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BURNCOAT MIDDLE SCHOOL
ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC
SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

CONSTRUCTION DOCUMENTS

MAY 22, 2023

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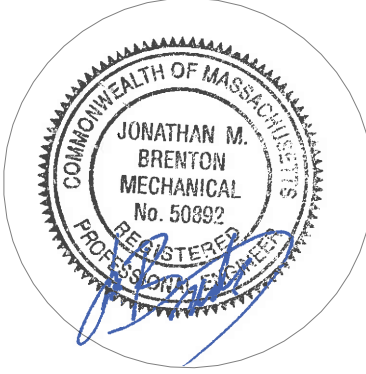


MECHANICAL ENGINEER

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63 FRANKLIN STREET, 5TH FLOOR
BOSTON, MA 02110

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ARCENGRS.COM



OWNER/AWARDING AUTHORITY

CITY OF WORCESTER - PURCHASING
DIVISION

455 MAIN STREET - ROOM 201
WORCESTER, MA 01608

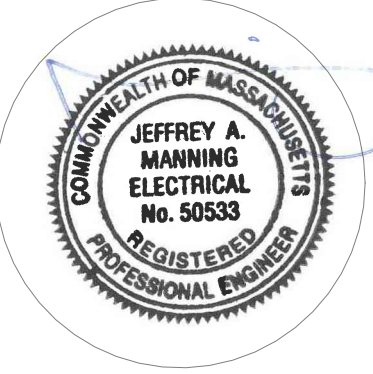
TEL: 508-799-1297

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WORCESTER PUBLIC SCHOOLS
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PLUMBING ENGINEER

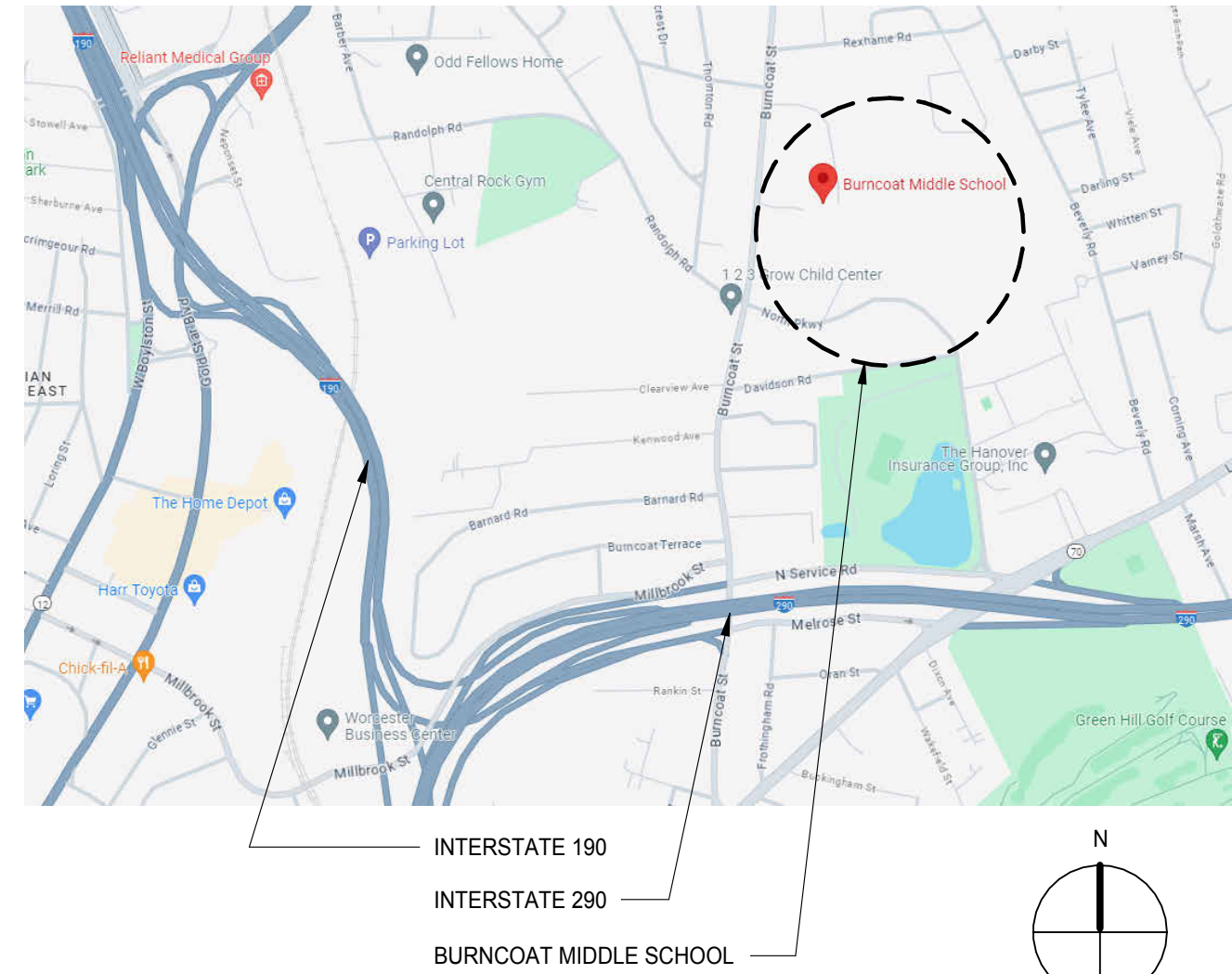
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LOCUS PLAN (NOT TO SCALE)



REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 2124.15

DATE: 05/22/24

SCALE: 1/8" = 1'-0"

DRAWN BY: TP

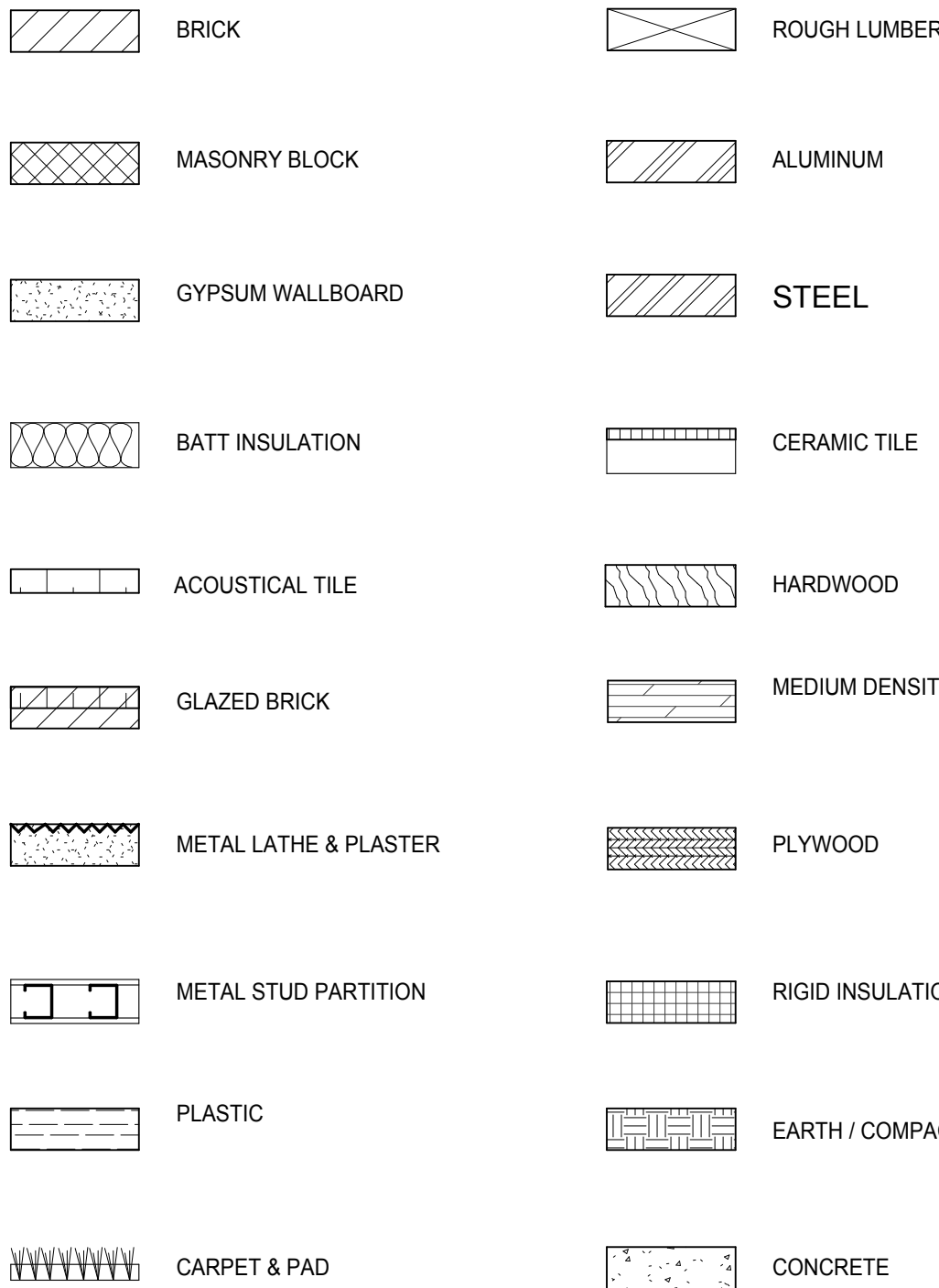
CHECKED BY: KP

COVER SHEET

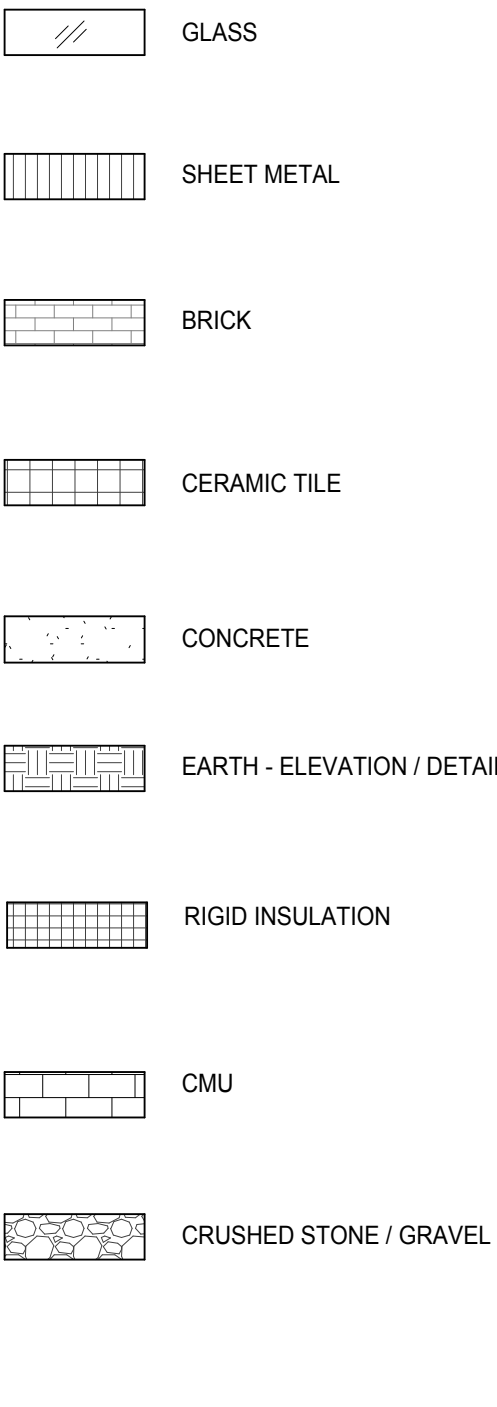
G-001

SYMBOLS

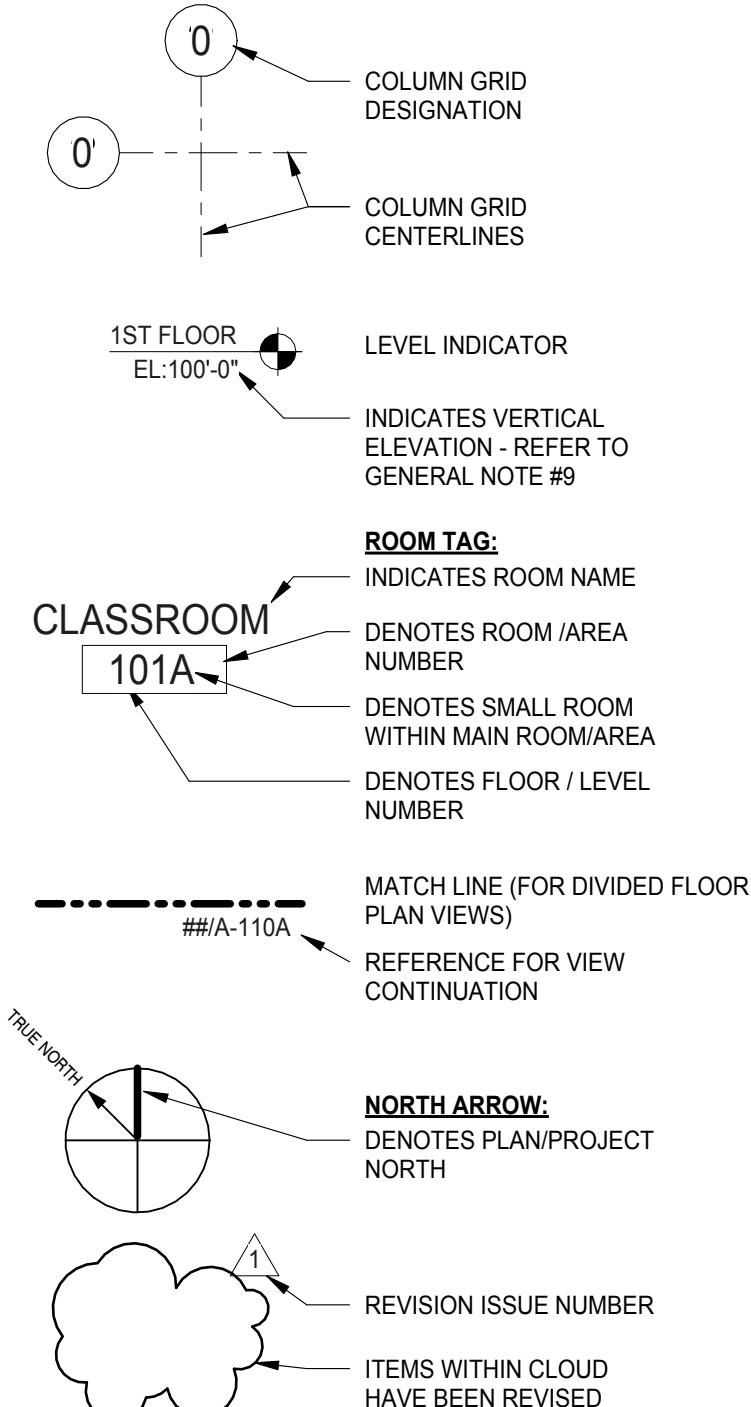
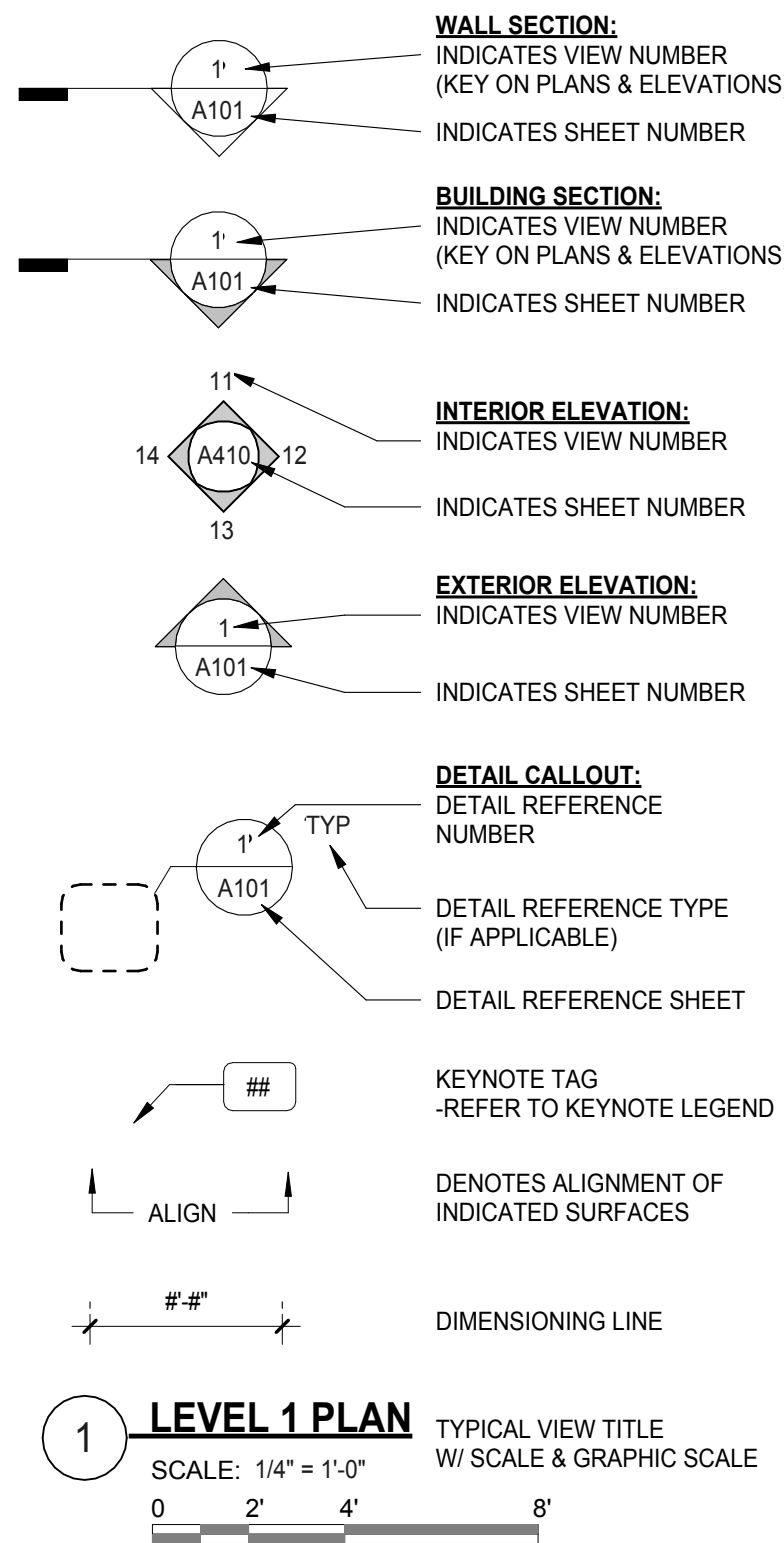
MATERIALS (SECTION)



MATERIALS (ELEVATION)



GENERAL DRAWING ANNOTATIONS



GENERAL NOTES

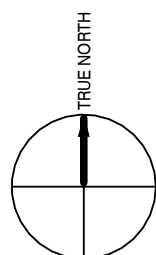
- "N.I.C." IS NOTED ON ITEMS NOT IN THE CONTRACT. "BY OWNER" AND/OR "OTHERS" ARE NOTED ON ITEMS TO BE PROVIDED UNDER SEPARATE CONTRACT BY THE TENANT.
2. WHERE A TYPICAL CONDITION IS DETAILED AND/OR NOTED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS SHALL BE THE SAME UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE.
3. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT OF ANY DIMENSIONAL REQUIREMENT AS NECESSARY FOR THE PROPER EXECUTION OF ANY AFFECTED WORK PRIOR TO THE COMMENCEMENT OF SUCH WORK.
- THE TERM "AFFECTED WORK" AS USED IN THESE GENERAL NOTES SHALL BE DEEMED TO BE ANY REQUIREMENT OF THE CONSTRUCTION DOCUMENTS AND SHALL BE FURTHER DEEMED TO INCLUDE THE PROCUREMENT OF ANY AND ALL MATERIALS, TOOLS, LABOR, ETC., AS FURTHER DESCRIBED IN THE SPECIFICATIONS, REQUIRED FOR THE EXECUTION OF SUCH WORK.
5. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY WITHIN THE CONTRACT DOCUMENTS TO THE ARCHITECT FOR CLARIFICATION AND/OR RESOLUTION PRIOR TO THE COMMENCEMENT OF ANY AFFECTED WORK. SUCH CLARIFICATION AND/OR RESOLUTION SHALL BE PROVIDED BY THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY AFFECTED WORK.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE, BUILDING, AND UTILITY CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES BETWEEN SUCH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS TO THE ARCHITECT FOR CLARIFICATION AND/OR RESOLUTION, PRIOR TO THE COMMENCEMENT OF ANY AFFECTED WORK. THE ARCHITECT SHALL PROVIDE SUCH CLARIFICATION AND/OR RESOLUTION PRIOR TO THE COMMENCEMENT OF ANY AFFECTED WORK.
7. THE LOCATIONS OF ALL NEW PLUMBING FIXTURES, MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING ARE TO BE CONSIDERED DIAGRAMMATIC UNLESS SPECIFICALLY NOTED AND/OR DIMENSIONED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION REQUIREMENTS FOR THE SAME, AND REPORT ANY CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY AFFECTED WORK. THE ARCHITECT SHALL PROVIDE CLARIFICATION AND/OR RESOLUTION REGARDING ANY SUCH CONFLICT PRIOR TO THE COMMENCEMENT OF ANY AFFECTED WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY REQUIREMENTS FOR ALL OFFSETS, BENDS, ELBOWS, AND/OR OTHER COMPONENTS NOT DRAWN BUT NECESSARY FOR PROPER EXECUTION OF THE WORK, AND ALL SUCH MISCELLANEOUS COMPONENTS SHALL BE DEEMED TO BE PART OF THE SCOPE OF WORK REQUIRED BY THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL MANUFACTURERS' REQUIREMENTS FOR ALL PLUMBING EQUIPMENT RELATIVE TO POWER, WATER SUPPLY, DRAINAGE, PADS, BASES, ANCHORAGE, STRUCTURAL OPENINGS, ETC. PIPING AND DUCTS PENETRATING WALLS AND/OR FLOOR/CEILING ASSEMBLIES SHALL BE PROVIDED WITH ALL NECESSARY FRAMES, BRACING, FIRESTOPPING, AND ACOUSTICAL SEALANT AROUND SUCH OPENINGS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS.
8. NOMINAL DIMENSIONS FOR LUMBER AND WOOD TRIM ARE NOTED IN THE FOLLOWING FORMAT: 1 x 4, 5/4 x 4, 2 x 4, ETC. ACTUAL DIMENSIONS, WHERE REQUIRED, ARE NOTED AS 1" x 2" ETC.
9. ARCHITECTURAL DRAWINGS REFERENCE THE MAIN FLOOR CLOSEST TO GROUND LEVEL AS 100'-0". ALL ELEVATIONS REFERENCED BY:

ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO GROUND FLOOR AS ELEVATION 100'-0". REFER TO CIVIL DRAWINGS FOR ACTUAL GRADE ELEVATIONS.

ABBREVIATIONS

A.D.	AT	DEMO	DEMOLISH	DEMOLITION	FLUOR.	FLUORESCENT	LGT	LIGHTING	R.O.	ROUGH OPENING	TD	TRENCH DRAIN
ACT.	ACUSTICAL CEILING TILE	AD. AREA DRAIN	DIAM.	DIAMETER	FOS.	FACE OF STEEL / STUD	LVR	LOUVER	R.W.L.	RAIN WATER LEADER	TEL.	TELEPHONE
		DN	DOWN		FR	FIRE RESISTANT			R=	RADIUS	TERR.	TERRAZZO
ADJ.	ADJUSTABLE	DR.	DOOR		FUR.	F.EET, FOOT	M.B.	MARKER BOARD	R.W.L.	RADIATOR ENCLOSURE	TG	TEMPERED GLASS
AFF	ABOVE FINISH FLOOR	DS.	DOWNSPOUT			FURRING	M.D.	METAL DOOR	ENCL.		THK.	THICKNESS
ALUM	ALUMINUM	DSP.	DISPENSER		G.C.	GENERAL CONTRACTOR	M.M.C.	MISC. METAL CONTRACTOR	REF.	REFRIGERATOR	THRESH.	THRESHOLD
ANCH	ANCHOR	DW.	DISHWASHER		G.S.U	GLAZED STRUCTURAL UNIT	M.O.	MASONRY OPENING	REINF.	REINFORCING	T.L.T.	TOILET
APPROX.	APPROXIMATE(LY)	DWG(S)	DRAWING(S)		GA.	GAUGE	M.T.	METAL THRESHOLD	REQD.	REQUIRED	TWR.	TOWER
					GA.	GAUGE	MACH.	MACHINE	RESIL.	RESILIENT	TYP.	TYPICAL
B.F.E.	BOTTOM OF FOOTING ELEVATION	E.F.	EXHAUST FAN		GALV.	GALVANIZED	MAS.	MASONRY	RET.	RETAINING	U.N.O. /	UNLESS NOTED
B.O.D.	BOTTOM OF DECK BOARD	E.O.D	EDGE OF DECK		GFCMU	GROUND FACED CMU	MAT.	MATERIAL	RM	ROOM	U.N.O.	OTHERWISE / UNLESS OTHERWISE NOTED
BIT.	BITUMINOUS	E.S.	EACH SIDE		GLASS		MAX.	MAXIMUM	S. STR	STRUCTURAL	UC	UNDERCUT
BKSP.	BACKSPLASH	E.T.R.	EXISTING TO REMAIN		GMU	GLAZED MASONRY UNIT	MECH.	MECHANICAL	S.A.M.	SELF ADHERED MEMBRANE	UL	UNDERWRITERS LABORATORY
BKT.	BRACKET	EA.	EACH		GR	GRADE	MEMBR.	MEMBRANE	S.D.	STORM DRAIN	UPR.	UPPER
BLDG.	BUILDING	ED.	EDUCATION		GW.B.	G.W.B.	MIN.	MINIMUM	S.I.G.S	SILICON IMPREGNATED GYPSUM SHEATHING	UV	UNIT VENTILATOR, ULTRAVIOLET
BLK.	BLOCK	EDSP.	END SPLASH		GYP.	GYPSUM	MISC.	MISCELLANEOUS	MTD.	MOUNTED		
BLKG.	BLOCKING	EIFS	EXTERIOR INSULATED FINISH SYSTEM		H.C.	HANDICAP(PED)	MTL.	METAL	SC.	SCUPPER		
BM.	BEAM	EL.	ELEVATION (GRADE)		H.M., HM	HOLLOW METAL			SCHED.	SCHEDULE	V	VOLT(AGE)
BSMT.	BASEMENT	ELEC.	ELECTRIC(AL)		H.P.	HIGH POINT	N.C.	NONCORROSIVE	SCN	SCREEN	V.C.	VINYL CLAD
		ELEV.	ELEVATION (FACADE)		HD	HEAD, HIGH DENSITY	N.I.C.	NOT IN CONTRACT	SECT.	SECTION	V.C.T	VINYL COMPOSITE TILE
C.B.	CHALKBOARD OR CATCH BASIN	EP	ELECTRIC PANEL		HDR.	HEADER	NAT.	NATURAL	SH.	SHELF, SHELVING, SINGLE-HUNG	V.I.F.	VERIFY IN FIELD
C.G.	CORNER GUARD	EPDM	ETHYLENE PROPYLENE DIENE MONOMER		HDWD	HARDWOOD	NO. / #	NUMBER	SHT.	SHEET	V.V.C.	VINYL PLAT COVERING
C.I.P	CAST IN PLACE	EQ.	EQUAL		HGT	HEIGHT	NOM.	NOMINAL	SIM	SIMILAR	VENT.	VENTILATOR
C.J.	CONTROL JOINT	EOP	EQUIPMENT		HORZ.	HORIZONTAL	O.A.	OVERALL	SIP.	STRUCTURAL INSULATED PANEL	VERT.	VERTICAL
C.O.	CLEAR OPENING	EQUIP	EQUIP		HR.	HOUR	O.C.	ON CENTER	SLID.	SLIDING	VEST.	VESTIBULE
C.R.	COLD ROLLED	EXIST.	EXISTING		HT.	HEIGHT	O.D.	OUTSIDE DIAMETER	SMV.	SMOKE-VENTING HATCH	VS	VINYL SHEET
C.U.H.	CABINET UNIT HEATER	EXP.	EXPOSED		HVAC	HEATING, VENTILATION & AIR CONDITIONING	O.H.	OPPOSITE HAND	SPEC.	SPECIFICATIONS	VT	VINYL TILE
CAB.	CABINET	EXT.	EXTERIOR				OPER.	OPERATE	SPF.	SPECIFIED	W.	WIDE, WIDE FLANGE
CEM.	CEMENT	EXTIN.	EXTINGUISHER				OPNG.	OPENING	SPK.	SPEAKER	W.B.	WHITE BOARD (MARKER BOARD)
CER./C.T	CERAMIC/ CERAMIC TILE				I.D.	INSIDE DIAMETER	OVHD	OVERHEAD	SPR.	SPRINKLER	W.C.	WATER CLOSET
CHP	CONCRETE	F.B.	FLAT BAR		IN.	INCH OR INCHES	OZ.	OUNCES	SQ.	SQUARE FEET	W.D.	WINDOW DIMENSION
CL	CEILING	F.C.	FIRE CODE		IN.2	SQUARE INCH			ST.	STREET	W.I.	WROUGHT IRON
CLG.	CENTERLINE	F.C.P.	FIBER CEMENT PANEL		IN.3	CUBIC INCHES	P.C.	PRECAST CONCRETE	STD.	STANDARD	W.O.	WINDOW OPENING
CLKG	CAULKING	F.D.	FLOOR DRAIN		INCAN.	INCANDESCENT	P.L.	PLASTIC LAMINATE	STIFF.	STIFFENER	W.P.	WATERPROOFING
CLOS.	CLOSET	F.D.C	FIRE DEPARTMENT CONNECTION		INFIL.	INFILTRATION	P.T.	PRESSURE TREATED	STL.	STEEL	W.W.F.	WELDED WIRE FABRIC
CLR	CLEAR(ANCE)	F.D.V	FIRE DEPARTMENT VALVE		INSUL.	INSULATION	PARTN.	PARTITION	STOR.	STORAGE	W.W.M.	WELDED WIRE MESH
CMU	CONCRETE MASONRY UNIT				INT.	INTERIOR	PERIM.	PERIMETER	STRUCT.	STRUCTURAL	W/	WITH
		F.D.V.C	FIRE DEPARTMENT VALVE CABINET		INV.	INVERT	PERP.	PERPENDICULAR (TO)	SUSP.	SUSPENDED	W/O, WO	WITHOUT
COL.	COLUMN				J.B	JUNCTION BOX	PL	PLATE	T	TREAD	WBO	WORK BY OTHERS
CONC.	CONCRETE (PORTLAND CEMENT)	F.E	FIRE EXTINGUISHER		JAN.	JANITOR	PL.	PLATE	PLAS.	PLASTER	WBO	WORK BY OWNER
		F.E.C	FIRE EXTINGUISHER CABINET		JST	JOIST	PLUMB.	PLUMBING	PLWD.	PLYWOOD	WD.	WOOD
COND.	CONDITION				JT	JOINT	PNL	PANEL	T&G	TONGUE & GROOVE	WG	WIRE GLASS, WALL GUARD
CONST.	CONSTRUCTION	F.F.	FACTORY FINISH		L.C.P.	LEAD COATED COPPER	POL.	POLISHED	T.B.	TACK BOARD	WH	W

KEY PLAN (NOT TO SCALE)



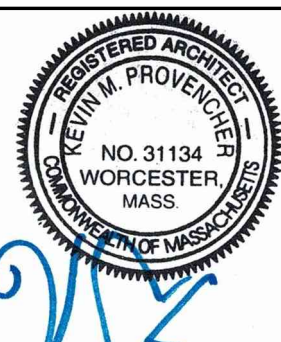
BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

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PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

SYMBOLS, ABBREVIATIONS & GENERAL NOTES

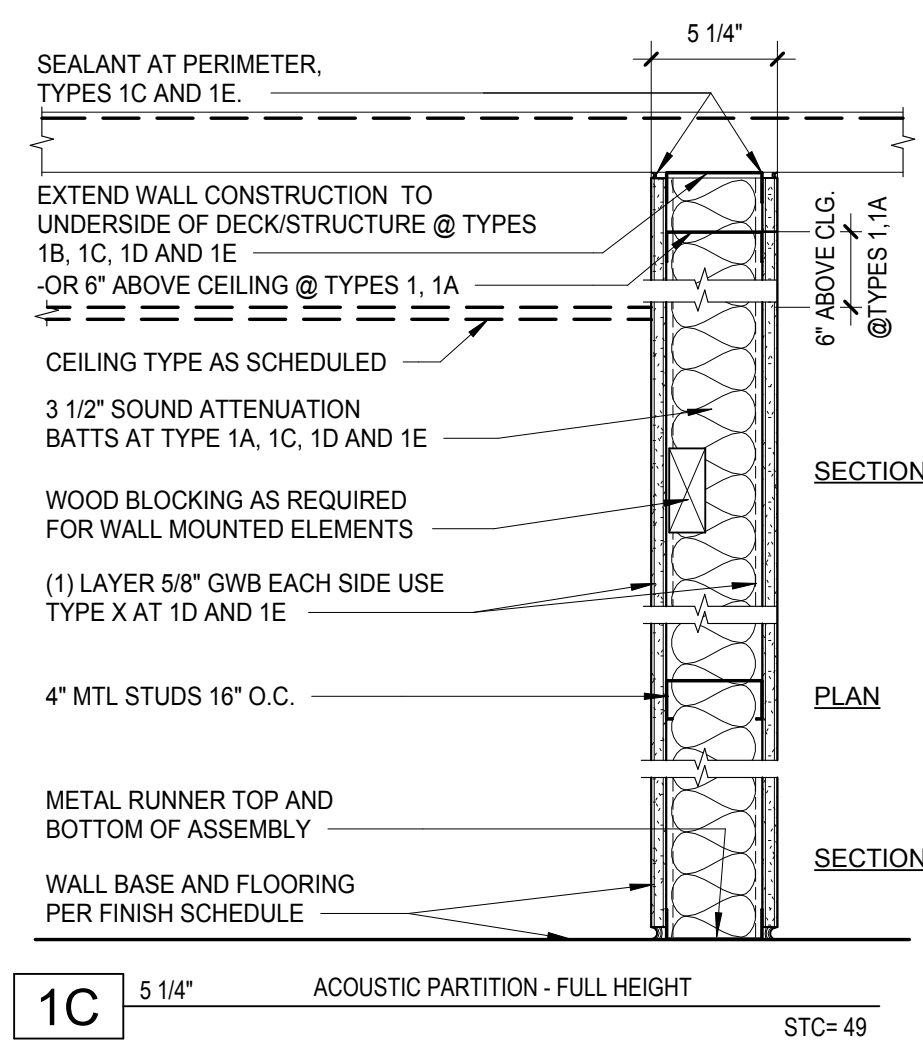
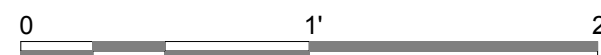
G-002



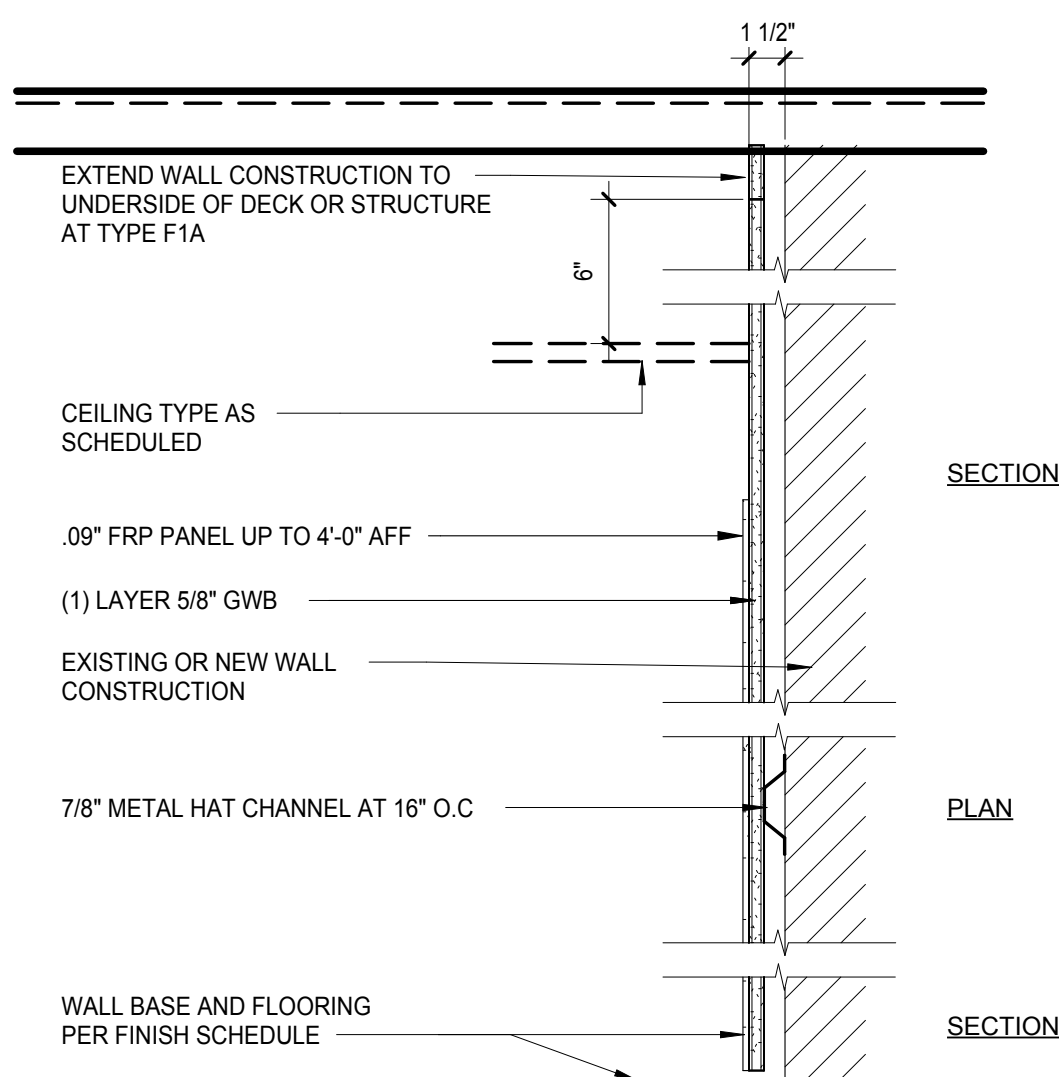
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1 PARTITION TYPES & FIRESTOP SYSTEMS

