LINCOLN ELEMENTARY SCHOOL

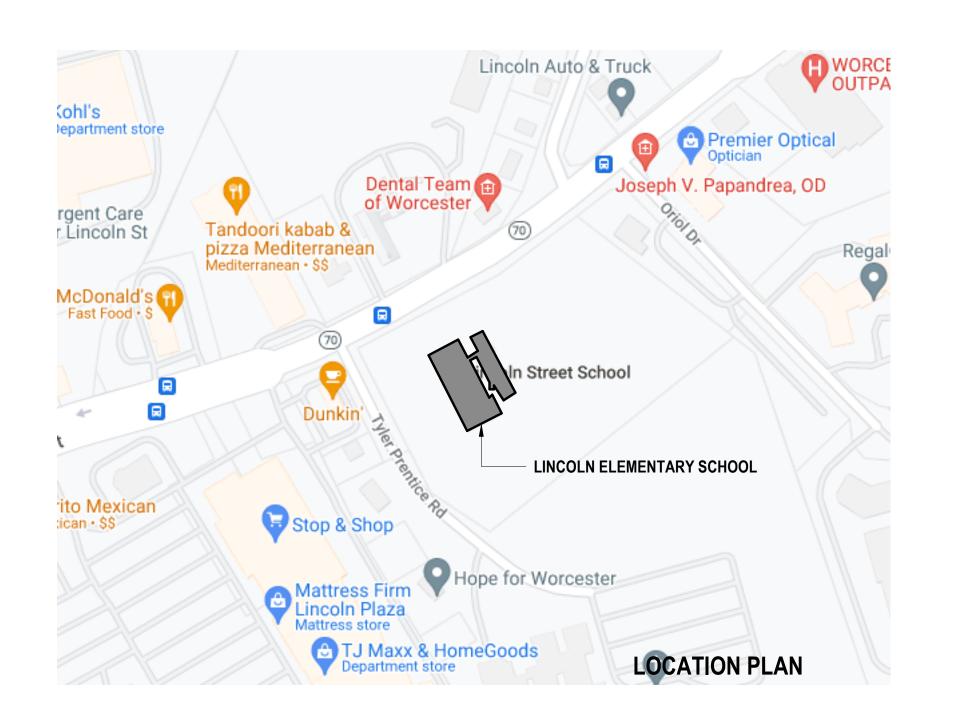
LOUVER TYPE

*NOTE: SEE INDIVIDUAL DRAWINGS FOR LEGENDS &

OF REPETITIVE MATERIALS.

DEFINITION OF POCHE USED TO REPRESENT LARGE AREAS

BORROWED LIGH TYPE





WALL SECTION

DETAIL CUT

DETAIL

INTERIOR /EXTERIOR

ELEVATION / ELEVATION

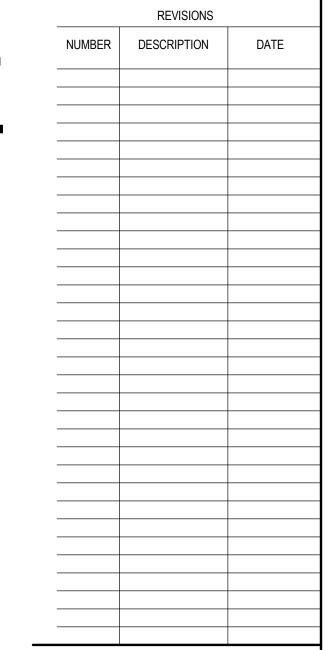
FLOOR MATERIAL BREAK

WORCESTER, MASSACHUSETTS

DRAWING LIST

D3.01

SEPTEMBER 18, 2024 BID SET



BID SET

PROJECT NUMBER 02023.10

OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER

LINCOLN ES ADA **UPGRADES PROJECT**

549 Lincoln St, Worcester, MA 01605

DRAWING TITLE **COVER SHEET**

DRAWING INFORMATION DRAWN BY

DRAWING NUMBER

CITY OF WORCESTER **WORCESTER PUBLIC SCHOOLS**



120 GRANITE ST, WORCESTER, MA 01605

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ELECTRICAL & TECHOLOGY ENGINEER SHEPHERD ENGINEERING 1308 Grafton Street Worcester, MA 01604

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515 Converse St Longmeadow, MA 01106 (413) 567-9544 COST ESTIMATOR FENNESSY CONSULTING

27 Glen Street, Suite 8 Stoughton, MA 02072

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GEOTECHNICAL ENGINEER LAHLAF GEOTECHNICAL CONSULTING, INC. 23 Mcginness Way Billerica, MA 01821

(978) 330-5912 SURVEY, PERMITTING/ CIVIL ENGINEER **BRENNÁN ASSOCIATES** 24 RAY AVE, SUITE 203 Burlington, MA 01803

ENVIRONMENTAL PERMITTING LORD ASSOCIATES 1911 SW US-40 Blue Springs, MA 01862

> (781) 255-5554 **ELEVATOR CONSULTANT** SYSKA HENNESSY GROUP, INC. 10 Post Office Square #725 Boston, MA 02109 (617) 577-9900

(781) 273-3434

ABBREVIATIONS

ΑT

SYMBOLS

A ... 4 .. Ar .. A ...

