

November 8, 2024

To All Bidders:

Subject: <u>Bid No. 8319-W5, Window Replacement – Worcester East Middle School / WPS</u>

**ADDENDUM NO. 1** 

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

• PLEASE SEE ATTACHED GENERAL BID CLARIFICATIONS INCLUDING QUESTIONS RECEIVED AND RESPONSES FROM CITY

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours,

Christopher J. Gagliastro Purchasing Director

### City of Worcester, Massachusetts Sealed Bid No. 8314-W5

Window and Door Replacement Worcester, East Middle School 420 Grafton Street, Worcester, MA 01604

### Habeeb & Associates Architects H&A Job No. 2124.17

### ADDENDUM NO. 01 November 08, 2024

The attention of Bidders submitting proposals for the above subject project located in Worcester, MA is called to the following Addendum to the Contract Documents. The items set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the proposal submitted.

#### A. General:

1.

### B. Drawing Changes:

- 1. Sheet G-002:
  - a. Removed the Exception from Section C401.2.1
  - b. Removed mentions of residential energy code under the stretch energy code section.
- 2. Sheet AD-201
  - a. Elevation 1: reworded 'Storefront' to 'window' in 2 notes.
- 3. Sheet AD-610
  - a. Window Type OD: Added detail callouts
- 4. Sheet AD-616
  - a. Detail 8: Added to sheet
  - b. Detail 9: Added to sheet
- **5**. Sheet A-001
  - a. Changed description of sunken areas to Coal Vault
- 6. Sheet A-201
  - a. Elevation 1: Changed (6) window tags from H to B1.
  - b. Elevation 2: Changed (9) window tags from H to B1
  - c. Elevation 2: Changed window type E5 to CC
- 7. Sheet A-202
  - a. Elevation 1: changed (9) window tags from H to B1
  - b. Elevation 1: Changed (1) window tag from I to I1
  - c. Elevation 2: Changed (6) window tags from H to B1
  - d. Elevation 2: Added vandal screen tag to (1) window
  - e. Elevation 2: Updated (3) windows tag from E1 to E4
  - f. Elevation 2: Updated (1) window tag from K.1 to K.2

- 8. Sheet A-203
  - a. Elevation 1: Updated (1) window tag from V2.1 to V2 to avoid confusion.
  - b. Elevation 2: Added clarification to ALT #2 scope
  - c. Elevation 3: Updated (6) window tags from T1 to T
  - d. Elevation 4: Updated (3) window tags from T1 to T
  - e. Elevation 4: Added clarification to ALT #2 scope note
  - f. Elevation 7: Added clarification to ALT #2 scope note
- **9.** Sheet A-204
  - a. Elevation 1: Added (5) missing window tags to type Z windows
  - b. Elevation 1: Removed ALT#3 scope note from Z type windows
  - c. Elevation 1: Added clarification to ALT #2 Scope
  - d. Elevation 1: Updated (1) window tag from W5 to EE
  - e. Elevation 2: Added clarification to ALT #2 scope note
  - f. Elevation 2: Removed infill squares to avoid confusion
  - g. Elevation 3: Added clarification to ALT #2 scope note
- **10**. Sheet A-601
  - a. Door Frame types Updated dimension string.
- 11. Sheet A-610
  - a. Updated sheet note
  - b. Window Type E: Removed type E5
  - c. Window Type G: Added note for tempered glazing
  - d. Window Type I: Added note for tempered glazing
  - e. Window Type O: Added details
- 12. Sheet A-611
  - a. Updated sheet note
  - b. Window Type T: Updated type from T to T1 and removed type list.
  - c. Window Type W: Added subtype W5
  - d. Window Type Y: Added dimensions and updated graphics for clarity
  - e. Window Type AA: Updated graphics for clarity, added note for custodian lock
  - f. Window Type BB: Added note for custodian lock
  - g. Window Type CC: Added in its entirety
  - h. Window type EE: Added in its entirety
- **13**. Sheet A-617 Added to set in its entirety.

### C. Specification Changes:

1. Section 08 8000: Remove page 8 8000-7 Paragraph 2.2.G

#### D. Questions:

1. QUESTION: What are the tag numbers for the (5) lower windows as shown on 1/A-204

RESPONSE: Lower (5) windows on elevation 1/A-204 windows are Z type openings. Appropriate tags will be added.

2. QUESTION: where are the mockups located (note says see location on drawings but could not find one)?

RESPONSE: Mockups shall be built in window openings

**3.** QUESTION: Please ask the design team to provide (2) other manufacturers window series that can meet the .32 U value as stated for the basis of design.

RESPONSE: There are (2) other window manufacturers listed in paragraph 2.1B.3 on Page 08 5113-5.

- **4.** QUESTION: Please clarify who is responsible for the cost of field testing.
  - a. Section 01 4325 1.2A Describes owner as paying.
  - b. Section 01 4000 1.3, A.1 Describes the contractor as paying for testing

RESPONSE: Owner to provide field testing, GC to coordinate.

**5.** QUESTION: Which windows require custodian locks?

RESPONSE: Window types AA and BB, (3) total. Drawings have been updated.

6. QUESTION: Drawing A-610 shows window type H without any operable vents. However, elevation drawings A-201 & A-202 show H windows with operable vents, please clarify?

RESPONSE: Operable windows tagged as H should be Type B1. Drawings have been updated.

7. QUESTION: Is there a schedule of how many windows will be tested?

RESPONSE: See paragraph 1.4.A in section 01 4325.

**8.** QUESTION: Only (3) Type O windows are called out on Grafton Street but there appear to be 4 concrete panels? Is there another type O window to the very left on Grafton street?

RESPONSE: No, there is no known window behind the left most concrete panel. There are also no openings behind the 2 panels on Arthur Street.

9. QUESTION: Where are B1 windows located as noted on A-610, none are shown on elevation.

RESPONSE: B1 windows were incorrectly tagged as H windows. Located on all 4 exterior elevations. Drawings have been updated.

10. QUESTION: Where are E4 Windows located as noted on A-610, none are shown on elevations

RESPONSE: E4 windows (3) are located at left side of North elevation, and are incorrectly labeled. Drawings have been updated.

**11.** QUESTION: Where are the K.2 windows located as noted on A-610, none are shown on elevations

RESPONSE: K.2 Is located on left stair tower at 3<sup>rd</sup> floor above door 3, drawings have been updated.

12. QUESTION: What dimensions are W5 windows? They are shown in elevation but not on A-610?

RESPONSE: Dimensions have been added to drawing A-610.

**13.** QUESTION: Confirm that W3 windows have no operable panels as shown in elevation, sheet A6-11 shows all W types with operable

RESPONSE: Window Types on A-611 show most typical configurations. Refer to elevations for exact panel/infill configurations.

**14.** QUESTION: Window types shown on A-610 & A6-11 do not match configurations shown in elevations, sheets A-610 & A-611 do not show fixed vs operable panels correctly.

RESPONSE: Window type sheets show most common or typical configurations. Reference elevations for actual panel/glazing configurations, (Frosted, operable, panel infill. Etc..)

**15.** QUESTION: E5 windows shown on A-201 do not look like the E type on A-610, please advise or correct tag numbers

RESPONSE: Window tags have been updated on drawing A-611.

**16.** QUESTION: The H windows shown on A-201 & A-202 do not look like the H type on A-610, please advise or correct the tag numbers, should H windows actually be B1?

RESPONSE: H windows shown on elevation at classroom spaces shall be B1. H windows only exist in 2 locations at south elevation stair towers. Drawings have been updated.

**17.** QUESTION: There is no U value listed in spec (084113) for the aluminum storefronts thermal criteria. Are the new storefront frames supposed to meet the new MA stretch code?

RESPONSE: Please see the code study on the drawings for 'Fixed Fenestration' on sheet G-002.

**18.** QUESTION: Section 08 8000 2.1.A states glass units to have a center of glass U value of 0.20. the (3) glass makeups listed in 2.1.A.1, 2.1.A.2 & 2.1.A.3 do not have a U of 0.20. What U value is required for the glazing used in the storefront frames?

RESPONSE: Within the glazing specification in paragraph 2.2.A the triple glazed units have a center of glass U value of .13

**19.** QUESTION: Section 08 8000 2.2.G states low-iron glass. None of the insulated units specify low-iron, where is low-iron required?

RESPONSE: Reference to low iron has been removed from specification 08 8000 as it is not needed.

20. QUESTION: Elevation pages A-203 & A-204 call for a GL-2 frosted unit at some frames. There is no GL-2 unit configuration listed in spec 088000. You would not be able to add a frosted surface on #3 with a Low E on #4. Please advise on what the unit configuration should be for the obscured glass?