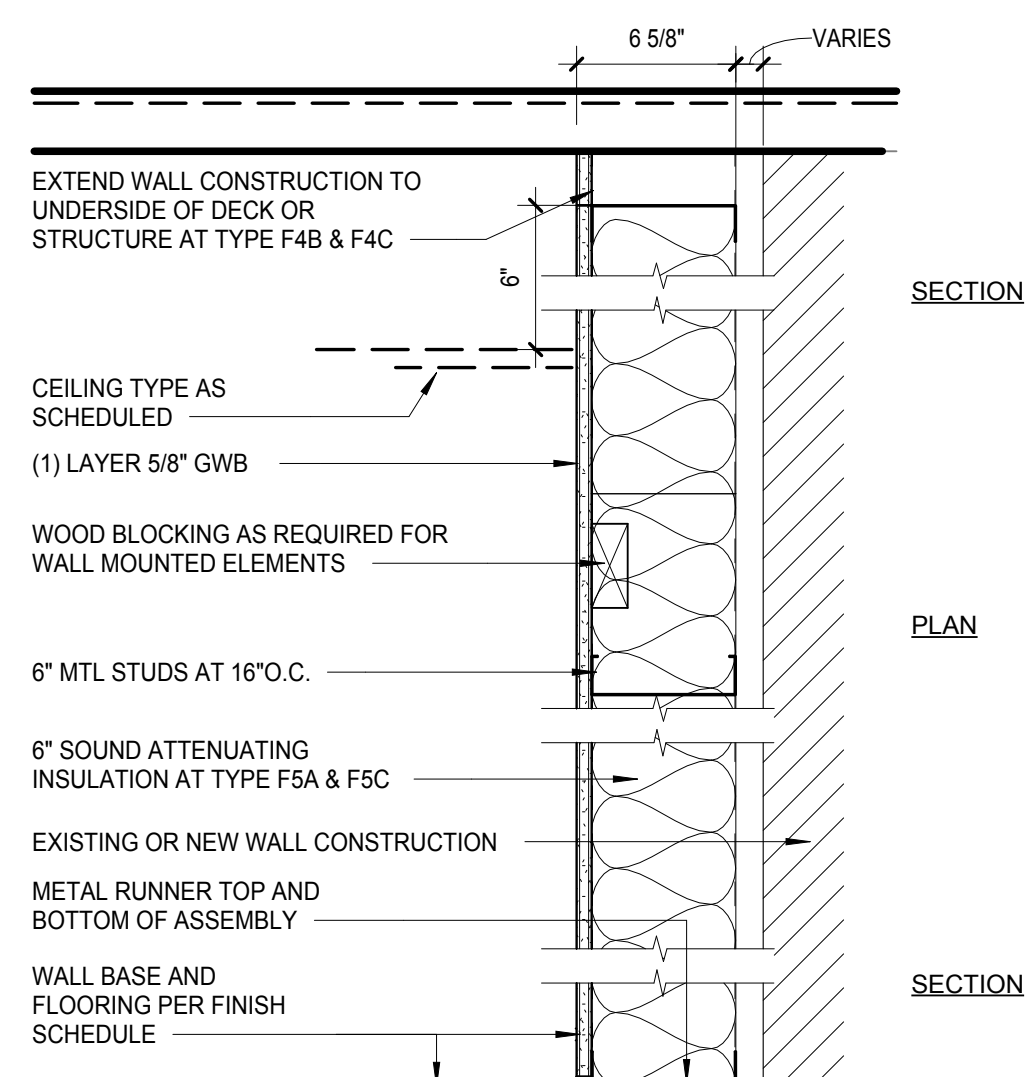
SCALE: 1 1/2" = 1'-0"



1C 5 1/4" ACOUSTIC PARTITION - FULL HEIGHT STC= 49



F1	1 1/2"	FURRED PARTITION	
	0 HR.		STC= N/A



F5	6 5/8"	FURRED PARTITION	
	0 HR.		STC= 51

GENERAL NOTES - PARTITIONS

1. INTERIOR METAL FRAMING CONTRACTOR TO SELECT METAL STUD GAGE FOR STUD DEPTH INDICATED BY PARTITION TYPE AS REQUIRED FOR SPAN WITH 5 PSF UNIFORM LOAD AND MAXIMUM 1/240 DEFLECTION. SUBMIT MANUFACTURER'S DATA FOR REVIEW AND APPROVAL.
2. PROVIDE DEFLECTION TRACK AT HEAD OF ALL FULL HEIGHT PARTITIONS. REFER TO TYPICAL DETAILS ON THIS SHEET.
3. PROVIDE BRACING AS REQUIRED BY STUD MANUFACTURER FOR NON-COMPOSITE ASSEMBLIES AT PARTITIONS WHERE GYPSUM WALL BOARD DOES NOT EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
4. PROVIDE 5/8 " MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL BATHROOM WALLS AND OTHER WET AREAS.
5. PROVIDE DOUBLE 20 GAGE METAL STUD FRAMING AT ALL DOOR JAMB LOCATIONS.
6. PROVIDE ACOUSTIC SEALANT AT PERIMETER OF ALL FULL HEIGHT ACOUSTIC PARTITIONS.
7. REFER TO TYPICAL DETAILS THIS SHEET FOR FIRE RESISTANT JOINT REQUIREMENTS AT HEAD OF WALL FOR FIRE RESISTANT RATED PARTITIONS.
8. PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED FOR WALL CONSTRUCTION AND TYPE OF PENETRATION. REFER TO TYPICAL DETAILS ON FIRESTOP SYSTEMS SHEET.
9. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS AT CONCRETE MASONRY WALLS.

BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

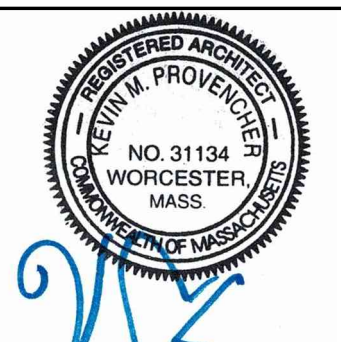
135 BURNCOAT ST
WORCESTER, MA 01606

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PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

PARTITION TYPES

G-020



H&A

HABEEB & ASSOCIATES
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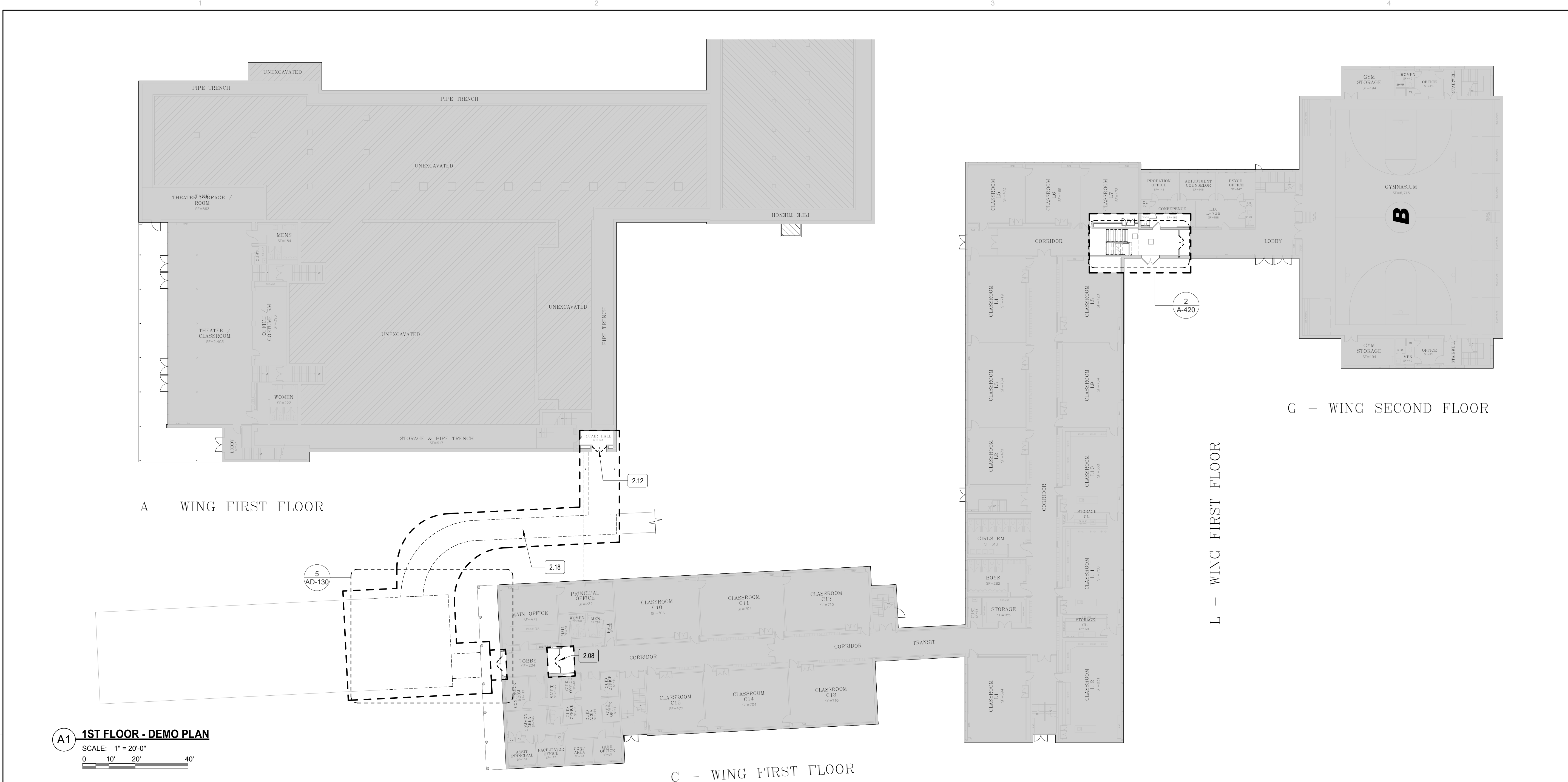
160 LONGWATER DR
NORWELL, MA 02061

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PLOTTED ON: 5/20/2024 11:12:11 AM



KEY NOTES

2.08

REMOVE EXISTING DOOR, FRAME TO REMAIN.

2.12

REMOVE EXISTING DOOR, FRAME, AND THRESHOLD IN ITS ENTIRETY.

2.18

REMOVE PORTION OF EXISTING PAVING.

DEMOLITION FLOOR PLAN LEGEND

EXISTING CONSTRUCTION TO BE DEMOLISHED

EXISTING WALL CONSTRUCTION TO REMAIN

EXISTING DOOR TO REMAIN

EXISTING DOOR TO BE DEMOLISHED

EXISTING WINDOW TO REMAIN

EXISTING WINDOW TO BE DEMOLISHED

LIMIT OF WORK

- SELECTIVE DEMOLITION NOTES
1. EXISTING TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION.

2. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED LEGALLY FROM THE SITE WITH FURTHER DISPOSITION AT THE CONTRACTOR'S OPTION.

3. IF UNANTICIPATED EXISTING BUILDING ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT.

4. MAINTAIN EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.

5. UTILITY REQUIREMENTS: COORDINATE WITH MECHANICAL AND ELECTRICAL WORK FOR SHUTTING OFF, DISCONNECTING, REMOVING, SEALING OR CAPPING UTILITY SERVICES. DO NOT START SELECTIVE DEMOLITION WORK UNTIL UTILITY DISCONNECTION AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.

6. COORDINATE WITH ELECTRICAL SUB-CONTRACTOR WITH RESPECT TO ELECTRICAL DEMOLITION AND DE-ENERGIZING OF PARTICULAR PORTIONS OF THE BUILDING.

7. DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT AND DISPOSE OF ALL LIQUIDS (WITH THE EXCEPTION OF WASTE OIL AND RESIDUAL SLUDGE WHICH MAY BE PRESENT IN EXISTING MECHANICAL PIPING), AND REFUSE, BEFORE PROCEEDING WITH SELECTIVE DEMOLITION OPERATIONS.

8. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO EXISTING BUILDING COMPONENTS AND FACILITIES SET TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREAS.

9. ERECT TEMPORARY PROTECTION, SUCH AS WALKWAYS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED.

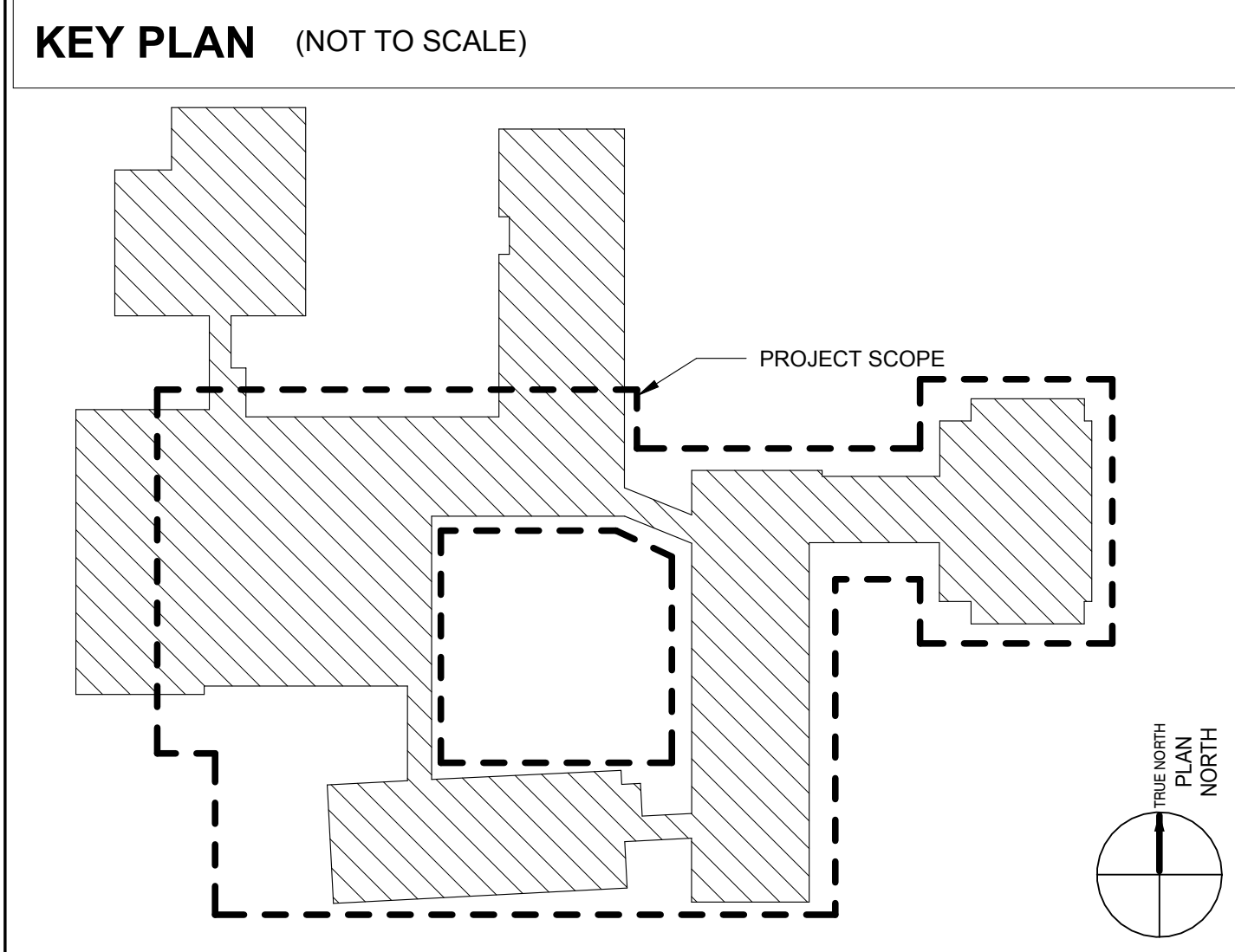
10. ALL DEMOLITION ACTIVITIES WILL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS, INCLUDING BUT NOT LIMITED TO MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (MADEP) REGULATIONS FOR SOLID WASTE MANAGEMENT, HAZARDOUS WASTE MANAGEMENT, AND AIR QUALITY CONTROL, OSHA, AND MASS. STATE BUILDING CODE.

11. NEATLY SAW-CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION-TO-REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.

12. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, SUCH AS DUCT AND PIPE INTERIORS, VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STATING FLAME CUTTING OPERATIONS. MAINTAIN PORTABLE FIRE SUPPRESSION DEVICES DURING FLAME CUTTING OPERATIONS.

13. LOCATE SELECTIVE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.

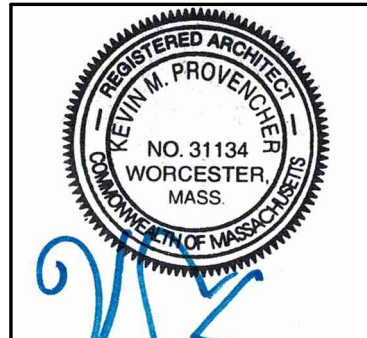
14. SWEEP THE BUILDING BROOM CLEAN ON A DAILY BASIS AND AT THE COMPLETION OF SELECTIVE DEMOLITION OPERATION.



HABEEB & ASSOCIATES ARCHITECTS

H&A

150 LONGWATER DR
NORWELL, MA 02061
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habeebandco.com



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

REVISIONS		
Δ	MM-DD-YYYY	DESCRIPTION

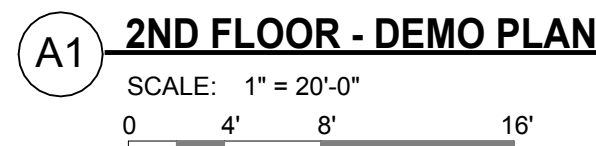
PROJECT NO:	2124.15
DATE:	05/22/24
SCALE:	AS INDICATED
DRAWN BY:	TP
CHECKED BY:	KP

FIRST FLOOR
DEMOLITION PLAN

AD-110

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.



A - WING SECOND FLOOR

H WING - FIRST FLOOR



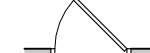




S - WING FIRST FLOOR

BURNCOAT MIDDLE
UPPER LEVEL

KEY NOTES

2.08	REMOVE EXISTING DOOR, FRAME TO REMAIN.
2.27	EXISTING DOOR AND FRAME TO REMAIN.

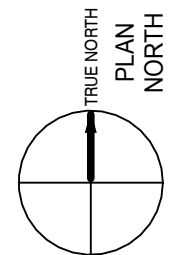
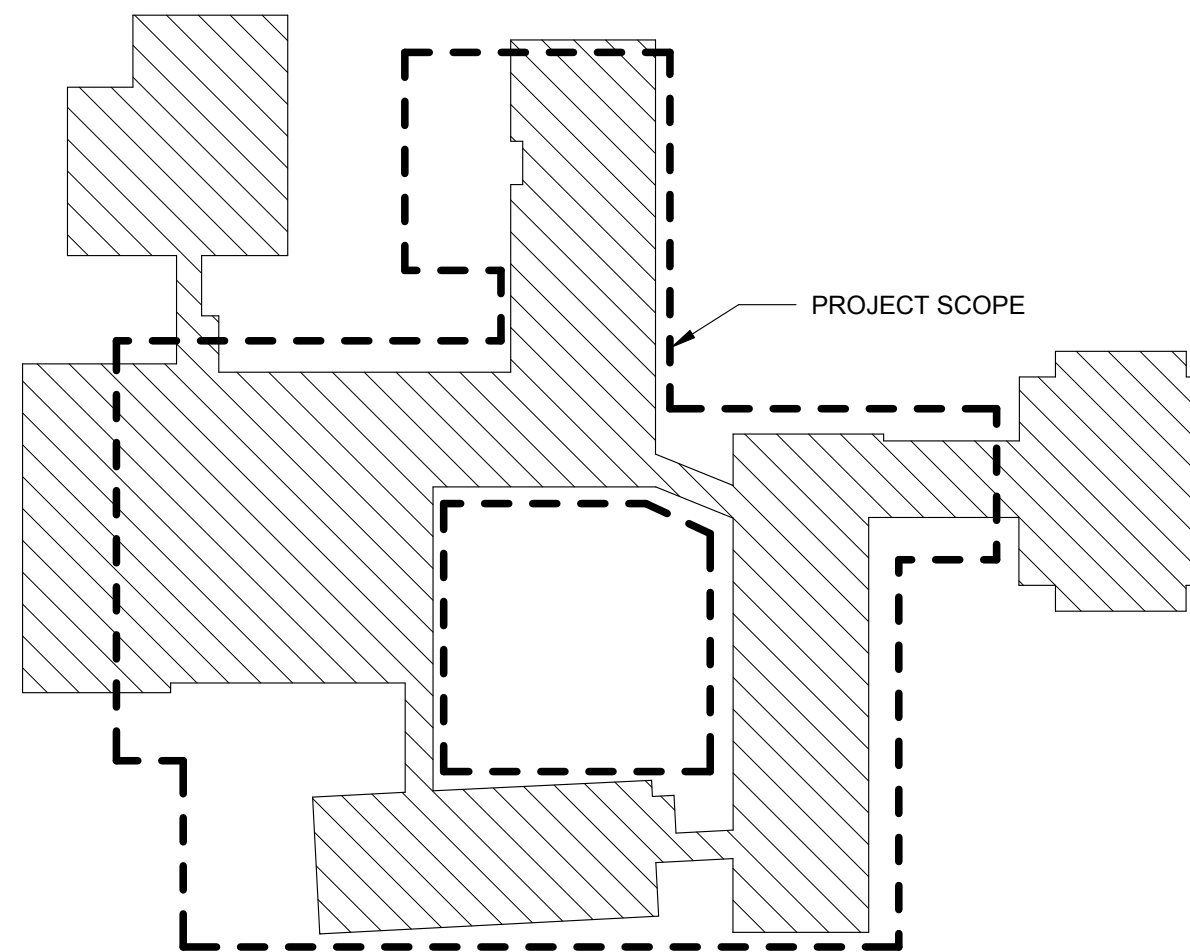
DEMOLITION FLOOR PLAN LEGEND

EXISTING CONSTRUCTION TO BE DEMOLISHED	
EXISTING WALL CONSTRUCTION TO REMAIN	
EXISTING DOOR TO REMAIN	
EXISTING DOOR TO BE DEMOLISHED	
EXISTING WINDOW TO REMAIN	
EXISTING WINDOW TO BE DEMOLISHED	
LIMIT OF WORK	

SELECTIVE DEMOLITION NOTES

3. EXISTING TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION.
2. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED LEGALLY FROM THE SITE WITH FURTHER DISPOSITION AT THE CONTRACTOR'S OPTION.
3. IF UNANTICIPATED EXISTING BUILDING ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT.
4. MAINTAIN EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
5. UTILITY REQUIREMENTS: COORDINATE WITH MECHANICAL AND ELECTRICAL WORK FOR SHUTTING OFF, DISCONNECTING, REMOVING, SEALING OR CAPPING UTILITY SERVICES. DO NOT START SELECTIVE DEMOLITION WORK UNTIL UTILITY DISCONNECTION AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
6. COORDINATE WITH ELECTRICAL SUB-CONTRACTOR WITH RESPECT TO ELECTRICAL DEMOLITION AND DE-ENERGIZING OF PARTICULAR PORTIONS OF THE BUILDING.
7. DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT AND DISPOSE OF ALL LIQUIDS (WITH THE EXCEPTION OF WASTE OIL AND LIQUID SLUDGE WHICH MAY BE PRESENT IN EXISTING MECHANICAL PIPING), AND REFUSE, BEFORE PROCEEDING WITH SELECTIVE DEMOLITION OPERATIONS.
8. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO EXISTING BUILDING COMPONENTS AND FACILITIES SET TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREAS.
9. ERECT TEMPORARY PROTECTION, SUCH AS WALKWAYS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED.
10. ALL DEMOLITION ACTIVITIES WILL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS, INCLUDING BUT NOT LIMITED TO MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (MADEP) REGULATIONS FOR SOLID WASTE MANAGEMENT, HAZARDOUS WASTE MANAGEMENT, AND AIR QUALITY CONTROL, OSHA, AND MASS. STATE BUILDING CODE.
11. NEATLY SAW-CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION-TO-REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.
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14. SWEEP THE BUILDING BROOM CLEAN ON A DAILY BASIS AND AT THE COMPLETION OF SELECTIVE DEMOLITION OPERATION.

KEY PLAN (NOT TO SCALE)



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

[illegible]

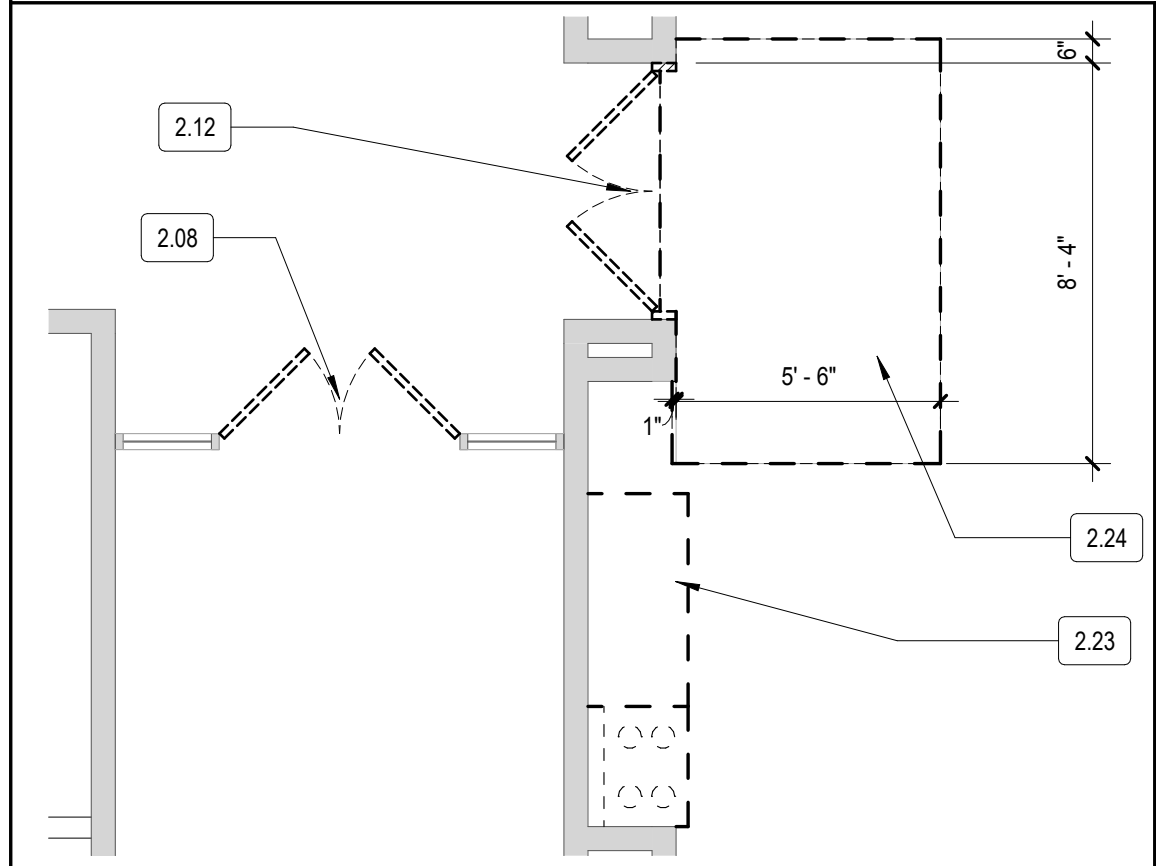
PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

SECOND FLOOR DEMOLITION PLAN

AD-120

H&A | HABEED & ASSOCIATES ARCHITECTS

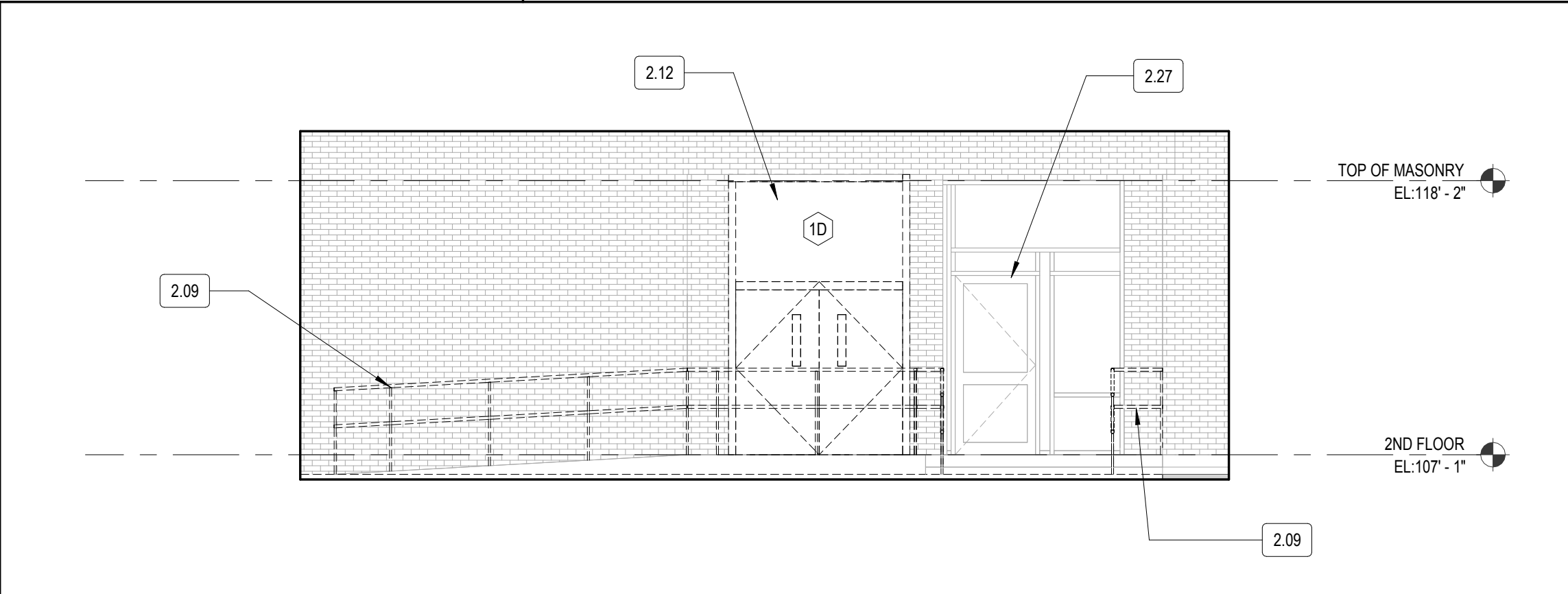




4 CLASSROOM DEMO WORK
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

DEMOLITION FLOOR PLAN LEGEND

EXISTING CONSTRUCTION TO BE DEMOLISHED	
EXISTING WALL CONSTRUCTION TO REMAIN	
EXISTING DOOR TO REMAIN	
EXISTING DOOR TO BE DEMOLISHED	
EXISTING WINDOW TO REMAIN	
EXISTING WINDOW TO BE DEMOLISHED	
LIMIT OF WORK	



3 REAR ENTRY DEMOLITION ELEVATION
SCALE: 3/16" = 1'-0"
0 2' 4' 8'

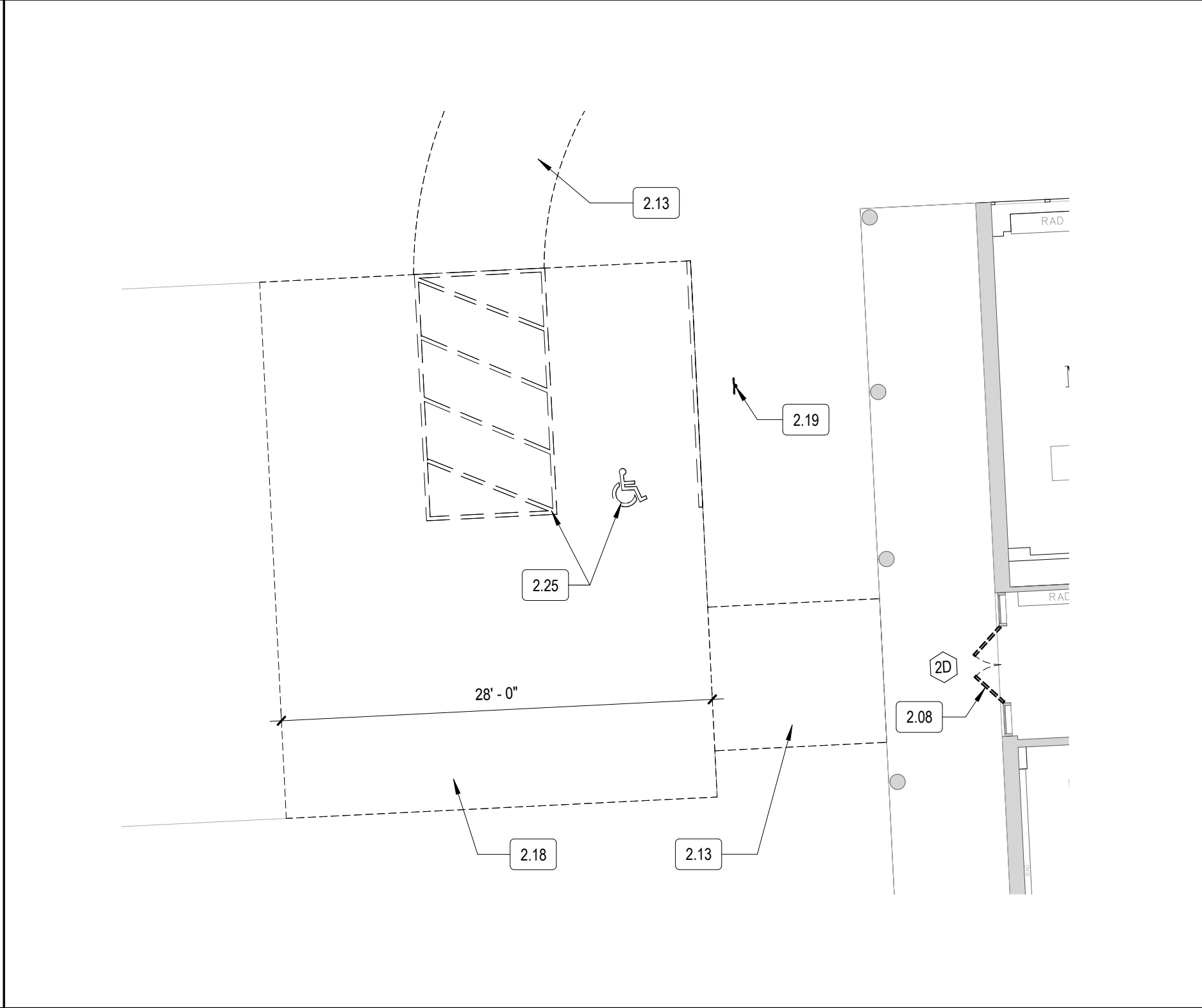
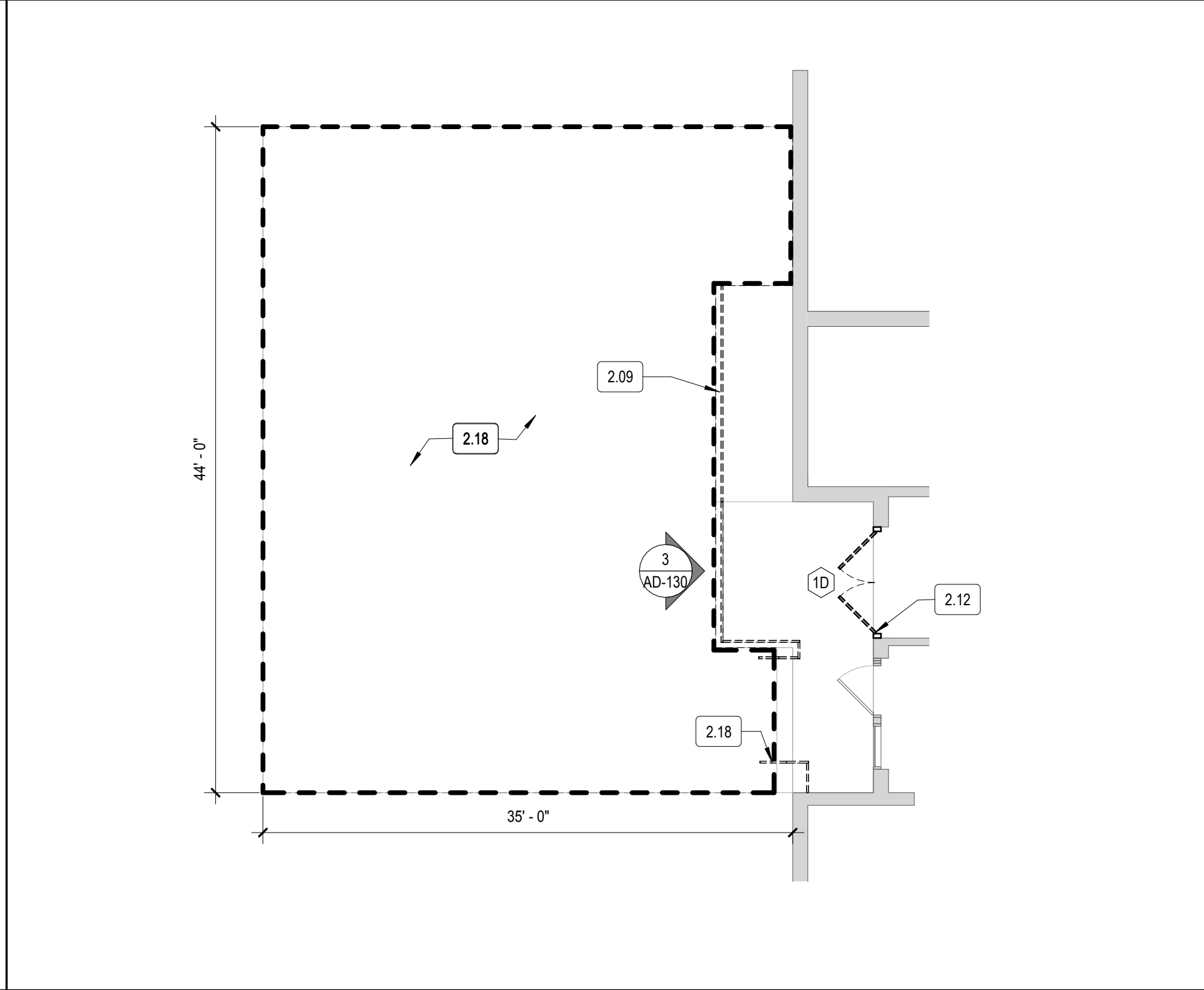
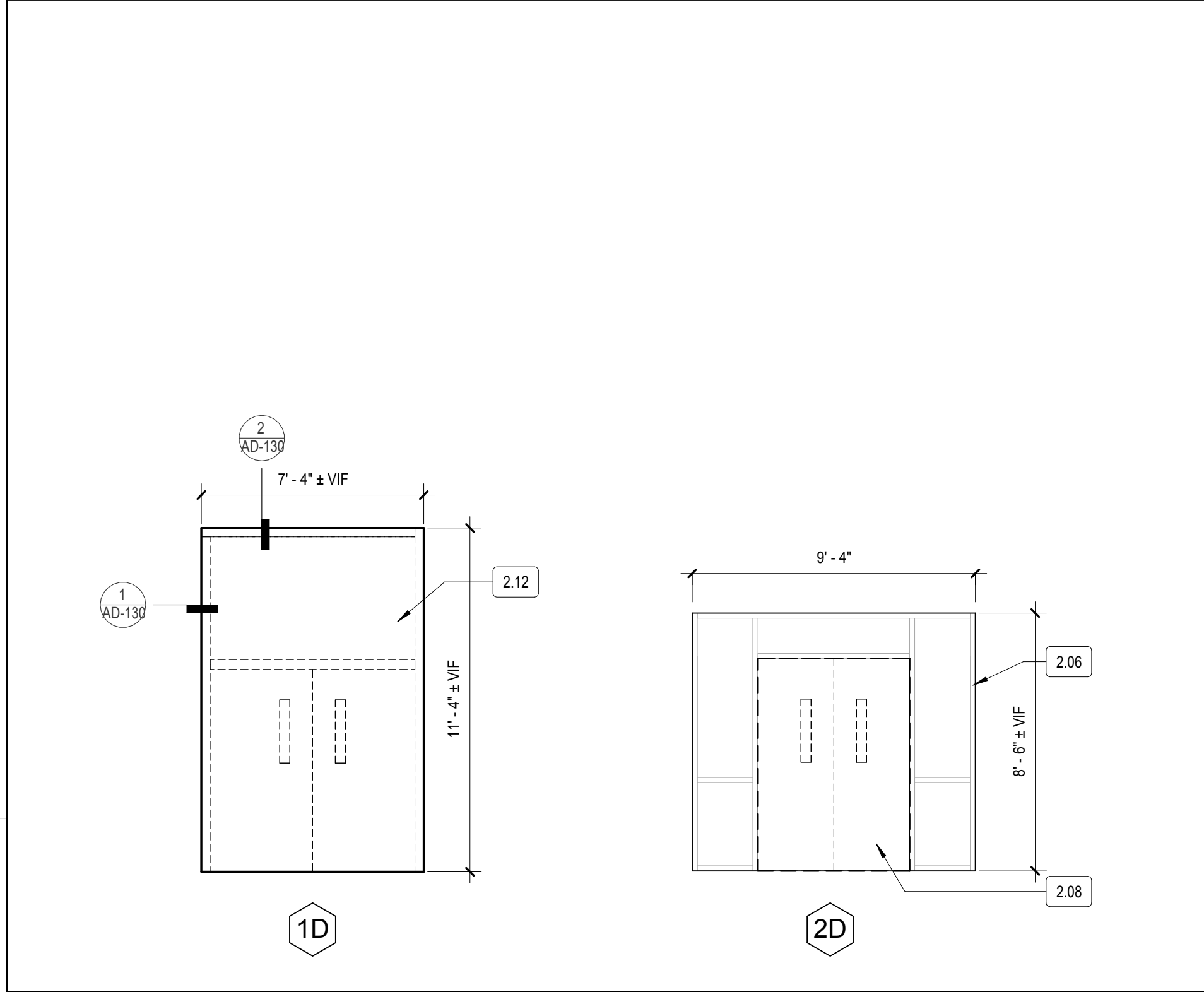
- SELECTIVE DEMOLITION NOTES**
- EXISTING TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION.
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 - SWEEP THE BUILDING BROOM CLEAN ON A DAILY BASIS AND AT THE COMPLETION OF SELECTIVE DEMOLITION OPERATION.