UNDISTURBED OR

MASONRY (CMU OR BRICK)

0 A01.01 0 OR

CPT E-VCT

EXPOSED WOOD TRIM

WOOD FRAMING

WOOD SHIM

PLYWOOD

PLYWOOD

BATT INSULATION

RIGID INSULATION

1/2" SEALANT JOINT

WITH BACKER ROD

AB	ANCHOR BOLT	EIFS	EXTERIO
ACOUST	ACOUSTICAL	EJ	EXPANS
ACP	ACCESS PANEL	ELECT	ELECTRI
ACT	ACOUSTICAL CEILING TILE	ELEV OR EL	ELEVATI
AD	AREA DRAIN	EMER	EMERGE
ADO	AUTO DOOR OPENER	EMBED	EMBEDM
ADJ	ADJUSTABLE	EN	ENAMEL
AED	AUTOMATIC EMERGENCY DEFIBRILLATOR/CABINET	ENL	ENLARG
AFF	ABOVE FINISH FLOOR	EPS	EXPAND
ALUM	ALUMINUM	EQ	EQUAL
ANOD	ANODIZED	EQUIP	EQUIPM
ASPH	ASPHALT	EXP	EXPANS
ASSY	ASSEMBLY	EXIST OR (E)	EXISTIN
ATTACH	ATTACHMENT	EXT	EXTERIO
ALT	ALTERNATE	EXTR	EXTRUD
BD OR BRD	BOARD	FB	ELECTRI
BF	BARRIER FREE	FD	FLOOR D
BITUM	BITUMINOUS	FE	FIRE EX
BLDG	BUILDING	FE-K	FIRE EX
BLKG	BLOCKING	FEC	FIRE EX
BM	BEAM	FF	FACTOR
BO	BOTTOM OF	FH	FIRE HY
BOD	BOTTOM OF DECK	FIN	FINISH(E
BOTT	BOTTOM	FLASH('G)	FLASHIN
BTWN	BETWEEN	FLR	FLOOR
CB	CATCH BASIN	FM	FACTOR
CEM	CEMENT		
CFMF	COLD FORM METAL FRAMING	FCIC	FURNISH
CG	CORNER GUARD (SS)	FOIC FOIO	FURNISH
CJ	CONTROL JOINT	FOM	FURNISH FACE OF
CLG	CEILING	FO	FACE OF
CMU	CONCRETE MASONRY UNIT	FOB	FACE OF
CO	CLEAN OUT	FO CMU	FACE OF
COL	COLUMN	FP CIVIO	
CONC	CONCRETE		FIREPLA
CORR	CORRIDOR	FRMG	FRAMING
CL	CENTER LINE	FRP	FIBERGL
CLR	CLEAR	FT	FOOT OF
CONN	CONNECT	FTR	FIN TUBI
CONT	CONTINUOUS	GA	GAUGE
CP	CEMENT PLASTER	GALV	GALVAN
CPT	CARPET	GL	GLASS
CSK	COUNTERSINK	GLB	GLUE LA
CT	CERAMIC TILE	GWB	GYPSUM
CW	CURTAINWALL	GYP	GYPSUM
D	CLOTHES DRYER	HBD	HARDBO
DBL	DOUBLE	HC	HANDICA
DEMO	DEMOLISH	HD	HOOD
DF	DRINKING FOUNTAIN	HDW	HARDWA
DIA, Ø	DIAMETER	HGT	HEIGHT
DN	DOWN	HM	HOLLOW
DO	DITTO OR REPEAT ADJACENT ELEMENT	HORIZ	HORIZOI
DR	DOOR	HR	HOUR
DS	DOWNSPOUT	ID	INSIDE D
DWGS	DRAWINGS	IE 	INVERT I
		INT	INTERIO
		IFP	INTERAC
		INSUL	INSULAT
		INSTALL OR IN	LIATOMIO