RESPONSE: Page 08 8000-08 Paragraph 2.3.C States that the glass itself shall be obscure equivalent to a No. 62 Pattern.

**21.** QUESTION: Spec section 088000 2.1A is calling for 1" insulated glass units with a double low E coatings. Paragraph 2.2A is calling for 1 3/4" triple glazed units. Please confirm that the triple glazed units are for the operable windows only, and that the double insulated units are for the remainder of the storefront framing areas.

RESPONSE: Triple glazing is required at operable to meet code U values. Double glazing at all fixed windows shall meet code U value.

**22.** QUESTION: The type "H" window shown on architectural sheet A-610 is shown as a certain configuration. This configuration shows up on building elevation 1 on A-202. However a totally different configuration for type "H" window appears on elevation 1 on A-201, 1 on A-202, 2 on A-202. Please confirm what this "second" type "H" window should actually be.

RESPONSE: H windows shown on elevation at classroom spaces shall be B1. H windows only exist in 2 locations at south elevation stair towers. Drawings have been updated.

**23.** QUESTION: Architectural sheet A-202, elevation 1 at the ground floor level shows a type E3 window without a vandal screen. Should this opening have a vandal screen?

RESPONSE: All lower level windows shall have vandal screens. Drawings have been updated.

**24.** QUESTION: Architectural sheet A-203, elevation 2 shows the type S4 windows are to be part of add alternate #2. Please confirm that the four windows below these two windows remain as part

of add alternate #3, and are not also part of add alternate #2. Similar situations occur on other elevations on the same page.

RESPONSE: Only windows directly tagged are part of alternates. Notes have been updated.

**25.** QUESTION: I would like to request an extension of the bid date for at least a few days. The window manufacturers are stating that they don't have enough time to prepare pricing before 11/20/24.

RESPONSE: Due to the compressed procurement schedule for this project, we are unable to extend the bid date at this time.

**26.** QUESTION: Do the insulated glass within the windows and storefront frames require to be tempered glass lites?

RESPONSE: Tempered glazing is required at stair towers. All windows requiring tempered glazing have been updated on Sheet A-610.

**27.** QUESTION: If the operable windows are to receive triple insulated glass units and the storefront frames are to receive double insulated glass units, there is a very distinct possibility that the two will not match exactly and will have somewhat of a checker board effect.

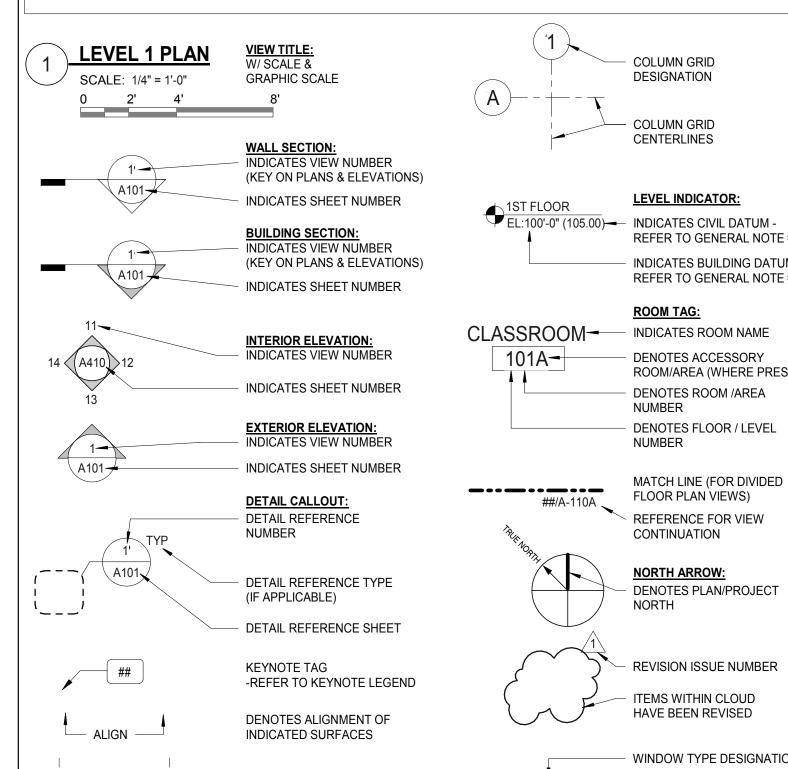
RESPONSE: Triple glazing is required at operable to meet code U values. Double glazing at all fixed windows shall meet code U value.

All other portions of the Contract Documents remain unchanged.

Please be reminded to acknowledge this Addendum on the bid forms.