KEY NOTES	
2.06	EXISTING DOOR FRAME TO REMAIN.
2.08	REMOVE EXISTING DOOR, FRAME TO REMAIN.
2.09	REMOVE EXISTING GUARDRAIL.
2.12	REMOVE EXISTING DOOR, FRAME, AND THRESHOLD IN ITS ENTIRETY.
2.13	REMOVE EXISTING WALKWAY.
2.18	REMOVE PORTION OF EXISTING PAVING.
2.19	REMOVE EXISTING ADA SIGNAGE, STORE FOR REUSE.
2.20	REMOVE EXISTING SEALANT AND SHIMS.
2.21	EXISTING MASONRY WALL TO REMAIN.
2.22	EXISTING CEILING TO REMAIN.
2.23	REMOVE EXISTING CASEWORK AND OVEN, OVEN SHALL BE RETURNED TO OWNER.
2.24	REMOVE PORTION OF RAISED FLOOR.
2.25	REMOVE EXISTING PARKING STRIPING.
2.27	EXISTING DOOR AND FRAME TO REMAIN.

7 OPENING TYPES - DEMO
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

6 REAR ENTRY PARKING DEMO WORK
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

5 FRONT ENTRY PARKING DEMO WORK
SCALE: 1/8" = 1'-0"
0 4' 8' 16'



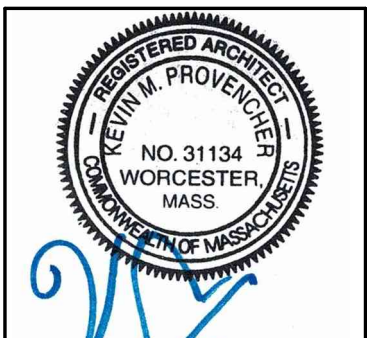
REVISIONS	
Δ	MM-DD-YYYY DESCRIPTION

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

ENLARGED
DEMOLITION PLANS,
DETAILS, AND
ELEVATIONS

AD-130

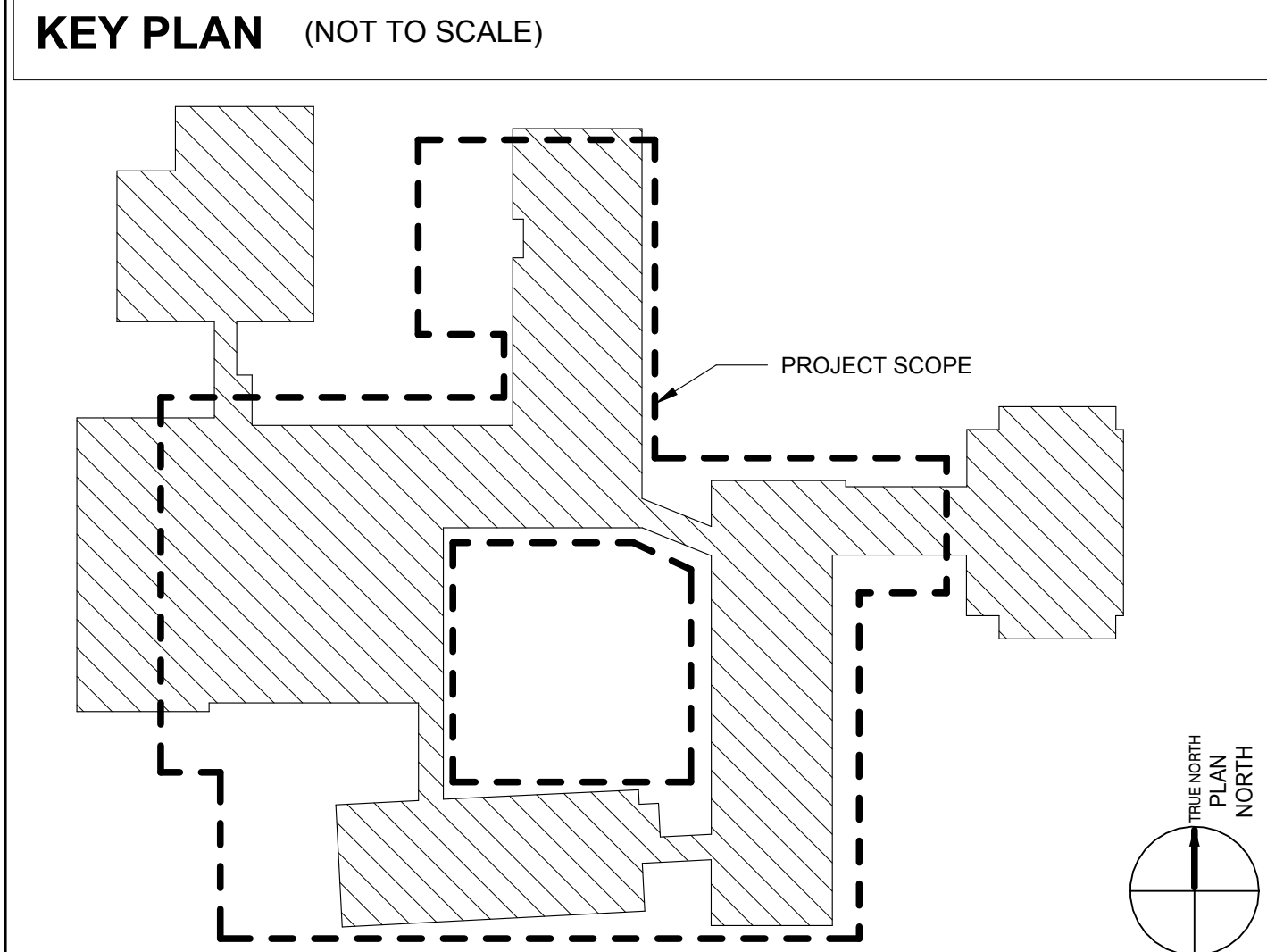
BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS
WORCESTER PUBLIC SCHOOLS
135 BURNCOAT ST
WORCESTER, MA 01606



H&A HABEEB & ASSOCIATES
ARCHITECTS
150 LONGWATER DR
NORWELL, MA 02061
100 GROVE ST #303
WORCESTER, MA 01605
781.871.9884
habeebarch.com



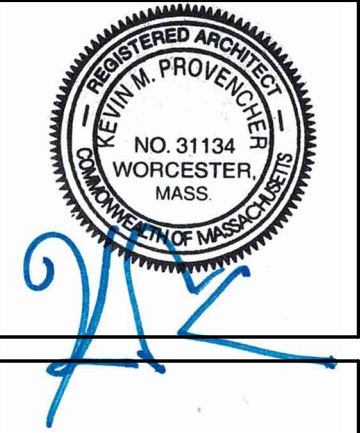
1 AERIAL VIEW
SCALE: NOT TO SCALE

[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: Author
CHECKED BY: Checker

**ARCHITECTURAL SITE
PLAN**

A-001



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

H&A
150 LONGWATER DR
NORWELL, MA 02061
WORCESTER, MA 01605
781.871.9804
habeebberdicht.com

PLOTTED ON: 5/20/2024 11:12:17 AM

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1 1ST FLOOR PLAN
SCALE: 1" = 20'-0"
0 10' 20' 40'

FLOOR PLAN LEGEND

EXISTING WALL CONSTRUCTION TO REMAIN		INDICATES PARTITION TYPE REFER TO G-020 SERIES
NEW WALL CONSTRUCTION		
EXISTING DOOR TO REMAIN		
NEW DOOR		DOOR NUMBER: REFER TO A-600 SERIES DOOR SCHEDULE AND FRAME/PANEL TYPES
EXISTING WINDOW TO REMAIN		
LIMIT OF WORK		WINDOW UNIT TYPE: REFER TO A-610 SERIES WINDOW SCHEDULE AND FRAME/PANEL TYPES

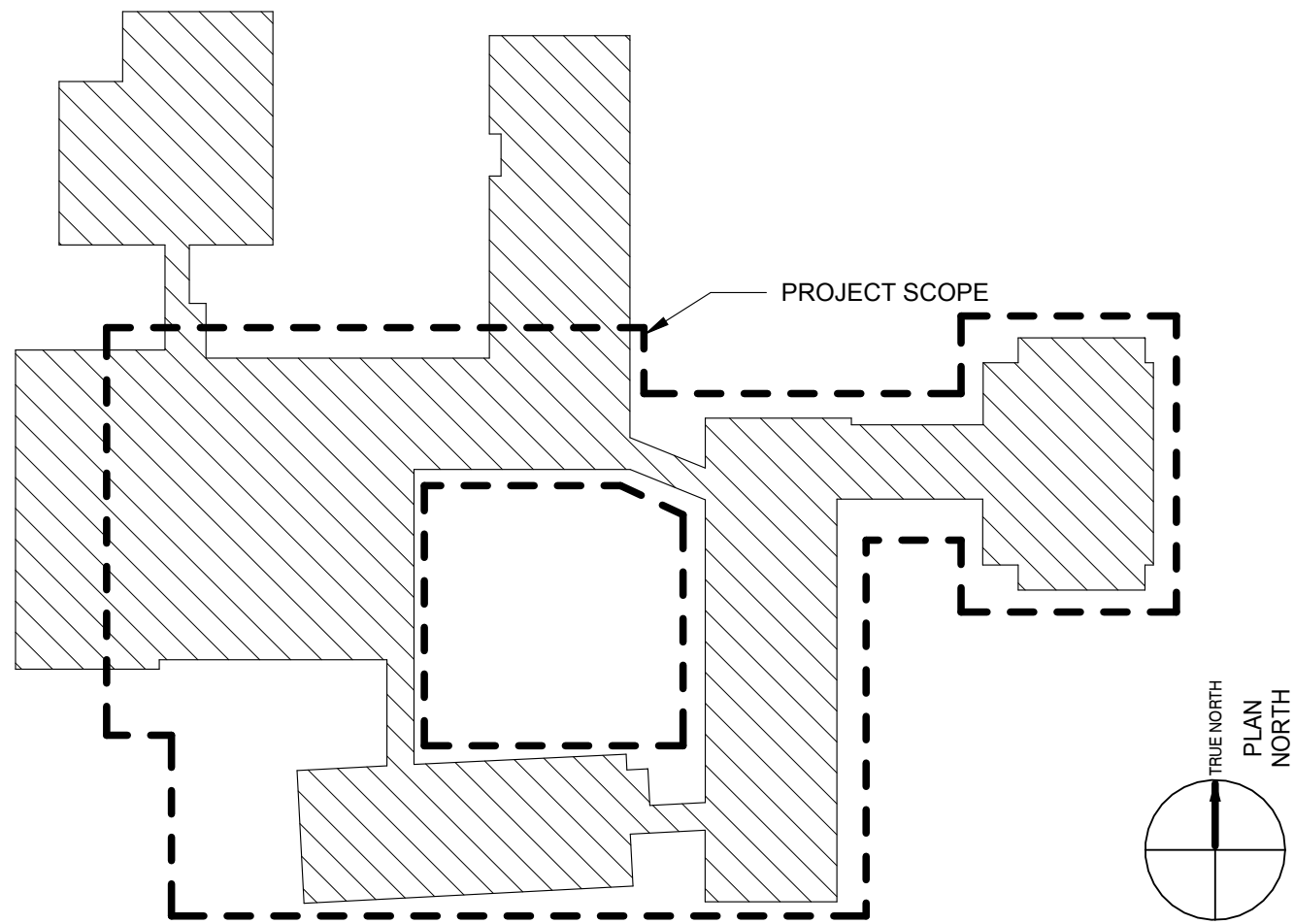
FLOOR PLAN GENERAL NOTES

1. REFER TO DWG. G-002 FOR LIST OF TYPICAL ABBREVIATIONS, ARCHITECTURAL GRAPHIC SYMBOLS, AND GENERAL NOTES.
2. REFER TO DWG G-010 FOR BUILDING CODE SUMMARY AND FIRE SAFETY PLANS FOR LOCATIONS OF FIRE-RESISTANCE RATED PARTITIONS.
3. REFER TO DWG G-020 FOR PARTITION TYPES FIRE-STOP SYSTEM DETAILS OF FIRE-RESISTANCE RATED PARTITIONS.
4. ALL DIMENSIONS ARE TO FACE OR CENTERLINE OF STRUCTURE (FOUNDATION, COLUMN, ETC) UNLESS OTHERWISE NOTED (U.O.N). DIMENSIONS TO INTERIOR PARTITIONS ARE TO FACE OF PARTITION. OTHER DIMENSIONS NOTED AS "CLEAR", "CLR", "FIN", SHALL BE DEEMED TO BE FINISHED FACE.
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL STIFFENERS, BRACING, BLOCKING, BACK-UP PLATES AND SUPPORTING BRACKETS NOT DRAWN OR SPECIFIED BUT REQUIRED FOR PROPER INSTALLATION OF ALL WALL-MOUNTED CASEWORK, TOILET ACCESSORIES AND EQUIPMENT.
6. PROVIDE MINIMUM 4-INCH CLEARANCE FROM FACE OF DOOR JAMB TO FACE OF ADJACENT WALL, UNLESS OTHERWISE NOTED.
7. THE CONTRACTOR SHALL PROVIDE AND INSTALL TILE BOARD AT ALL TOILET ACCESSORIES, DOOR & WITCHED THAT ARE ON THE TILE SURFACE AND CROSS OVER THE 4'-6" A.F.F. ONTO THE PAINTED GYPSUM WALL BOARD.

KEY NOTES

32.24 BITUMINOUS PAVING.

KEY PLAN (NOT TO SCALE)

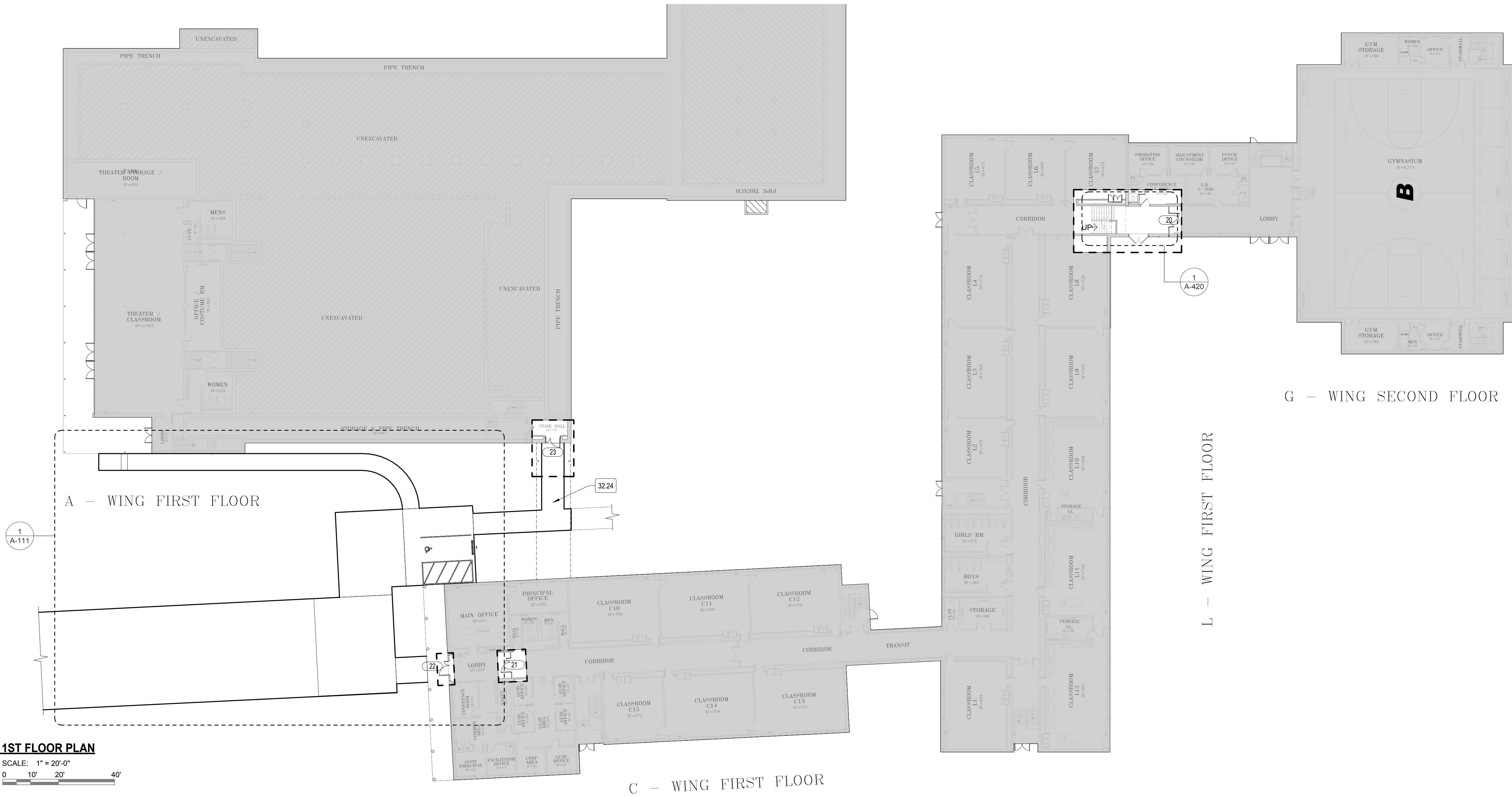


REVISIONS	
Δ	MM-DD-YYYY DESCRIPTION

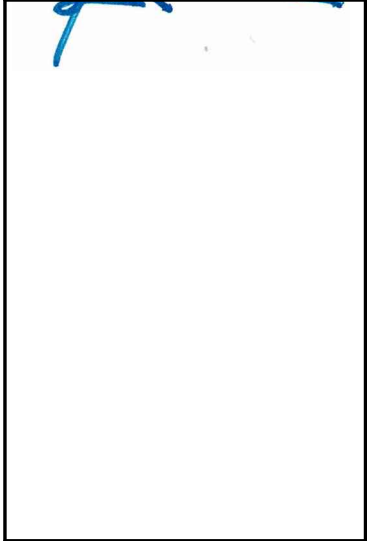
PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

FIRST FLOOR
OVERALL PLAN

A-110



H&A HABEEB & ASSOCIATES ARCHITECTS
150 LONGWATER DR
NORWELL, MA 02061
100 GROVE ST #303
WORCESTER, MA 01605
781.871.9884
habeebarch.com



BURNOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS
WORCESTER PUBLIC SCHOOLS
135 BURNOAT ST
WORCESTER, MA 01606

2 2ND FLOOR PLAN - ADA ENTRANCE
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

FLOOR PLAN LEGEND

EXISTING WALL CONSTRUCTION TO REMAIN		INDICATES PARTITION TYPE REFER TO G-020 SERIES
NEW WALL CONSTRUCTION		
EXISTING DOOR TO REMAIN		
NEW DOOR		DOOR NUMBER: REFER TO A-600 SERIES DOOR SCHEDULE AND FRAME/PANEL TYPES
EXISTING WINDOW TO REMAIN		WINDOW UNIT TYPE: REFER TO A-610 SERIES WINDOW SCHEDULE AND FRAME/PANEL TYPES
LIMIT OF WORK		

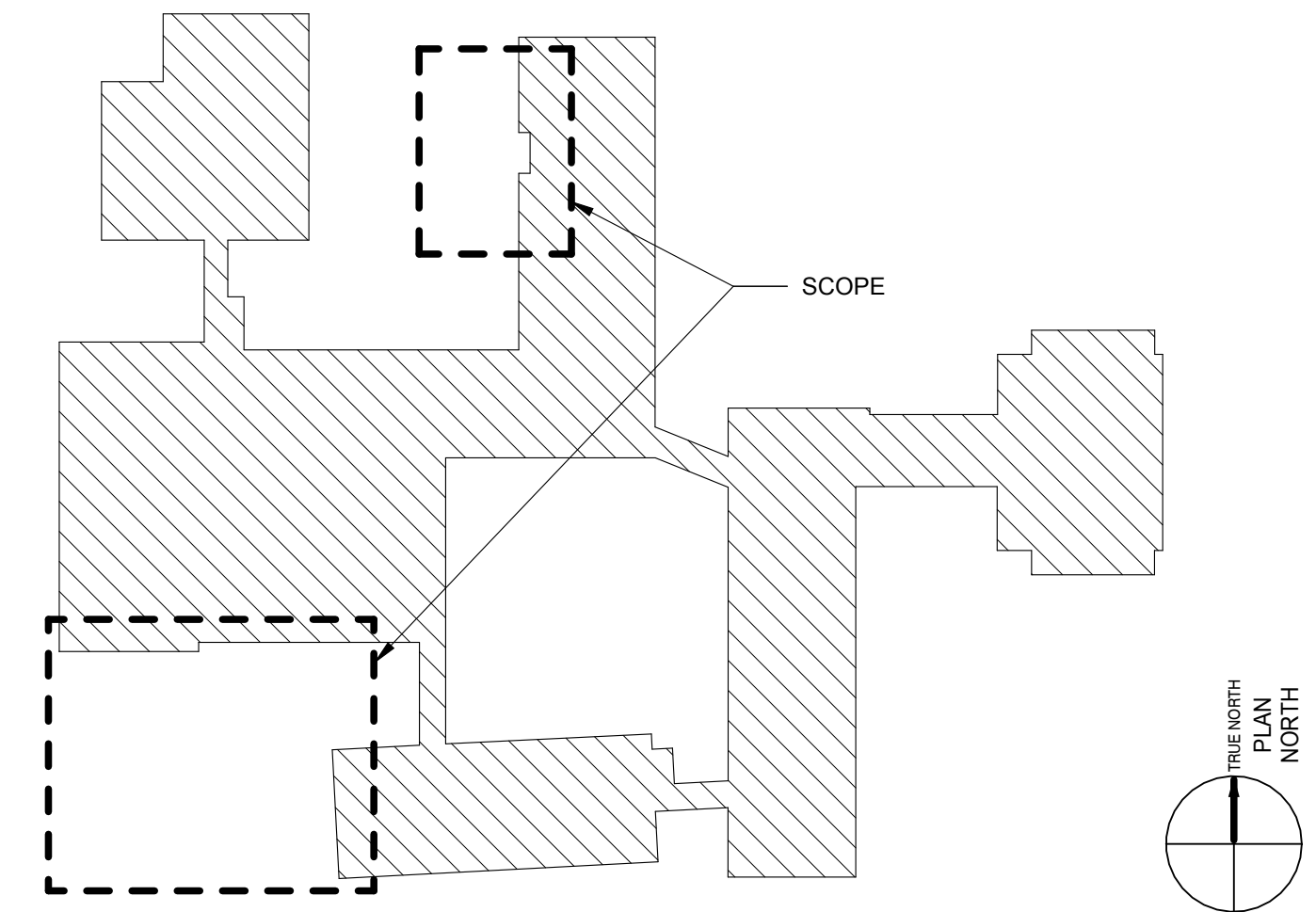
FLOOR PLAN GENERAL NOTES

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2. REFER TO DWG G-010 FOR BUILDING CODE SUMMARY AND FIRE SAFETY PLANS FOR LOCATIONS OF FIRE-RESISTANCE RATED PARTITIONS.
3. REFER TO DWG G-020 FOR PARTITION TYPES. FIRE-STOP SYSTEM DETAILS OF FIRE-RESISTANCE RATED PARTITIONS.
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5. THE CONTRACTOR SHALL PROVIDE AND INSTALL STIFFENERS, BRACING, BLOCKING, BACK-UP PLATES AND SUPPORTING BRACKETS NOT DRAWN OR SPECIFIED BUT REQUIRED FOR PROPER INSTALLATION OF ALL WALL-MOUNTED CASEWORK, TOILET ACCESSORIES AND EQUIPMENT.
6. PROVIDE MINIMUM 4-INCH CLEARANCE FROM FACE OF DOOR JAMB TO FACE OF ADJACENT WALL, UNLESS OTHERWISE NOTED.
7. THE CONTRACTOR SHALL PROVIDE AND INSTALL TILE BOARD AT ALL TOILET ACCESSORIES, DOOR & WITCHED THAT ARE ON THE TILE SURFACE AND CROSS OVER THE 4'-6" A.F.F. ONTO THE PAINTED GYPSUM WALL BOARD.

KEY NOTES

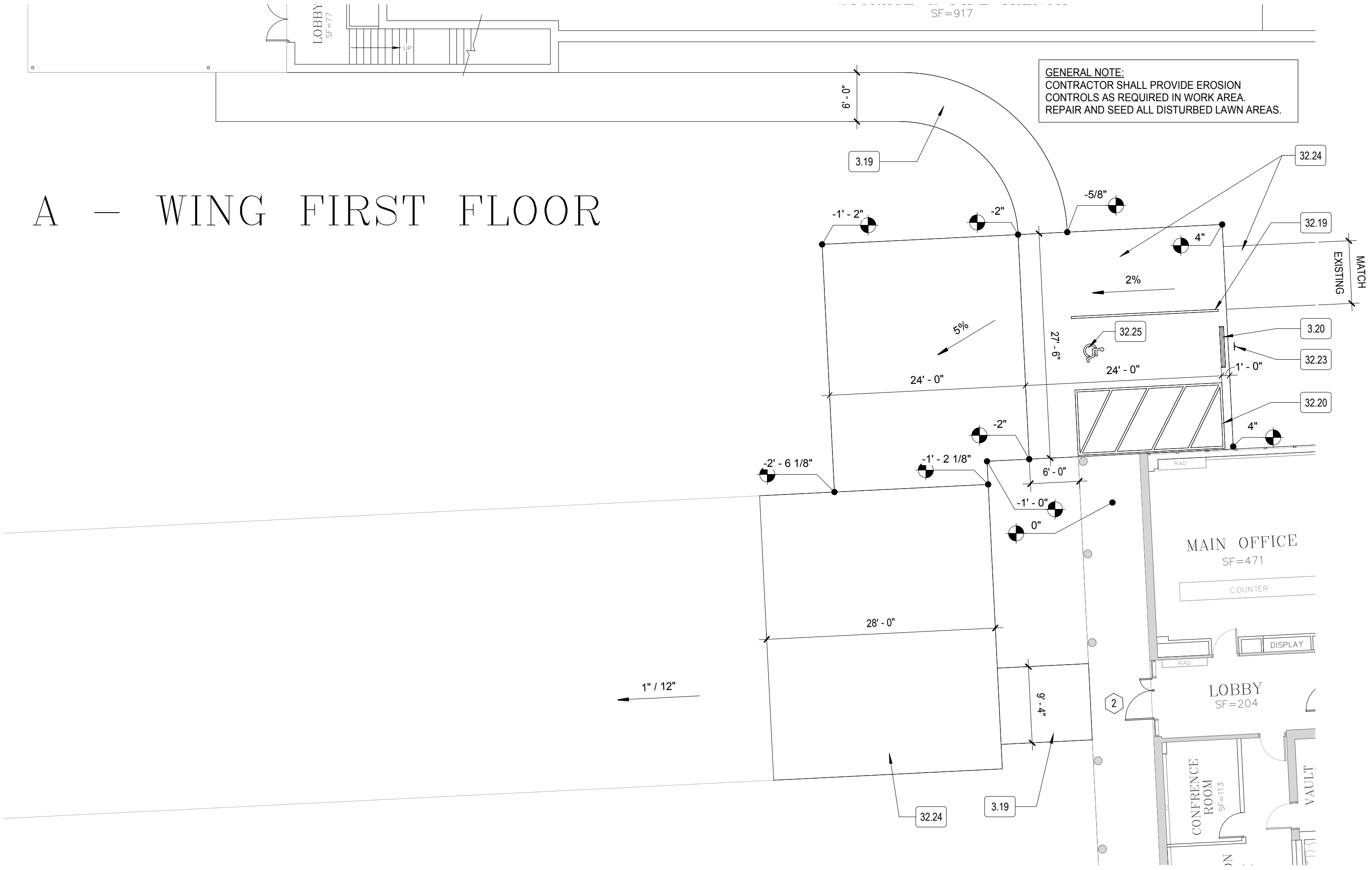
3.19	CONCRETE WALKWAY.
3.20	CONCRETE WHEEL STOP.
5.14	WALL MOUNTED PAINTED GALVANIZED STEEL PIPE HANDRAIL
5.17	PAINTED GALVANIZED STEEL GUARDRAIL
32.19	9' X 18' ADA VAN ACCESSIBLE PARKING SPACE.
32.20	8' X 18' PARKING STRIPING.
32.23	ADA PARKING SIGNAGE.
32.24	BITUMINOUS PAVING.
32.25	ADA PARKING SYMBOL.