ΞA	EACH	MATL	MATERIAL	SC	SOLID CORE
::TS	EXTERIOR INSULATION FINISH SYSTEM	MAX	MAXIMUM	SD SD	SMOKE DETECTOR
IJ	EXPANSION JOINT	MB	MACHINE BOLT	SEC	
ELECT	ELECTRICAL	MECH	MECHANICAL		SECURITY
LEV OR EL	ELEVATION		MECHANICAL, ELECTRICAL, AND PLUMBING	SF	STOREFRONT
MER	EMERGENCY	MFR	MANUFACTURER	SG	STEEL CORNER GUARD
MBED	EMBEDMENT	MH	MANHOLE	SHEATH	SHEATHING
:N	ENAMEL	MIB	MOISTURE INFILTRATION BARRIER	SHT	SHEET
NL	ENLARGED	MICRO	MICROWAVE	SHM	SECURITY HOLLOW METAL
:PS	EXPANDED POLYSTYRENE	MIN	MINIMUM	SIM	SIMILAR
:Q	EQUAL	MLDG	MOLDING	SPEC	SPECIFICATION
QUIP	EQUIPMENT	MTL	METAL	SPK	SPEAKER
XP	EXPANSION	NATL	NATURAL	SQ	SQUARE
XIST OR (E)	EXISTING	NC	NONCOMBUSTIBLE	S/S OR SS	STAINLESS STEEL
EXT	EXTERIOR	NIC	NOT IN CONTRACT	STC	SOUND TRANSMISSION COEFFICIENT
XTR	EXTRUDED			STD	STANDARD
В	ELECTRICAL FLOOR BOX	NO	NUMBER	STL	STEEL
.D	FLOOR DRAIN	NP	NO PAINT	STOR	STORAGE
Έ	FIRE EXTINGUISHER - SEE SYMBOLS	NR	NOT RATED	STRUCT	STRUCTURAL
E-K	FIRE EXTINGUISHER - SEE STMBOLS FIRE EXTINGUISHER - KITCHEN TYPE - SEE SYMBOLS	NOM	NOMINAL	SUSP	SUSPENDED
EC	FIRE EXTINGUISHER CABINET - SEE SYMBOLS	NTS	NOT TO SCALE	SV	SLEEVE
		00	ON CENTER	T & G	TONGUE & GROOVE
F 	FACTORY FINISH	OD	OUTSIDE DIAMETER	TERM	TERMINATION
Н	FIRE HYDRANT	ODC	OVERFLOW DRAIN CAP	THRESH	THRESHOLD
IN	FINISH(ED)	OHVD	OVERHEAD	TO	TOP OF
LASH('G)	FLASHING	OPER	OPERABLE	TOS	TOP OF SLAB
LR	FLOOR	OPP	OPPOSITE HAND	TRTD	TREATED
M	FACTORY MUTUAL	OPNG	OPENING	TYP	TYPICAL
CIC	FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR	OTS	OPEN TO STRUCTURE-PAINT TYP	TS	TUBE STEEL
OIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	OTA	OPEN TO ABOVE	ÜL	UNDERWRITERS LABORATORY
OIO	FURNISHED BY OWNER INSTALLED BY OWNER	OVHG	OVERHANG	UNO	UNLESS NOTED OTHERWISE
OM	FACE OF MASONRY	PENE	PENETRATION	U/S	UNDER SIDE
0	FACE OF	PERF	PERFORATED	VCT	VINYL COMPOSITION TILE
ЮВ	FACE OF BRICK	PFMU	POLISHED FINISH MASONRY UNIT	VIF	VERIFY IN FIELD
O CMU	FACE OF CMU	PI	POST INDICATOR	V PLAS	VENEER PLASTER
P	FIREPLACE	PJSC	PROJECTION SCREEN	VERT	VERTICAL
		PL	PLATE	VWC	VINYL WALL COVERING
RMG	FRAMING		PLASTIC LAMINATE	W	WASHING MACHINE
RP	FIBERGLAS REINFORCED PANEL(S)	PLAM PLAS			
T	FOOT OR FEET		PLASTER	W/	WITH
TR	FIN TUBE RADIATION	PNL	PANEL	WB	WHITE BOARD
€A.	GAUGE	PNT	PAINT FYTRIDED BOLVETYPENE	WC	WATER CLOSET
SALV	GALVANIZED	POLY	EXTRUDED POLYSTYRENE	WF	WIDE FLANGE
SL .	GLASS	PR	PAIR	WDO	WINDOW
SLB	GLUE LAMINATED BEAM	PROT	PROTECTION	WD	WOOD
SWB .	GYPSUM WALL BOARD	PSI	POUND PER SQUARE INCH	WHS	WELDED HEAD STUD
SYP	GYPSUM	PT	PRESSURE TREATED	WOM	WALK OFF MAT
IBD	HARDBOARD	PTN	PARTITION	WP	WALL PAD
IC	HANDICAP	PVC	POLYVINYL CHLORIDE	WR	WATER RESISTANT
ID	HOOD	PW OR PLYWD		WWF	WELDED WIRE FABRIC
IDW	HARDWARE	QT	QUARRY TILE		
IGT	HEIGHT	RCP	REFLECTED CEILING PLAN		
IM	HOLLOW METAL	RAD	RADIUS		
IORIZ	HORIZONTAL	RD	ROOF DRAIN		
IR	HOUR	RE	REFER TO		
	INSIDE DIAMETER	REF	REFRIGERATOR		
) =		RES	RESILIENT FLOORING		
=	INVERT ELEVATION	REQD	REQUIRED		
NT -D	INTERIOR	RM	ROOM		
=P	INTERACTIVE FLAT PANEL	RUB	RUBBER FLOORING		
NSUL	INSULATION	RWL	RAIN WATER LEADER		
NSTALL OR IN	NOITA LIATRILI	040	CHOPENDED ACCHIOTICAL CELLING		

ICE/WATER SHIELD, MOISTURE BARRIER, AIR BARRIER, DAMP PROOFING. WATER PROOFING

101

(XX.X)

SEMI - RECESSED FIRE

EXTINGUISHER CABINET

SURFACE MOUNTED FIRE

EXTINGUISHER

CORNER GUARD

EXPANSION JOINT

CONTROL JOINT

w/ FIRE EXTINGUISHER

FEC OR FE-K

INSTALL OR INS INSTALLATION

SUSPENDED ACOUSTICAL CEILING SELF ADHERED MEMBRANE

SCHEDULE

POUND LONG LEG HORIZONTAL

LB OR #

LOCATION LONG LEG VERTICAL

MECHANICAL DH1.01 H1.01 **ELEVATOR** VT.01

CEILING DETAILS ISSUED IN ADDENDA ENLARGED STAIR & RAMP PLANS, SECTIONS AT RAISED PLATFORM & DETAILS ENLARGED ELEVATOR PLANS, SECTIONS & DETAILS PLAN DETAILS & ELEVATOR DETAILS DOOR SCHEDULE, DOOR FRAME & WINDOW ELEVATIONS, DETAILS & GENERAL NOTES (ISSUED IN ADDENDA) INTERIOR ELEVATIONS (ISSUED IN ADDENDA) STRUCTURAL S0.01 **GENERAL NOTES** S0.02 TYPICAL DETAILS S0.03 TYPICAL DETAILS PARTIAL FRAMING PLANS S1.02 SECTIONS S2.01 SECTION S2.02 SECTION PLUMBING DP1.01 PLUMBING DEMOLITION FOR BASEMENT AND INTERMEDIATE LEVEL PLUMBING DEMOLITION FOR FIRST LEVEL P1.01 PROPOSED PLUMBING FLOOR PLANS ELECTRICAL ES.1 SITE PLAN ELECTRICAL SITE PLAN ELECTRICAL DETAILS BASEMENT AND INTERMEDIATE LEVEL FLOOR PLAN ELECTRICAL DEMOLITION FIRST FLOOR PLAN ELECTRICAL DEMOLITION BASEMENT LEVEL FLOOR PLAN ELECTRICAL INTERMEDIATE LEVEL FLOOR PLAN LIGHTING AND POWER

DEMOLITION LOWER LEVEL & INTERMEDIATE LEVEL FLOOR PLANS

DEMOLITION PARTIAL LOWER LEVEL, INTERMEDIATE LEVEL & FIRST LEVEL RCP

LOWER LEVEL, INTERMEDIATE LEVEL & FIRST LEVEL RCP & CEILING TYPES

DEMOLITION ENLARGED PLANS & ELEVATIONS & EX. CONDITION PHOTOS (ISSUED IN ADDENDA)

