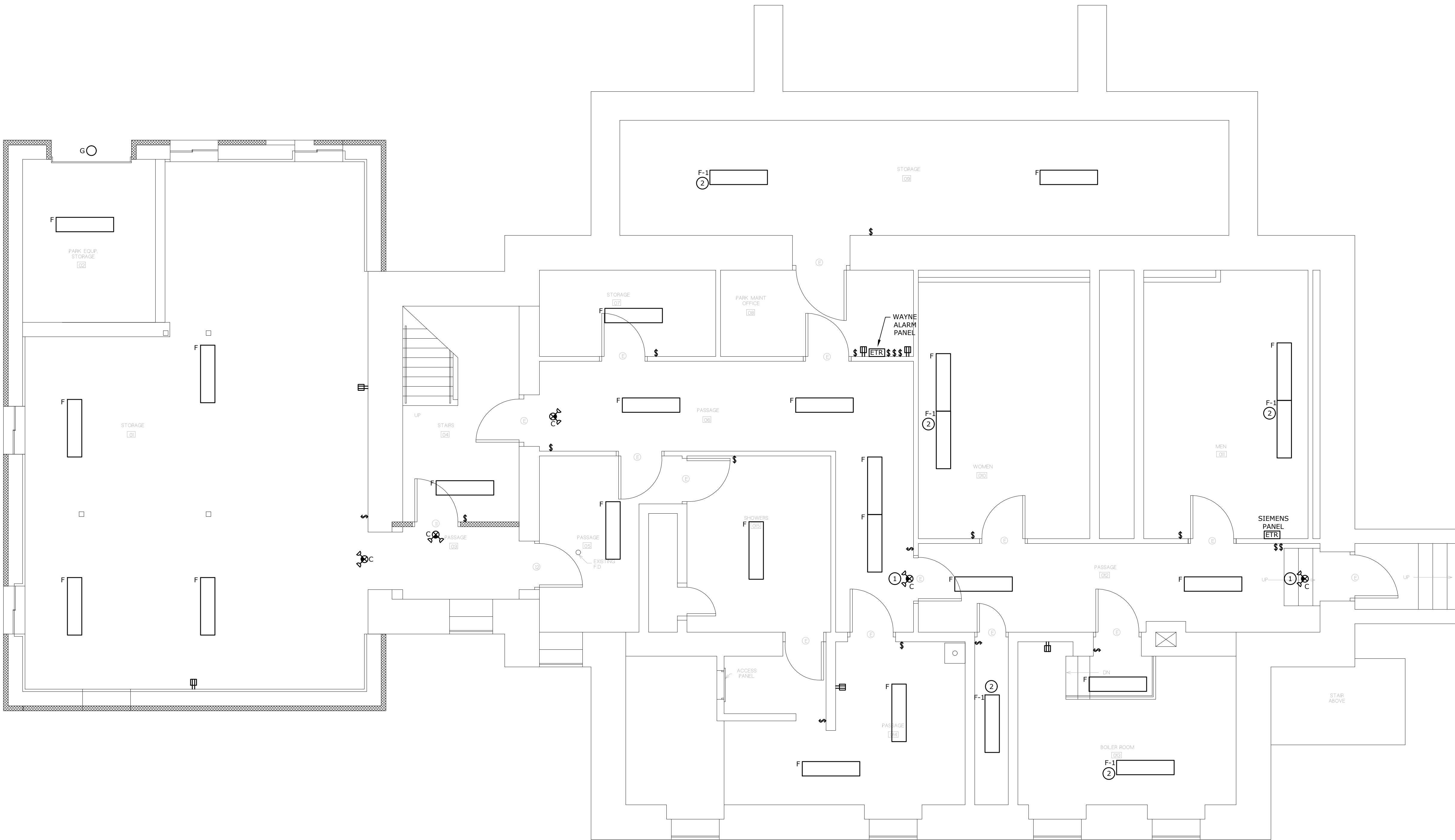
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DRAWING NO.

EH1

SCALE
AS NOTED

DATE
MARCH, 2022



- GENERAL NOTES
1.

ALL EXISTING LIGHTING FIXTURES AND WIRING DEVICES ARE BEING REPLACED.
2.

ALL EXISTING WIRING DEVICES AND DEVICE PLATES TO BE REPLACED WITH NEW. PROVIDE A #12 AWG CU BONDING JUMPER FROM THE GROUND TERMINAL ON EACH NEW WIRING DEVICE TO THE EXISTING OUTLET BOX. CONFIRM THAT THE EXISTING OUTLET BOXES ARE GROUNDED THROUGH EITHER THE CONDUIT OR CABLE SYSTEMS.
- KEYED NOTES
- 1

NEW FIXTURE LOCATION. CONNECT TO NEAREST UNSWITCHED LIGHTING CIRCUIT LOCATION IN HALLWAY.
- 2

CONNECT TO NEAREST UNSWITCHED LIGHTING CIRCUIT LOCATION IN ROOM.