KEY PLAN (NOT TO SCALE)



1 1ST FLOOR PLAN - Front Drive
SCALE: 1" = 10'-0"
0 5' 10' 20'

A - WING FIRST FLOOR



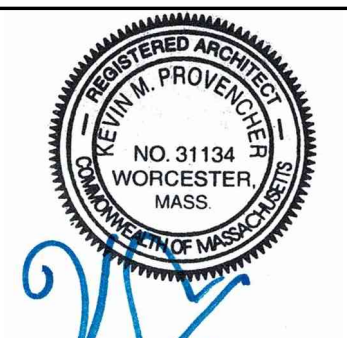
REVISIONS	
Δ	MM-DD-YYYY DESCRIPTION

PROJECT NO:	2124.15
DATE:	05/22/24
SCALE:	AS INDICATED
DRAWN BY:	TP
CHECKED BY:	KP

EXTERIOR SITE WORK

A-111

BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS
WORCESTER PUBLIC SCHOOLS
135 BURNCOAT ST
WORCESTER, MA 01606



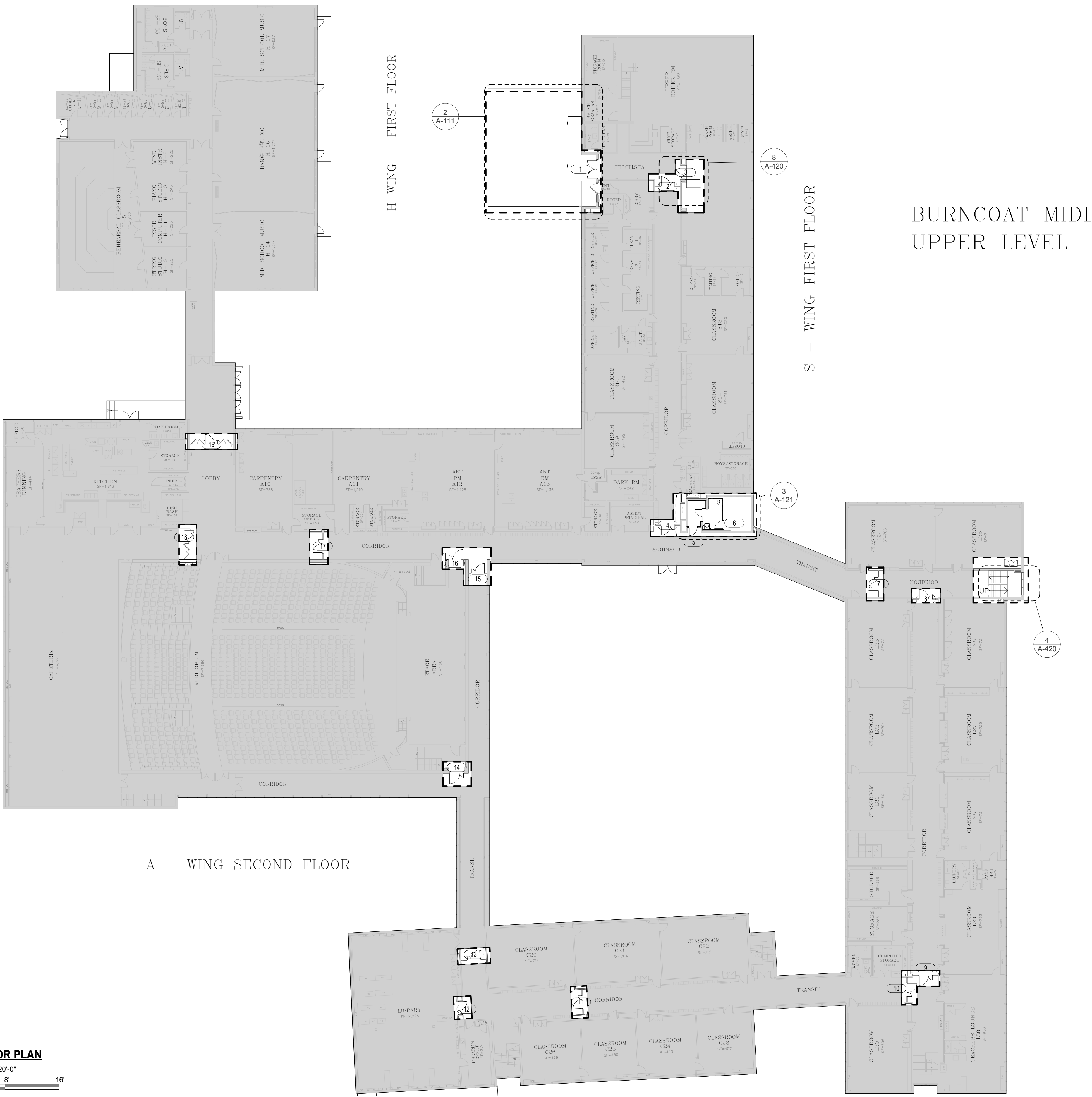
H&A HABEEB & ASSOCIATES ARCHITECTS
150 LONGWATER DR
NORWELL, MA 02061
100 GROVE ST #303
WORCESTER, MA 01605
781.871.5854
habeebandco.com

1

2ND FLOOR PLAN

SCALE: 1" = 20'-0"

0 4' 8' 16'



FLOOR PLAN GENERAL NOTES

1. REFER TO DWG. G-002 FOR LIST OF TYPICAL ABBREVIATIONS, ARCHITECTURAL GRAPHIC SYMBOLS, AND GENERAL NOTES.
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FLOOR PLAN LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN

NEW WALL CONSTRUCTION

EXISTING DOOR TO REMAIN

NEW DOOR

EXISTING WINDOW TO REMAIN

LIMIT OF WORK
- 11

DOOR NUMBER:
REFER TO A-600 SERIES DOOR
SCHEDULE AND FRAME/PANEL
TYPES

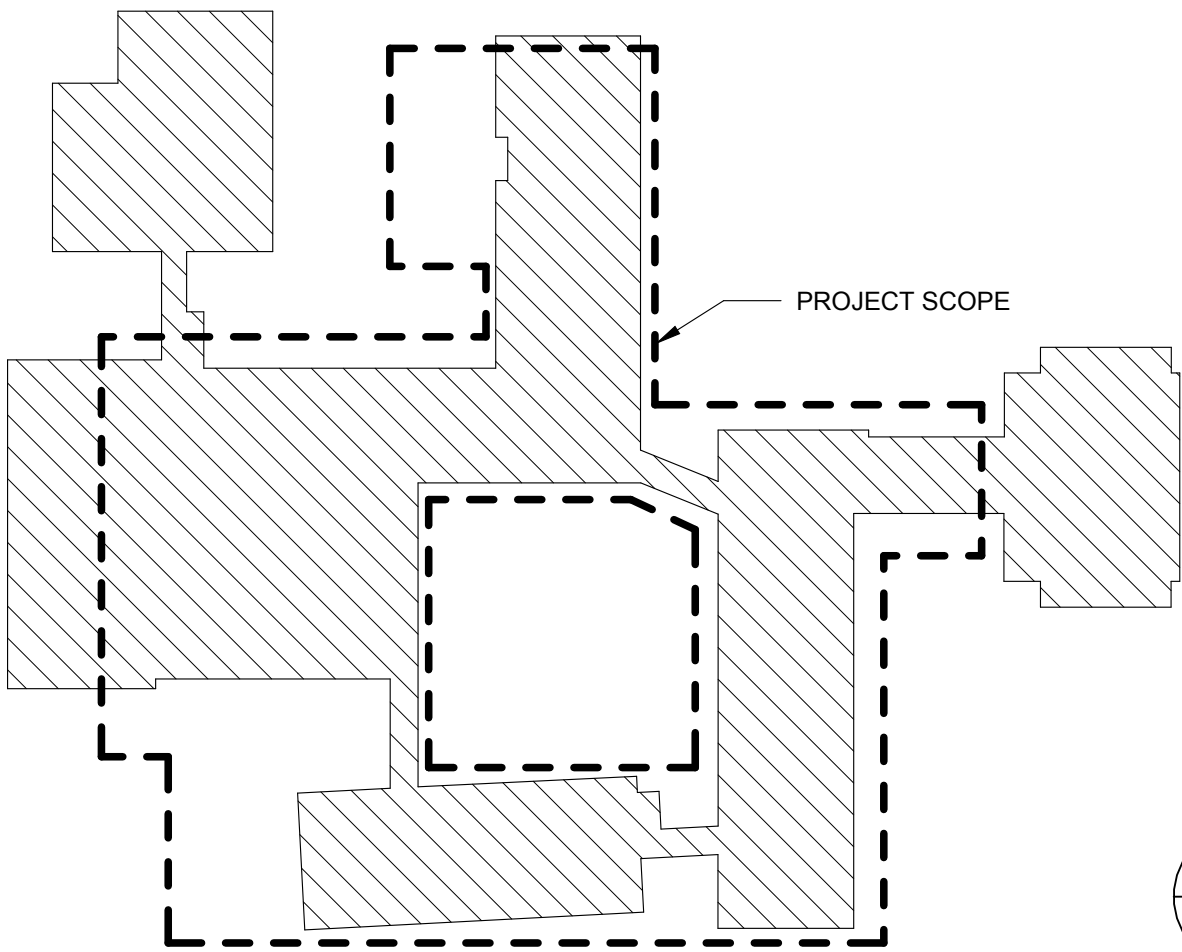
101A

WINDOW UNIT TYPE:
REFER TO A-610 SERIES
WINDOW SCHEDULE AND
FRAME/PANEL TYPES

AA

INDICATES PARTITION TYPE
REFER TO G-020 SERIES

KEY PLAN (NOT TO SCALE)



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS
WORCESTER PUBLIC SCHOOLS
 135 BURNCOAT ST
 WORCESTER, MA 01606

REVISIONS		
Δ	MM-DD-YYYY	DESCRIPTION
1	Date 1	Revision 1

PROJECT NO: 2124.15

DATE: 05/22/24

SCALE: AS INDICATED

DRAWN BY: TP

CHECKED BY: KP

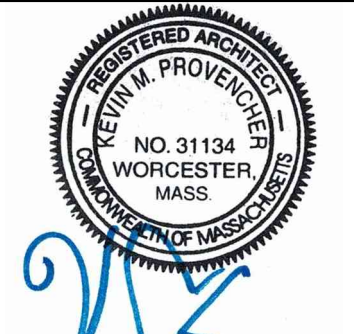
SECOND FLOOR
OVERALL PLAN

A-120

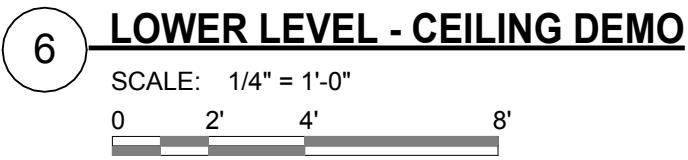
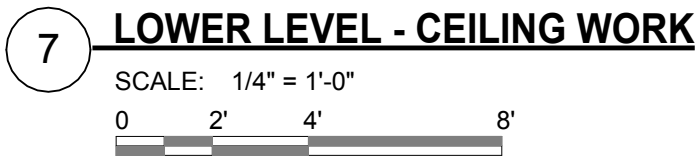
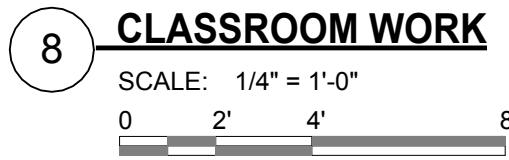
H&A

HABEEB & ASSOCIATES
ARCHITECTS

150 LONGWATER DR
 NORWELL, MA 02061
 100 GROVE ST #303
 WORCESTER, MA 01605
 781.871.9884
 habeebard@a.com




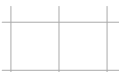
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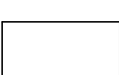


2.01	EXISTING HANDRAIL TO REMAIN.
2.02	REMOVE EXISTING HANDRAIL.
2.03	REMOVE EXISTING RUBBER STAIR TREAD.
2.05	REMOVE EXISTING UNIT HEATER.
2.06	EXISTING DOOR FRAME TO REMAIN.
2.08	REMOVE EXISTING DOOR, FRAME TO REMAIN.
2.14	REMOVE EXISTING CHASE WALL.
2.17	EXISTING LIGHT FIXTURE TO REMAIN.
2.22	EXISTING CEILING TO REMAIN.
2.28	REMOVE PORTION OF ACT CEILING, COORDINATE WITH MEP.
5.14	WALL MOUNTED PAINTED GALVANIZED STEEL PIPE HANDRAIL
5.21	PAINTED STEEL PIPE RAIL
9.35	VINYL TILE FLOORING, REFER TO FINISH PLANS.
9.60	RUBBER STAIR TREAD/RISER.
9.61	SHEET RUBBER LANDING.
23.04	CABINET UNIT HEATER

ACT-1
EL. X'-XX"






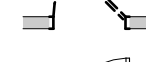
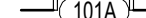



 NEW
2' x 2' ACOUSTICAL CEILING TILE


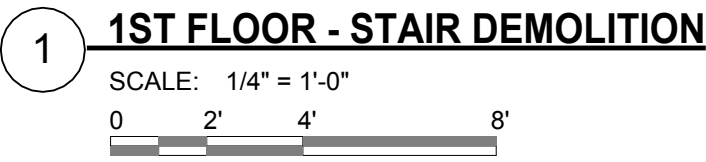
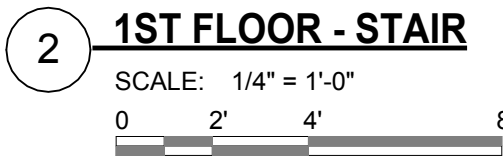
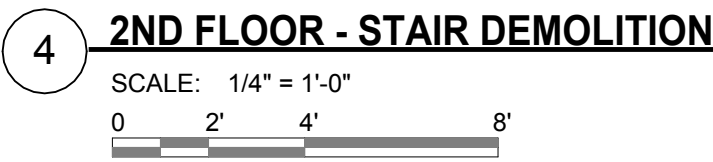
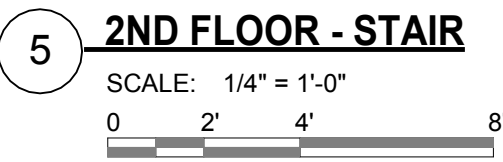
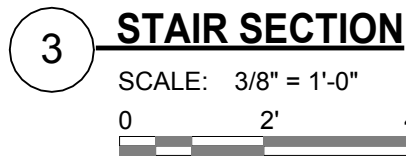
 EXISTING
EXISTING 2'X4' ACOUSTICAL CEILING TILE - TO REMAIN

 EXISTING
GWB SOFFIT TO REMAIN

EXP
UNPAINTED EXPOSED STRUCTURE ABOVE

PTD - EXP
NEW / EXISTING
PTD EXPOSED STRUCTURE ABOVE

EXISTING CONSTRUCTION TO BE DEMOLISHED		
EXISTING WALL CONSTRUCTION TO REMAIN		
NEW WALL CONSTRUCTION		INDICATES PARTITION TYPE REFER TO G-020 SERIES
EXISTING DOOR TO REMAIN		
EXISTING DOOR TO BE DEMOLISHED		
NEW DOOR		<u>DOOR NUMBER:</u> REFER TO A-610 SERIES DOOR SCHEDULE AND FRAME/PANEL TYPES
EXISTING WINDOW TO REMAIN		
EXISTING WINDOW TO BE DEMOLISHED		
EXISTING WINDOW TO REMAIN		<u>WINDOW UNIT TYPE:</u> REFER TO A-610 SERIES WINDOW SCHEDULE AND FRAME/PANEL TYPES
LIMIT OF WORK		



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

[illegible]


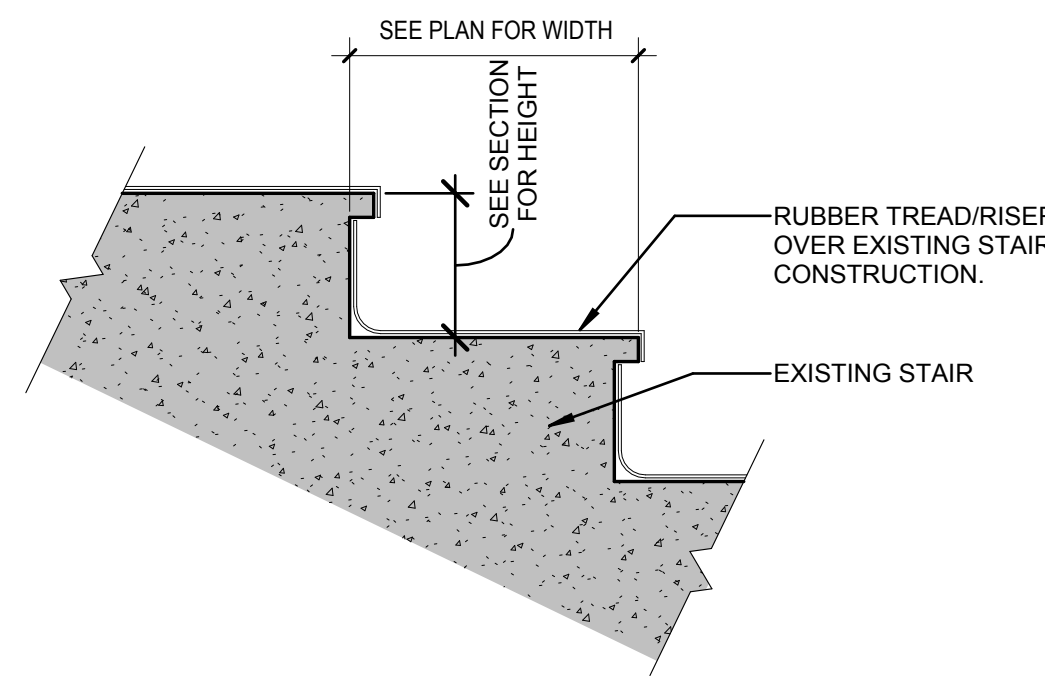
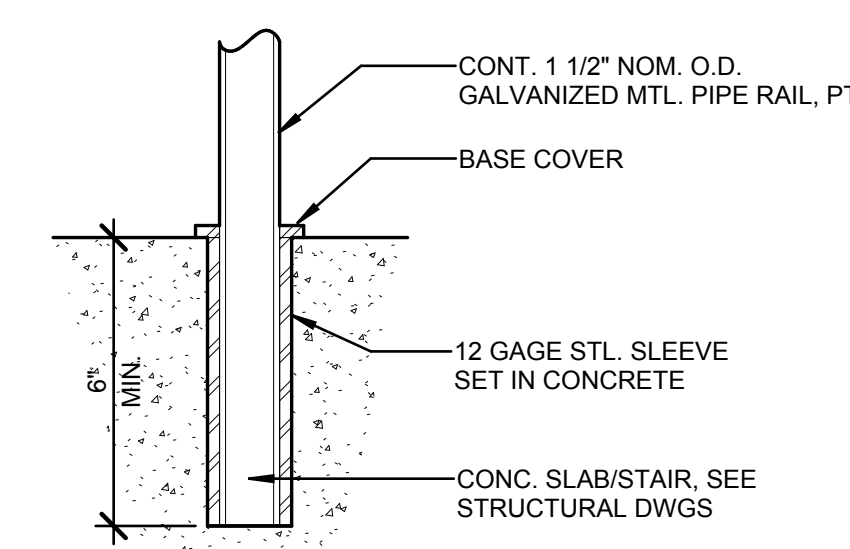
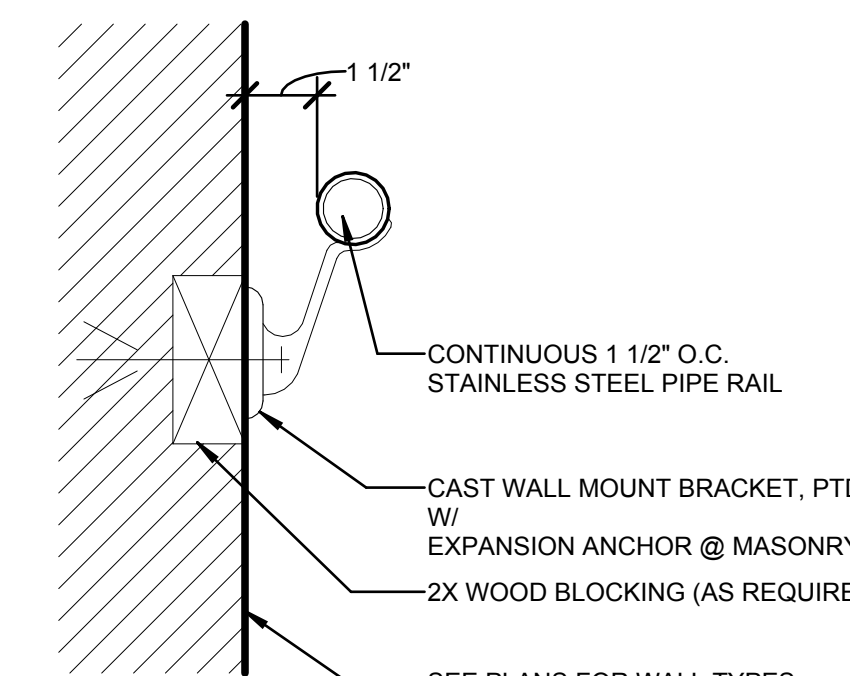
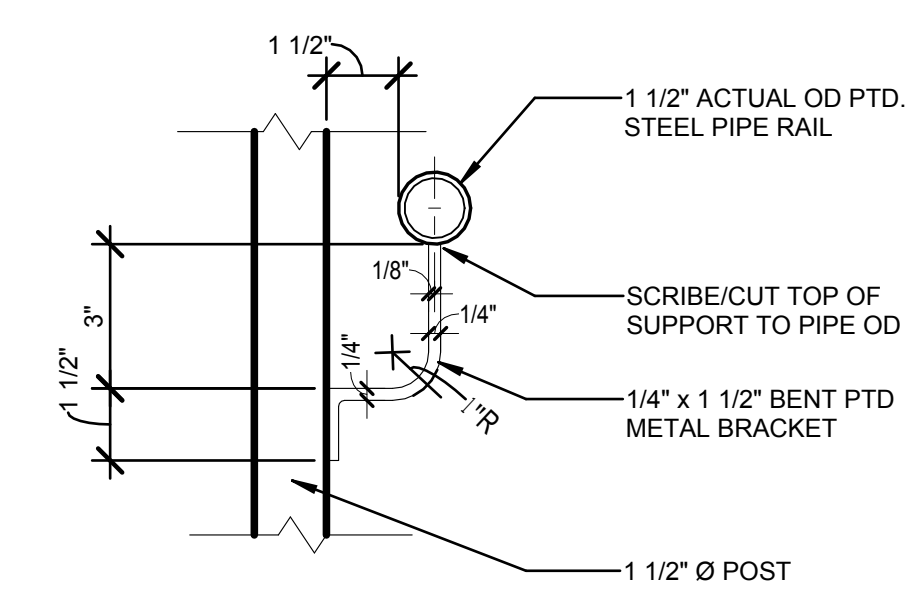
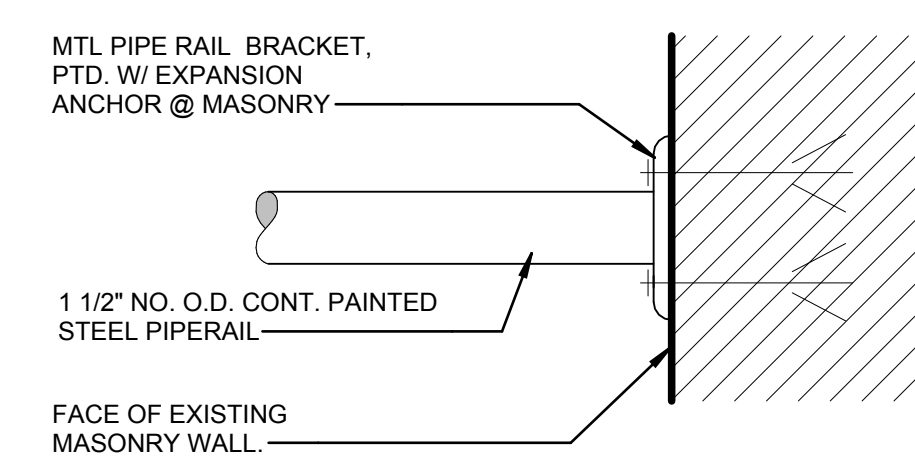
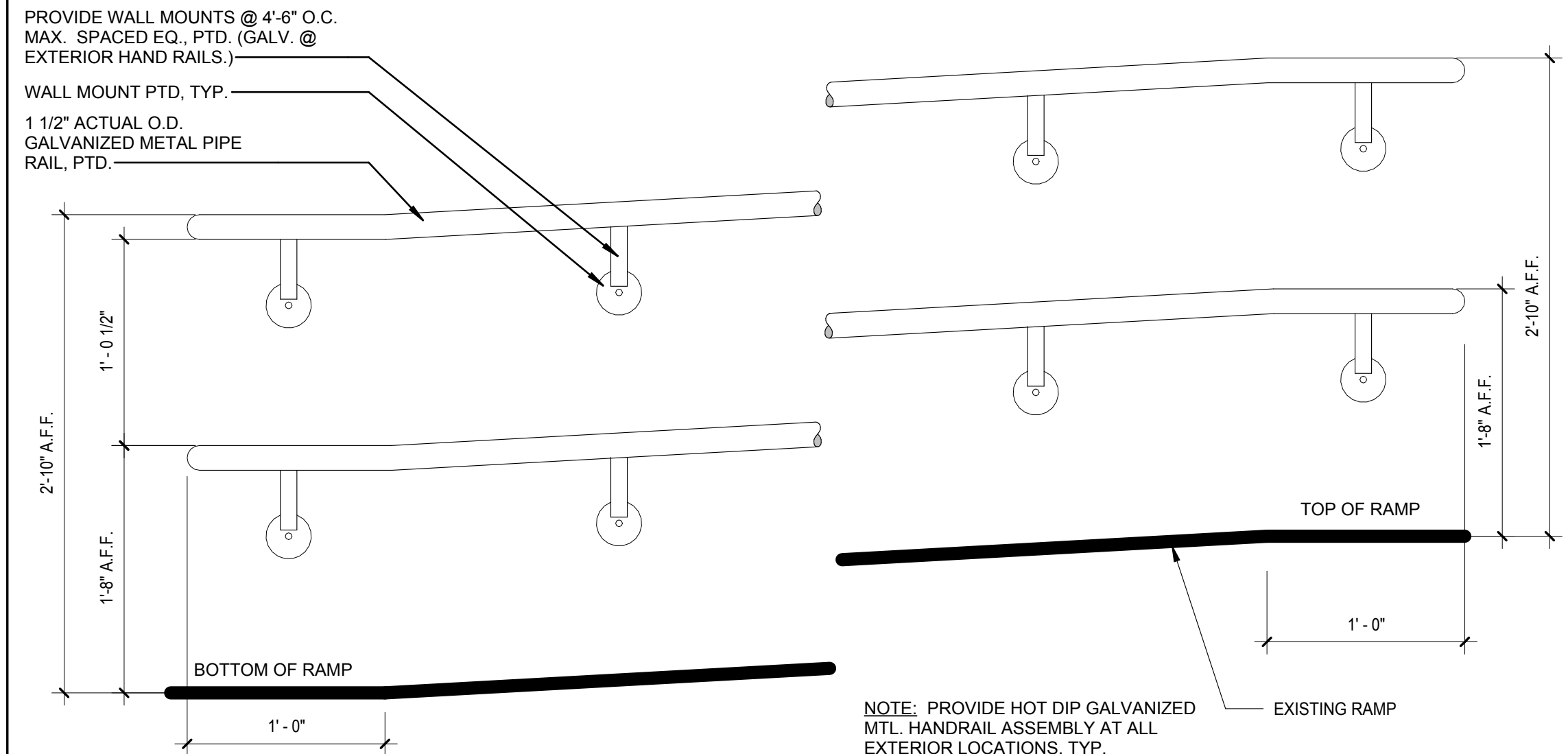
PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

**ENLARGED PLANS,
SECTIONS & DETAILS**

A-420

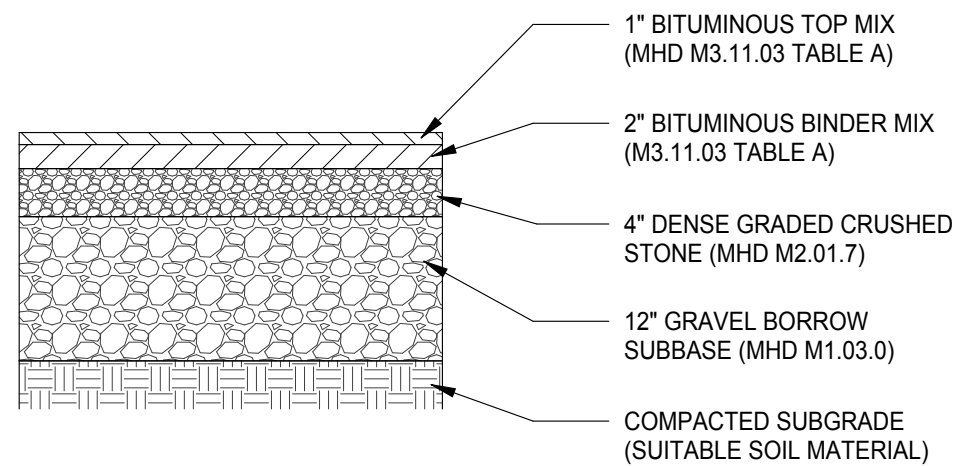
This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

[illegible]

DETAILS

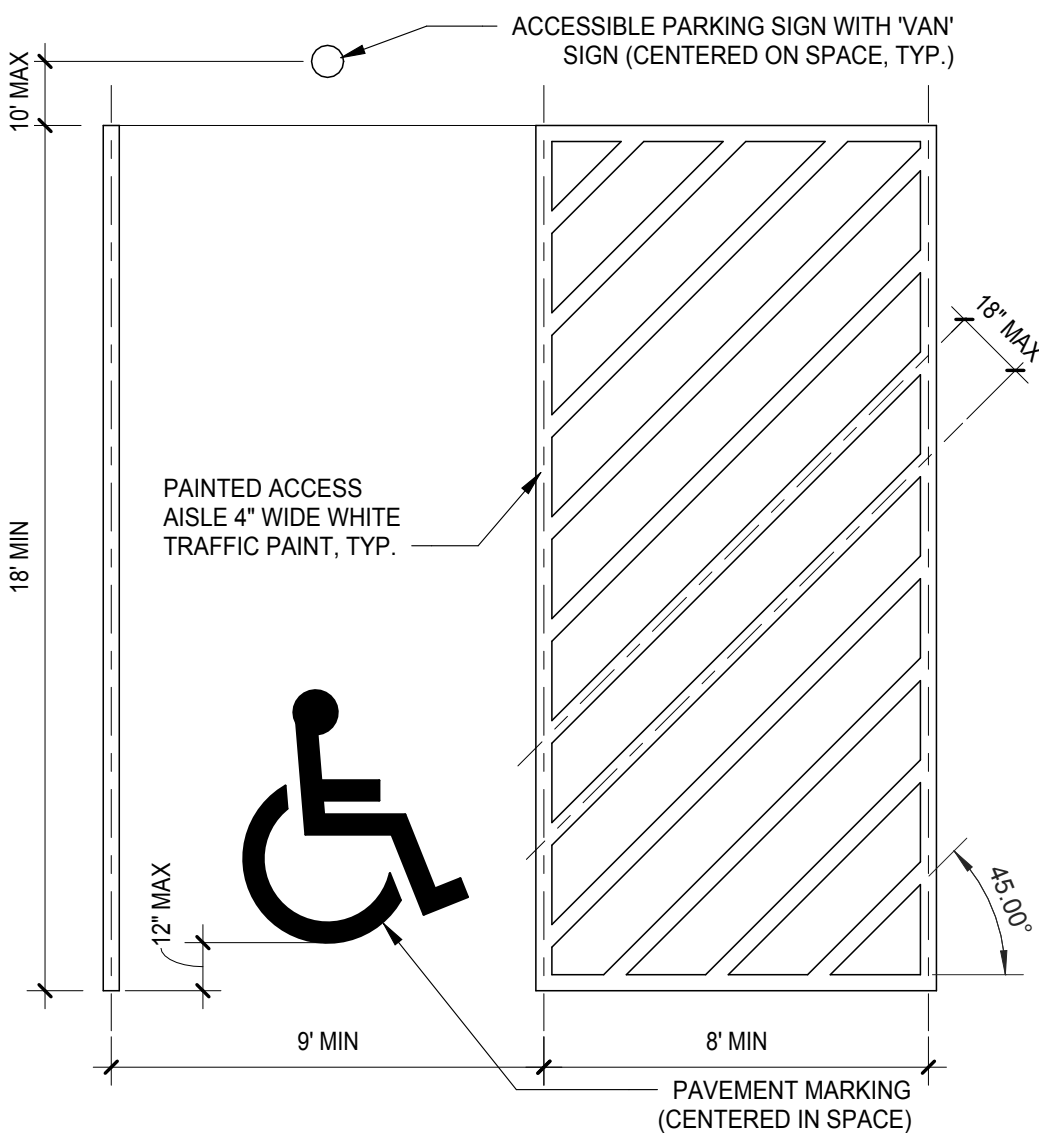
A-501



2 ASPHALT PAVEMENT
SCALE: NOT TO SCALE

- 12" X 18" ALUMINUM SIGN, BLUE BACKGROUND WITH WHITE LETTERING
- 6"X12" ALUMINUM "VAN" SIGN

ACCESSIBLE SIGNAGE



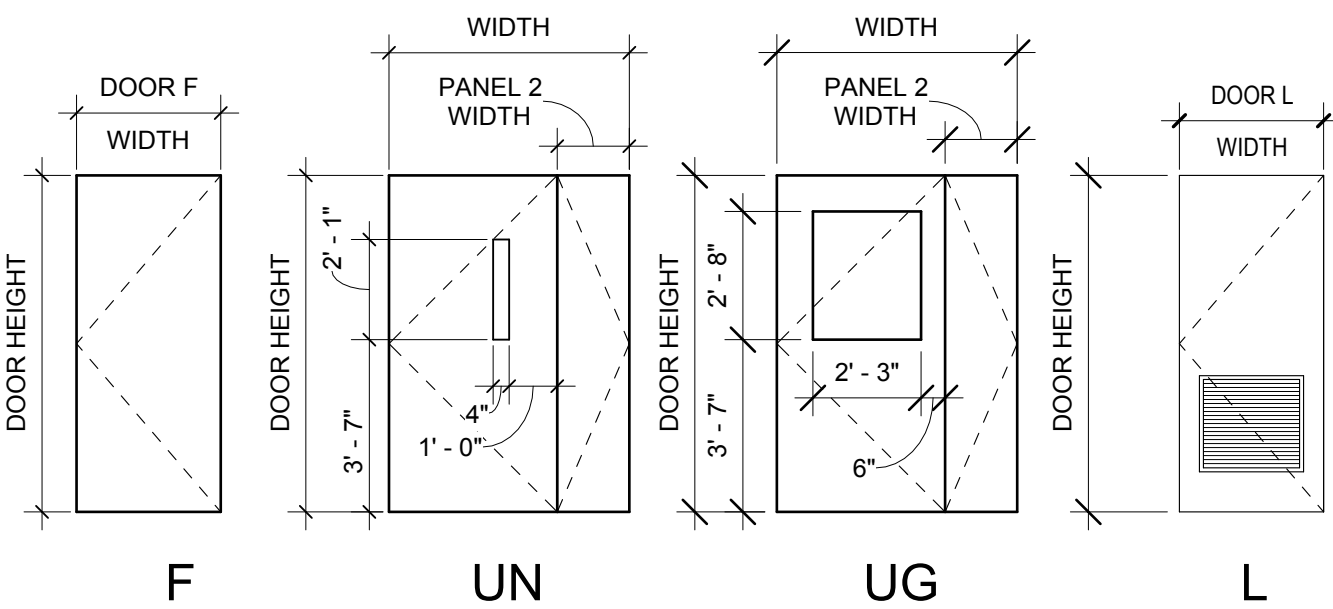
PARKING STRIPING

SCALE: NOT TO SCALE

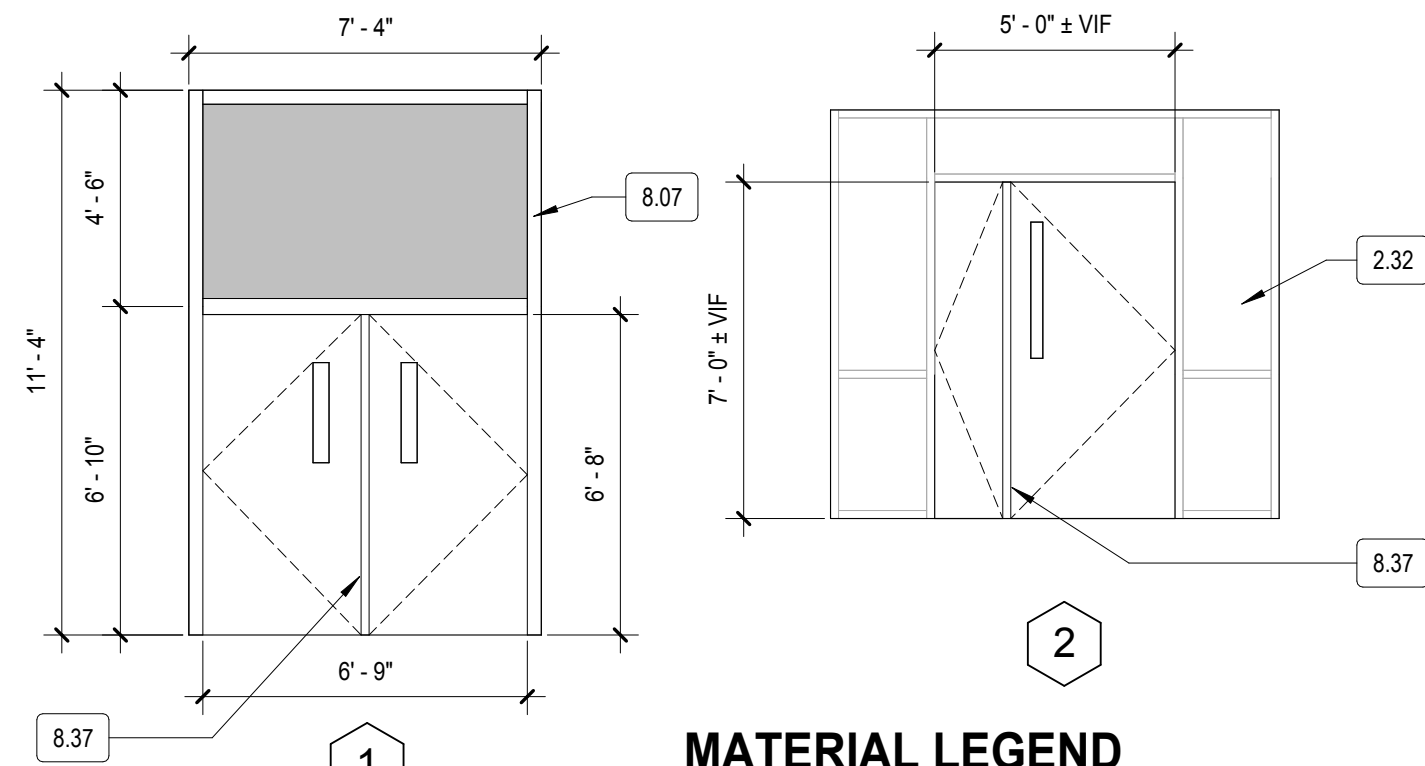
This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

PLOTTED ON: 5/20/2024 11:12:23 AM

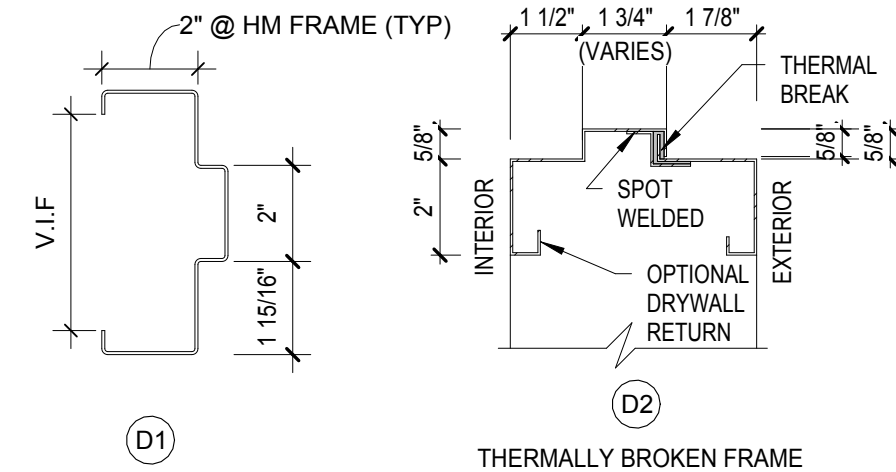
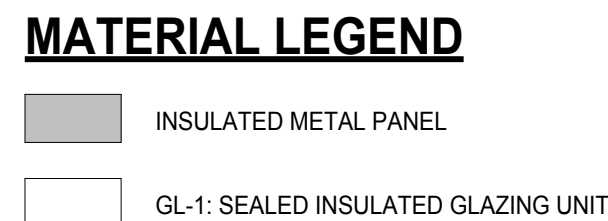
DOOR & FRAME SCHEDULE																	
MARK	DOOR PANEL	Door Panel 2 Width	DOOR PANEL						FRAME					FIRE RATING	HDWE SET	COMMENTS	
	SIZE		HEIGHT	THICK	Panel Material	Lite Material	Panel Type	FRAME MATERIAL	DETAIL			Type					
									HEAD	JAMB	SILL						
1	6" - 9"	N/A	6" - 8"	1 3/4"	FRP	Glass	N	Aluminum	3/A-601	5/A-601	3/A-601	1		20 MIN.	6	S LABEL	
2	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX		20 MIN.	6	S LABEL	
3	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Door - Frame - Hollow Metal	5/A-601	4/A-601		EX		20 MIN.	6	S LABEL	
4	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX		20 MIN.	6	S LABEL	
5	3" - 0"	N/A	7" - 0"	1 3/4"	WD	N/A	F	Door - Frame - Hollow Metal	5/A-601	4/A-601		A			4		
6	3" - 0"	N/A	7" - 0"	1 3/4"	WD	N/A	F	Door - Frame - Hollow Metal	5/A-601	4/A-601		A			5		
7	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
8	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
9	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
10	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
11	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
12	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX		20 MIN.	6	S LABEL	
13	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
14	5" - 4"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX			8		
15	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
16	5" - 4"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX			8		
17	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
18	5" - 2"	1" - 8"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
19	4" - 10"	1" - 4"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX			7		
20	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
21	5" - 0"	1" - 6"	7" - 0"	1 3/4"	WD	Glass	UN	Existing	EX	EX	EX	EX	20 MIN.	6	S LABEL		
22	5" - 0"	1" - 6"	7" - 0"	1 3/4"	FRP	Glass	UN	Existing	EX	EX	EX	EX			2		
23	5" - 2"	1" - 8"	7" - 0"	1 3/4"	FRP	Glass	UN	Aluminum	2/A-601	1/A-601	3/A-601	B			3		