DEMOLITION FIRST LEVEL & PARTIAL ATTIC LEVEL FLOOR PLANS

LOWER LEVEL & INTERMEDIATE LEVEL FLOOR PLANS

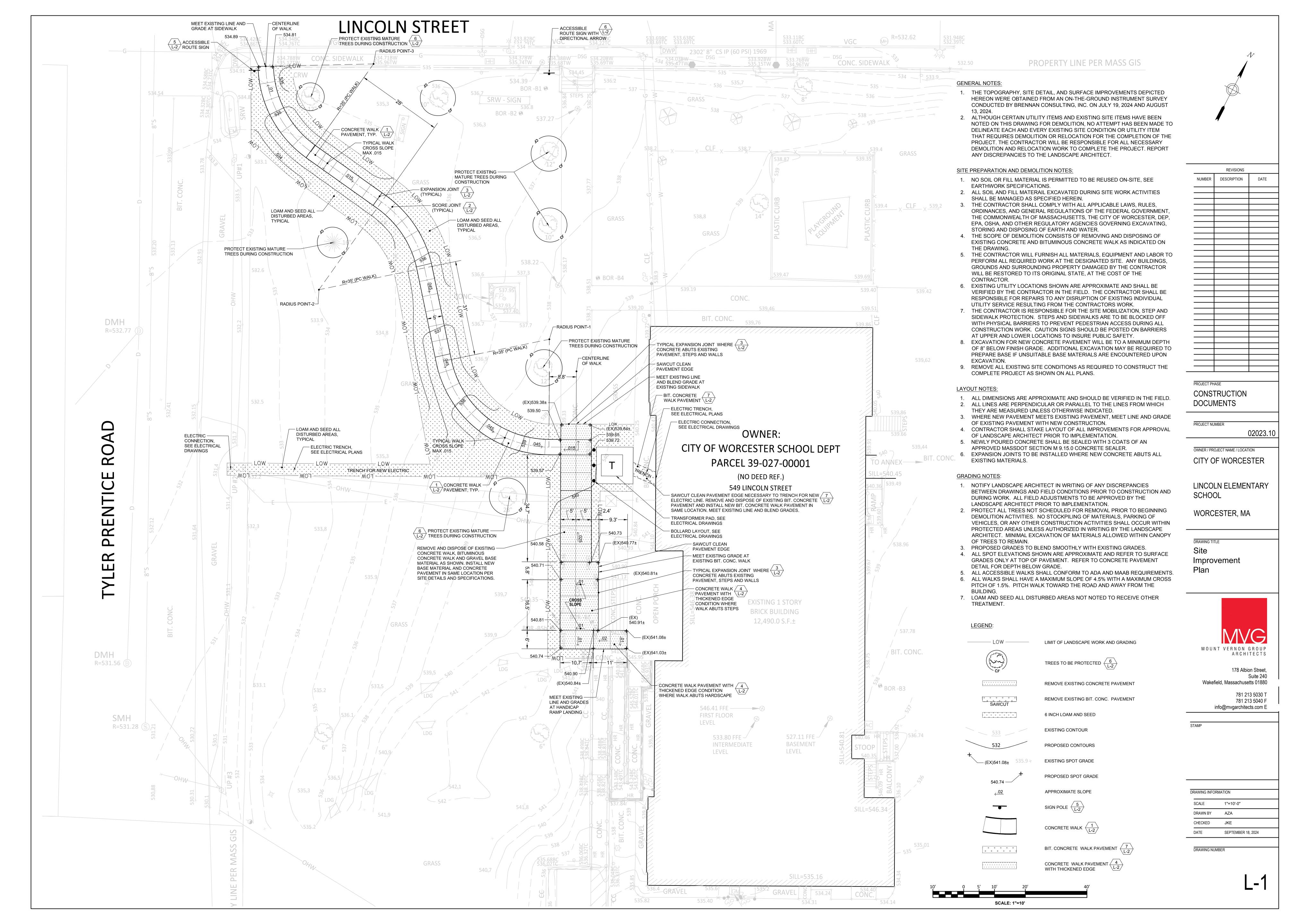
FIRST LEVEL FLOOR PLAN & PARTITION TYPES

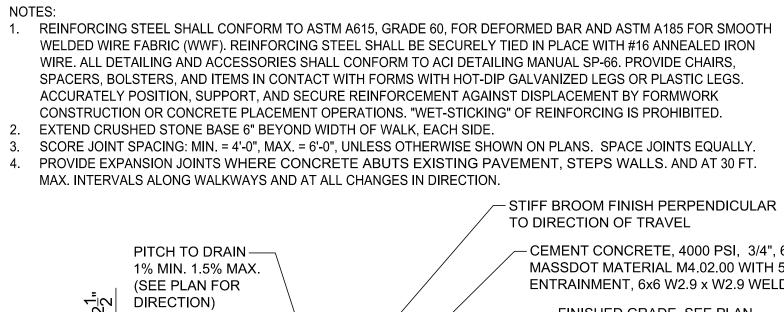
FIRST FLOOR PLAN ELECTRICAL FIRST FLOOR PLAN LIGHTING AND POWER BASEMENT LEVEL FLOOR PLAN FIRE ALARM INTERMEDIATE LEVEL FLOOR PLAN FIRE ALARM & FIRST FLOOR PLAN FIRE ALARM BASEMENT & INTERMEDIATE LEVEL FLOOR PLANS FIRE ALARM FA.2 FIRST FLOOR PLAN FIRE ALARM

HVAC DEMOLITION PLANS - LOWER LEVEL, INTERMEDIATE LEVEL AND FIRST FLOOR PROPOSED HVAC PLAN - LOWER LEVEL, INTERMEDIATE LEVEL & FIRST FLOOR PLANS AND SECTIONS