**END OF ADDENDUM NO. 01** 

# **GENERAL DRAWING ANNOTATIONS**



DIMENSIONING LINE

TOC

TOF

RESILIENT BASE

**ROOF DRAIN** 

TOP OF CONCRETE

TOP OF FOOTING

## **ABBREVIATIONS**

DEMOLISH, DEMOLITION

DRINKING FOUNTAIN

FIRE RESISTANT

FIRE SHIELD

FR

FS

LTG

LVR

LIGHTING

LOUVER

@	AT	DIA	DIAMETER	FSZ	FULL SIZE			REF	REFRIGERATOR	TOM	TOP OF MASONRY
ACT	ACOUSTICAL CEILING TILE	DIM	DIMENSION	FT	FEET, FOOT	MACH	MACHINE	REINF	REINFORCING	TOP	TOP OF PARAPET
AD	AREA DRAIN	DN	DOWN	FTR	FIN TUBE RADIATOR	MAS	MASONRY	REQD	REQUIRED	TOR	TOP OF RAIL
ADJ	ADJUSTABLE	DO	DOOR OPENING	FUR	FURRING	MAT	MATERIAL	RESIL	RESILIENT	TOS	TOP OF STEEL
AFF	ABOVE FINISH FLOOR	DR	DOOR			MAX	MAXIMUM	RET	RETAINING	TOW	TOP OF WALL
ALUM	ALUMINUM	DS	DOWNSPOUT	GA	GAUGE	MB	MARKER BOARD	RJ	RELIEVING JOINT	TWR	TOWER
ANCH	ANCHOR	DSP	DISPENSER	GALV	GALVANIZED	MD	METAL DOOR	RM	ROOM	TYP	TYPICAL
APPROX	APPROXIMATE(LY)	DW	DISHWASHER	GC	GENERAL CONTRACTOR	MECH	MECHANICAL	RO	ROUGH OPENING		
	- ( )	DWG(S)	DRAWING(S)	GFCMU	GROUND FACED CMU	MEMBR	MEMBRANE	RWL	RAIN WATER LEADER	UC	UNDERCUT
BD	BOARD	(-)		GL	GLASS	MFGR	MANUFACTURER			UL	UNDERWRITERS
BFE	BOTTOM OF FOOTING	EA	EACH	GMU	GLAZED MASONRY UNIT	MIN	MINIMUM	S, STR	STRUCTURAL		LABORATORY
	ELEVATION	ED	EDUCATION	GR	GRADE	MISC	MISCELLANEOUS	SAM	SELF ADHERED MEMBRANE	UNO /	UNLESS NOTED OTHERWISE /
BIT	BITUMINOUS	EDSP	END SPLASH	GSU	GLAZED STRUCTURAL UNIT	MMC	MISC METAL CONTRACTOR	SC	SCUPPER	UON	UNLESS OTHERWISE NOTED
BKSP	BACKSPLASH	EF	EXHAUST FAN	GWB	GYPSUM WALL BOARD	MO	MASONRY OPENING	SCHED	SCHEDULE	UPR	UPPER
BKT	BRACKET	EIFS	EXTERIOR INSULATED FINISH	GYP	GYPSUM	MT	METAL THRESHOLD	SCN	SCREEN	UV	UNIT VENTILATOR,
BLDG	BUILDING	LII O	SYSTEM	011	311 30W	MTD	MOUNTED	SD	STORM DRAIN		ULTRAVIOLET
BLK	BLOCK	EJ	EXPANSION JOINT	HC	HANDICAP(PED)	MTL	METAL	SECT	SECTION		
BLKG	BLOCKING	EL	ELEVATION (GRADE)	HD	HEAD, HIGH DENSITY	IVIIL	WETAL	SH	SHELF, SHELVING,	V	VOLT(AGE)
BM	BEAM	ELEC	ELECTRIC(AL)	HDR	HEADER	NAT	NATURAL	ЗП	SINGLE-HUNG	VC	VINYL CLAD
BOD	BOTTOM OF DECK	ELEV	ELEVATION (FACADE)	HDWD	HARDWOOD		NONCORROSIVE	SHT	SHEET	VCT	VINYL COMPOSITE TILE
BSMT	BASEMENT	EOD	EDGE OF DECK			NC		SIGS	SILICON IMPREGNATED	VENT	VENTILATOR
DOMI	DASLIVENT	EP	ELECTRIC PANEL	HDWR	HARDWARE	NIC	NOT IN CONTRACT	3103	GYPSUM SHEATHING	VERT	VERTICAL
CAB	CABINET	EPDM	ETHYLENE PROPYLENE DIENE	HGT	HEIGHT	NO/#	NUMBER	SIM	SIMILAR	VEST	VESTIBULE
	CHALKBOARD OR CATCH	EPDIVI	MONOMER	HM	HOLLOW METAL	NOM	NOMINAL	SIP	STRUCTURAL INSULATED	VIF	VERIFY IN FIELD
СВ	BASIN	EQ	EQUAL	HORZ	HORIZONTAL			Oli	PANEL	VP	VENT PIPE
CEM	CEMENT	EQP,	EQUIPMENT	HP	HIGH POINT	OA	OVERALL	SLID	SLIDING	VS	VINYL SHEET
CER/CT	CERAMIC/ CERAMIC TILE	EQF, EQUIP	EQUIFINENT	HR	HOUR	OC	ON CENTER	SMV	SMOKE-VENTING HATCH	VT	VINYL TILE
	CORNER GUARD	ES	EACH SIDE	HT	HEIGHT	OD	OUTSIDE DIAMETER	SPEC	SPECIFICATIONS	VWC	VINYL WALL COVERING
CG		ETR	EXISTING TO REMAIN	HVAC	HEATING, VENTILATION & AIR	ОН	OPPOSITE HAND	SPF	SPECIFIED	*****	VIIVIE WALL GOVERNIVO
CHP	CONCRETE HOUSEKEEPING PAD	EXIST	EXISTING		CONDITIONING	OPER	OPPERATE	SPK	SPEAKER	W	WIDE, WIDE FLANGE
CIP	CAST IN PLACE	EXP	EXPOSED			OPNG	OPENING	SPR	SPRINKLER	W/	WITH
CIF	CONTROL JOINT	EXT	EXTERIOR	ID	INSIDE DIAMETER	OVHD	OVERHEAD	SQ	SQUARE FEET	W/O, WO	WITHOUT
CL	CENTERLINE	EXTIN	EXTINGUISHER	IN	INCH OR INCHES	OZ	OUNCES	SS	STAINLESS STEEL	WB	WHITE BOARD (MARKER
CLG	CEILING	LATIN	EXTINGUISITEIX	IN2	SQUARE INCH			ST	STREET	VVD	BOARD)
		ED.	FLAT BAR	IN3	CUBIC INCHES	PARTN	PARTITION		STANDARD	WBO	WORK BY OTHERS
CLKG	CAULKING	FB		INCAN	INCANDESCENT	PC	PRECAST CONCRETE	STD		WBOR	WORK BY OWNER
CLOS	CLOSET	FC	FIRE CODE	INFIL	INFILTRATION	PERIM	PERIMETER	STIFF	STIFFENER	WC	WATER CLOSET
CLR	CLEAR(ANCE)	FCP	FIBER CEMENT PANEL	INSUL	INSULATION	PERP	PERPENDICULAR (TO)	STL	STEEL	WD	WOOD
CMU	CONCRETE MASONRY UNIT	FD	FLOOR DRAIN	INT	INTERIOR	PL	PLATE	STOR	STORAGE	WD	WINDOW DIMENSION
CO	CLEAR OPENING	FDC	FIRE DEPARTMENT CONNECTION	INV	INVERT	PL	PLASTIC LAMINATE	STRUCT	STRUCTURAL	WG	
COL	COLUMN	FDV				PL	PLATE	SUSP	SUSPENDED		WIRE GLASS, WALL GUARD
CONC	CONCRETE (PORTLAND CEMENT)	FDV	FIRE DEPARTMENT VALVE	JAN	JANITOR	PLAS	PLASTER	SY	SQUARE YARD	WH	WALL-HUNG WROUGHT IRON
COND	•	FDVC	FIRE DEPARTMENT VALVE CABINET	JB	JUNCTION BOX	PLUMB	PLUMBING	_		WI	
COND	CONDITION	FE	FIRE EXTINGUISHER	JST	JOIST	PLWD	PLYWOOD	T	TREAD	WIND	WINDOW
CONST	CONSTRUCTION	FEC	FIRE EXTINGUISHER CABINET	JT	JOINT	PNL	PANEL	T&G	TONGUE & GROOVE	WO	WINDOW OPENING
CONT	CONTINUOUS		FACTORY FINISH			POL	POLISHED	TB	TACK BOARD	WP	WATERPROOFING
CONTR	CONTRACTOR	FF		LAM	LAMINATE(D)	PR	PAIR	TBLE	TABLE	WT	WEIGHT
CORR	CORRIDOR	FFE	FINISH FLOOR ELEVATION	LBS/#	POUNDS	PT	PRESSURE TREATED	TC	TERRA COTTA	WWF	WELDED WIRE FABRIC
CR	COLD ROLLED	FH	FLAT HEAD	LCC	LEAD COATED COPPER	PT	PAINT(ED)	TD	TRENCH DRAIN	WWM	WELDED WIRE MESH
CTOP	COUNTERTOP	FHC	FIRE HOSE CABINET	LDP	LAMINATED DRYWALL		1741(LD)	TEL	TELEPHONE		
CU	CUBIC, COPPER	FIN	FINISH	÷	PARTITION	QT	QUARRY TILE	TERR	TERRAZZO	X	INDICATES "TIMES" OR "BY"
CUH	CABINET UNIT HEATER	FL	FLOOR, FLOORING	LGMF	LIGHT GAUGE METAL	QTY	QUANTITY	TG	TEMPERED GLASS		
		FLASH	FLASHING		FRAMING	QII	QUANTIT	THK	THICKNESS	YD	YARD
"	DITTO (REPEAT)	FLUOR	FLUORESCENT	LGTH	LENGTH	D	DISED	THRESH	THRESHOLD		
DA	DOUBLE ACTING	FO	FRAMED OPENING	LIWT	LIGHT WEIGHT	R D-	RISER	TLT	TOILET	Z	Z STUD (STRUCTURAL SHAPE)
DAFS	DIRECT APPLIED FINISH	FOS	FACE OF STEEL / STUD	LOW	LIMIT OF WORK	R=	RADIUS	TO	TOP OF		
	SYSTEM	FP	FIREPROOF(ING)	LP	LOW POINT	KAD ENCL	RADIATOR ENCLOSURE	TOB	TOP OF BLOCKING		

1 1/8"

### **BUILDING CODE SUMMARY**

SECTION 7 - CODE ANALYSIS: STOREFRONT AND EXTERIOR DOOR REPLACEMENT THE REMOVAL AND REPLACEMENT OF THE EXISTING STOREFRONTS AND DOORS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS AND ALL RELEVANT STANDARDS REFERENCED THEREIN:

1. CMR 780 MASSACHUSETTS STATE BUILDING CODE, TENTH EDITION (2021 INTERNATIONAL BUILDING CODE WITH MASSACHUSETTS AMENDMENTS)

CHAPTER 13 COMMERCIAL ENERGY EFFICIENCY (2021 INTERNATIONAL ENERGY CONSERVATION ENERGY CODE AND ASHRAE 90.1-2016 WITH MASSACHUSETTS

· CHAPTER 34 EXISTING BUILDING CODE (2021 INTERNATIONAL EXISTING BUILDING CODE WITH MASSACHUSETTS AMENDMENTS) CHAPTER 115 AA MASSACHUSETTS STRETCH ENERGY CODE.