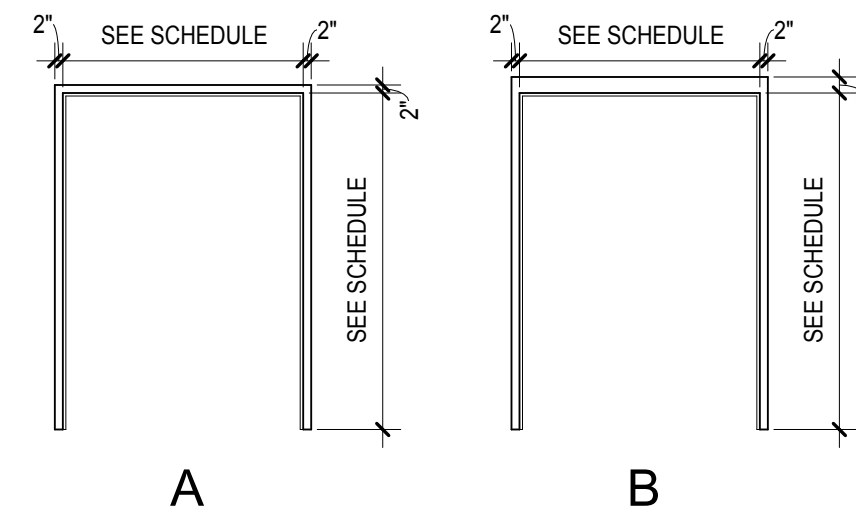
DOOR PANEL TYPES



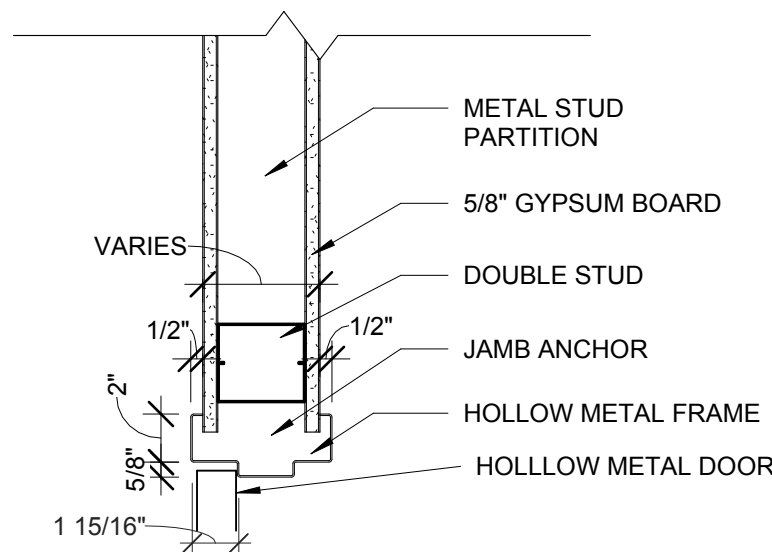
OPENING TYPES - NEW



FRAME PROFILES

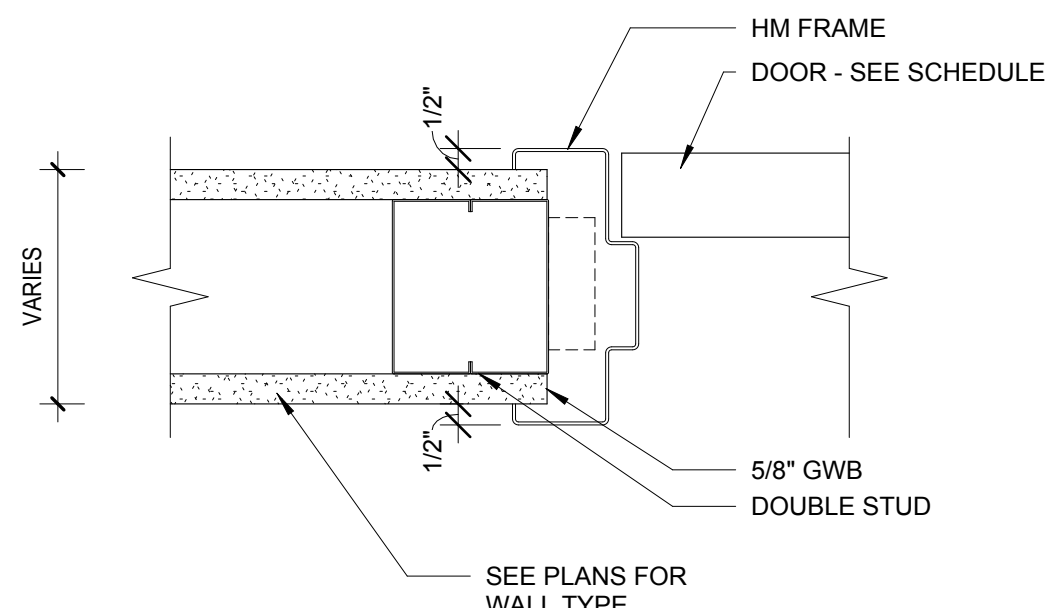
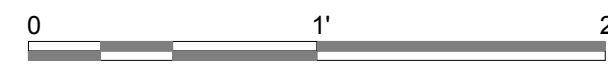


DOOR FRAME TYPES



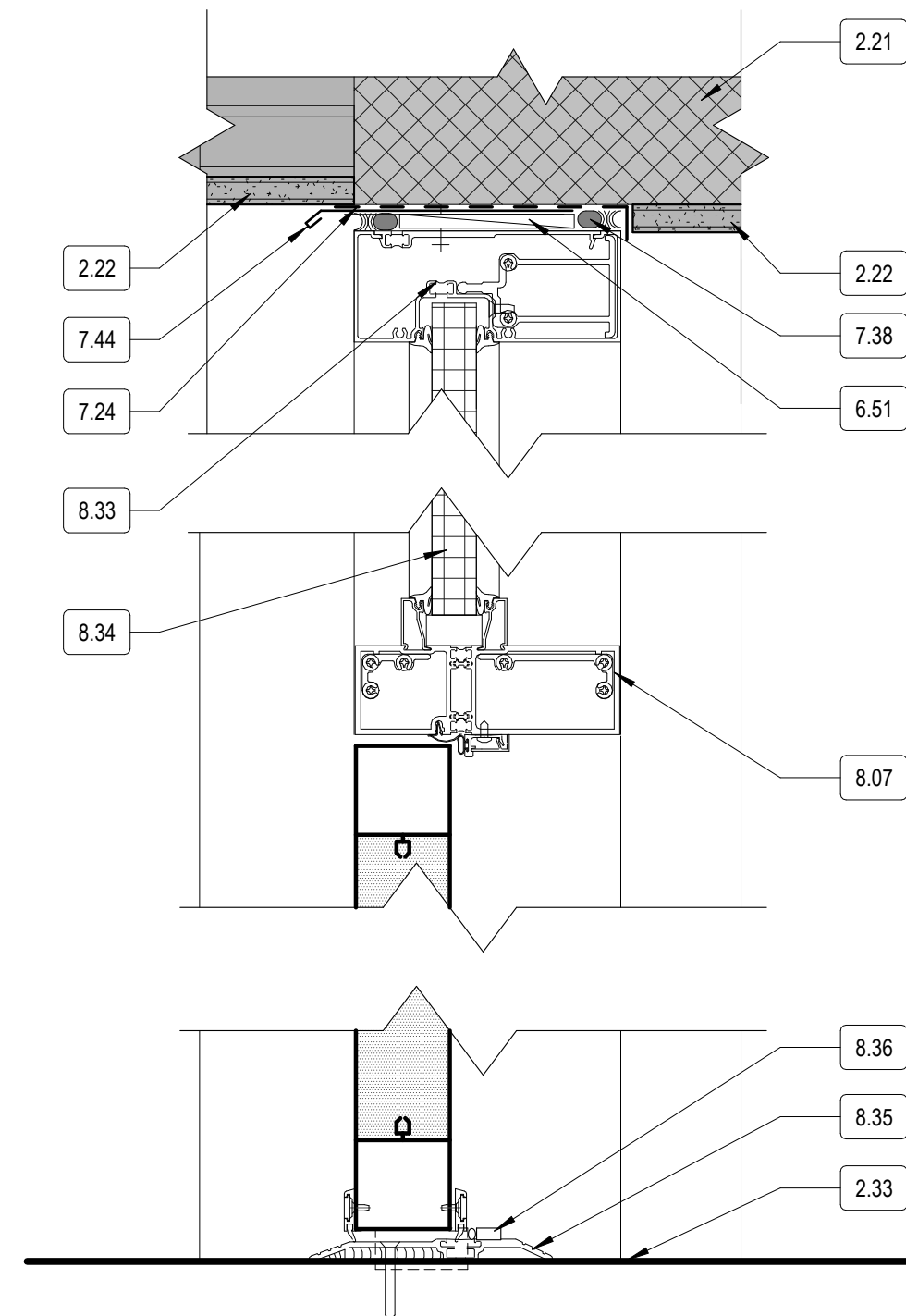
5 INTERIOR DOOR JAMB / HEAD

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



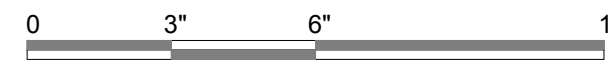
4 TYPICAL HM FRAME

SCALE: 3" = 1'-0"



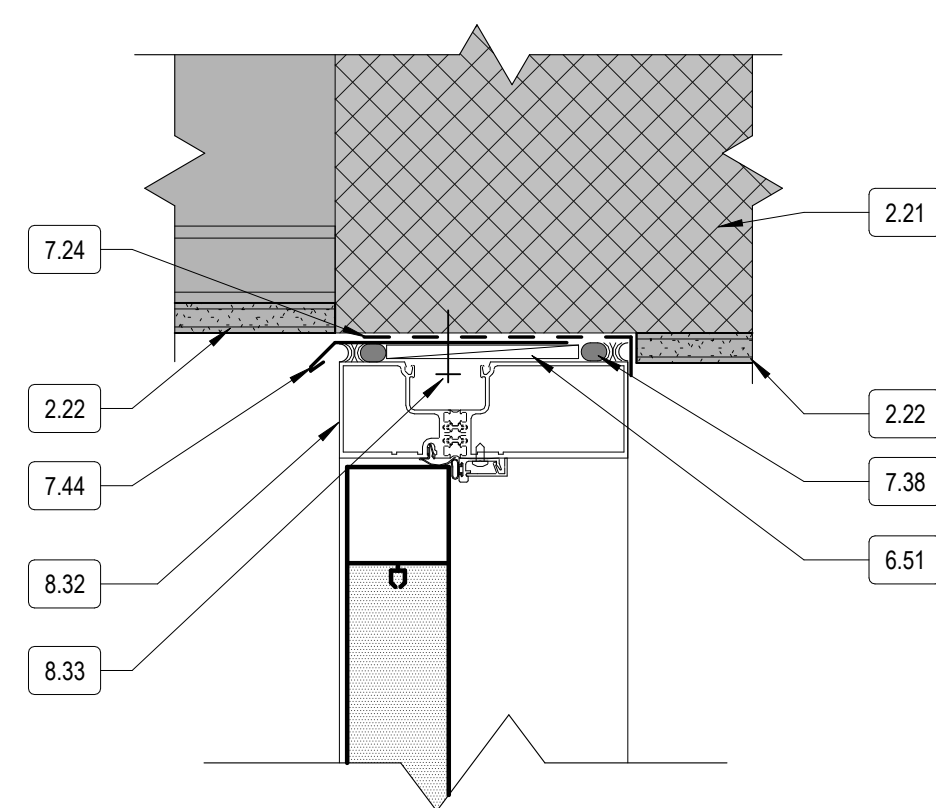
DOOR - HEAD AND SILL DETAIL - NEW WORK

SCALE: 3" = 1'-0"



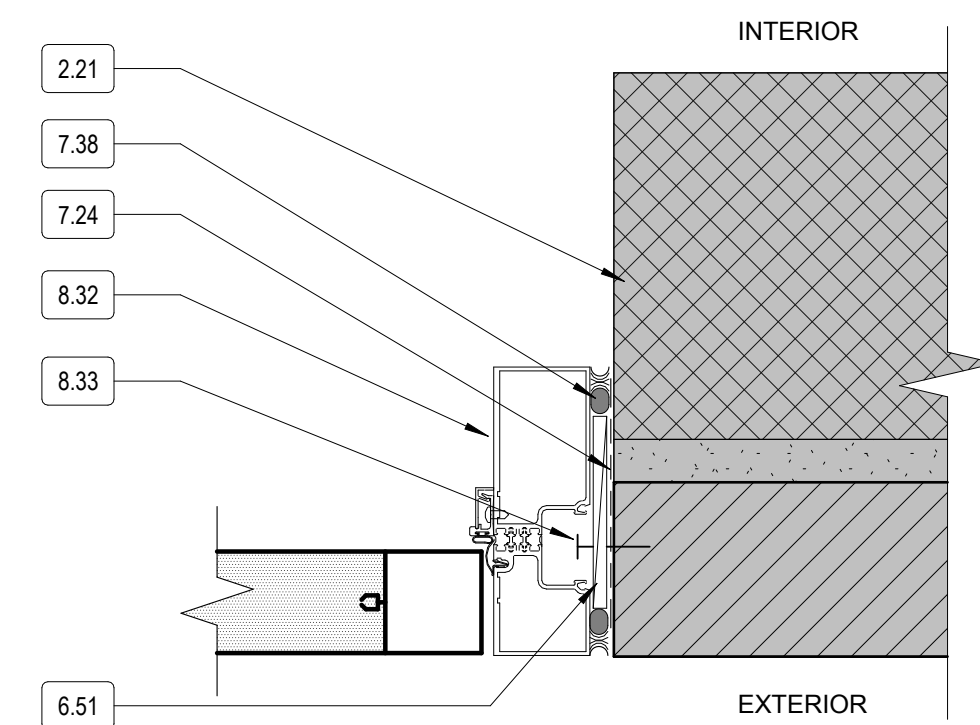
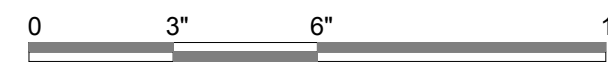
KEY NOTES

2.21	EXISTING MASONRY WALL TO REMAIN.
2.22	EXISTING CEILING TO REMAIN.
2.32	EXISTING FRAME TO REMAIN.
2.33	EXISTING FLOORING TO REMAIN.
6.51	SHIM AS REQUIRED, INFILL WITH LOW EXPANSION SPRAYFOAM.
7.24	MEMBRANE FLASHING
7.38	CONTINUOUS BACKER ROD AND SEALANT, BOTH SIDES, TYP.
7.44	ALUMINUM DRIP EDGE FLASHING.
8.07	ALUMINUM DOOR & WINDOW SYSTEM
8.32	DOOR AND FRAME, REFER TO DOOR SCHEDULE.
8.33	SECURE FRAME WITH MANUFACTURER'S RECOMMENDED FASTENERS.
8.34	INSULATED FRP PANEL
8.35	6" ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC, TYP.
8.36	BACKSTOP AND WEATHER STRIPPING.
8.37	REMOVABLE MULLION.



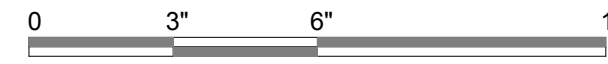
2 DOOR - HEAD DETAIL

SCALE: 3" = 1'-0"

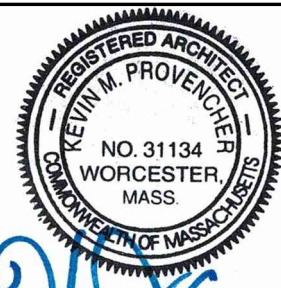


1 DOOR JAMB

SCALE: 3" = 1'-0"



H&A HABEEB & ASSOCIATES
ARCHITECTS
20 LONGWATER DR
DURWELL, MA 02861
00 GROVE ST #303
CESTER, MA 01605
TEL 471-9804
habeebarch.com



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

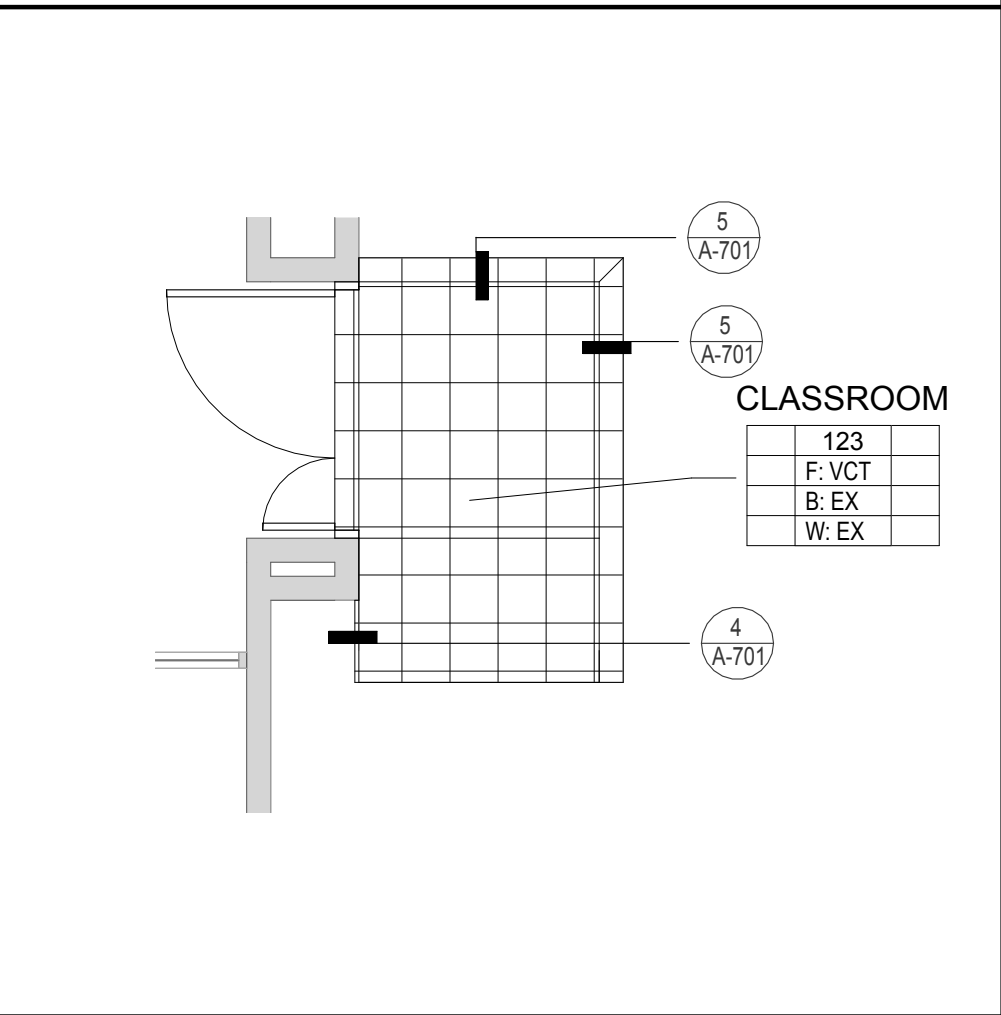
135 BURNCOAT ST

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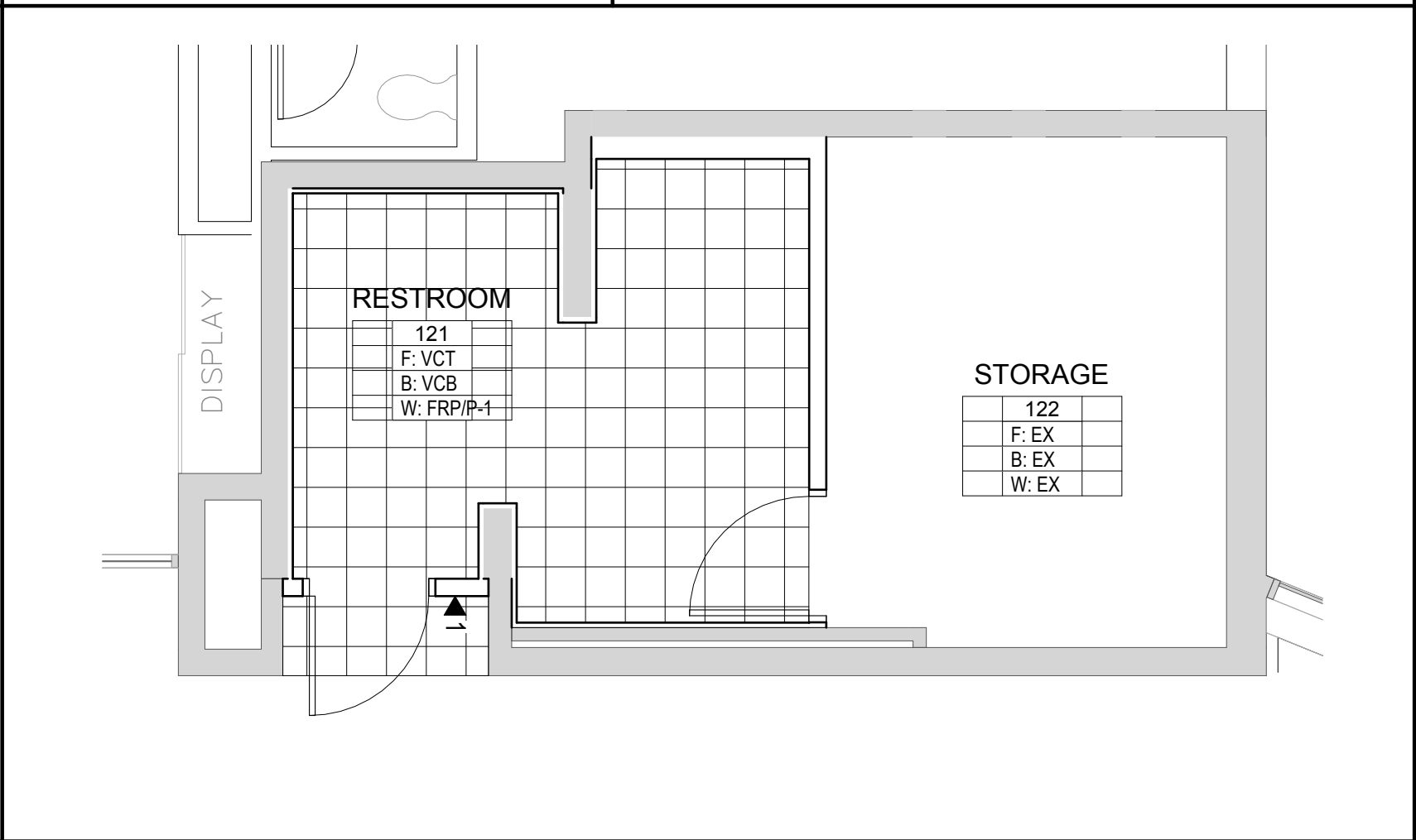
PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

DOOR SCHEDULE & DETAILS

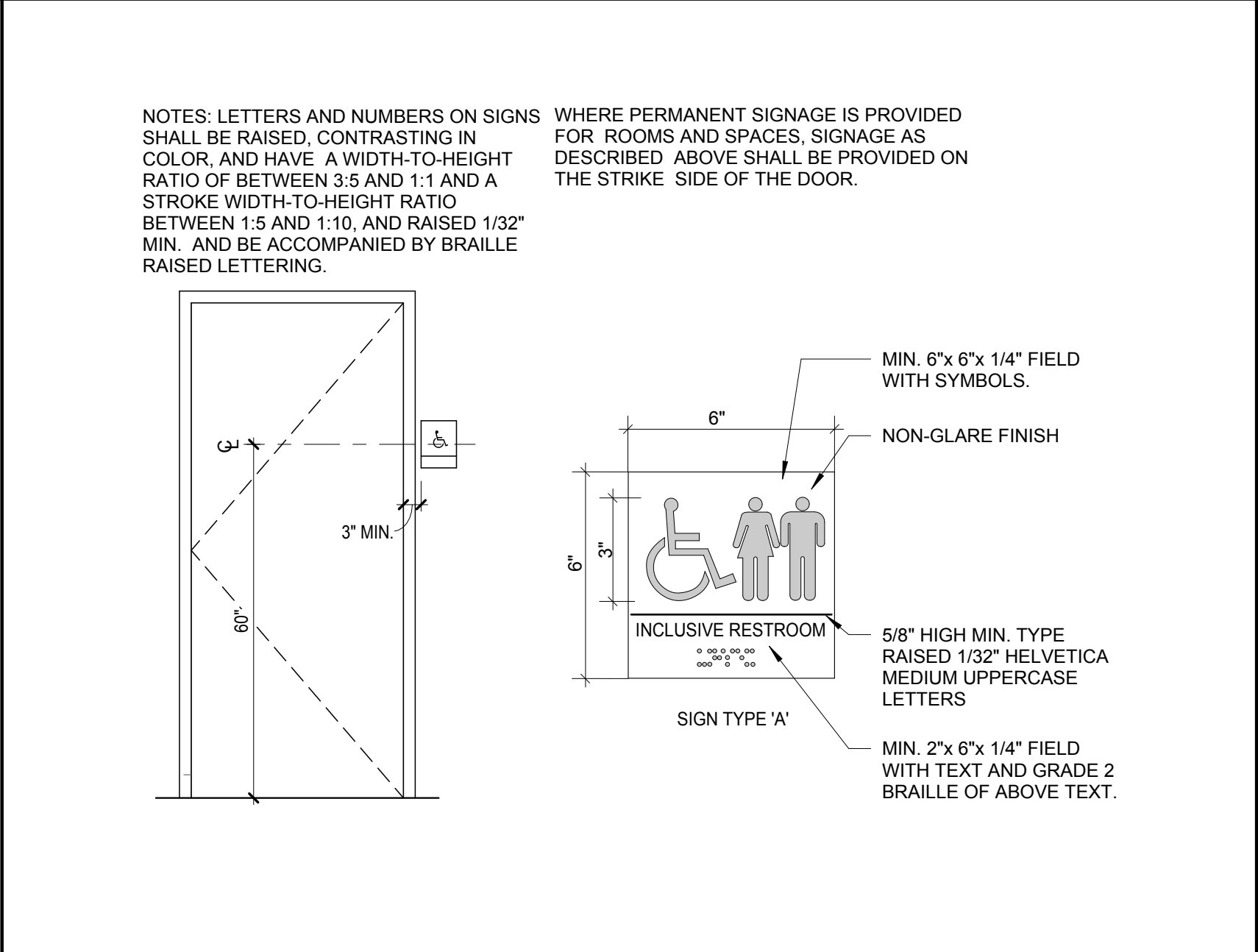
A-601



3 CLASSROOM - FINISHES
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

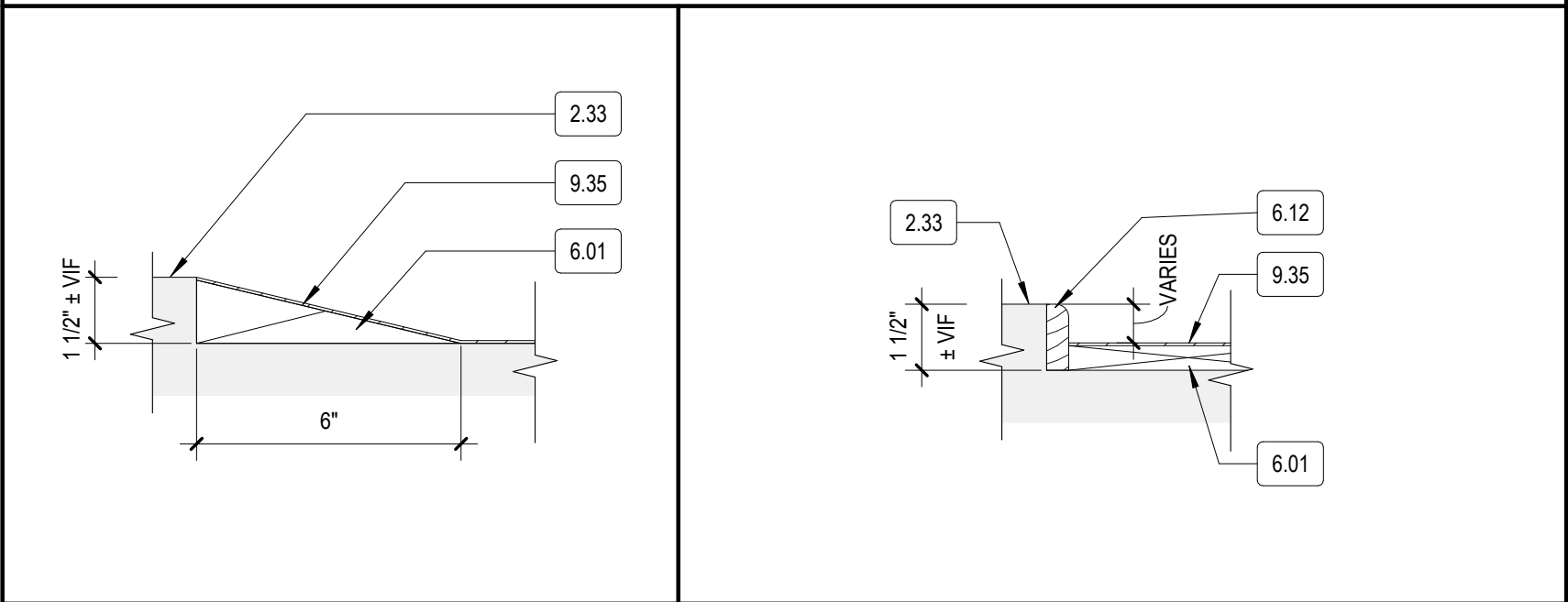


2 2ND FLOOR RESTROOM - FINISHES
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

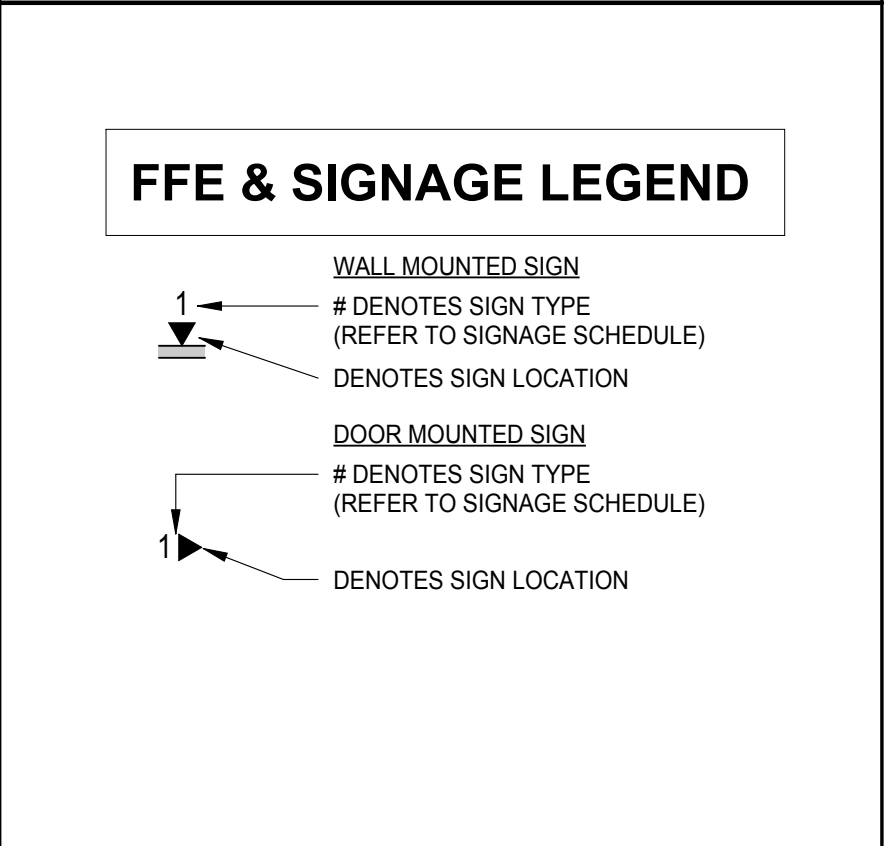


6 TOILET RM SIGNAGE
SCALE: N.T.S.

ROOM FINISH SCHEDULE									
Level	ROOM NUMBER	ROOM NAME	F	W	B	C	CEILING HEIGHT	Area	Volume
2ND FLOOR	121	RESTROOM	VCT	FRP/P-1	VCB	ACT	9' - 0"	133 SF	1197.35 CF
2ND FLOOR	122	STORAGE	EX	EX	EX	EX	EX	128 SF	1245.88 CF
2ND FLOOR	123	CLASSROOM	VCT	EX	EX	EX	EX	1106 SF	9820.68 CF



SIGNAGE SCHEDULE		
SIGN NUMBER	Sign Type	TEXT (BY TYPE)
1	A	INCLUSIVE RESTROOM

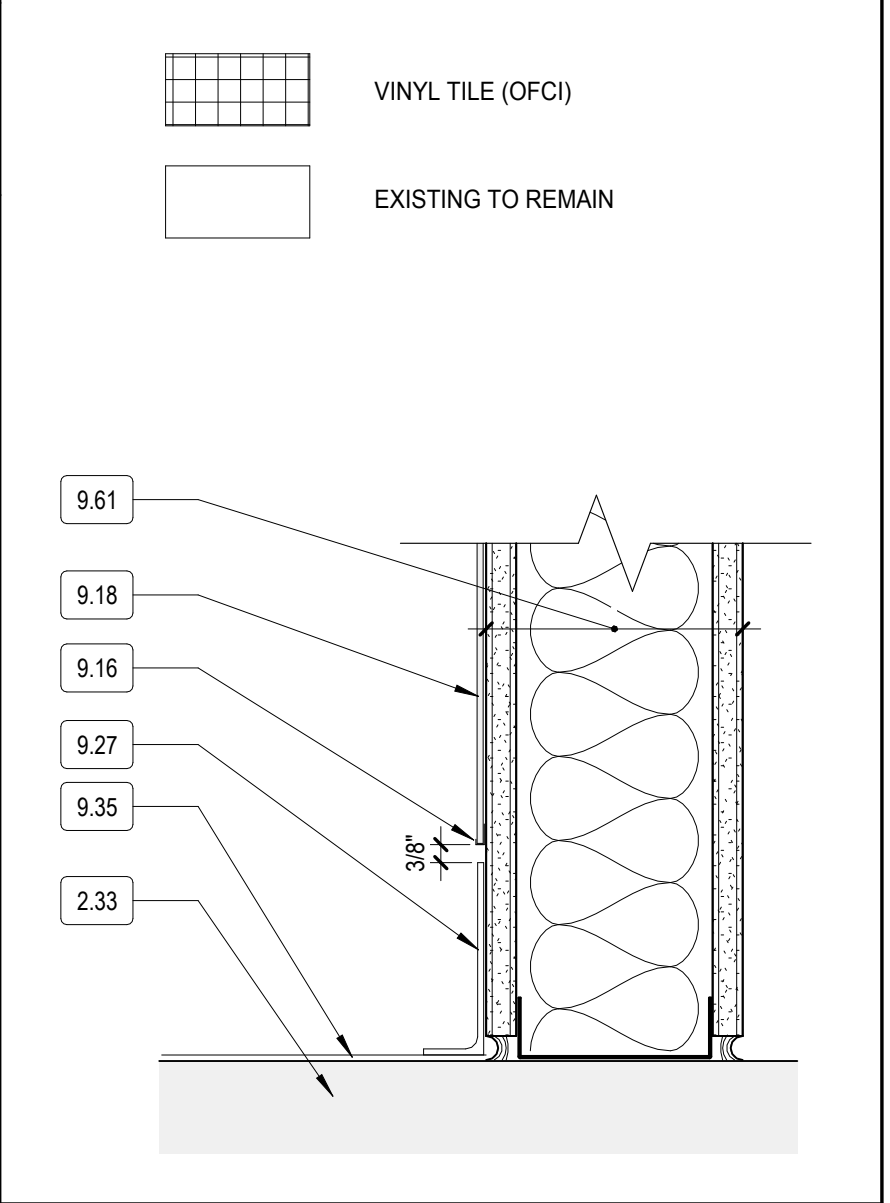


LEGEND OF FINISHES	
FLOOR	
EX	EXISTING TO REMAIN
VCT	VINYL TILE
BASE	
EX	EXISTING TO REMAIN
VCB	VINYL COVE BASE - TYPE 1
WALL	
EX	EXISTING TO REMAIN
P-1	PAINTED GWB - TYPE 1
FRP	FIBER REINFORCED PANEL UP TO 4'-0" AFF
CEILING	
EX	EXISTING TO REMAIN
ACT	ACOUSTIC CEILING TILE - 2' X 2'

LEGEND OF FINISHES	
FLOOR	
EX	EXISTING TO REMAIN
VCT	VINYL TILE
BASE	
EX	EXISTING TO REMAIN
VCB	VINYL COVE BASE - TYPE 1
WALL	
EX	EXISTING TO REMAIN
P-1	PAINTED GWB - TYPE 1
FRP	FIBER REINFORCED PANEL UP TO 4'-0" AFF
CEILING	
EX	EXISTING TO REMAIN
ACT	ACOUSTIC CEILING TILE - 2' X 2'

NOTE: REFER TO PROJECT SPECIFICATIONS DIVISION 9 FOR ADDITIONAL INFORMATION

FLOOR FINISH LEGEND	
	VINYL TILE (OFCI)
	EXISTING TO REMAIN

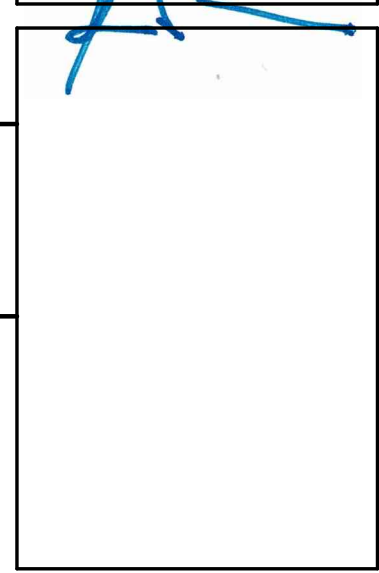
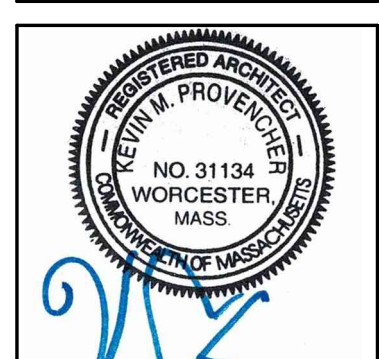