MOUNT VERNON GROUP ARCHITECTS

> 178 Albion Street, Suite 240 Wakefield, Massachusetts 01880 781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

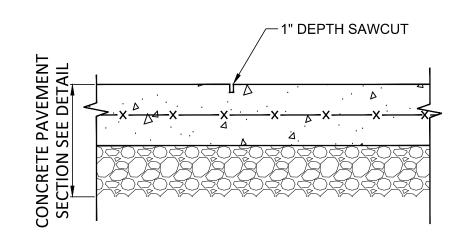




CEMENT CONCRETE, 4000 PSI, 3/4", 610, TYPE II MEETING MASSDOT MATERIAL M4.02.00 WITH 5% - 7% AIR ENTRAINMENT, 6x6 W2.9 x W2.9 WELDED WIRE FABRIC - FINISHED GRADE, SEE PLAN FOR ABUTTING MATERIAL COMPACTED DENSE GRADED CRUSHED STONE MEETING MASSDOT MATERIAL M2.01.7 - COMPACTED OR UNDISTURBED SUBGRADE [ALL UNSUITABLE MATERIAL (IF PRESENT) TO BE REMOVED AS REQUIRED AND REPLACED WITH COMPACTED DENSE GRADED CRUSHED STONE MEETING MASSDOT MATERIAL M2.01.7]

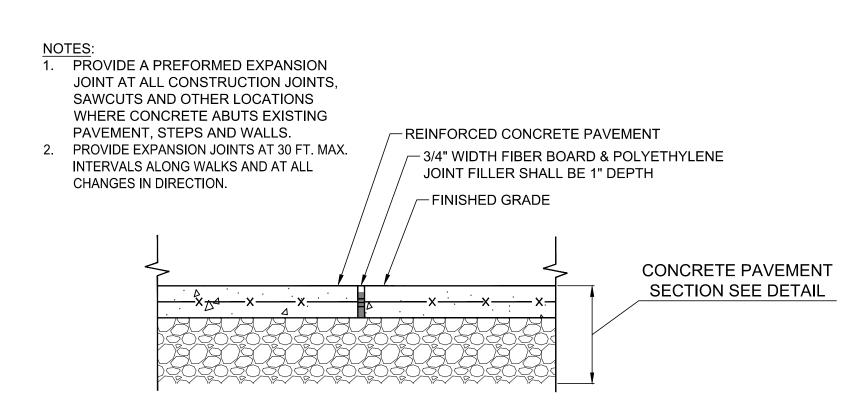
REINFORCED CONCRETE PAVEMENT NOT TO SCALE