GENERAL NOTES

KEY PLAN

DRAWING TITLE
ELECTRICAL
REPLACEMENT PLAN -
BASEMENT

JOB NUMBER: 1609
JOB TITLE:
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SOUTH WORCESTER NEIGHBORHOOD
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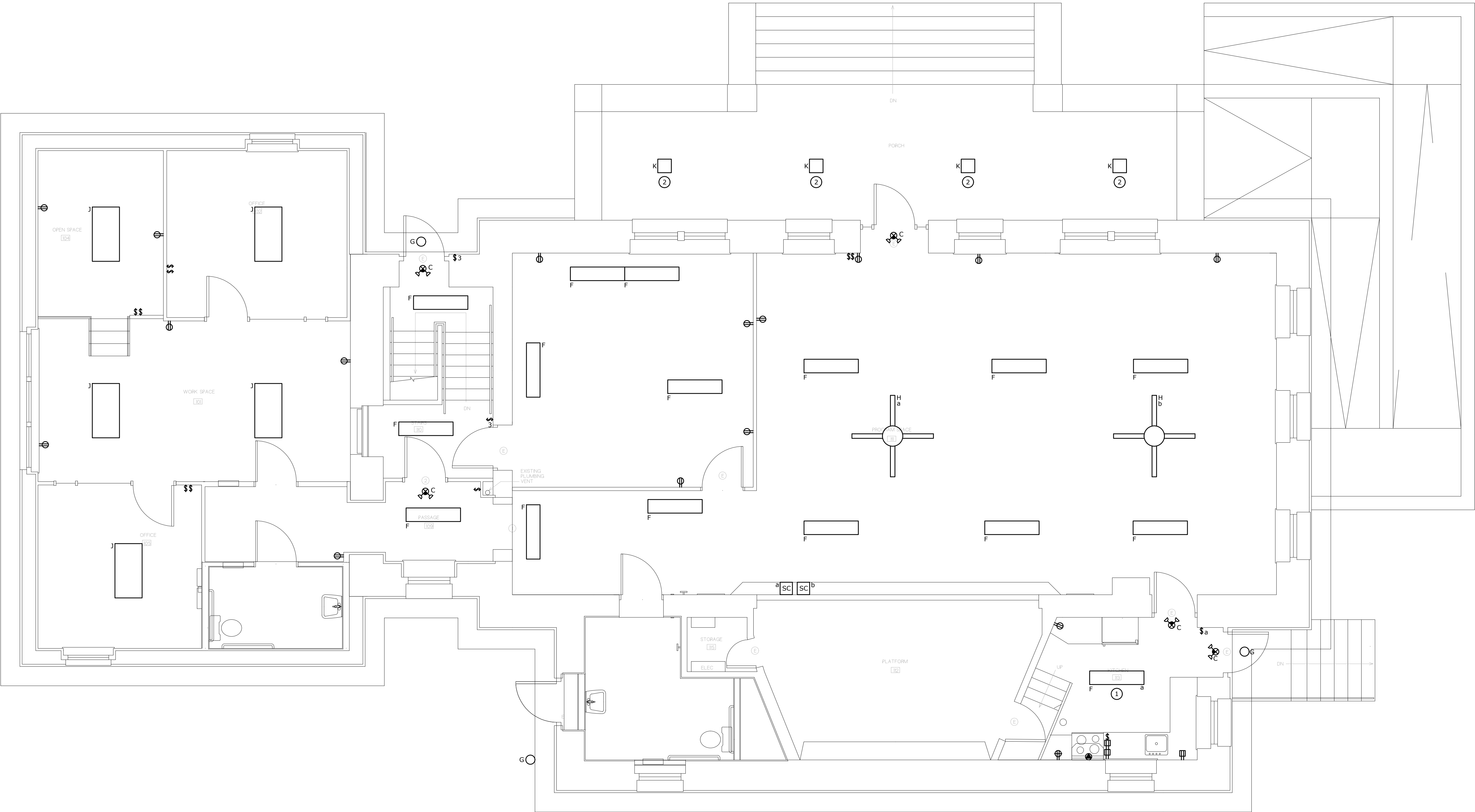
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DRAWING NO.

ER1

SCALE
1/4" = 1'-0"

DATE
MARCH, 2022



- GENERAL NOTES
1. ALL EXISTING LIGHTING FIXTURES AND WIRING DEVICES ARE BEING REPLACED.
 2. ALL EXISTING WIRING DEVICES AND DEVICE PLATES TO BE REPLACED WITH NEW. PROVIDE A #12 AWG CU BONDING JUMPER FROM THE GROUND TERMINAL ON EACH NEW WIRING DEVICE TO THE EXISTING OUTLET BOX. CONFIRM THAT THE EXISTING OUTLET BOXES ARE GROUNDED THROUGH EITHER THE CONDUIT OR CABLE SYSTEMS.
- KEYED NOTES
- ① NEW FIXTURE LOCATION. CONNECT TO NEAREST UNSWITCHED LIGHTING CIRCUIT LOCATION IN HALLWAY.
 - ② PROVIDE NEW FIXTURE ON EXISTING OUTLET. IDENTIFY THE EXISTING CIRCUIT AND LEAVE "ON" AS FIXTURES ARE PHOTOCELL CONTROLLED.

GENERAL NOTES

KEY PLAN

DRAWING TITLE
ELECTRICAL
REPLACEMENT PLAN -
FIRST FLOOR

JOB NUMBER: 1609
JOB TITLE:
INTERIOR ACCESSIBILITY RENOVATIONS
SOUTH WORCESTER NEIGHBORHOOD
IMPROVEMENT CENTER
WORCESTER, MA

CONSULTANT

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ARCHITECT
 NAULT ARCHITECTS, INC.
27 HOPE AVENUE
WORCESTER, MA 01603
TEL: (508) 755-4134
FAX: (508) 754-4661

DRAWING NO.

ER2

SCALE
1/4" = 1'-0"

DATE
MARCH, 2022