2. CMR 521 MASSACHUSETTS ARCHITECTURAL ACCESS BOARD RULES AND REGULATIONS.

### CMR 780 MASSACHUSETTS STATE BUILDING CODE, TENTH EDITION ANALYSIS

CHAPTER 5 [CE]: EXISTING BUILDINGS:

**COLUMN GRID** 

**COLUMN GRID** 

**LEVEL INDICATOR:** 

REFER TO GENERAL NOTE #9

INDICATES BUILDING DATUM -

**REFER TO GENERAL NOTE #9** 

ROOM/AREA (WHERE PRESENT)

INDICATES ROOM NAME

DENOTES ACCESSORY

DENOTES ROOM /AREA

DENOTES FLOOR / LEVEL

MATCH LINE (FOR DIVIDED

FLOOR PLAN VIEWS)

CONTINUATION

**NORTH ARROW:** 

REFERENCE FOR VIEW

DENOTES PLAN/PROJECT

REVISION ISSUE NUMBER

WINDOW TYPE DESIGNATION

"D" SUFFIX INDICATES EXISTING

WINDOW TO BE DEMOLISHED

ITEMS WITHIN CLOUD HAVE BEEN REVISED

CENTERLINES

**ROOM TAG:** 

NUMBER

NUMBER

DESIGNATION

SECTION C501.1 SCOPE. THE PROVISIONS OF THIS CHAPTER SHALL CONTROL THE ALTERATION, REPAIR, ADDITION AND CHANGE OF OCCUPANCY OF EXISTING BUILDINGS AND STRUCTURES.

SECTION C501.2 EXISTING BUILDINGS:

EXCEPT AS SPECIFIED IN THIS CHAPTER, THIS CODE SHALL NOT BE USED TO REQUIRE THE REMOVAL, ALTERATION, OR ABANDONMENT OF, NOR PREVENT THE CONTINUED USED AND MAINTENANCE OF, AN EXISTING BUILDING OR BUILDING SYSTEM LAWFULLY IN EXISTENCE AT THE TIME OF ADOPTION OF THIS CODE.

SECTION C503.1 ALTERATIONS, GENERAL: ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THE CODE FOR NEW CONSTRUCTION. ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE IS NO LESS CONFORMING TO THE PROVISIONS OF THIS CODE THAN THE EXISTING BUILDING OR STRUCTURE WAS PRIOR TO THE ALTERATION. ALTERATIONS TO AN EXISTING BUILDING, BUILDING SYSTEM OR PORTION THEREOF SHALL CONFORM TO THE PROVISIONS OF THIS CODE AS THOSE PROVISIONS RELATE TO NEW CONSTRUCTION WITHOUT REQUIRING THE UNALTERED PORTIONS OF THE EXISTING BUILDING OR BUILDING SYSTEM TO COMPLY WITH THIS CODE. ALTERATIONS SHALL NOT CREATE AN UNSAFE OR HAZARDOUS CONDITION OR OVERLOAD EXISTING BUILDING SYSTEMS.

CHAPTER 13 COMMERCIAL ENERGY EFFICIENCY TABLE C301.1 CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS BY STATE, COUNTY, AND TERRITORY.

### MASSACHUSETTS 5A(ALL)

SECTION C401.2.1 APPLICATION TO REPLACEMENT FENESTRATION PRODUCTS. WHERE SOME OR ALL OF AN EXISTING FENESTRATION UNIT IS REPLACED WITH A NEW FENESTRATION PRODUCT, INCLUDING SASH AND GLAZING, THE REPLACEMENT FENESTRATION UNIT SHALL MEET THE APPLICABLE REQUIREMENTS FOR U-FACTOR AND SHGC IN TABLE C402.4.

TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

CLIMATE ZONE: 5 AND MARINE 4 FIXED FENESTRATION 0.30 OPERABLE FENESTRATION 0.32 ENTRANCE DOORS

OPERABLE PF< 0.2 0.38 0.33 PF=0.2-0.5 0.46 0.40 PF=> 0.5 0.61 0.53

NR=NO REQUIREMENT, PF=PROJECTION FACTOR

CHAPTER 34 EXISTING BUILDING CODE

2021 INTERNATIONAL EXISTING BUILDING CODE WITH MASSACHUSETTS AMENDMENTS SECTION 503 ALTERATION - LEVEL 1

REMOVAL AND REPLACEMENT OF EXISTING MATERIALS USING NEW MATERIALS THAT SERVE THE SAME PURPOSE SHALL BE CLASSIFIED AS LEVEL 1 ALTERATIONS. SECTION 702.6 MATERIALS AND METHODS

ALL NEW WORK SHALL COMPLY WITH THE MATERIALS AND METHODS REQUIREMENTS IN THE INTERNATIONAL BUILDING CODE.

AA104 EXISTING BUILDINGS. FOR ALTERATIONS, RENOVATIONS, ADDITIONS, OR REPAIRS OF EXISTING BUILDINGS IN THESE MUNICIPALITIES THE ENERGY EFFICIENCY REQUIREMENTS OF 780 CMR 13.00 ENERGY EFFICIENCY OR 51.00 MASSACHUSETTS BUILDING CODE, SHALL BE USED AS APPLICABLE BASED ON THE USE AND OCCUPANCY OF THE BUILDING.

## **GENERAL NOTES**

1. "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

4. 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

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 SHALL REPORT ANY CONFLICTS AFFECTING 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 MECHANICAL EQUIPMENT RELATED 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, FIRESAFING, 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. VERTICAL DATUM: ARCHITECTURAL DRAWINGS REFERENCE THE MAIN FLOOR CLOSEST TO GROUND LEVEL AS 100'-0." ALL ARCHITECTURAL SPOT ELEVATIONS AS REFERENCED BY MARKER:

NAME OF LEVEL 100'-0" (###.##)

ARE RELATIVE TO THIS ARCHITECTURAL DATUM. THE NUMBER IN PARENTHESIS, WHERE USED, IS INTENDED TO CONVEY THE CIVIL DATUM IN DECIMAL FEET. REFER TO CIVIL DRAWINGS FOR BENCHMARK AND ACTUAL GRADE

## PHASING & ALTERNATES:

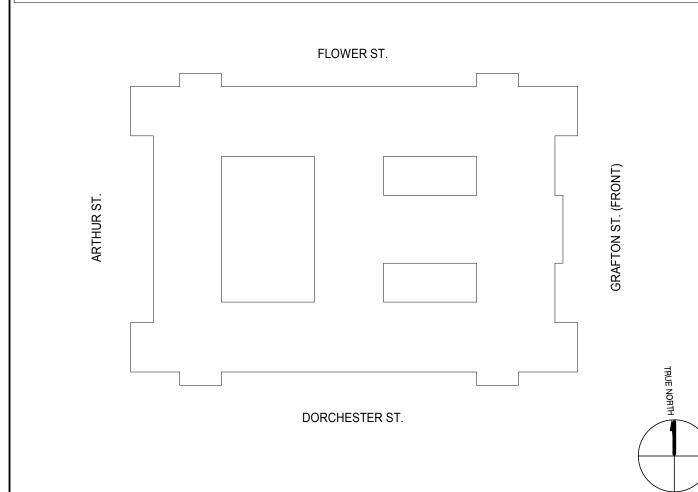
PHASE 1: FRONT/EAST FACADE (GRAFTON STREET) WINDOWS, SOUTH FACADE (DORCHESTER ST.) WINDOWS

ALTERNATE 2: URGENT COURTYARD WINDOWS (AS SHOWN ON DRAWINGS).

ALTERNATE 3: REMAINING COURTYARD WINDOWS -EXCEPT THOSE RECENTLY REPLACED (AS SHOWN ON DRAWINGS).

EXTERIOR BUILDING DOOR ENTRIES (EXCEPT FRONT AND BOILER ROOM), NORTH FACADE WINDOWS (FLOWER ST.) ALTERNATE 1: WEST FACADE (ARTHUR ST.) WINDOWS