1. SCORE JOINT SPACING: MIN. = 4'-0", MAX. = 6'-0", UNLESS OTHERWISE SHOWN ON PLANS. SPACE JOINTS EQUALLY.



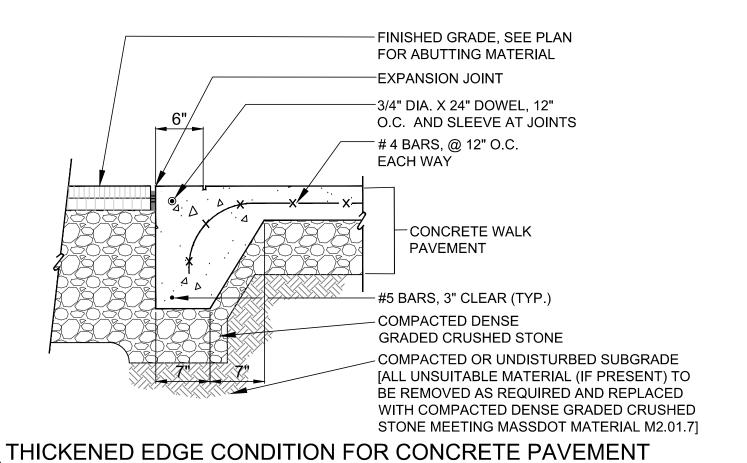
SCORE JOINT - SAWCUT

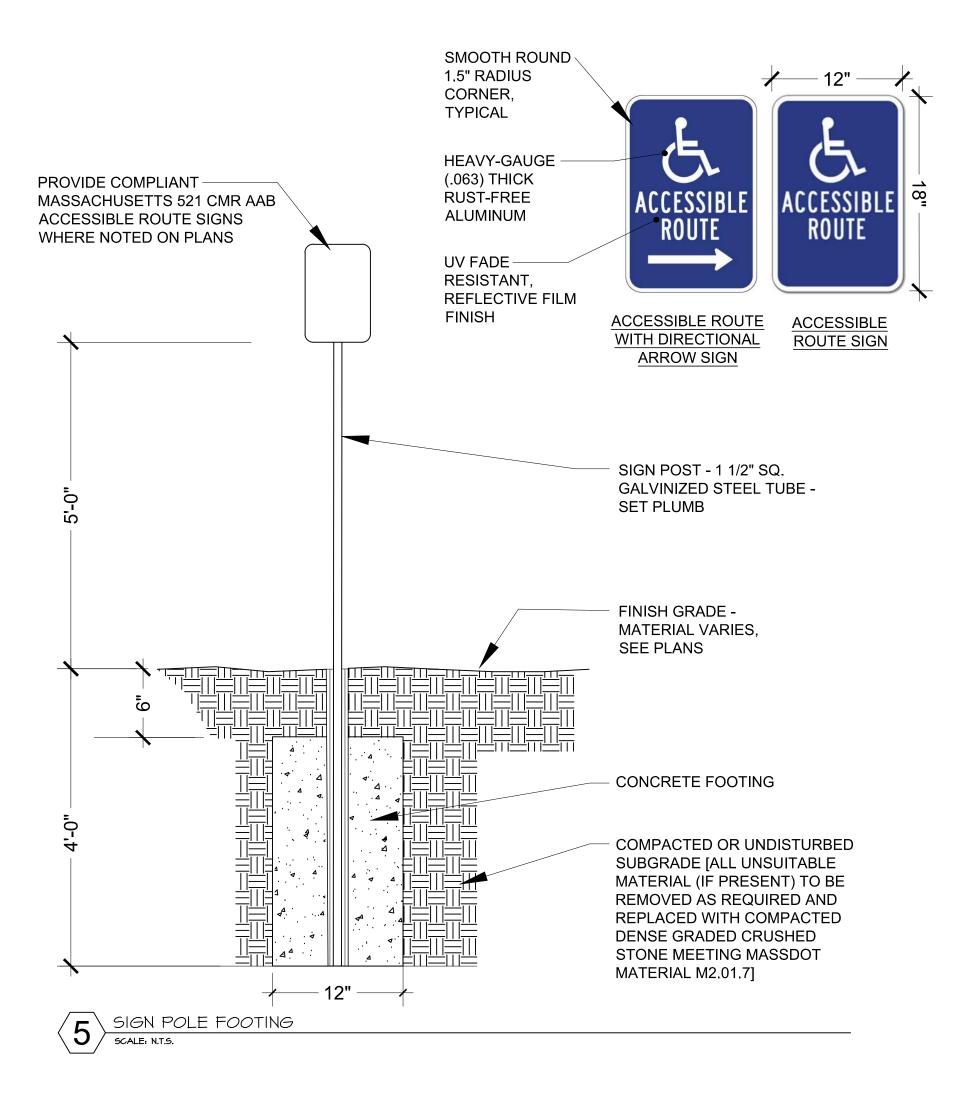
2 SCORE NOT TO SCALE

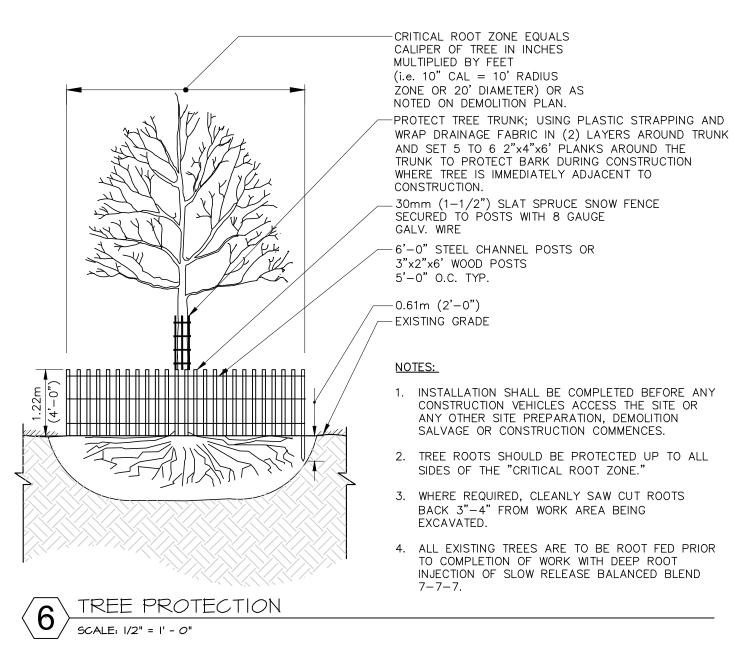


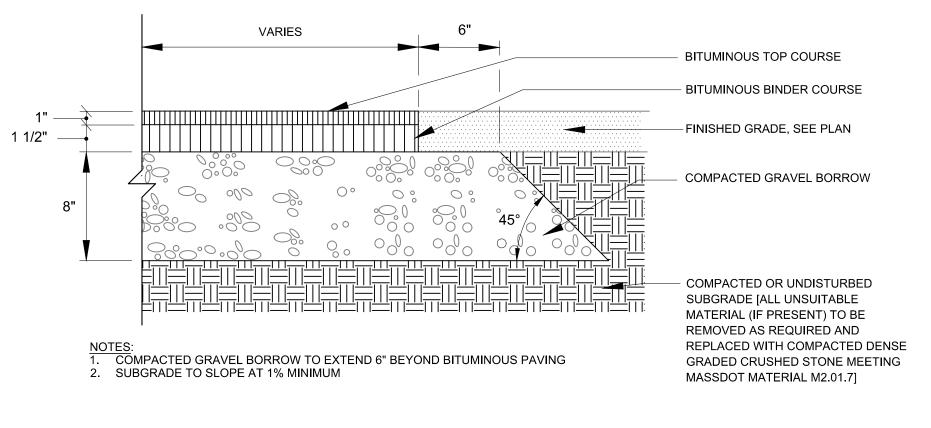
3 CONCRETE PAVEMENT EXPANSION JOINT NOT TO SCALE

4 NOT TO SCALE









BITUMINOUS CONCRETE WALK PAVEMENT SCALE: N.T.S.

GENERAL NOTES

- NO SOIL OR FILL MATERIAL IS PERMITTED TO BE REUSED ON-SITE, SEE EARTHWORK SPECIFICATIONS
- ALL SOIL AND FILL MATERAIL EXCAVATED DURING SITE WORK ACTIVITIES SHALL BE MANAGED AS SPECIFIED HEREIN. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, RULES, ORDINANCES, AND GENERAL REGULATIONS OF THE FEDERAL GOVERNMENT, THE COMMONWEALTH OF MASSACHUSETTS, THE CITY OF WORCESTER, DEP, EPA, OSHA, AND OTHER REGULATORY AGENCIES GOVERNING EXCAVATING, STORING AND DISPOSING OF EARTH AND WATER.