1 WALL BASE DETAIL
SCALE: 3" = 1'-0"
0 3" 6" 1'

HABEEB & ASSOCIATES ARCHITECTS

H&A

150 LONGWATER DR
NORWELL, MA 02061
100 GROVE ST #303
WORCESTER, MA 01605
781.871.9804
habeebandco.com



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS



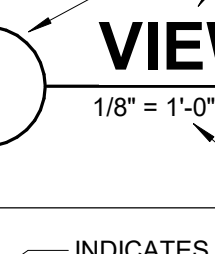
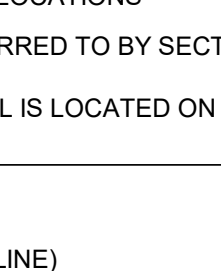
135 BURNCOAT ST
WORCESTER, MA 01606

REVISIONS	
Δ	MM-DD-YYYY DESCRIPTION

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: AS INDICATED
DRAWN BY: TP
CHECKED BY: KP

FINISH PLANS,
SCHEDULES, AND
DETAILS

A-701

 <p>NAME ———> LEVEL NAME 10'-0" ———> HEIGHT ABOVE PROJECT 0'-0"</p>	 <p>KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL</p>
 <p>VIEW NAME</p> <p>INDICATES DIRECTION OF TRUE NORTH PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME PLAN OR DETAIL SCALE</p>	
 <p>INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS DETAIL REFERRED TO BY SECTION CUT SHEET DETAIL IS LOCATED ON</p>	

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

———— NEW
 - - - - - EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
 - - - - - NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)


EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)








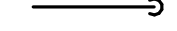





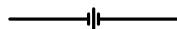
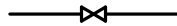



———— EXISTING
 - - - - - EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
 - - - - - EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

 INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

PLUMBING SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	COLD WATER - POTABLE
	DRAIN
	HOT WATER - POTABLE
	SANITARY DRAINAGE
	VENT
	PIPE CONTINUATION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	FD
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	VACUUM BREAKER

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

PLUMBING ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
DI	DUCTILE IRON
DN	DOWN
E	EXISTING
ETR	EXISTING TO REMAIN
ETBR	EXISTING TO BE REMOVED
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
L or LAV	LAVATORY
MV	MIXING VALVE
NIC	NOT IN CONTRACT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
UON	UNLESS OTHERWISE NOTED

PLUMBING SLOPE REQUIREMENTS:	
BASED ON PLUMBING CODE: 248 CMC 10	
INTERIOR:	
SANITARY WASTE:	$\leq 3' @ = 1/4" \text{ PER FOOT}$ $> 3' @ = 1/8" \text{ PER FOOT}$
SANITARY AND GREASE VENT:	NO SPECIFIC PITCH, PITCH TO FIXTURES
DOMESTIC WATER:	NO SPECIFIC PITCH, PITCH TO FIXTURES

PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3574 AND BE MA PLUMBING BOARD APPROVED.
5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR REMOVAL AND DEMOLITION INFORMATION.
10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

PLUMBING RENOVATION NOTES:

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOTIFY ALL EXISTING DUCTWORK AND PIPING TO BE SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE ENCOUNTERED THAT REQUIRE DUCTWORK TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. PROVIDE ACCESS TO ALL EXISTING MECHANICAL SYSTEMS IN SERVICE. DURING CONSTRUCTION, MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

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BURNCOAT MIDDLE SCHOOL, ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: As indicated
DRAWN BY: RE
CHECKED BY: TL

PLUMBING COVERSHEET

P-000

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

2ND FLOOR PLUMBING DEMO PLAN

A - WING SECOND FLOOR

H WING - FIRST FLOOR

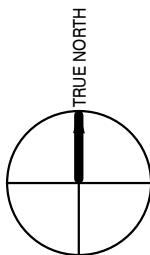
S - WING FIRST FLOOR

— REFER TO PLUMBING DRAWING P-302
FOR DEMOLITION WORK

KEY PLAN (NOT TO SCALE)

L – WING SECOND

PROJECT SCOPE

[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1" = 20'-0"
DRAWN BY: Author
CHECKED BY: Checker

**OVERALL PLUMBING
2ND FLOOR
DEMOLITION PLAN**

P-102

BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

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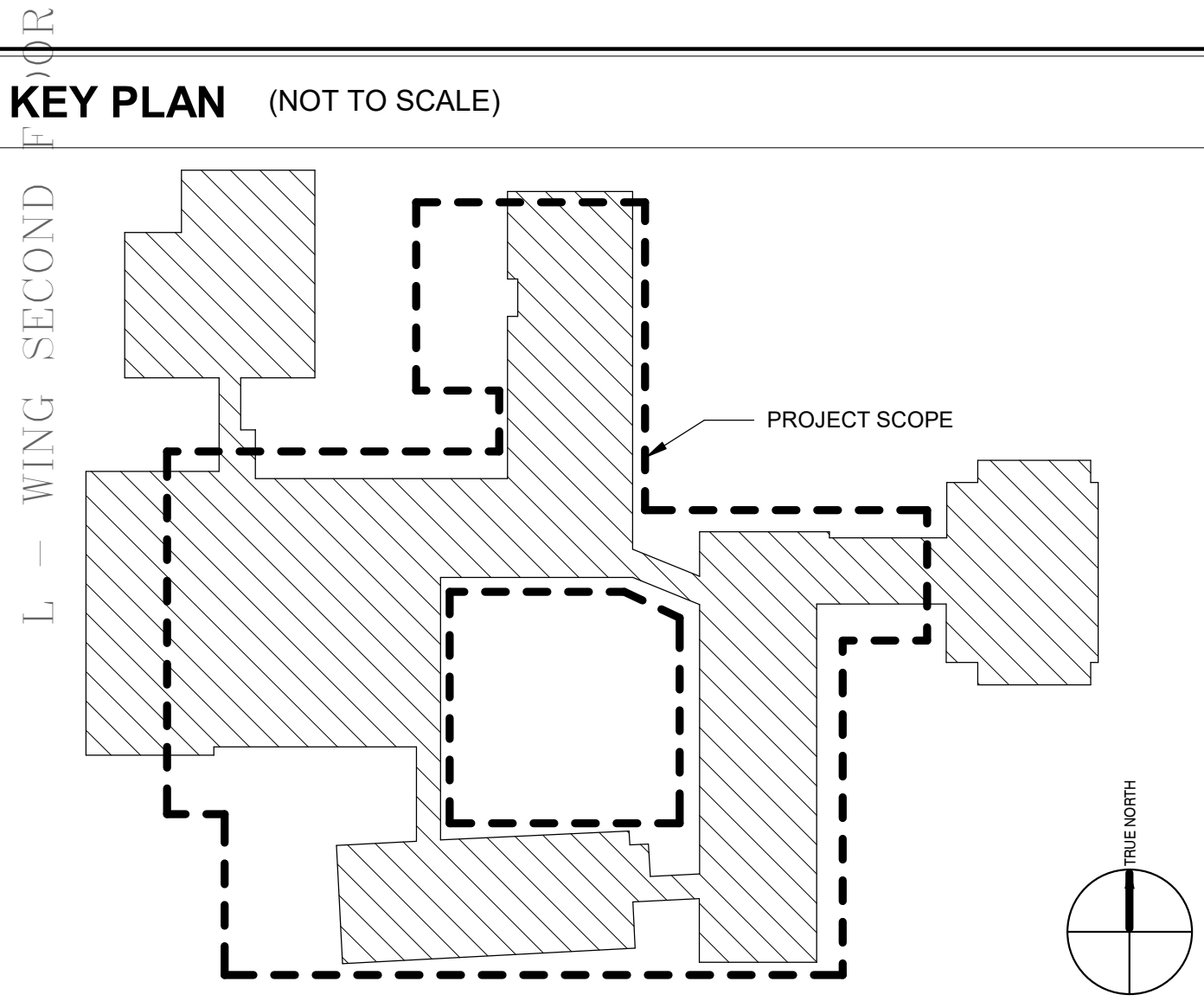
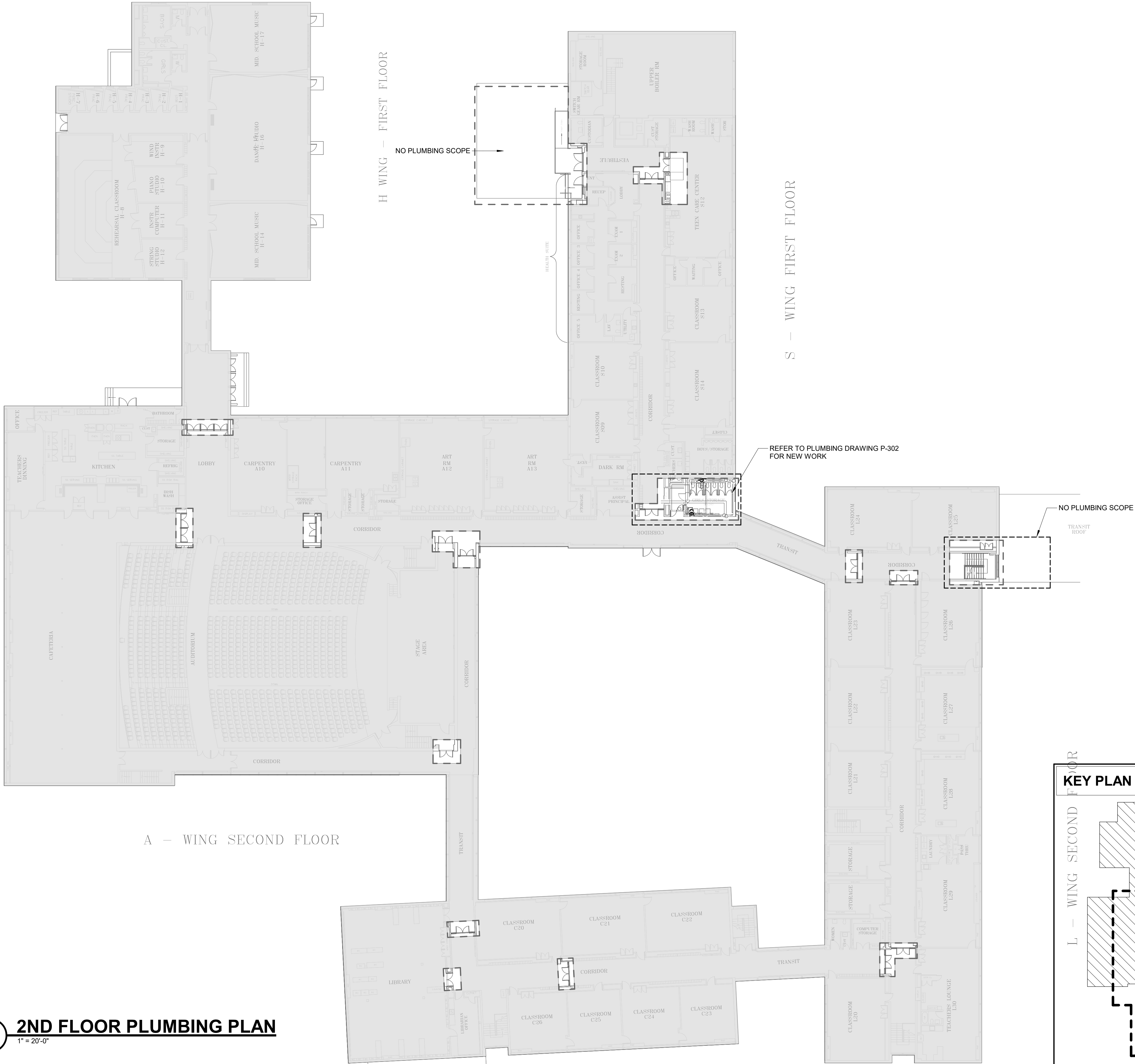
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**HABEEB & ASSOCIATES
ARCHITECTS**

1

2ND FLOOR PLUMBING PLAN

1" = 20'-0"



REVISIONS	
Δ	MM-DD-YYYY DESCRIPTION

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1" = 20'-0"
DRAWN BY: Author
CHECKED BY: Checker

OVERALL PLUMBING
2ND FLOOR PLAN

P-202

H&A

HAREEB & ASSOCIATES
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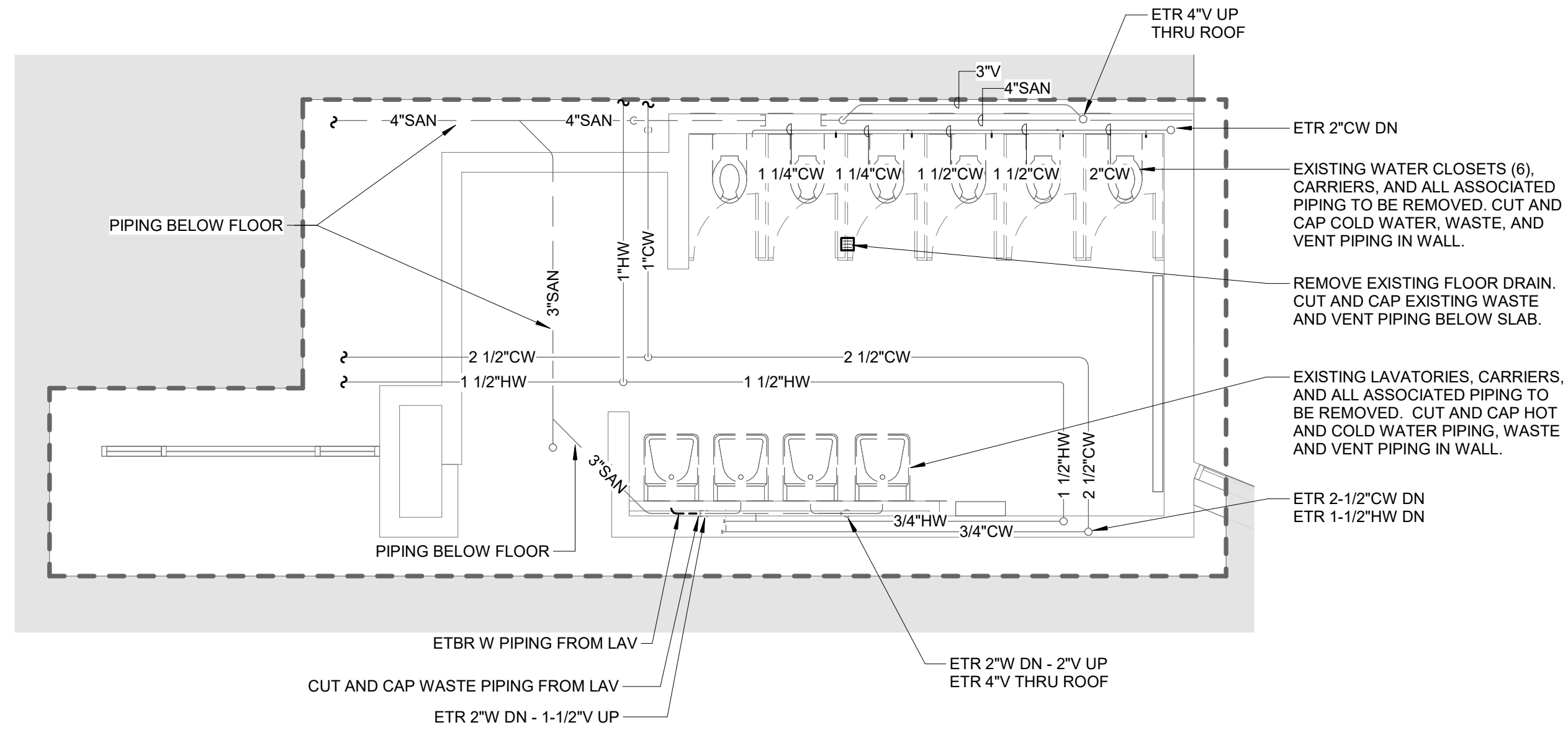
BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

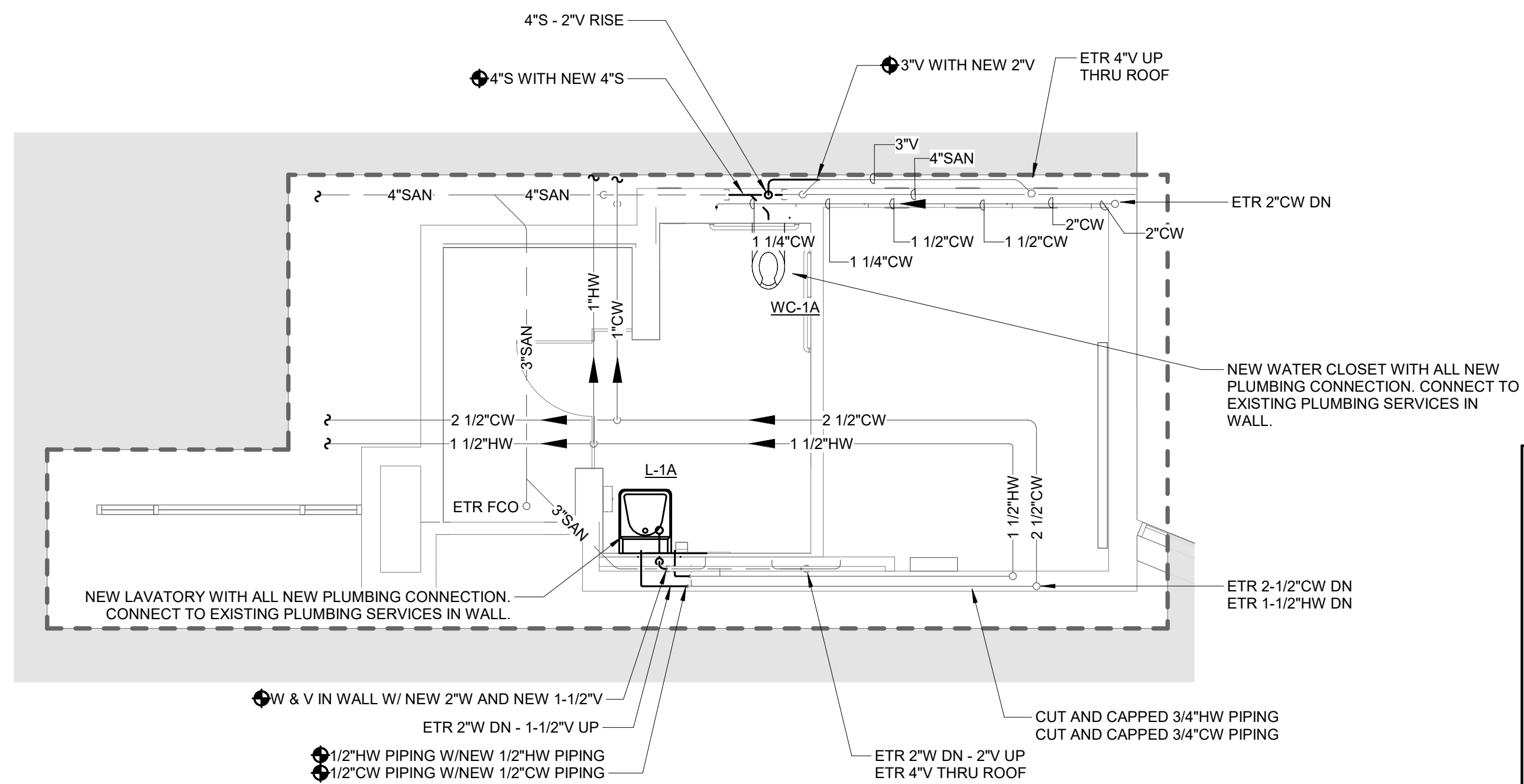
135 BURNCOAT ST
WORCESTER, MA 01606

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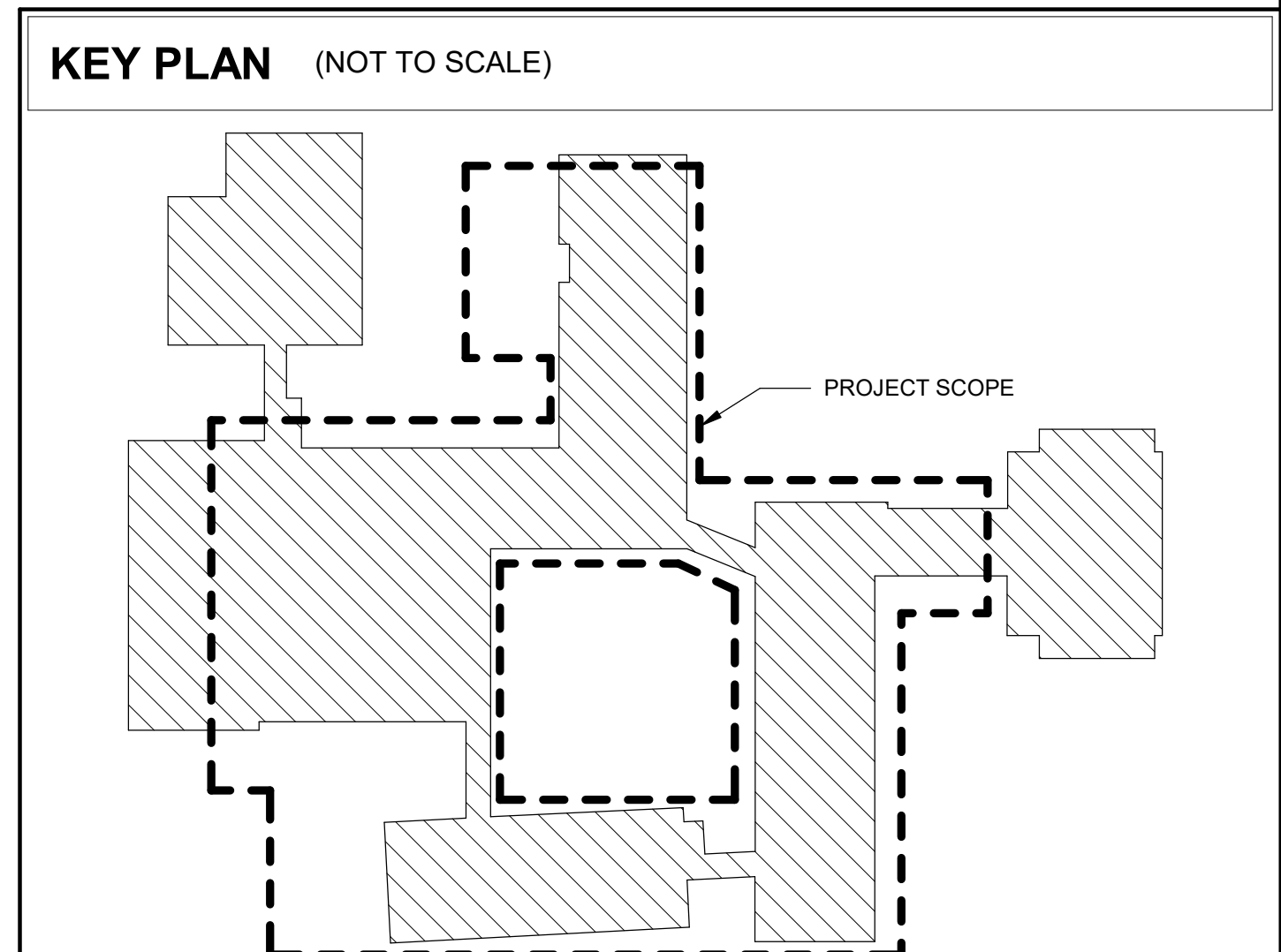
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1 PLUMBING 2ND FLOOR - RESTROOM DEMOLITION PLAN
1/4" = 1'-0"



2 PLUMBING 2ND FLOOR - RESTROOM PLAN



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BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

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[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1/4" = 1'-0"
DRAWN BY: Author
CHECKED BY: Checker

PLUMBING 2ND FLOOR RESTROOM ENLARGED PLANS

P-302



SINGLE

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 12" = 1'-0"
DRAWN BY: Author
CHECKED BY: Checker

P-400

BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
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PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)
 1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE.
 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINIMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	TRAP	COLD WATER	HOT WATER	SANITARY	VENT
L-1A	LAVATORY (ACCESSIBLE)		1/2"	1/2"	1 1/2"	1 1/2"
WC-1A	WATER CLOSET (ACCESSIBLE)		1 1/2"	-	4"	2"

PIPE INSULATION SCHEDULE (PLUMBING)

GENERAL NOTES:

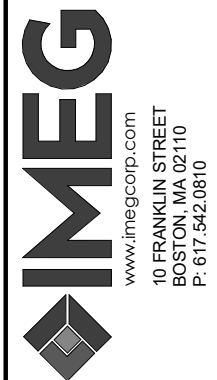
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84/UL723
5. TYPE G 4" SHALL BE INSTALLED IN TWO (2) 2" LAYERS WITH STAGGERED SEAMS.
6. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.
7. DIRECT BURIED PIPING SHALL ONLY USE TYPE C OR TYPE E. REDUCTION IN THICKNESS FOR DIRECT BURIED PIPING IS ALLOWED PER ASHRAE / IECC AS APPLICABLE.

SYMBOL		PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE					NOTES
				< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	
22 PLUMBING - WASTE									
SAN	SANITARY DRAINAGE	A (GlsFbr)		1/2"	1/2"	1"	1"	1"	APPLY INSULATION ONLY TO FLOOR DRAIN BODY, P-TRAP AND 10' DOWNSTREAM AT LOW TEMP DRAIN DISCHARGE (65 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
V	VENT	A (GlsFbr)		1/2"	1/2"	1"	1"	1"	
22 PLUMBING - WATER									
CW	COLD WATER - POTABLE	A (GlsFbr)		1/2"	1/2"	1"	1"	1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION
HW	HOT WATER - POTABLE	A (GlsFbr)		1"	1"	1 1/2"	1 1/2"	1 1/2"	

PLUMBING MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
L-1A	<p>LAVATORY - ACCESSIBLE WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER.</p> <p>LAVATORY TRIM - SENSOR ACTIVATED NON-MIXING FAUCET, BATTERY POWERED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SPOUT WITH LAMINAR FLOW OUTLET, SINGLE HOLE INSTALLATION, INTEGRAL CHECK VALVES, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE.</p> <p>MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.</p> <p>MOUNT CONTROLS AND BATTERIES IN WATERPROOF VANDAL-RESISTANT ENCLOSURE BELOW LAVATORY.</p> <p>MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.</p> <p>MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL. ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNIONTHREADED INLETS WITH STRAINERS. COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES.</p> <p>RATED FOR 8 GPM OUTPUT MAXIMUM AT 15 PSI DIFFERENTIAL AND 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 140DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET.</p> <p>UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874. INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES. ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER OR FLEXIBLE STAINLESS STEEL SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 17 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER.</p> <p>MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. MOUNT AT HEIGHT SPECIFIED BY ARCHITECT.</p>	<p>LAVATORY -</p> <p>AMERICAN STANDARD (0356921), GERBER (12-654), KOHLER (K-2031), ZURN (Z5841)</p> <p>LAVATORY TRIM - AMTC (AEF-308), T&S BRASS (ECW-3172), ZURN (ZB950-XL-S), BRADLEY (S53-3100)</p> <p>MIXING VALVE - LEONARD (170-LF/270-LF/370-LF), POWERS (SERIES LFLM495), SYMMONS (8210CK MAXLINE SERIES)</p> <p>INSULATION KIT - TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBEREX (PRO-EXTREME)</p>
WC-1A	<p>WATER CLOSET - ACCESSIBLE WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GPF, ELONGATED BOWL, 1-1/2" TOP SPUD.</p> <p>FLUSH VALVE - EXPOSED, SENSOR OPERATED, BATTERY POWERED, 1.28 GALLONS PER FLUSH, CHROME PLATED 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MECHANICAL OVER-RIDE BUTTON, LOW BATTERY INDICATOR LIGHT, RANGE ADJUSTMENT SCREW, 3 YEAR WARRANTY.</p> <p>SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED SEAT POSTS AND NUTS.</p> <p>CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZURN</p> <p>ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.</p> <p>MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). MOUNT AT HEIGHT SPECIFIED BY ARCHITECT. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.</p>	<p>WATER CLOSET - AMERICAN STANDARD (2257101), SLOAN (ST-2459), ZURN (Z5615), KOHLER (K-84325), TOTO (CT708E)</p> <p>FLUSH VALVE -SLOAN (8111-1.28), TOTO (TET1LA32#CP), OR APPROVED EQUAL</p> <p>SEAT - BEMIS (3156SSCT), CHURCH (3155C), BENEKE (533PC), OLSONITE (95), SAME AS WATER CLOSET MANUFACTURER</p>

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BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST.
WORCESTER, MA 01606

[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE:
DRAWN BY: Author
CHECKED BY: Checker

PLUMBING SCHEDULES

P-600

VIEW NAME

NAME → LEVEL NAME
10'-0" → HEIGHT ABOVE PROJECT 0'-0"

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

SIM

DETAIL REFERRED TO BY SECTION CUT

SIM

1

M101

SHEET DETAIL IS LOCATED ON

T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
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HALFTONING DOES NOT MODIFY SCOPE.

'TAG-E' TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

↓ INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL


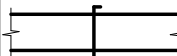
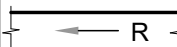
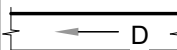
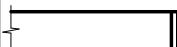
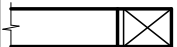
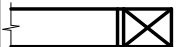



<h2 style="text-align: center;">APPLICABLE CODES</h2>	
<p style="text-align: center;">CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:</p>	
BUILDING CODE:	780 CMR 9TH EDITION
FIRE CODE:	NFPA: 1 2021 EDITION
MECHANICAL CODE:	IMC 2015 EDITION WITH MA AMENDMENTS
ELECTRICAL CODE:	NFPA 70 (NEC) 2023 EDITION
ENERGY CONSERVATION CODE:	IECC 2021 WITH MA AMENDMENTS
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

HVAC SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE (NUMBER INDICATES GPM)
	AUTOMATIC BALANCING VALVE
	MIXING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE

HVAC ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DN	DOWN
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EP	ELECTRICAL TO PNEUMATIC VALVE
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
PS	PRESSURE SWITCH
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TPY	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

DUCT ABBREVIATION KEY	
ABBR.	DESCRIPTION
EA	EXHAUST AIR

HVAC SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	MANUAL VOLUME DAMPER
	RISE IN DIRECTION OF AIR FLOW
	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
SD-1 6/115	AIR TERMINAL PROPERTIES <u>SYMBOL</u> NECK SIZE/CFM
①	THERMOSTAT/SENSOR
T	TEMPERATURE SENSOR (DUCT MOUNTED)

TAB PRE-DEMOLITION NOTES:

1. BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE UNOCCUPIED AREAS OF THE CONSTRUCTION PROJECT. COMPLETED.
2. IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ALTERNATE MEASUREMENTS WERE TAKEN.
3. TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT.
4. TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
5. TAB CONTRACTOR SHALL PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL." THOSE MEASUREMENTS SHALL BE INCLUDED IN THE POST-CONSTRUCTION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE CONSTRUCTION DRAWINGS. GRILLE AND DIFFUSER READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF THE DRAWINGS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLANS WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO TRAVERSES, GRILLES, AND DIFFUSERS THAT MATCH THOSE ON THE FINAL POST-DEMOLITION REPORT. THE SAME ROOM NAME AND NUMBER DESIGNATIONS SHALL BE USED TO SIMPLIFY THE CROSS-REFERENCING OF READINGS TAKEN BETWEEN PRE-DEMOLITION AND POST-CONSTRUCTION REPORTS.
6. BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

TAB POST-CONSTRUCTION NOTES:

- | | |
|---|---|
| 1. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS. | 3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY / GREATER NUMBER SHALL GOVERN. |
| 2. AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW VALUES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE- DEMOLITION REPORT). | 4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. |
| 3. IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN. | 5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES FOR OPERATIONS AND MAINTENANCE CODES, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS. |
| 4. A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT. | 6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS. |
| 5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93. | 7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS. |
| 6. THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS. | 8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL |

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS:	BASED ON WEATHER DATA FOR: WORCESTER, MA
SUMMER:	86°F DRY BULB, 71.4°F WET BULB
WINTER:	1.7°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN:	75°F DRY BULB, 50% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)
WINTER DESIGN:	70°F DRY BULB, NO HUMIDITY REQUIREMENT
SUMMER SETBACK:	80°F DRY BULB, 50% RELATIVE HUMIDITY (NO HUMIDITY REQUIREMENT)
WINTER SETBACK:	65°F DRY BULB, NO HUMIDITY REQUIREMENT

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

VENTILATION GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
2. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
3. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
4. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
5. CONTRACTOR MAY REQUEST PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASS ARE CORRECT. DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO VENTILATION, PIPING AND TEMPERATURE CONTROL.

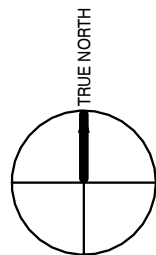
1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE QUALITY OF MATERIAL REQUIRED IS THE QUALITY OF OTHER TRADES.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICAL MEASUREMENTS. EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDER.
6. REVIEW EACH DRAWING FOR EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
12. SEAL ALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
13. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
14. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTION, SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK OR TIE UP PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
18. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT. THE EQUIPMENT SPACE SHALL BE A CLEAR SPACE WITH NO SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
19. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE EXCEEDED, SUBMIT A DETAILED ANALYSIS OF THE FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKLED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

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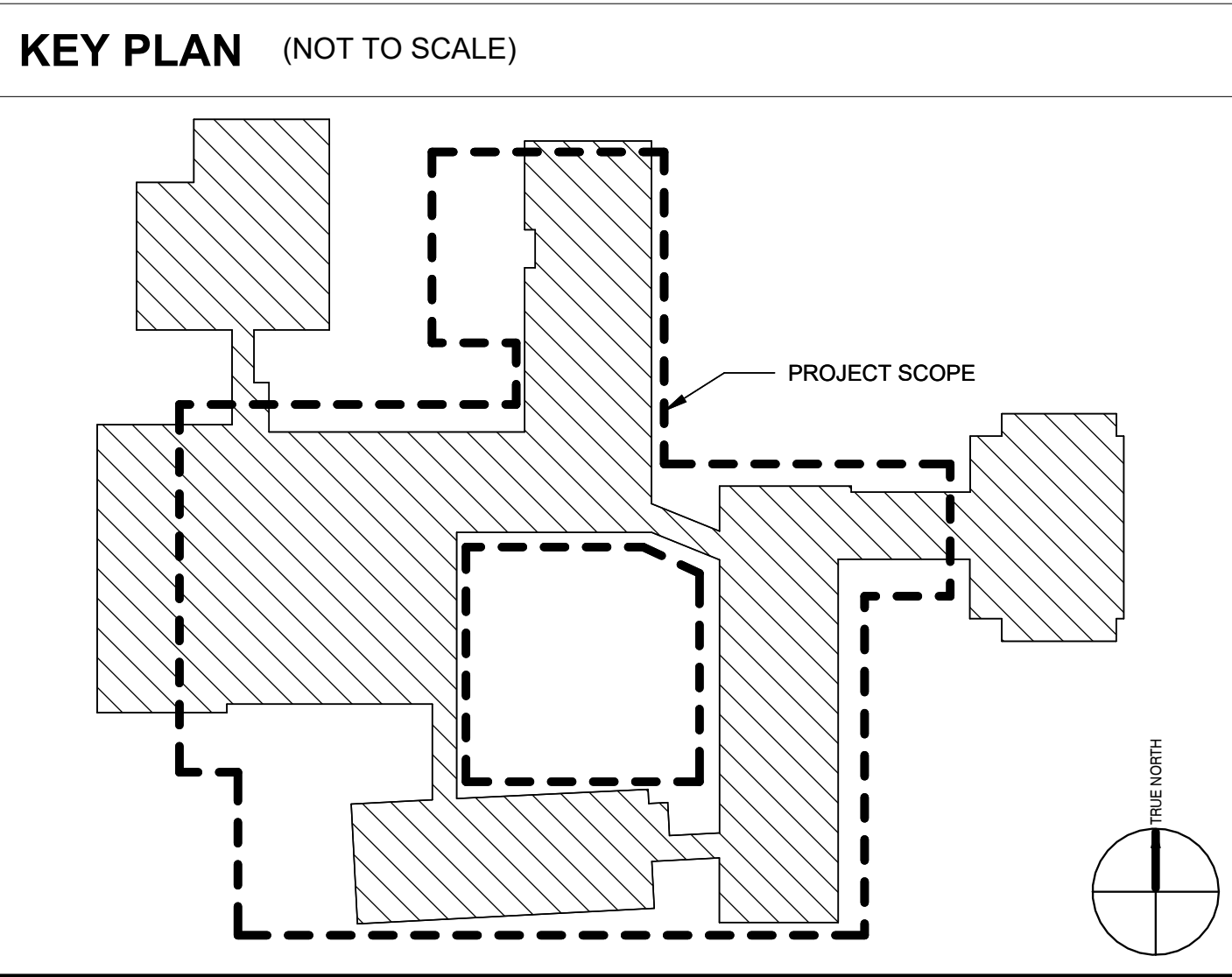
PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: As indicated
DRAWN BY: JEH
CHECKED BY: JMB

HVAC COVERSHEET

M-000



1 1ST FLOOR HVAC DEMO PLAN
1" = 20'-0"

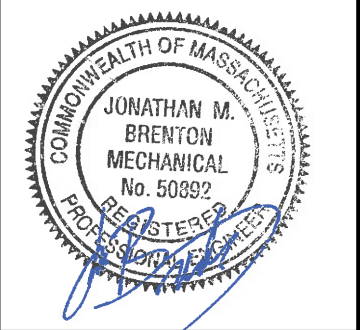


REVISIONS		
Δ	MM-DD-YYYY	DESCRIPTION

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1" = 20'-0"
DRAWN BY: JEH
CHECKED BY: JMB

OVERALL HVAC 1ST
FLOOR - DEMOLITION
PLAN

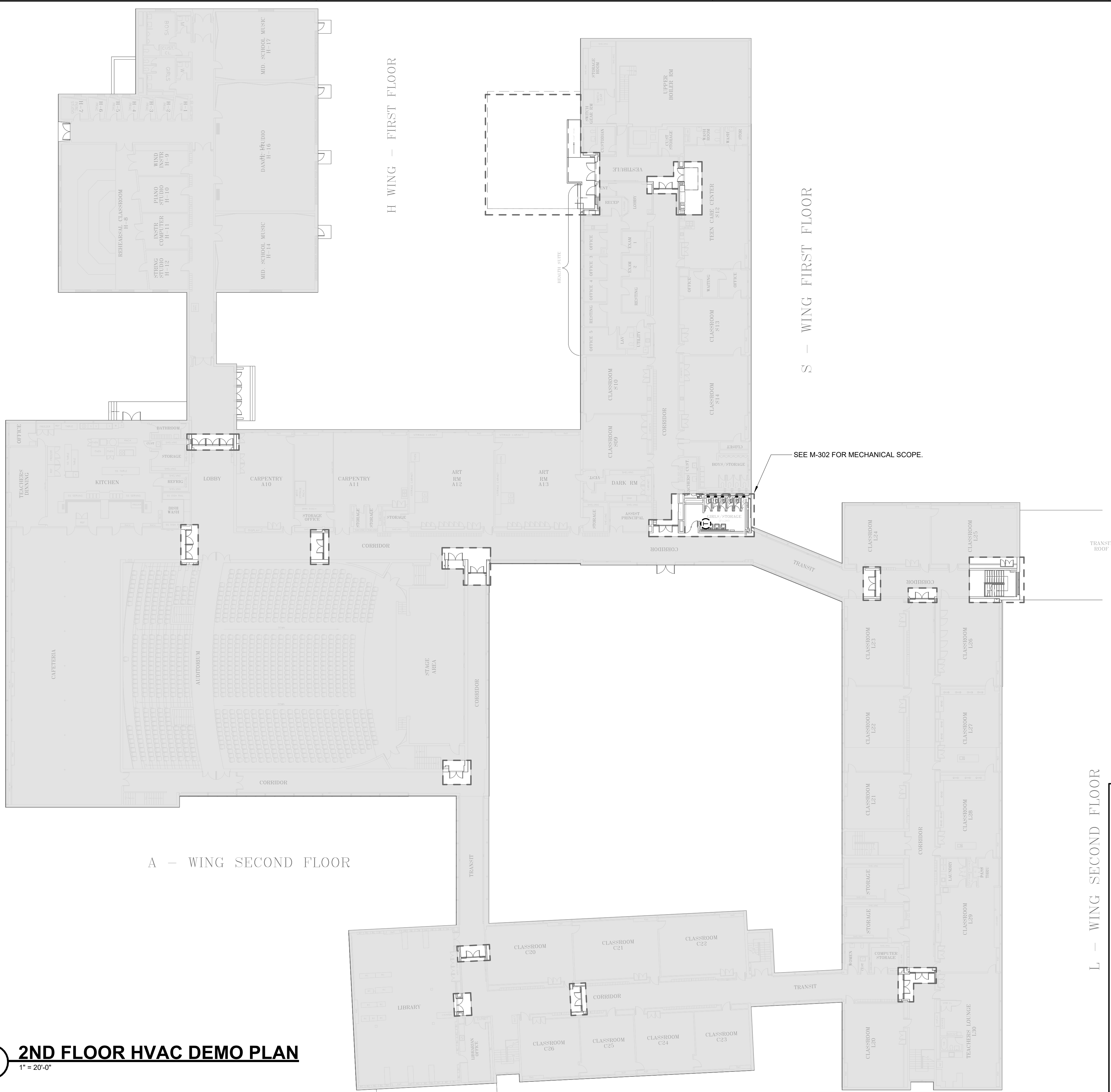
M-101



H&A
HABEEB & ASSOCIATES
ARCHITECTS

150 LONGWATER DR
NORWELL, MA 02061
100 GROVE ST #303
WORCESTER, MA 01605
781.871.8844
habeebandco.com

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.