**KEY PLAN** (NOT TO SCALE)



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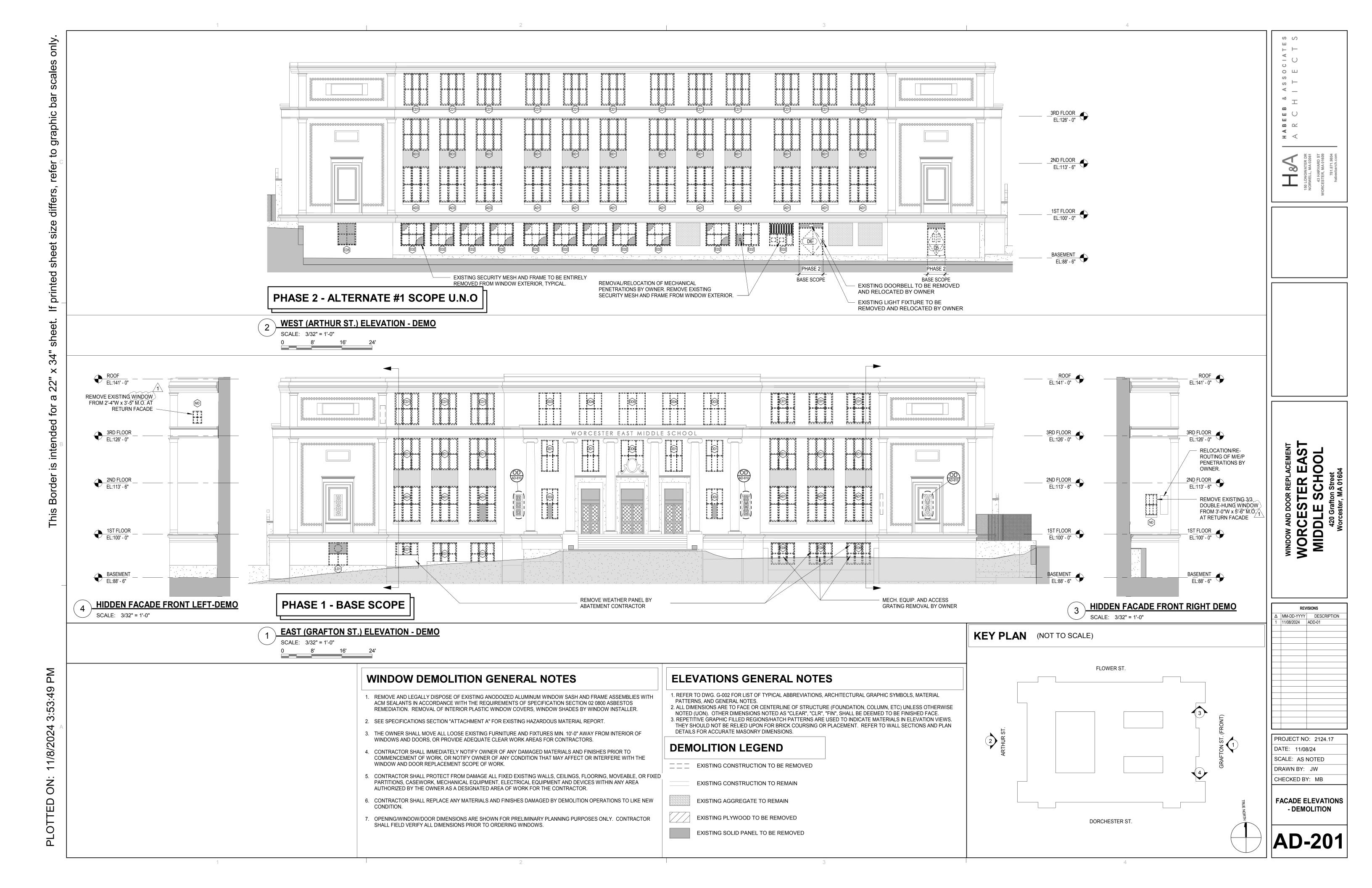
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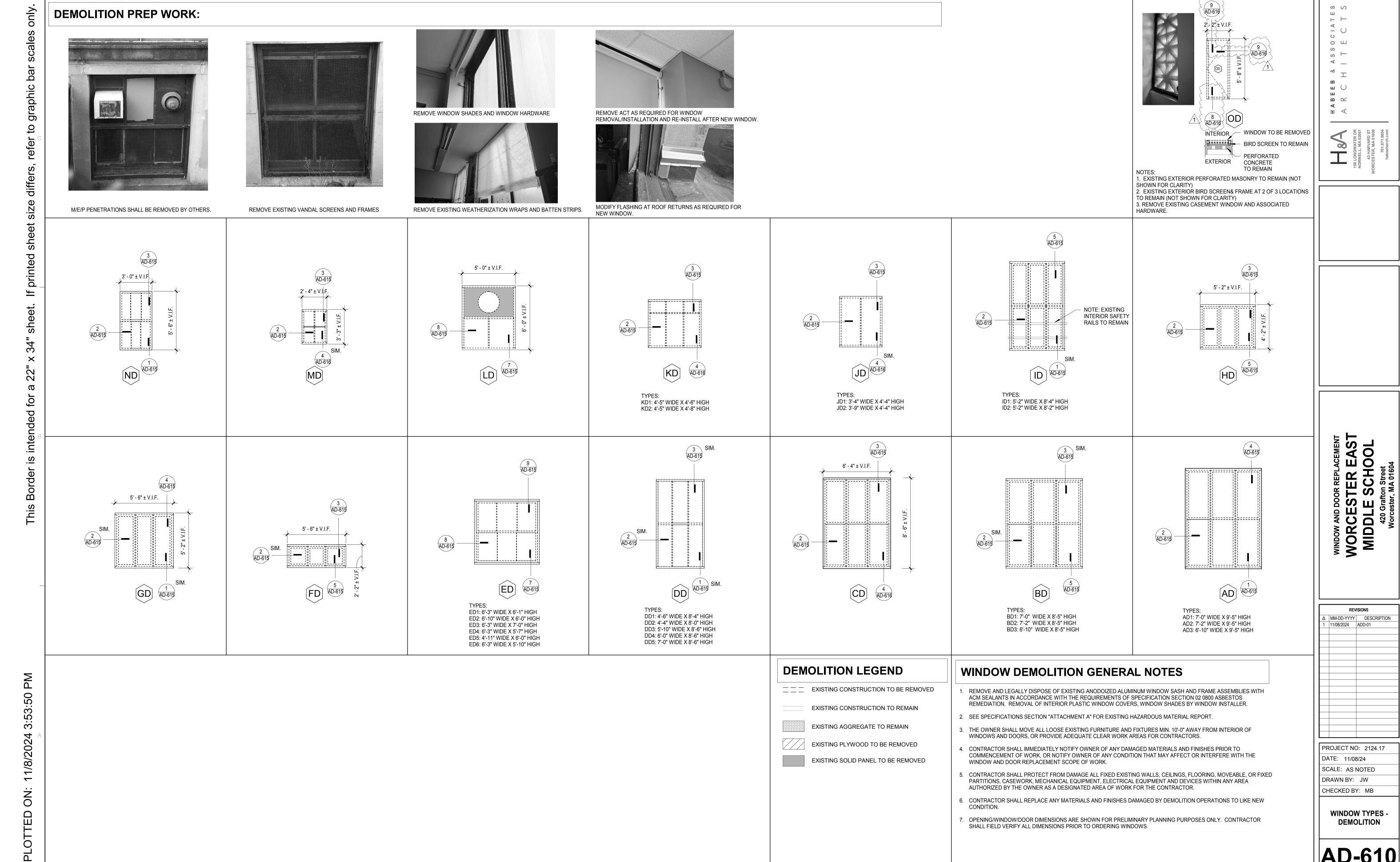
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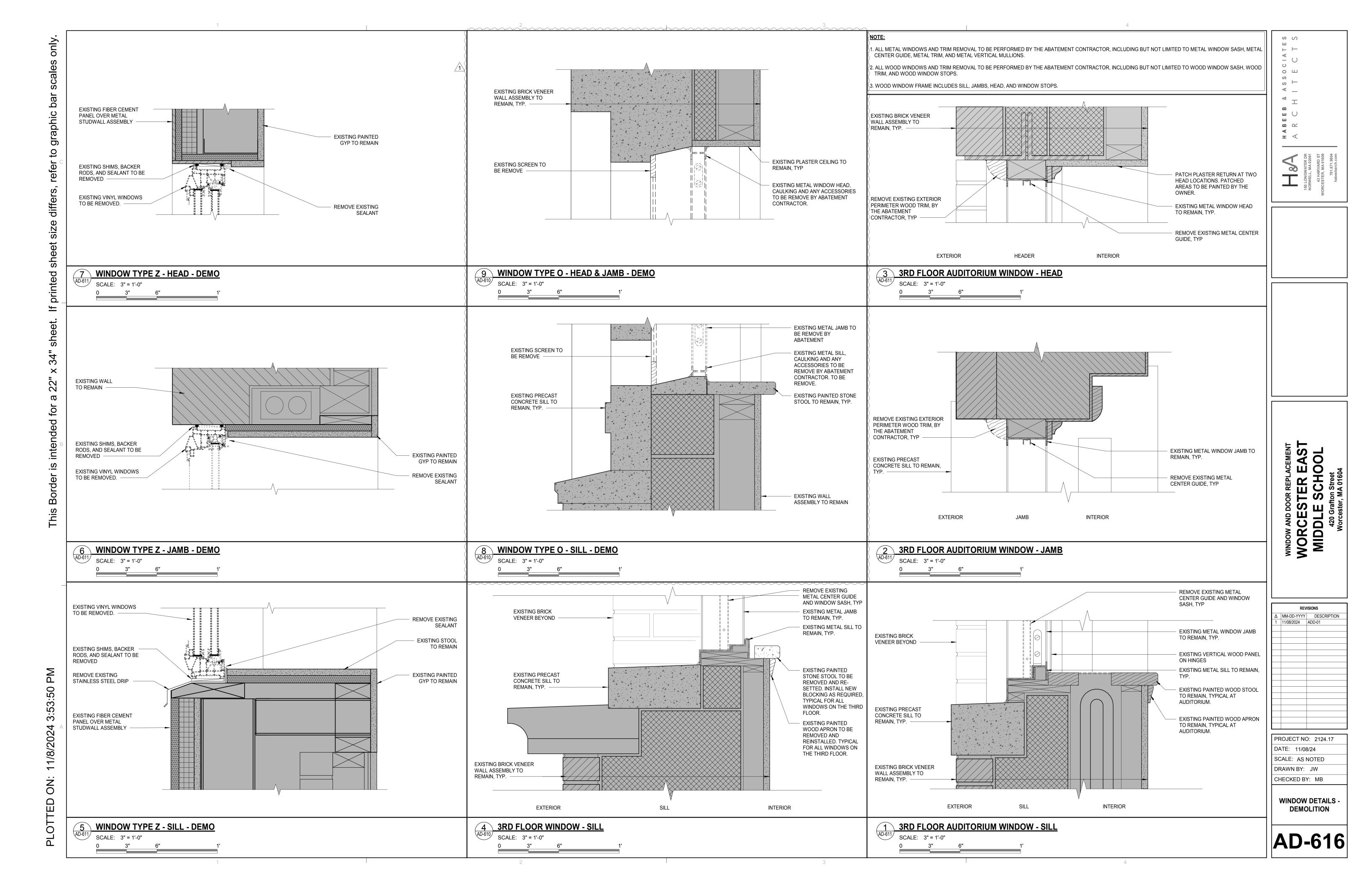
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SCALE: AS NOTED DRAWN BY: JW CHECKED BY: MB