CONCRETE CONSTRUCTION NOTES

- ALL CONCRETE USED FOR THE WORK SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,500 POUNDS PER SQUARE INCH. 2. THE CONCRETE MIX SHALL BE DESIGNED TO RESIST EXPOSURE TO FREEZING TEMPERATURES AND DE-ICING CHEMICALS.
- 3. THE CONCRETE MIX SHALL BE PROPORTIONED TO HAVE A MAXIMUM AGGREGATE SIZE OF 1-1/2", A MAXIMUM WATER CEMENT RATIO OF 0.45, A SLUMP OF 4" +/- 0.75", AND AN AIR CONTENT OF 6% +/- 1.5% AT THE TIME OF PLACEMENT.
- 4. THE CONTRACTOR SHALL SUBMIT A SUITABLE CONCRETE MIX DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF THE WORK.
- 5. FORMWORK SHALL BE USED, WHEREVER NECESSARY, TO CONFINE THE CONCRETE AND TO SHAPE IT TO THE REQUIRED DIMENSIONS. THE FORMWORK SHALL BE RIGID ENOUGH TO WITHSTAND THE PRESSURES FROM PLACING, VIBRATION, AND FINISHING THE CONCRETE AND TO MAINTAIN ITS SHAPE AND SPECIFIED TOLERANCES
- FORMWORK SHALL NOT BE DISTURBED UNTIL THE CONCRETE HAS ADEQUATELY HARDENED. ALL FORMWORK SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING AND/OR PAVING

YARD TO PROVIDE COMPLETE COVERAGE OF THE AREA TO RECEIVE HOT MIX ASPHALT.

BITUMINOUS ASPHALT PAVEMENT NOTES

THE START OF PAVING OPERATIONS.

- 1. THE CONTRACTOR SHALL INSTALL NEW BITUMINOUS ASPHALT PAVEMENT, OVER THE PROOFROLLED AND APPROVED SUBGRADE, IN ALL PAVED PARKING, ROADWAY, AND ACCESS AREAS, UNLESS OTHERWISE NOTED ON THE PLANS. ALL BITUMINOUS PAVEMENTS SHALL BE INSTALLED ON ACCORDANCE WITH SECTION 460 - CLASS I BITUMINOUS CONCRETE PAVEMENT, OF THE CURRENT MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, UNLESS OTHERWISE NOTED.
- THE FINAL FINISHED GRADES OF THE NEW BITUMINOUS PAVEMENTS SHALL BE INSTALLED TO THE LINE AND GRADE SHOWN ON THE PROJECT PLANS. THE FINAL FINISHED GRADES SHALL MATCH ADJACENT PAVEMENT SURFACES AND CONCRETE SLABS AND APRONS. 3. ALL SUBGRADE EXCAVATION AND BACKFILLING PROCEDURES SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF THE HOT MIX
- ASPHALT COURSES. ABSOLUTELY NOT CUTTING AND PATCHING OF THE NEW ASPHALT SURFACE SHALL OCCUR AFTER PLACEMENT THE CONTRACTOR SHALL SEQUENCE THE INSTALLATION AND ORIENTATION OF ALL HOT MIX ASPHALT PAVEMENT SUCH THAT THE MINIMUM NUMBER OF LONGITUDINAL AND TRANSVERSE JOINTS ARE PRODUCED. THE CONTRACTOR SHALL SUBMIT A PAVING PLAN, INDICATING INTENDED DIRECTION OF PAVING, NUMBER OF PULLS, ETC. TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO
- THE NEW BITUMINOUS ASPHALT SHALL CONSIST OF A COMBINATION OF A HOT MIX ASPHALT BINDER COURSE AND A HOT MIX ASPHALT TOP COURSE PAVEMENTS MEETING THE MINIMUM REQUIREMENTS OF ITEM M3.11.00 OF THE CURRENT MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- THE HOT MIX SHALL BE INSTALLED IN TWO LIFTS WITH THE THICKNESS INDICATED ON THE PROJECT PLANS FOR THE REPAIR METHOD SPECIFIED. THE HOT MIX ASPHALTS SHALL BE INSTALLED IN GENERAL ACCORDANCE WITH SECTION 460 OF THE CURRENT MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
- EACH COURSE OF THE HOT MIX ASPHALT SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 92 TO 97% OF THE MATERIALS THEORETICAL MAXIMUM DENSITY AS DETERMINED BY AASHTO METHOD T 209.
- 8. A BITUMINOUS TACK COAT CONSISTING OF AN ASPHALT EMULSION, GRADE RS-1, AND MEETING THE REQUIREMENTS OF ITEM M3.03.0 OF THE CURRENT MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SHALL BE INSTALLED OVER ALL NEW AND EXISTING CONCRETE AND ASPHALT PAVEMENTS PRIOR TO THE INSTALLATION OF NEW HOT MIX ASPHALT COURSES.

9. THE BITUMINOUS TACK COAT SHALL BE APPLIED UNIFORMLY AND MECHANICALLY AT A RATE OF 0.05 TO 0.1 GALLONS PER SQUARE

10. BITUMINOUS TACK COAT SHALL BE APPLIED ALONG ALL LONGITUDINAL AND TRANSVERSE VERTICAL EDGE OF ABUTTING PAVEMENT

COURSES. TACK COAT SHALL NOT BE REQUIRED ON ABUTTING VERTICAL EDGES FOR PAVEMENTS PLACED ON THE SAME DAY.

11. EXISTING SURFACES TO RECEIVE THE BITUMINOUS TACK COAT SHALL BE CLEANED OF ALL FOREIGN MATTER AND LOOSE MATERIAL

AND SHALL BE DRY BEFORE THE TACK COAT IS APPLIED. 12. THE CONTRACTOR SHALL NOT INSTALL HOT MIX ASPHALT MATERIALS OR BITUMINOUS TACK COAT MATERIALS IN THE RAIN, WITHOUT THE EXPRESS OF APPROVAL OF THE ENGINEER.