L - WING SECOND FLOOR

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1" = 20'-0"
DRAWN BY: JEH
CHECKED BY: JMB

M-102

BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

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WORCESTER, MA 01606



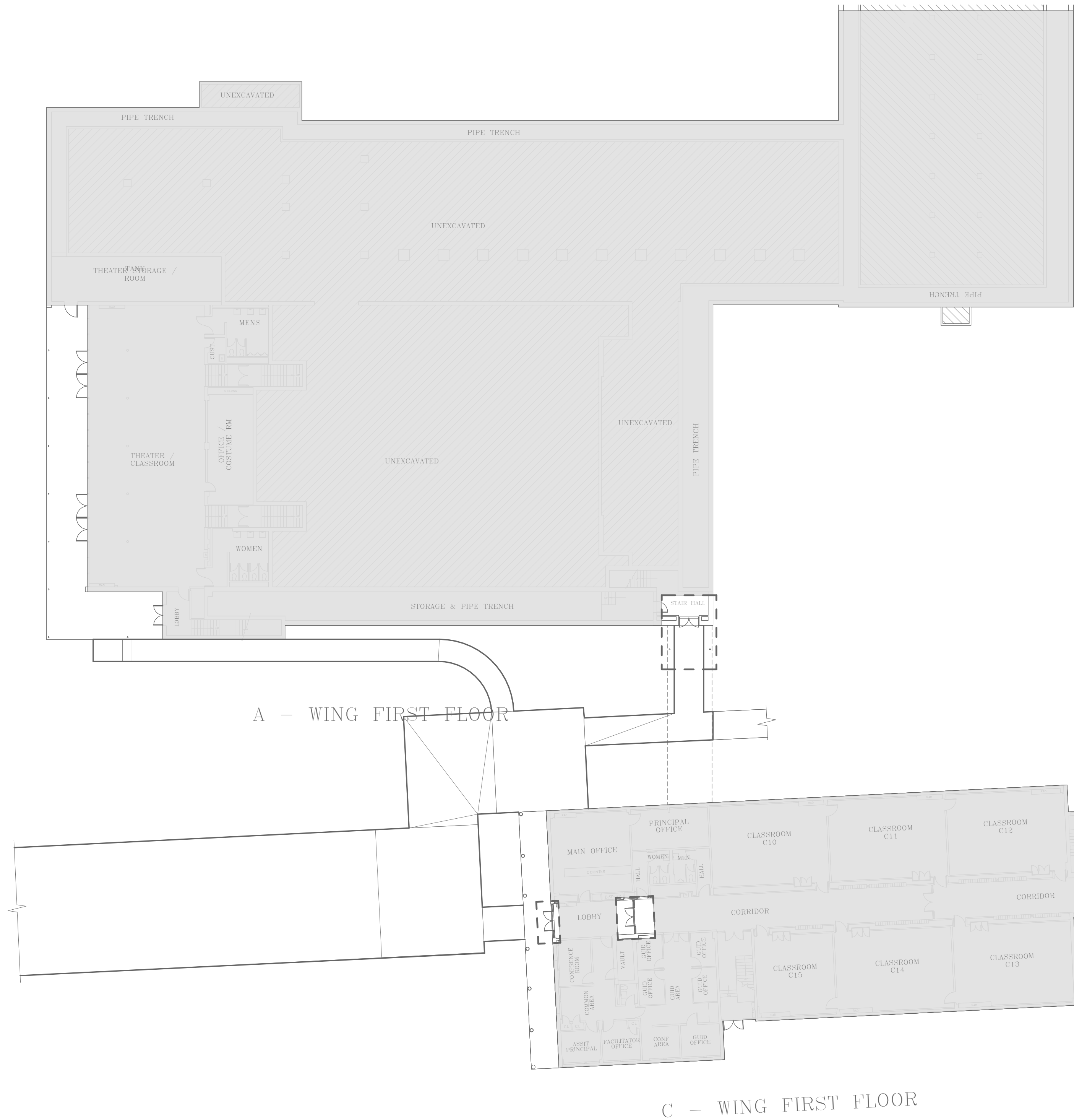
IMEG
www.imegcorp.com
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781.571.5904
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1

1ST FLOOR HVAC PLAN

1" = 20'-0"



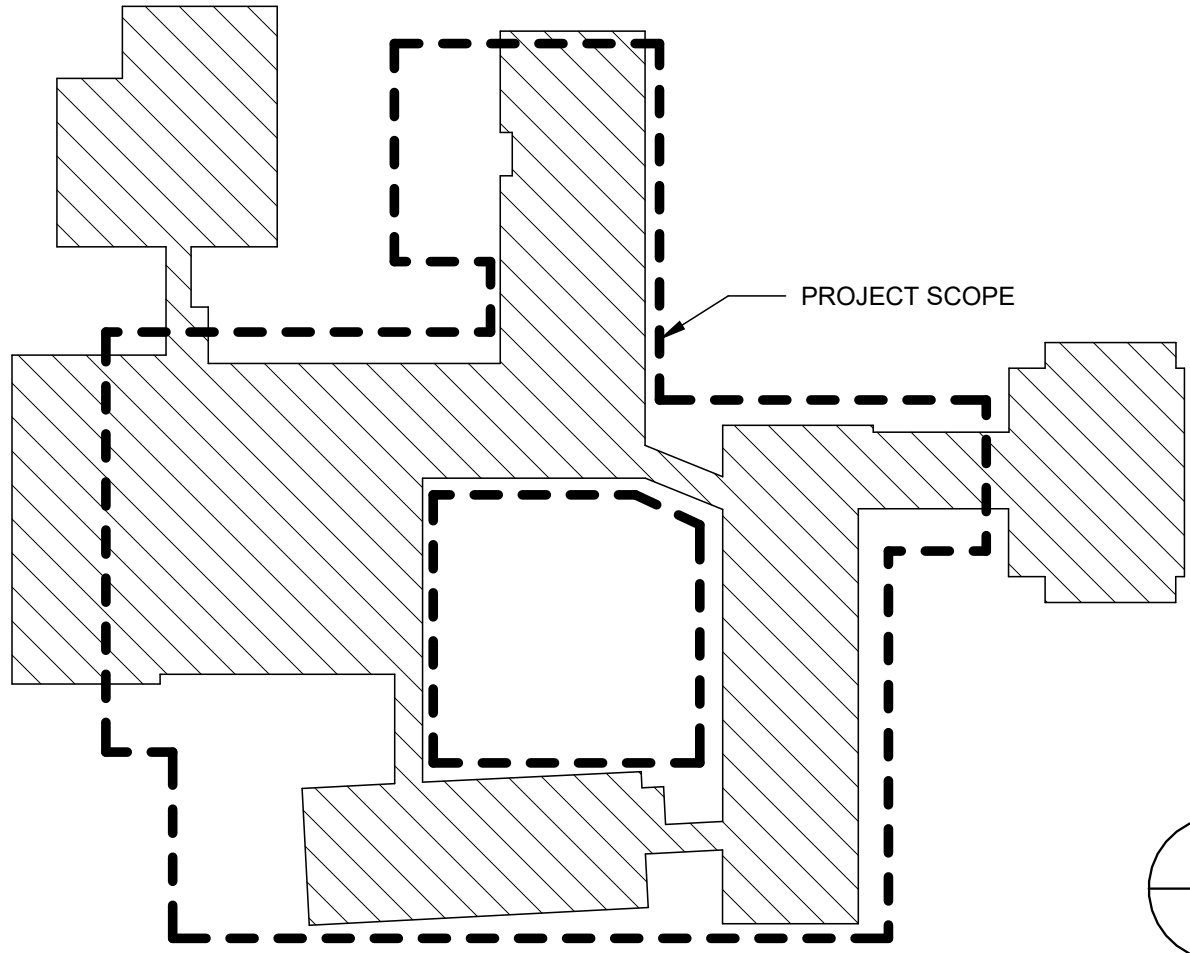
S - WING

G - WING FIRST FLOOR

L - WING FIRST FLOOR

G - WING SECOND FLOOR

KEY PLAN (NOT TO SCALE)

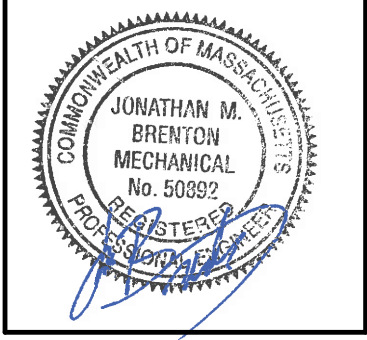


REVISIONS		
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PROJECT NO:	2124.15
DATE:	05/22/24
SCALE:	1" = 20'-0"
DRAWN BY:	JEH
CHECKED BY:	JMB

OVERALL HVAC 1ST FLOOR - PLAN

M-201

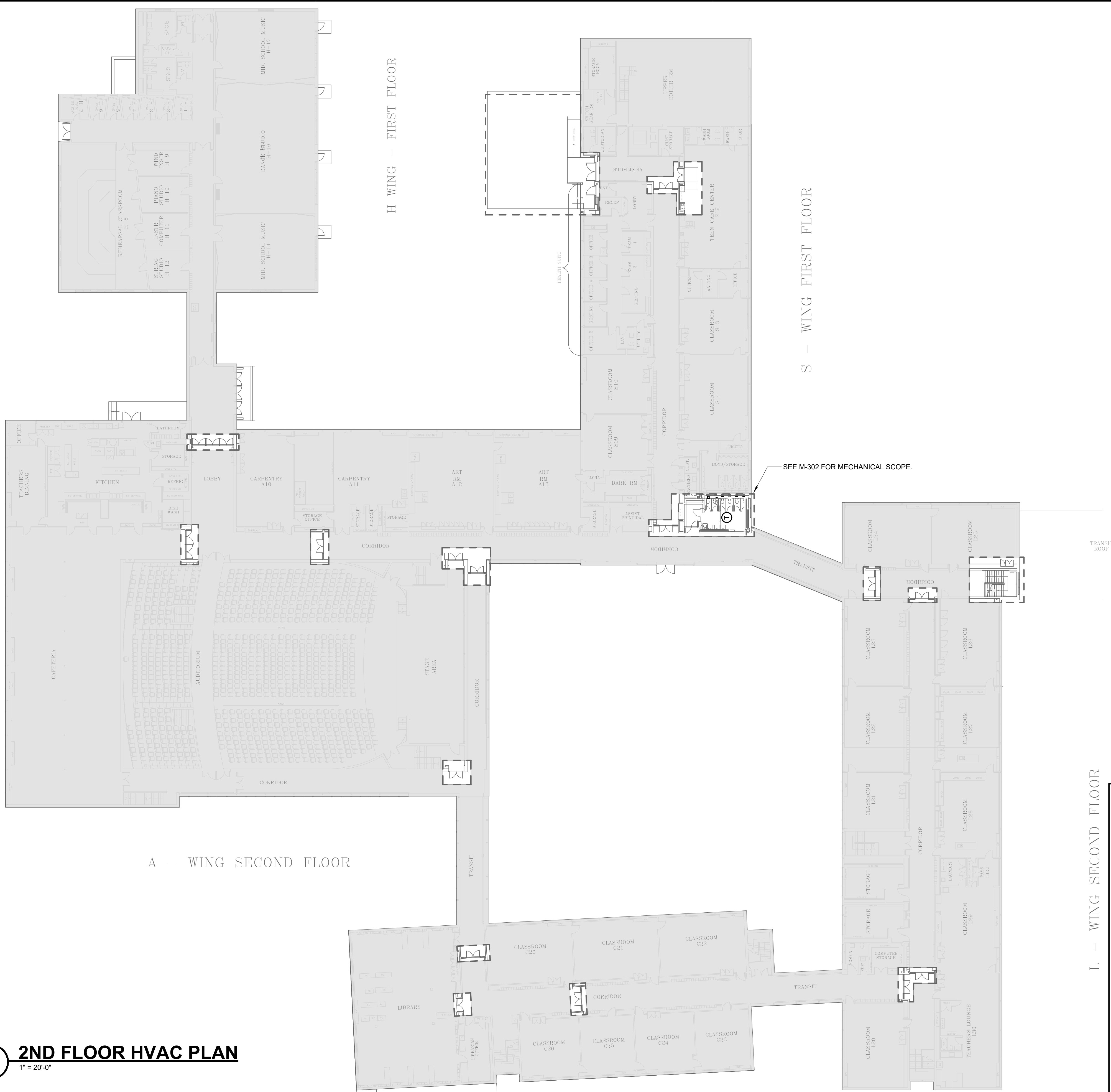


H&A

HABEEB & ASSOCIATES
ARCHITECT

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habeebandco.com

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L - WING SECOND FLOOR

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1" = 20'-0"
DRAWN BY: JEH
CHECKED BY: JMB

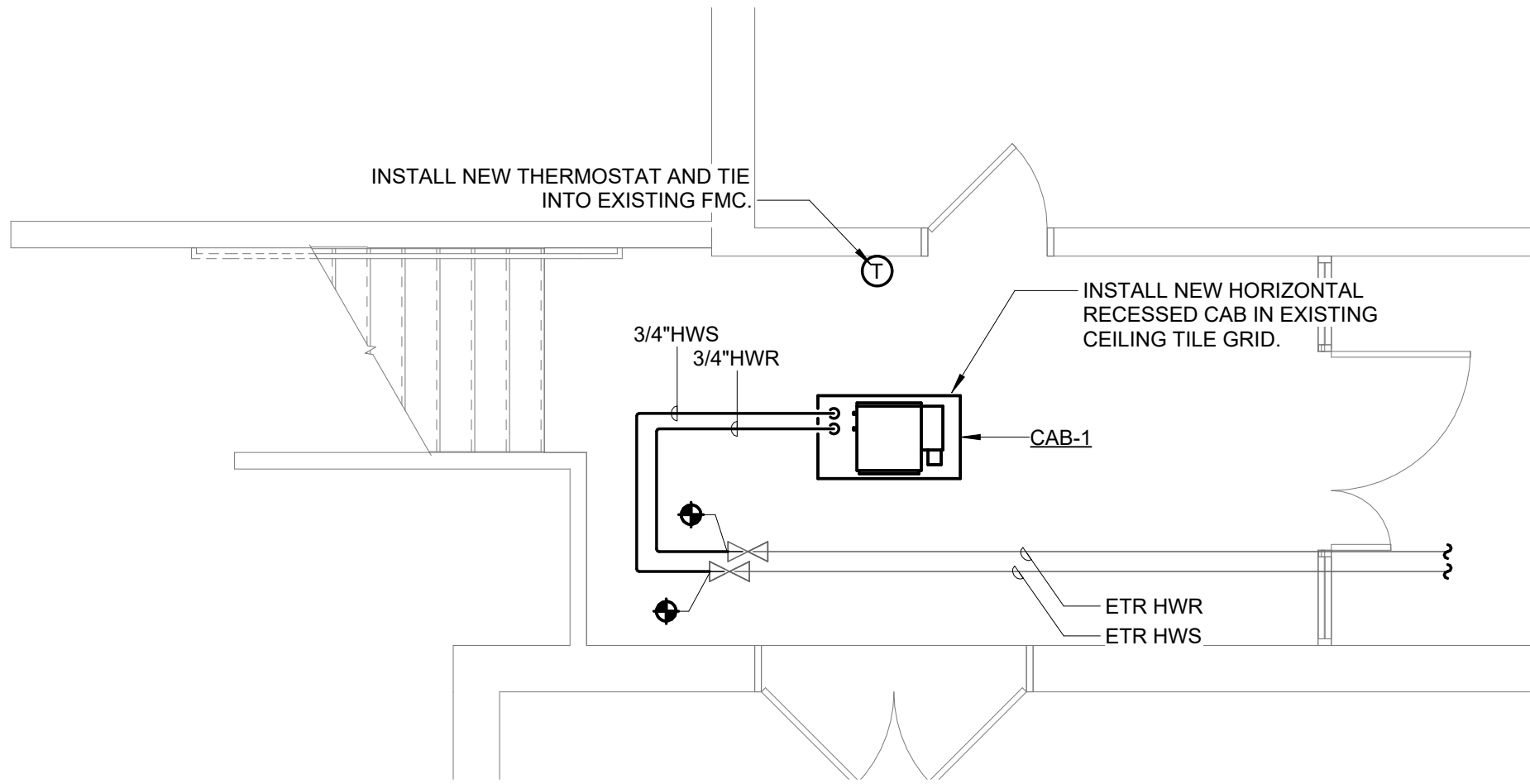
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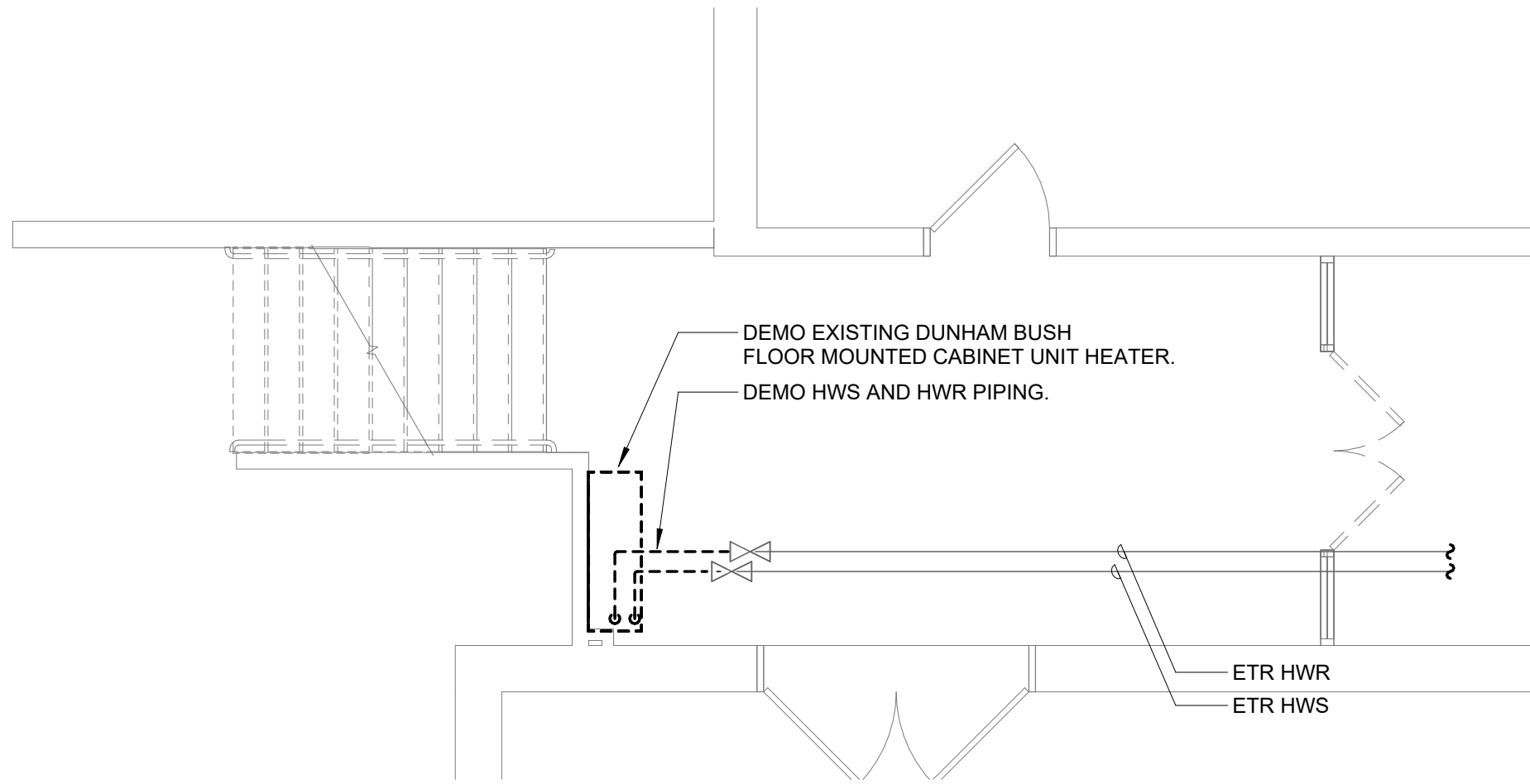
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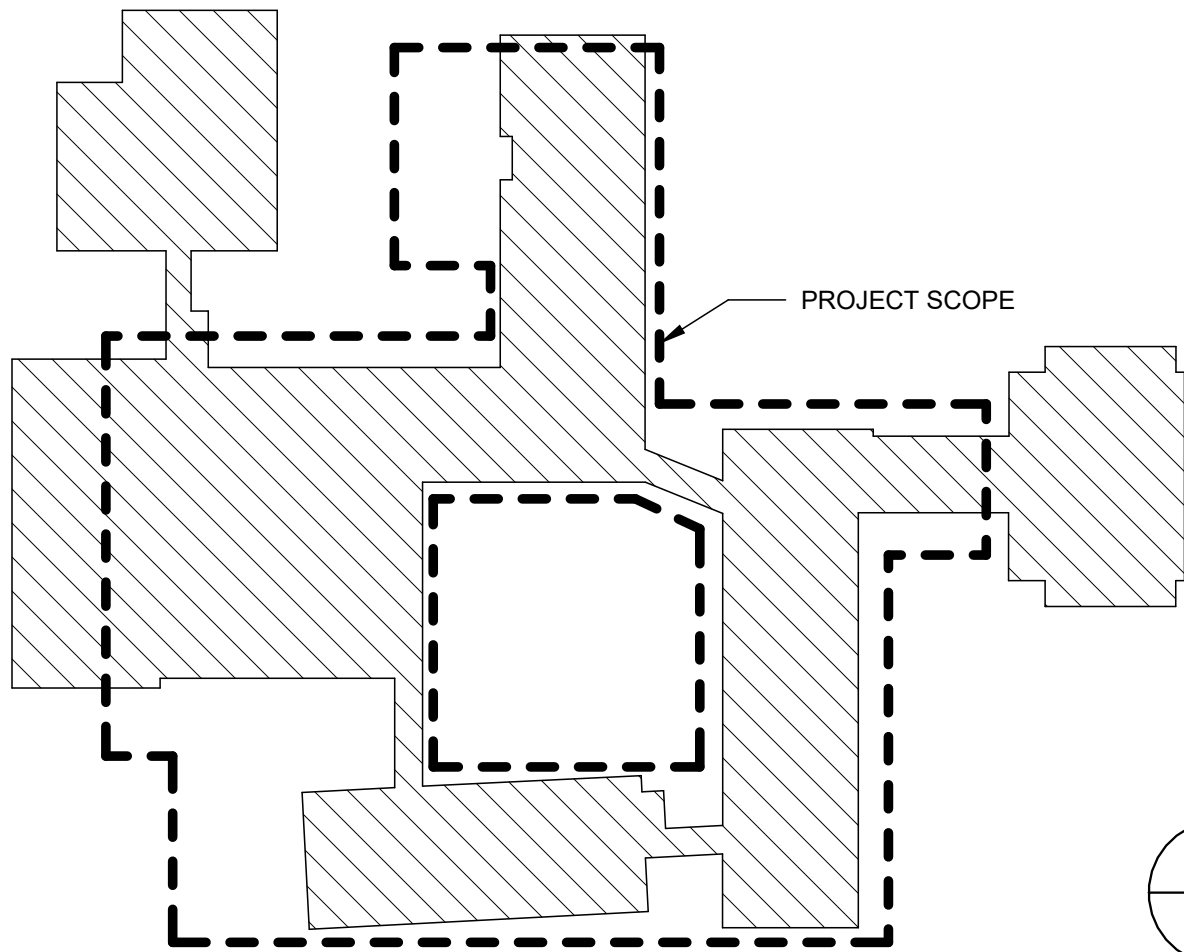
2 HVAC 1ST FLOOR - STAIR LIFT PLAN
1/4" = 1'-0"



1 HVAC 1ST FLOOR - STAIR LIFT DEMOLITION PLAN
1/4" = 1'-0"



KEY PLAN (NOT TO SCALE)

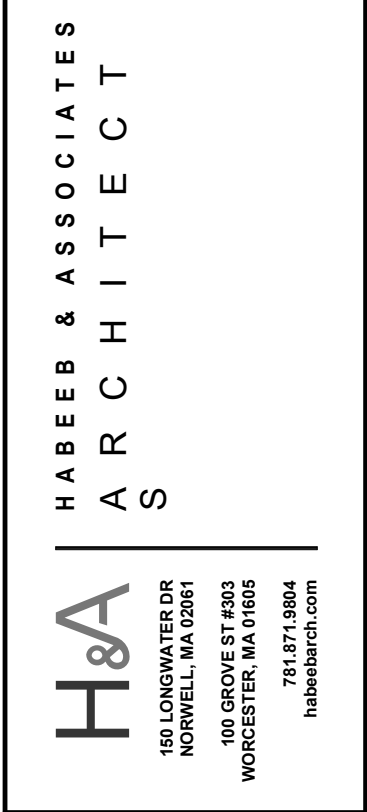
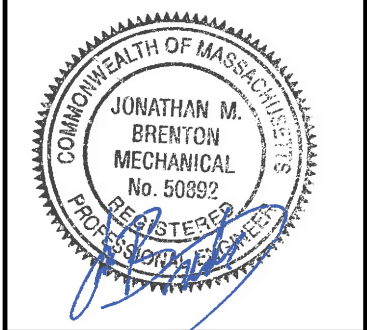


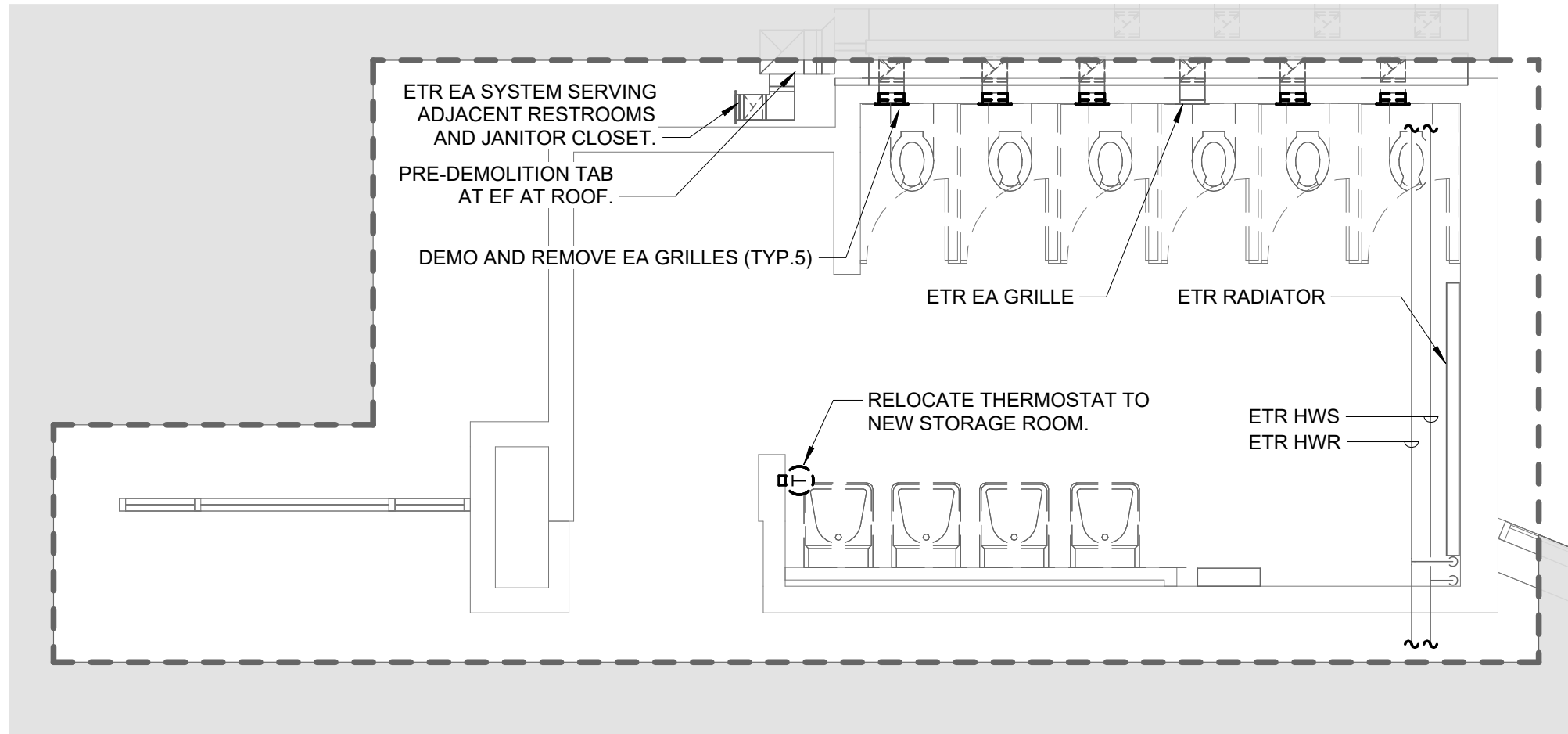
REVISIONS		
Δ	MM-DD-YYYY	DESCRIPTION

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1/4" = 1'-0"
DRAWN BY: JEJ
CHECKED BY: JMB

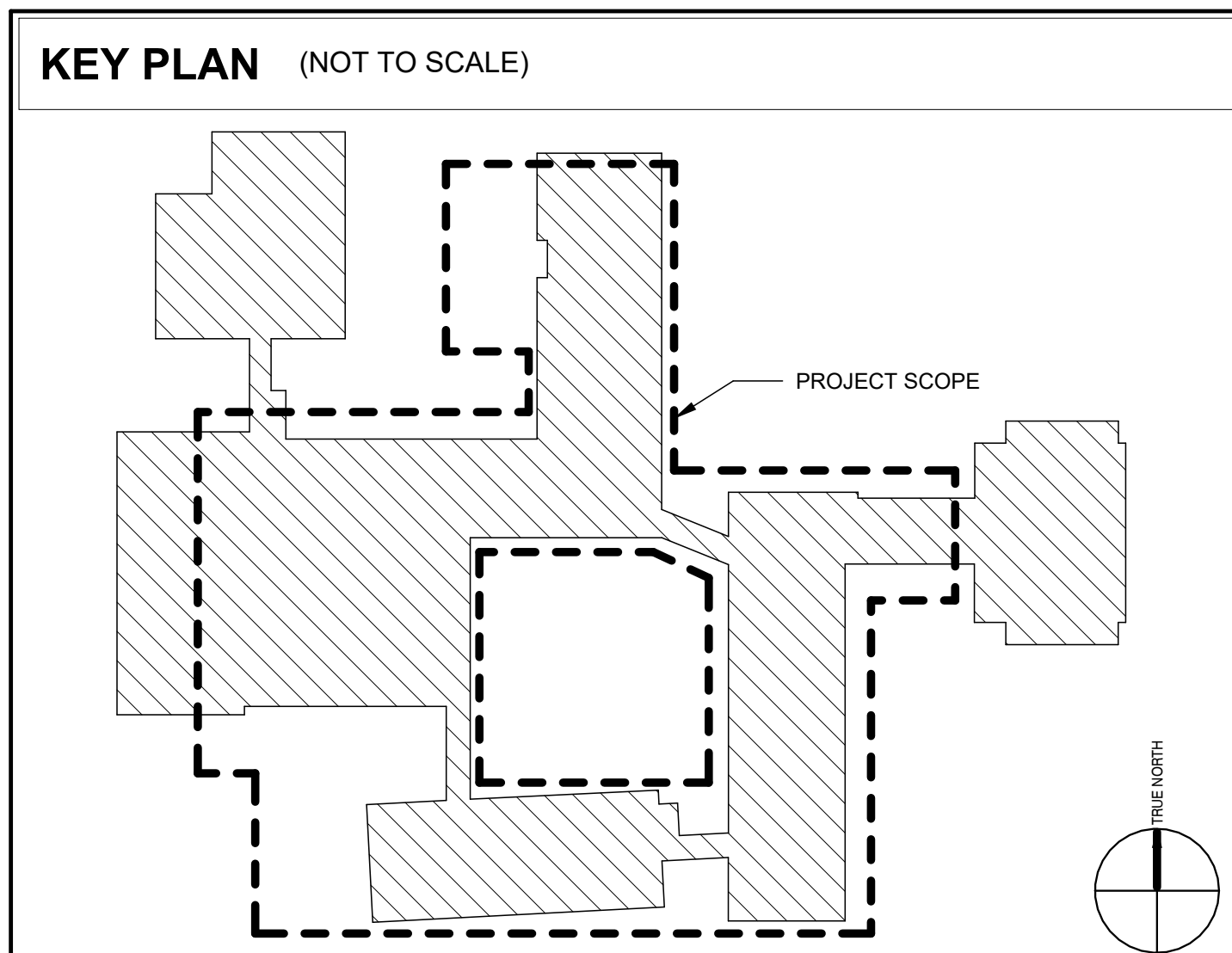
HVAC STAIR LIFT
ENLARGED PLANS

M-301





1 HVAC 2ND FLOOR - RESTROOM DEMOLITION PLAN



PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 1/4" = 1'-0"
DRAWN BY: JEH
CHECKED BY: JMB

HVAC 2ND FLOOR RESTROOM ENLARGED PLANS

M-302

BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

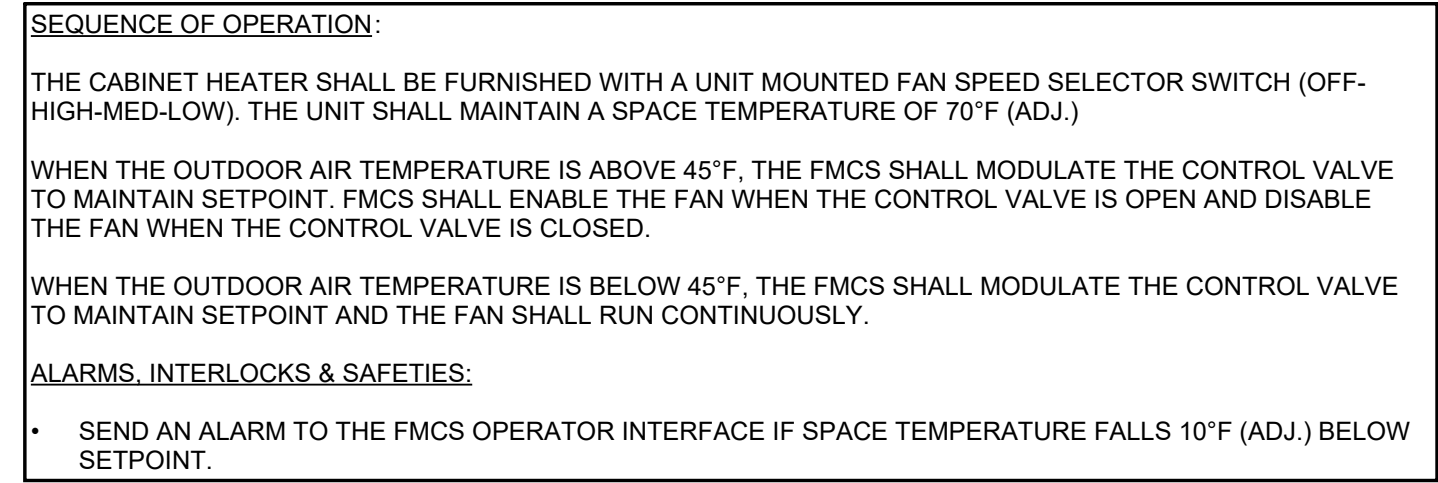
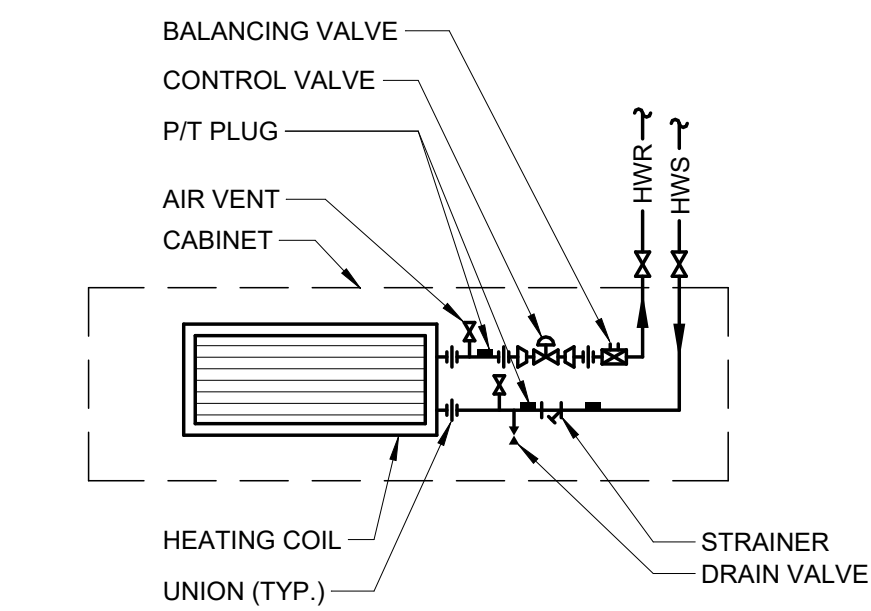
WORCESTER PUBLIC SCHOOLS

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PLOTTED ON: 5/17/2024 2:26:35 PM



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST

[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: 12" = 1'-0"
DRAWN BY: JEH
CHECKED BY: JMB

HVAC DETAILS

M-400

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

PLOTTED ON: 5/17/2024 2:26:36 PM

CABINET HEATER SCHEDULE - HOT WATER

NOTES:
1. MODULATING CONTROL VALVE WITH WALL MOUNTED SENSOR. TIE INTO EXISTING ALERTON BUILDING MANAGEMENT SYSTEM.
2. COORDINATE COLOR SELECTION WITH ARCHITECT.