SYMBOLS, ABBREVIATIONS, **GENERAL NOTES & CODE SUMMARY** 







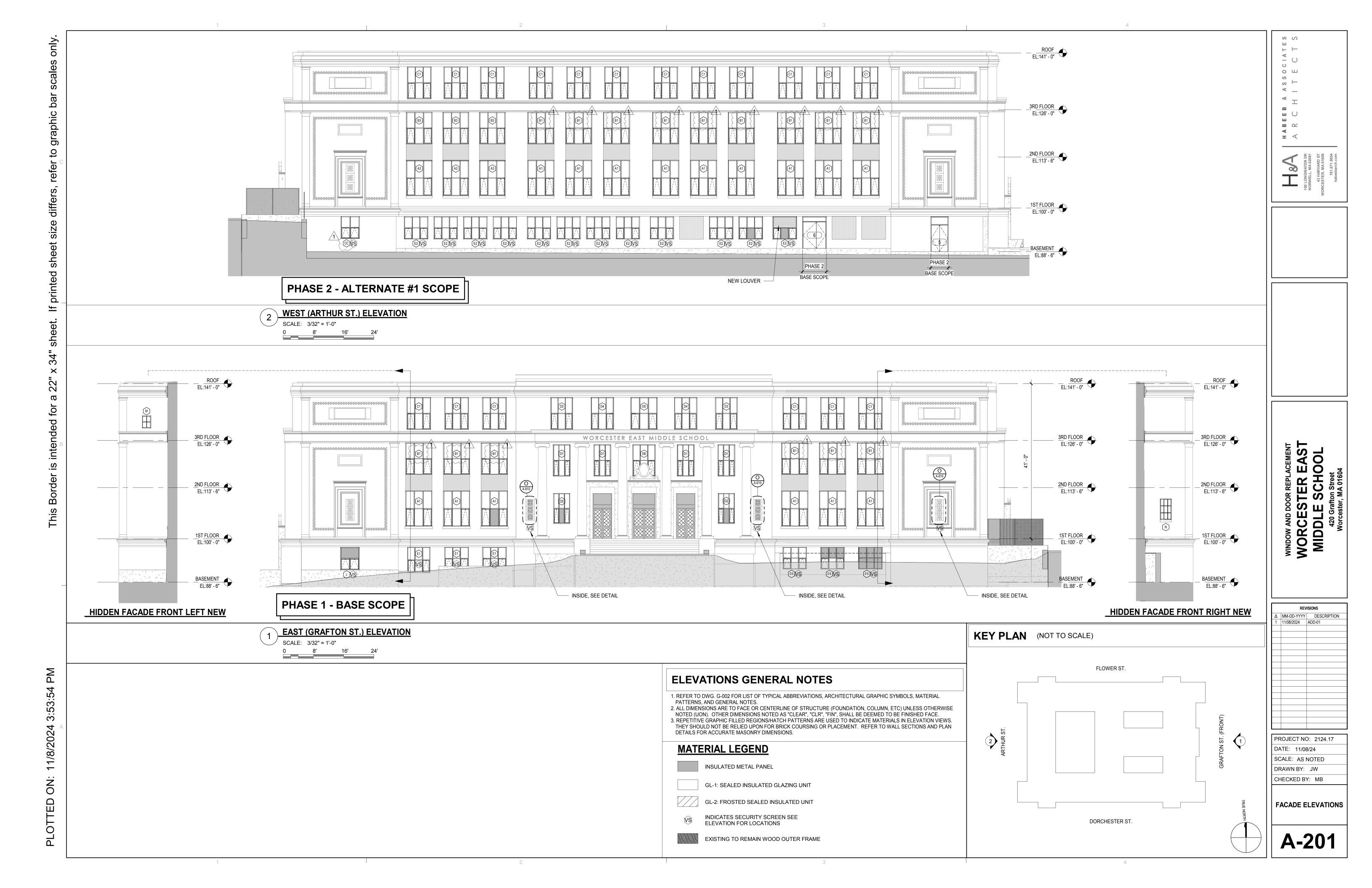
WORCESTER EA
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420 Grafton Street
Worcester, MA 01604

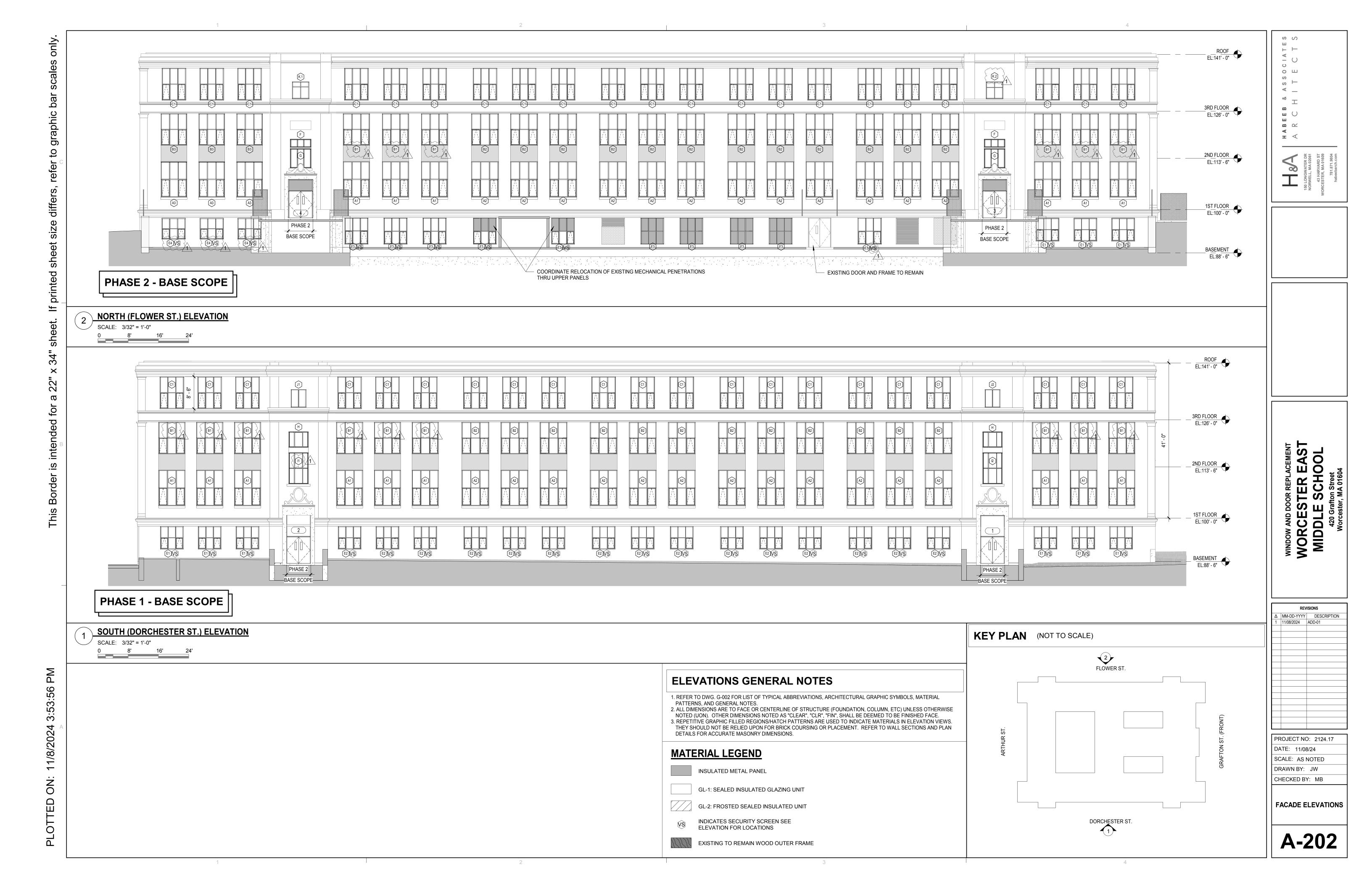
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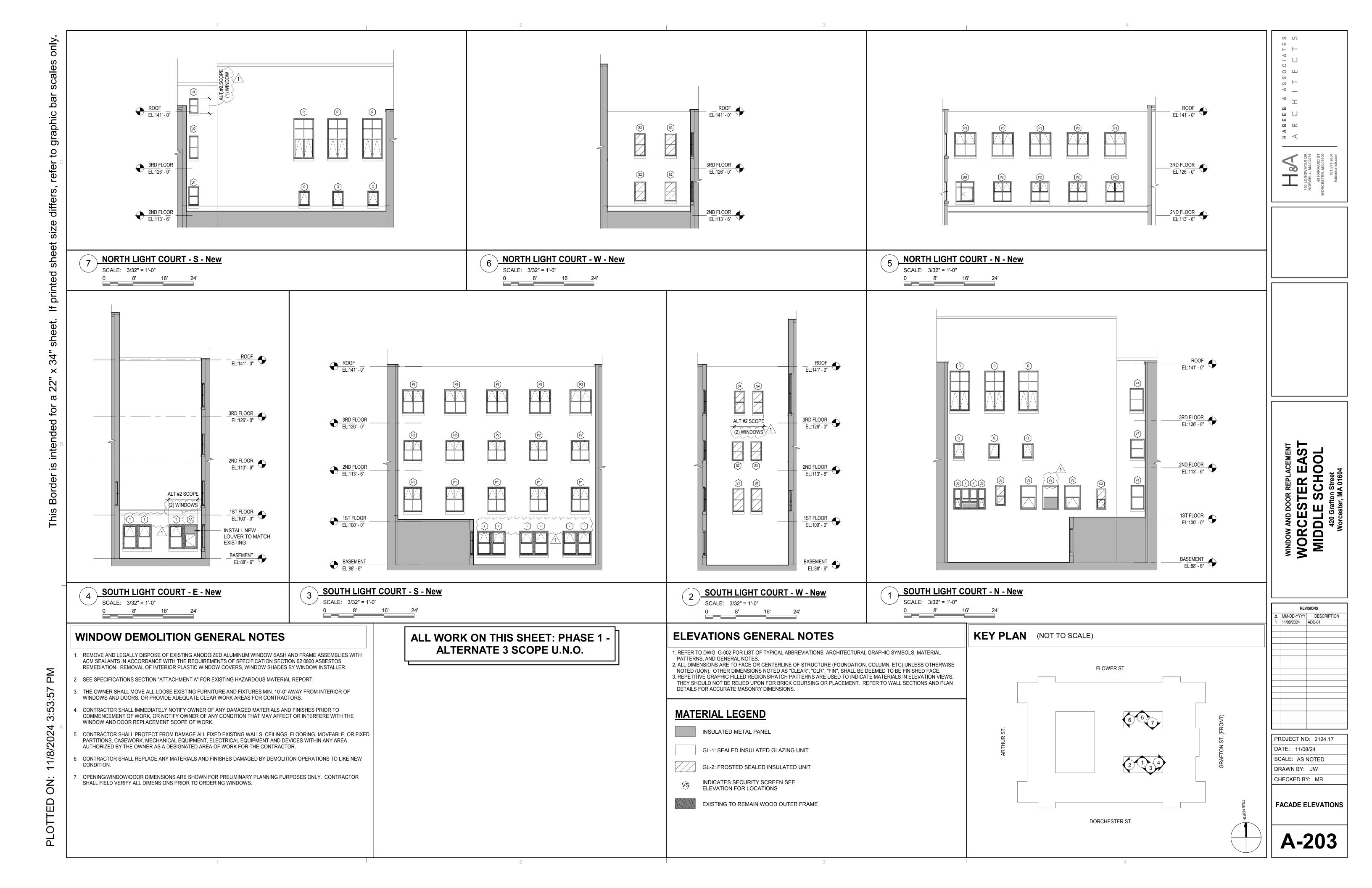
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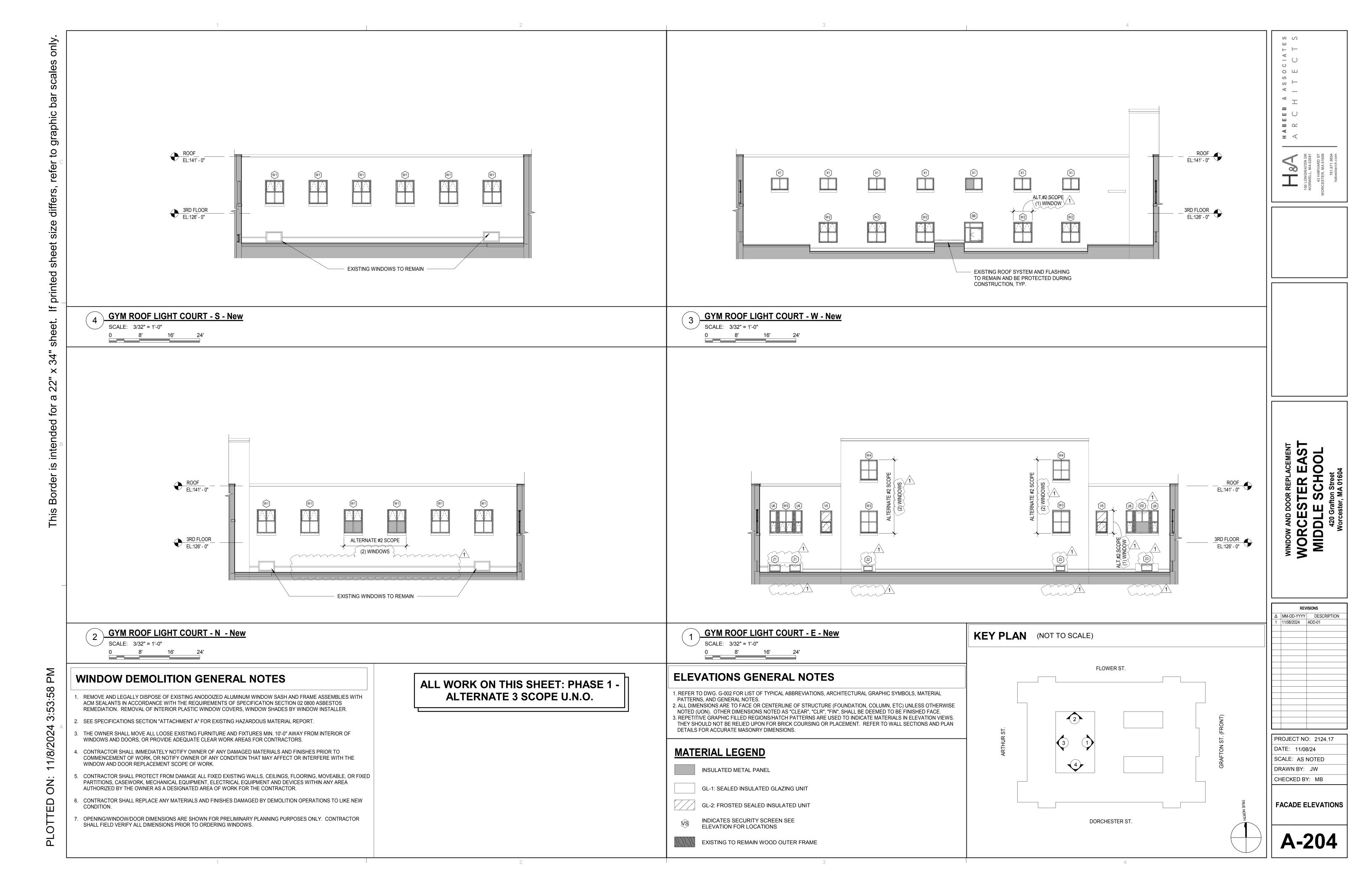
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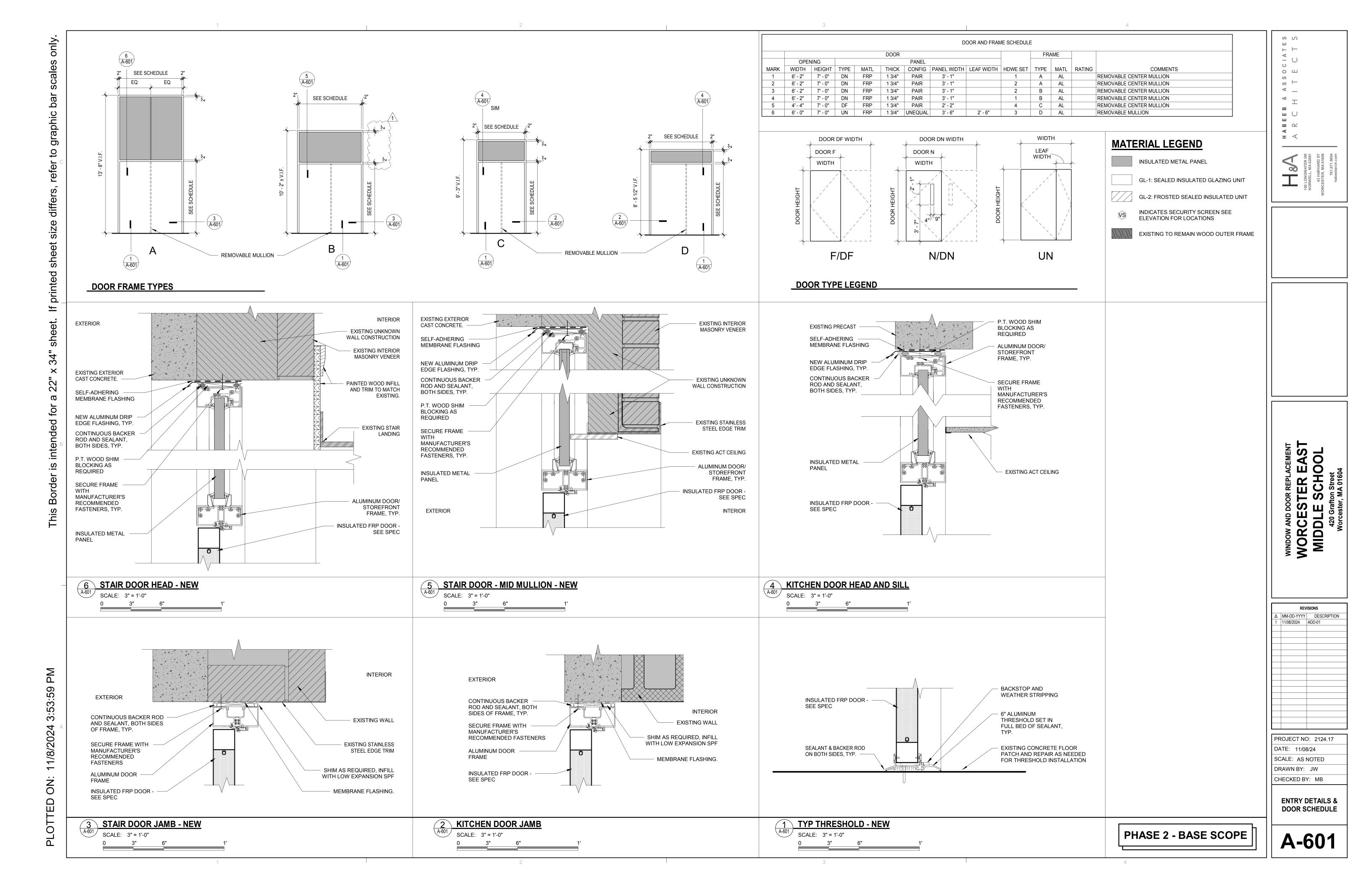
ARCHITECTURAL SITE PLAN