TAG NAME	AREA SERVED	CONFIGURATION	NOMINAL CFM	MBH	GPM	EWT °F	LWT °F	CONTROL TYPE	CABINET (NOTE 1)			ELECTRICAL							MANUFACTURER	MODEL	NOTES			
									HEIGHT	WIDTH	DEPTH	FAN HP	RPM	VOLTAGE	PHASES	# OF WIRES	DISCONNECT					CONTROLLER/ STARTER		EMERGENCY POWER
																	BY (NOTE A)	TYPE (NOTE B)				BY (NOTE A)	SCCR	
CAB-1	VESTIBULE	HORIZONTAL RECESSED	335	19.2	1.9	180	160	NOTE 1	10"	43"	25"	0.066667	1050	120	1	0	EC		MFR	0	No	VULCAN	RC-1200-03	NOTES 1, 2

PIPE INSULATION SCHEDULE (HVAC)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
6. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS....

SYMBOL	PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE					NOTES
			< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	
23 PIPING - HEATING WATER								
HWR	HEATING WATER RETURN	A (GlsFbr)	1 1/2"	1 1/2"	2"	2"	2"	
HWS	HEATING WATER SUPPLY	A (GlsFbr)	1 1/2"	1 1/2"	2"	2"	2"	

AIR TERMINAL SCHEDULE

NOTES:

1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH WALL CONSTRUCTION.
2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE
3. PROVIDE WITH STEEL OPPOSED BLADE DAMPER.
4. LONG BLADES.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	MANUFACTURER	MODEL	NOTES
ER-1	SEE DWG	35 DEGREE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	TITUS	350	1, 2, 3, 4

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND
INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY
ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY
ELECTRICAL CONTRACTOR.
TCC = TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
CB = CIRCUIT BREAKER
F = FUSED
NF = NON-FUSED
PLUG = PLUG AND CORD

C. CONTROLLER STARTER TYPE:
 FV = FULL VOLTAGE
 WYE = WYE-DELTA
 SS = SOLID STATE (SOFT START)
 MS = MANUAL STARTER
 VFD = VARIABLE FREQUENCY DRIVE
 VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS
 LY = WYE - DELTA
 ECM = ELECTRONICALLY COMMUTATED MOTOR

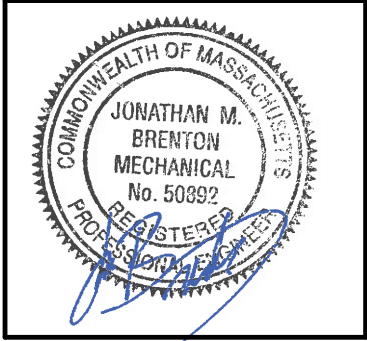
D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAMEPLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

<p>G. CURB TYPE: MFR = STANDARD CURB BY MANUFACTURER GC = BY GENERAL CONTRACTOR SAC = SOUND ATTENUATOR CURB</p>

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BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS



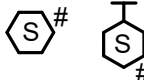









135 BURNCOAT ST
WORCESTER, MA 01606





















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PROJECT NO: 2124.15
DATE: 05/22/24
SCALE:
DRAWN BY: JEH
CHECKED BY: JMB

HVAC SCHEDULES

M-600

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
<p>COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS</p>	<p>SUBSCRIPTS: TYPE / PROGRAMMING</p> <p>WG = WIRE GUARD IS REQUIRED W = WEATHERPROOF A = ATRIUM CA = CLEAN AGENT SYSTEM CR = COMPUTER ROOM E = ELEVATOR RECALL D = HVAC CONTROL DH = DOOR HOLD RELEASE DIPS = DUAL INTERLOCK PREACTION SYS FD = FIRE DOOR RELEASE MP = MEDICAL PROCEDURE S = SLEEPING / PATIENT ROOM SW = STAIRWELL # = 15, 30, 75, 110, 177 CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER</p>
  	<p>FIRE ALARM CONTROL PANEL</p> <p>FIRE ALARM ANNUNCIATOR</p> <p>FIRE ALARM TERMINAL CABINET</p> <p>FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT BLANK - PHOTOELECTRIC CO = COMBINATION SMOKE / CARBON MONOXIDE ID = IN DUCT DETECTOR SA = STAND ALONE WITH SOUNDER SB = SOUNDER BASE</p>
        	<p>FIRE ALARM MANUAL PULL STATION</p> <p>FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT</p> <p>AUDIO HORN/CHIME ALARM DEVICE, CEILING OR WALL MOUNTED</p> <p>FIRE ALARM REMOTE INDICATOR</p> <p>FIRE ALARM ADDRESSABLE MONITOR MODULE</p> <p>FIRE ALARM ADDRESSABLE CONTROL MODULE</p> <p>FIRE ALARM RELAY MODULE</p>

ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	DUPLEX RECEPTACLE, 125V
	DUPLEX GFI RECEPTACLE, 125V
	GROUND FAULT DEVICE
 W	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
 U	DUPLEX RECEPTACLE, USB CHARGING
	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	QUAD RECEPTACLE, 125V
	QUAD GFI RECEPTACLE, 125V
 W	QUAD GFI WEATHERPROOF RECEPTACLE, 125V
	JUNCTION BOX
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	INTERLOCKED RECEPTACLE DISCONNECT.
	REFER TO DISC/STA SCHEDULE
	SWITCH - SINGLE POLE
	SWITCH - THREE WAY
 D	DIMMER - LED
 D	OCCUPANCY SENSOR - DUAL TECHNOLOGY
 O	SWITCH - OCCUPANCY SENSOR
	WALL SWITCH

ELECTRICAL LIGHTING FIXTURE SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	LINEAR LUMINAIRES
	TROFFER
	INDUSTRIAL LUMINAIRE
	WALL BRACKET LUMINAIRE
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET **E-000** FOR LUMINAIRE SCHEDULE.

LUMINAIRE KEY:

R1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION



DEVICE KEY:

DEVICE # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
O	WIRING DEVICE, OCCUPANCY CONTROLLED
R	MOUNT IN SURFACE RACEWAY
S	SURFACE MOUNTED
W	WEATHERPROOF WIRING DEVICE, NEMA 3R WHILE-IN-USE COVER, WR LISTED
WG	WIRE GUARD
WP	WEATHERPROOF

ELECTRICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
BC	BELOW COUNTER
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
E.C.	ELECTRICAL CONTRACTOR
EN	EXISTING TO BE REMOVED AND REPLACED WITH NEW
ER	EXISTING TO BE REMOVED
ERR	EXISTING TO BE REMOVED AND RELOCATED
ETR	EXISTING TO REMAIN
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
NEMA #	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
P.C.	PLUMBING CONTRACTOR
RE	RELOCATED EXISTING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

LUMINAIRE SYMBOL KEY	
SYMBOL:	DESCRIPTION:
 ○	NORMAL BRANCH LUMINAIRE
 ⓘ	BRANCH LUMINAIRE WITH EMERGENCY BATTERY PACK

ELECTRICAL INSTALLATION NOTES:

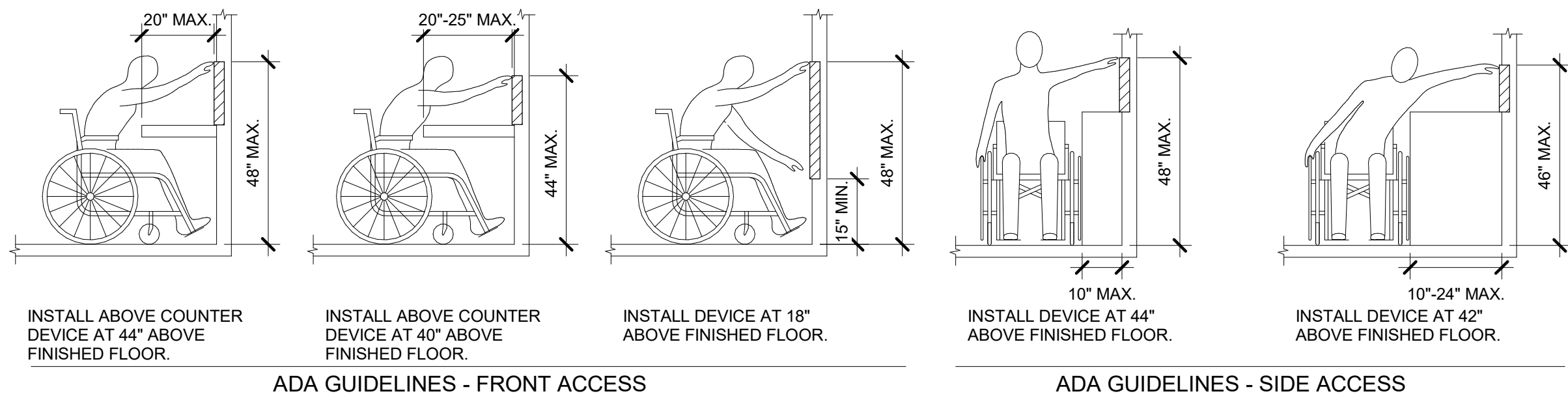
1. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
2. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
3. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATIONS TO BE 4" ABOVE FINISHED GRADE WITH 1" MINIMUM FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
4. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
5. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
6. INSTALL ALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90° ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
7. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS, CARBON MONOXIDE DETECTORS, AND OCCUPANCY/ACCOMMODATION DEVICES SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.
8. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
11. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIT/VIDEO, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES INCLUDING SPRINKLER.
12. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL RENOVATION NOTES:

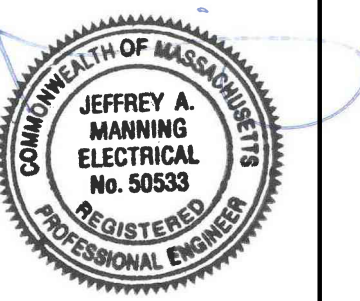
1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
3. ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, AND REPAIRS TO ALL AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
4. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES.
2. REFER TO THE GENERAL CONTRACTOR'S/ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL AND ELECTRICAL DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. MECHANICAL AND ELECTRICAL DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
3. REVIEW MECHANICAL PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
4. PROVIDE TEMPORARY LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF THE PROJECT.



ADA STANDARDS FOR ACCESSIBLE DESIGN



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: As indicated
DRAWN BY: KY
CHECKED BY: JM

ELECTRICAL COVERSHEET

E-000

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

B

C

①

OVERALL POWER 2ND FLOOR PLAN



H WING - FIRST FLOOR

S - WING FIRST FLOOR

KEY POINT

A compass rose diagram with a circle divided into four quadrants by a vertical and a horizontal line. A thick vertical line is drawn in the center, pointing upwards. The text "TRUE NORTH" is written vertically along the top of the circle.

KEYED NOTES

- ① REPLACE EXISTING THREE (3) UNDER CANOPY-MOUNTED EXTERIOR FIXTURES WITH NEW LIGHTING FIXTURES 15" AT THE FRONT ENTRANCE FIRST LEVEL CUT BACK CONDUIT AND WIRING TO THE EXTENT NECESSARY TO REWORK AND REFEED NEW LIGHTING IN CANOPY.
- ② INSTALL THE FOLLOWING NEW CIRCUIT BREAKERS IN THE EXISTING PANEL:
 - (1) 20A-2P FOR STAIR-LIFT
 - (2) 20A-1P FOR NEW RESTROOM GFI RECEPTACLE
 - (3) 20A-1P FOR AUTOMATIC DOOR OPERATOR
- ③ NEW WALL-MOUNTED EMERGENCY BATTERY LIGHT UNIT (EBU) 8"-0" AFF AND CONNECT TO EXISTING EXIT SIGN BRANCH CIRCUIT FOR THIS AREA AND UNSWITCH.
- ④ NEW CEILING-MOUNTED EXIT SIGN "X1" WITH WHEELCHAIR SYMBOL AND CONNECT TO EXISTING EXIT SIGN BRANCH CIRCUIT.
- ⑤ REPLACE THE EXISTING CEILING-MOUNTED EXIT SIGN WITH NEW CEILING-MOUNTED EXIT SIGN WITH WHEELCHAIR SYMBOL. CUT BACK CONDUIT AND WIRING TO THE EXTENT NECESSARY TO REWORK AND REFEED NEW EXIT SIGN.

REVISIONS

PROJECT NO: 2124.15

DATE: 05/22/24

DATE: 05/22/24
CALF: 1# 22121

SCALE: 1" = 20'

DRAWN BY: KY

CHECKED BY: JM

OVERALL POWER
2ND FLOOR PLAN

E-202

HABEEB & ASSOCIATE
ARCHITECT

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BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

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B **C**

A


$$1/4'' = 1'-0''$$

$$1/4'' = 1'-0''$$

$$1/4'' = 1'-0''$$

$$1/4'' = 1'-0''$$

$$1/4" = 1'-0"$$

- KEYED NOTES:

- 1 REMOVE EXISTING LIGHTING FIXTURES AND LIGHTING CONTROL SWITCH. CUT BACK CONDUIT AND WIRING TO THE EXTENT NECESSARY TO REWORK AND REFEED NEW LIGHTINGS.
- 2 NEW LIGHTING FIXTURES ARE CONNECTED TO THE EXISTING LIGHTING BRANCH CIRCUIT FROM DEMOLITION.
- 3 EXISTING FIRE ALARM NOTIFICATION DEVICE TO REMAIN.
- 4 EXISTING FIRE ALARM EQUIPMENT AND ANTENNA TO REMAIN.
- 5 RELOCATE THE EXISTING CEILING-MOUNTED SMOKE DETECTOR AND BASE.
- 6 RELOCATED EXISTING CEILING-MOUNTED SMOKE DETECTOR AND BASE. EXTENDER EXISTING CONDUIT AND WIRING AS REQUIRED.
- 7 NEW WALL MOUNTED FIRE ALARM REMOTE INDICATOR.
- 8 A NEW GFI RECEPTACLE IS CONNECTED TO A NEW 20A-1P CIRCUIT BREAKER IN THE EXISTING PANEL IN CORRIDOR. (SEE DRAWING "E-202" FOR PANEL LOCATION)

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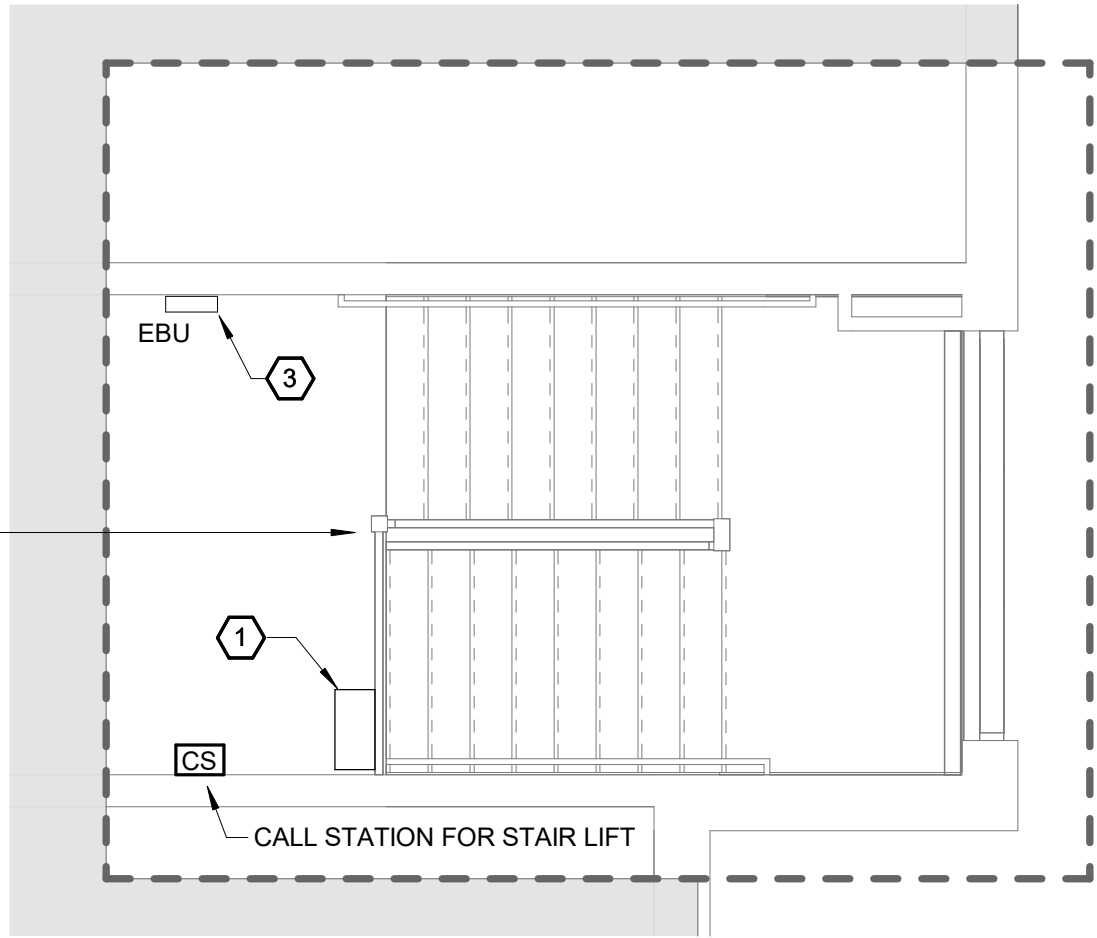
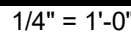
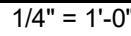
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PROJECT NO: 2124.15

2ND FLOOR

E-212

PLOTTED ON: 5/17/2024 3:12:41 PM


$$1/4'' = 1'-0''$$


- ① THE CHAIR LIFT DRIVE BOX CONNECT TO THE NEW 20A-2P CIRCUIT BREAKER IN THE EXISTING PANEL LOCATED IN THE CORRIDOR SECOND FLOOR. SEE DRAWING "E-202" FOR PANEL LOCATION AND ADDITIONAL INFORMATION. (2#10, 1#10G, IN 3/4" C, AND APPROXIMATE 190" FROM EXISTING PANEL TO DRIVE BOX)
- ② INSTALL A DISCONNECT SWITCH FOR THE HORIZONTAL RECESSED CAB AND CONNECT IT TO THE EXISTING CIRCUIT FROM THE DUNHAM BUSH FLOOR-MOUNTED CABINET UNIT HEATER DEMOLITION. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.
- ③ NEW WALL-MOUNTED EMERGENCY BATTERY LIGHT UNIT (EBU) 8"-0" AFF AND CONNECT TO EXISTING EIGHT SIGN BRANCH CIRCUIT FOR THIS AREA AND UNSWITCH.

E-222

A

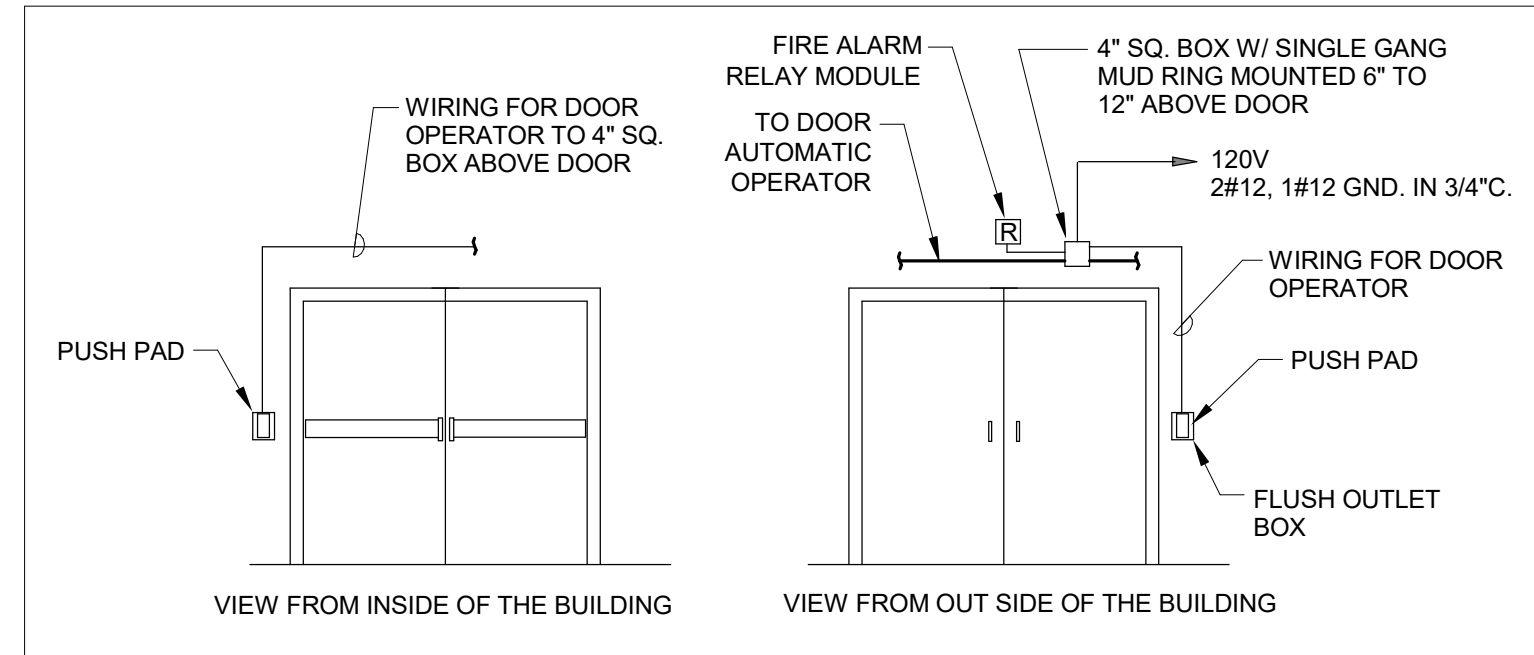
ITEM	DESCRIPTION	MTG	DIMENSIONS				WATT		LED			DRIVER		MANUFACTURER AND MODEL
			L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	
EBU	LED ADJUSTABLE OPTICS 640 LUMENS, 6.6W, EMERGENCY LIGHT UNIT	WALL MOUNTED	1'-2"	6"	3 205/25 6"		7 W	FIX	LED	2	640	120 V	EM	LITHONIA LIGHTING: ELM4L
R1	EPANL SERIES LED EDGE-LIT FLAT PANEL 2'X2'	RECESS	2'-0"	2'-0"	1"		20 W	FIX	LED	1	2000	120 V	0-10V	LITHONIA LIGHTING: EPANL 2X2 2000LM 80CRI 35K MIN 1 ZT MVOLT
R1E	EPANL SERIES LED EDGE-LIT FLAT PANEL 2'X2' WITH EMERGENCY BATTERY PACK	RECESS	2'-0"	2'-0"	1"		20 W	FIX	LED	1	2000	120 V	0-10V	LITHONIA LIGHTING: EPANL 2X2 2000LM 80CRI 35K MIN 1 ZT MVOLT E10WCP
S1	8" DIA. AL DIECAST EXTERIOR FIXTURE, SURFACE MOUNT CEILING BOX, BLACK FINISH, WET LISTED	SURFACE CEILING			2"	8"	29 W	FIX	LED	1	2300	120 V	0-10V	LUMINIS: SN800C-L123-K35-120-BKT-SWK
S2	SURFACE MOUNT (CANOPY OVER BUILDING ENTRANCE) WITH FIELD INSTALLABEL EMERGENCY BATTERY AND BEAUTY COVER PLATE ACCESSORIES	SURFACE CEILING	10"	10"	3"		34 W	FIX	LED	1	4710	120 V	0-10V	LITHONIA LIGHTING: CNY LED ALO SSW2 UVOULT PE PIR DDB M2, CNYBCP DDB, CNYEK E7WC M12
S3	4 FEET LONG LED STRIP LIGHT	SURFACE CEILING	4'-0"	2 3/4"	2 3/4"		35 W	FIX	LED	1	4732	120 V	0-10V	LITHONIA LIGHTING: CSS L48 4000LM MVOLT 35K 80CRI
W1	WALL PACK WITH EMERGENCY BATTERY PACK	WALL MOUNTED	1'-4"	10"	10 1/2"		10 W	FIX	LED	1	1200	120 V	0-10V	LITHONIA LIGHTING: WDGE1 LED P2 35K 80CRI VF MVOLT SRM E4WH PE DDBTXD
X1	EXIT SIGN, NICAD BATTERY, SINGLE RED FACE, WHITE BACKGROUND, ANGULAR TRIM, SELF DIAGNOSTICS WITH CUSTOM GRAPHICS FOR ISO WHEEL CHAIR SYMBOL	RECESS	1'-1"	2"	9"		5 W	FIX	LED	1	5	120 V	EM	ISOLITE: ELTCG-EM-R, 1C-AG-WH-MRC-SD W/CUSTOM GRAPHICS 08

DRAWING NOTES:

1. REFER TO DRAWING "E-000" FOR LEGEND, ABBREVIATION, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.

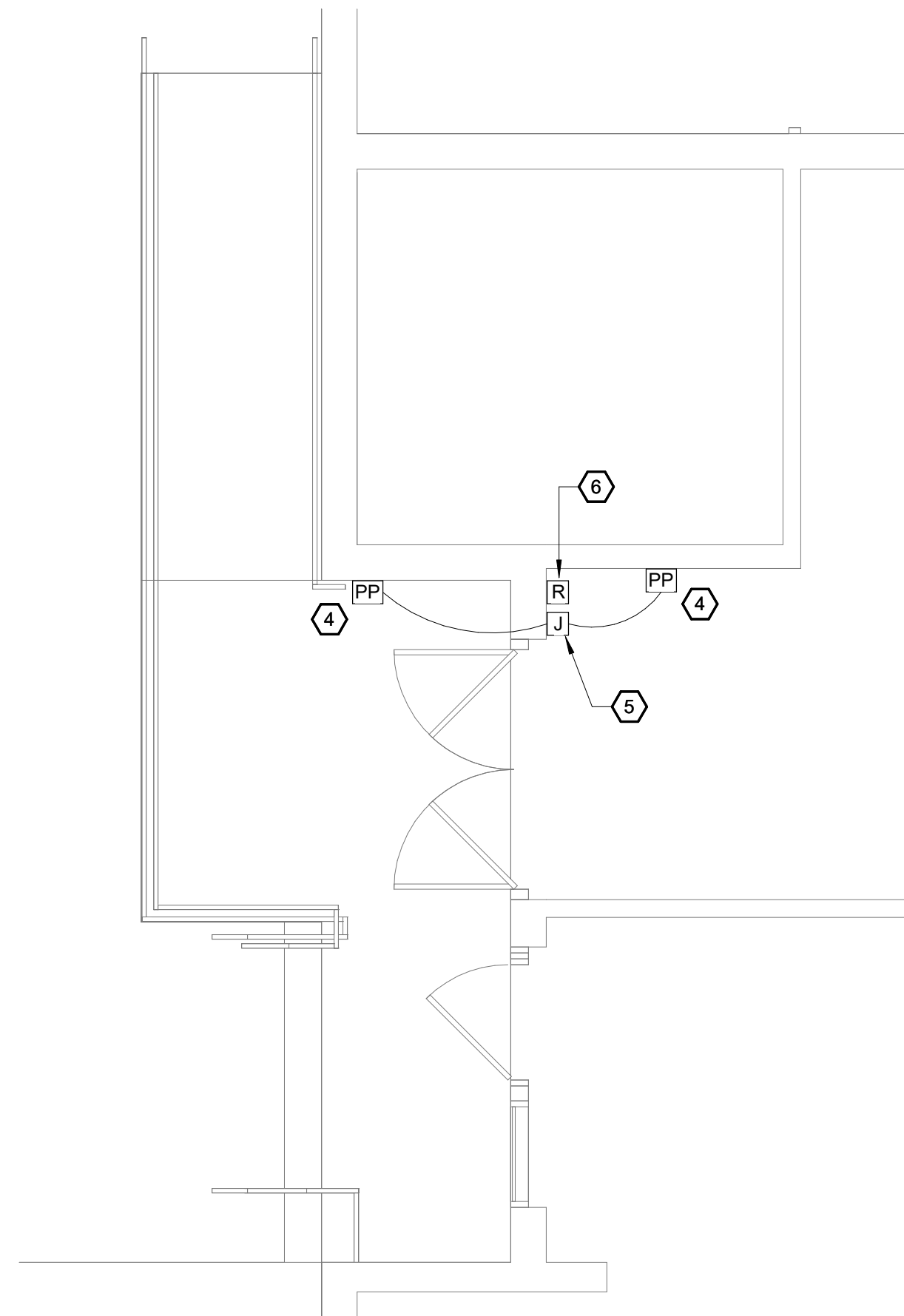
KEYED NOTES:

- 1 REPLACE EXISTING ONE (1) UNDER CANOPY-MOUNTED EXTERIOR LIGHTING FIXTURE WITH NEW LIGHTING FIXTURE "S2". CUT BACK CONDUIT AND WIRING TO THE EXTENT NECESSARY TO REWORK AND REFEED NEW LIGHTING IN CANOPY.
- 2 NEW WALL PACK FIXTURE MOUNTED 9'-0" AFF AND CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT FOR NEW LIGHTING FIXTURE "S2".
(2#12, 1#12 GND IN 3/4"C)
- 3 REPLACE THE EXISTING CEILING-MOUNTED EXIT SIGN WITH NEW EXIT SIGN "X1" WITH WHEELCHAIR SYMBOL. CUT BACK CONDUIT AND WIRING TO THE EXTENT NECESSARY TO REWORK AND REFEED NEW EXIT SIGN.
- 4 PUSH PAD FOR DOOR OPERATOR
(SEE DETAIL THIS SHEET)
- 5 JUNCTION BOX WITH POWER FROM A NEW 20A-1P CIRCUIT BREAKER IN THE EXISTING PANEL IN CORRIDOR FOR DOOR OPERATOR.
(SEE DRAWING "E-202" FOR PANEL LOCATION)
- 6 INSTALL A FIRE ALARM RELAY MODULE AND CONNECT IT TO THE EXISTING FIRE ALARM CONTROL PANEL.
REPROGRAM THE EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED TO SEND A SIGNAL TO THE FIRE ALARM RELAY MODULE TO MAKE THE DOOR OPERATOR OPEN THE DOOR DURING THE FIRE ALARM.



3 TYPICAL CONNECTIONS AT DOOR

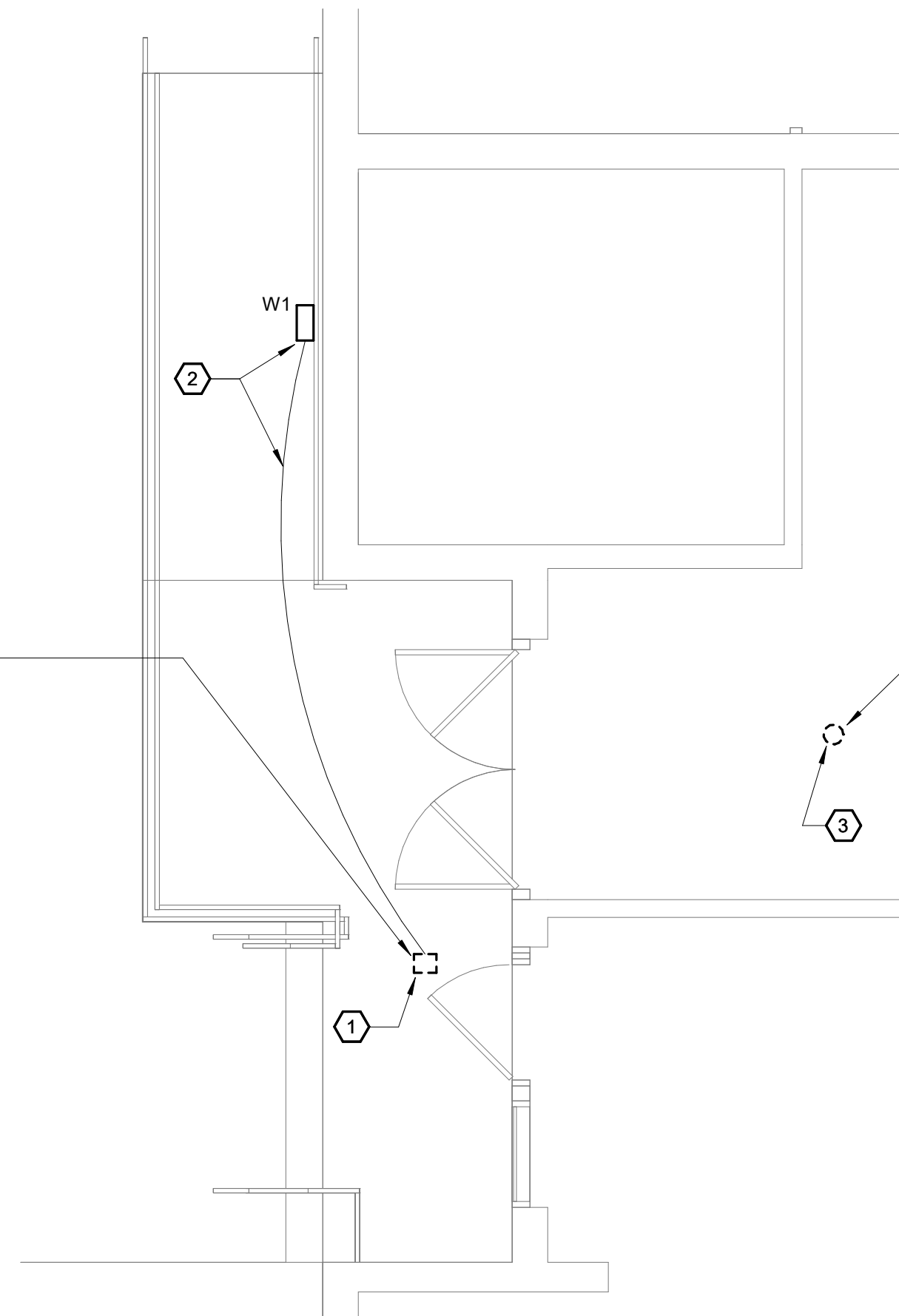
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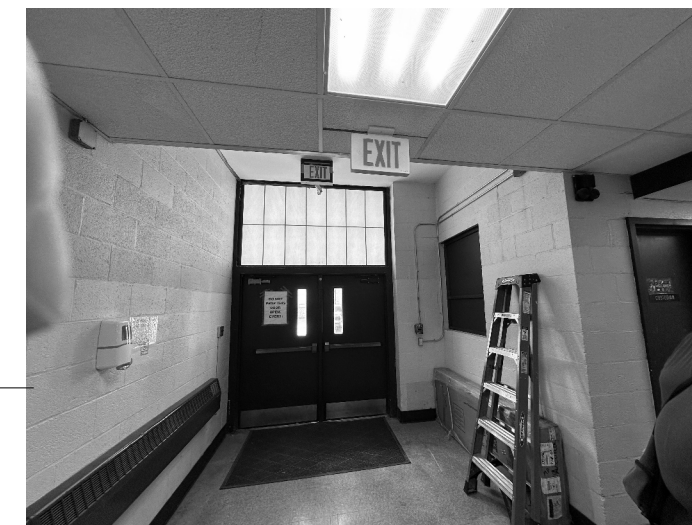
1 POWER 2ND FLOOR ADA EXIT DOOR
1/4" = 1'-0"

$$1/4'' = 1'-0''$$


EXISTING CEILING-MOUNTED EXTERIOR
LIGHTING FIXTURE



2 LIGHTING 2ND FLOOR ADA EXIT DOOR
1/4" = 1'-0"

$$1/4" = 1'-0"$$


EXISTING CEILING-MOUNTED EXIT SIGN
IN CORRIDOR

HABEEB & ASSOCIATES
ARCHITECT

H&A
150 LONGWATER DR
NORWELL, MA 02061
100 GROVE ST #303
WORCESTER, MA 01605
781.871.9804
habeebarch.com



BURNCOAT MIDDLE SCHOOL ACCESSIBILITY RENOVATIONS

WORCESTER PUBLIC SCHOOLS

135 BURNCOAT ST
WORCESTER, MA 01606

REVISIONS

[illegible]

PROJECT NO: 2124.15
DATE: 05/22/24
SCALE: As indicated
DRAWN BY: KY
CHECKED BY: JM

**ELECTRICAL ADA
EXIT ENLARGE
PLANS, SCHEDULE,
AND DETAIL**

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