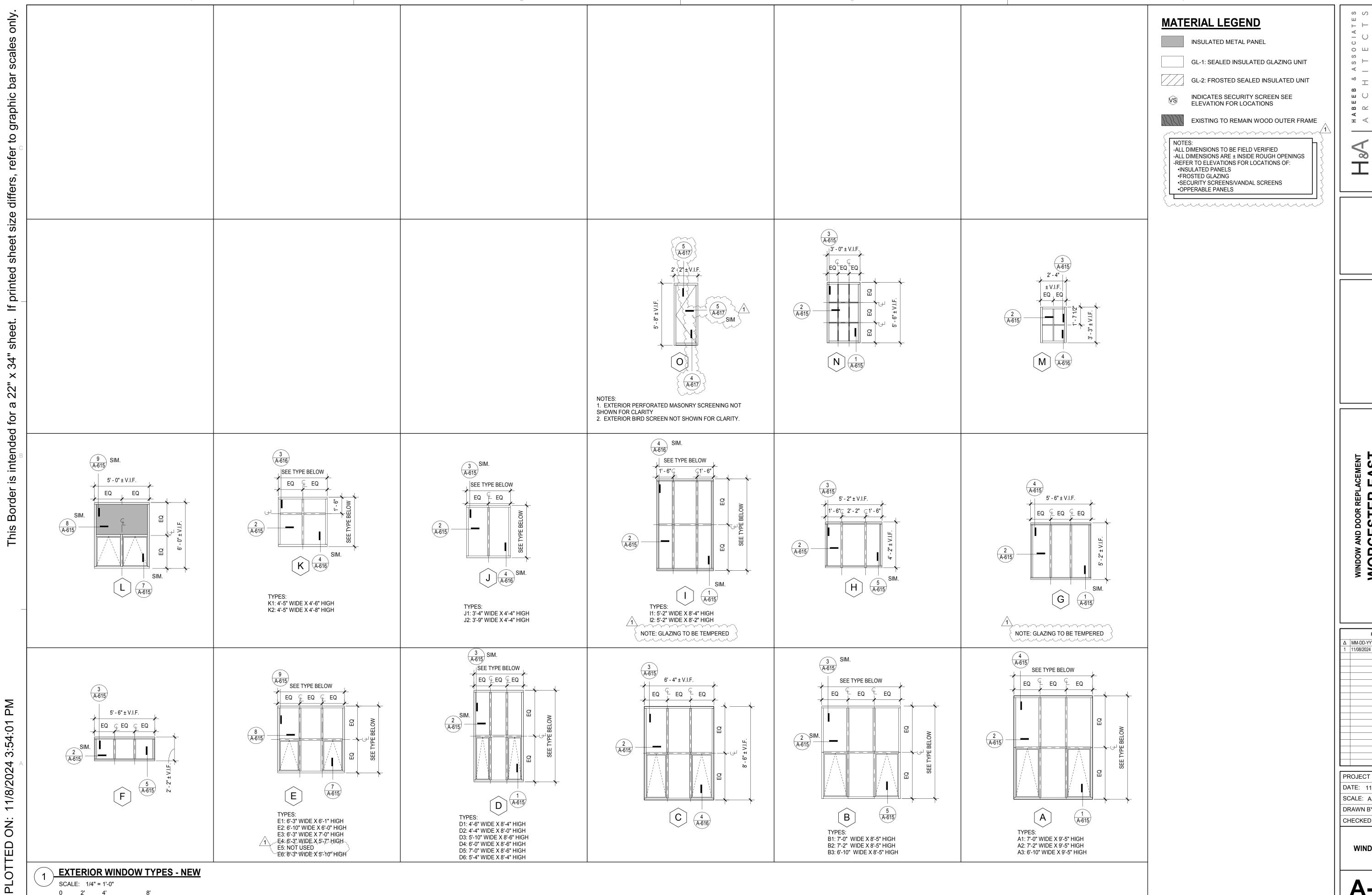












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PROJECT NO: 2124.17 DATE: 11/08/24

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WINDOW TYPES

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