REVISIONS NUMBER DESCRIPTION

CONSTRUCTION DOCUMENTS

02023.10

OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER

LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

DRAWING TITLE SITE **DETAILS**



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

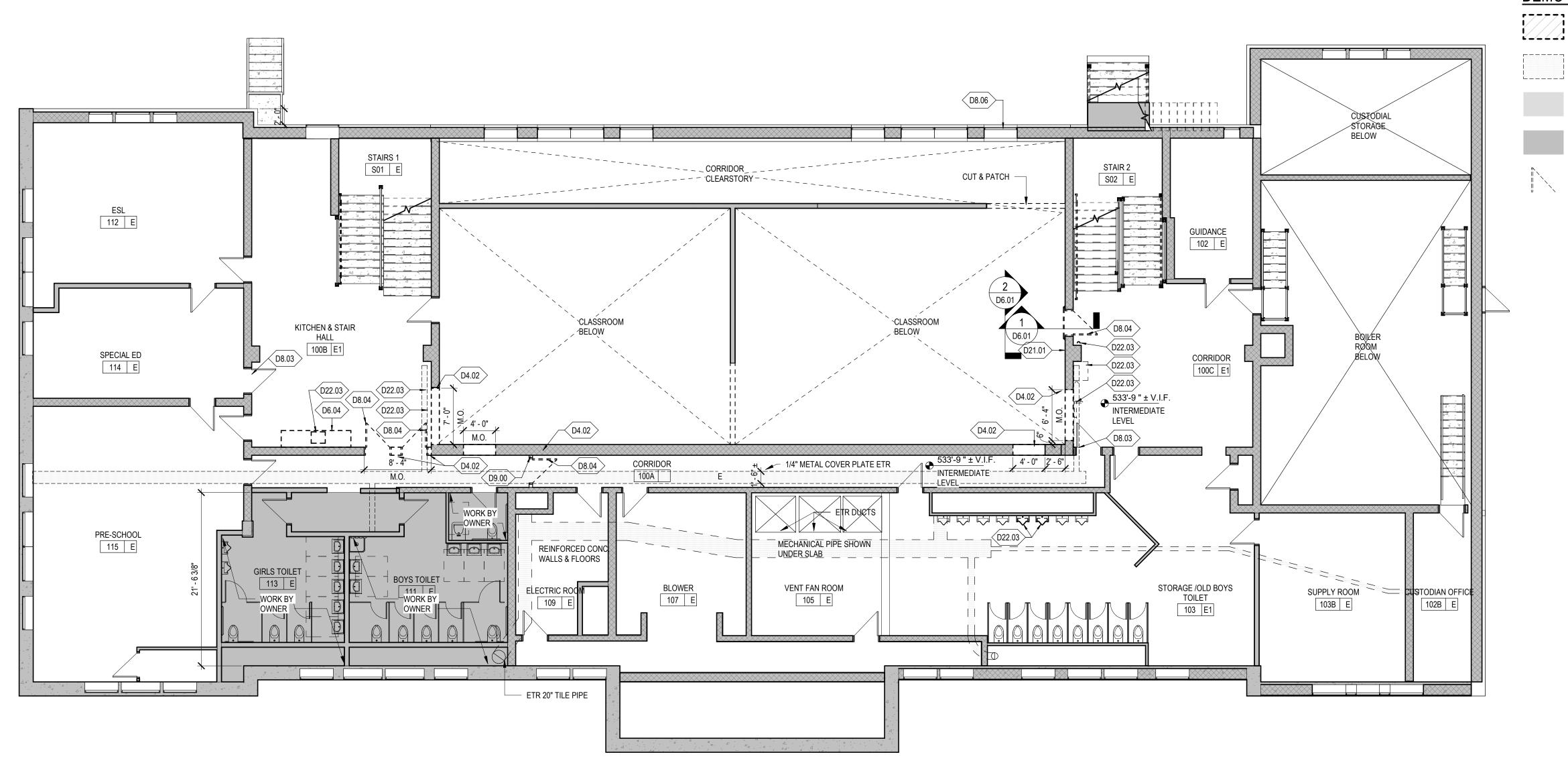
781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

STAMP

SCALE AS NOTED DRAWN BY AZA CHECKED JKE SEPTEMBER 18, 2024

DRAWING NUMBER

DRAWING INFORMATION



DEMOLITION INTERMEDIATE LEVEL FLOOR PLAN D1.01 SCALE: 1/8" = 1'-0"

INDICATES EXISTING FOUNDATION WALL i- - - - -¦ 1- - - - - i |- - - - - i |- = = = = = CUSTODIAN STORAGE 006 INDICATES EXISTING MASONRY WALL ABOVE - D8.04 > < D9.01 >10' - 7" 528'-3" ± V.I.F. ETR STUD WALL RAISED PLATFORM ------------- REMOVE CONCRETE SLAB, GYM FLOORING SYSTEM & CLASSROOM FLOORING SYSTEM AS REQUIRED CLASSROOM CLASSROOM FOR NEW CMU WALL AND 003 E1 002 E1 FOUNDATION SYSTEM. REFER TO WALL SECTION & STRUCTURAL DRAWINGS FOR MORE INFO. REMOVE, CAP & RELOCATE 4" CAST IRON PIPE **BOILER ROOM** 005 < D9.02 > ETR STRUCTURAL STEAL BEAMS ABOVE ETR 1/4" THICK STEEL PLATE TO THE TOTAL THE TO THRESHOLD — ETR 4'-4" X 6'-0" | OPENING ETR VENT 77' - 10'^l ± V.I.F. 49' - 2" ± V.I.F. UNEXCAVATED

CL

DEMOLITION LOWER LEVEL FLOOR PLAN D1.01 SCALE: 1/8" = 1'-0"

DEMO FLOOR PLAN LEGEND

REMOVE CONCRETE SLAB AND GYM FLOORING SYSTEM. SEE SECTIONS FOR MORE INFORMATION

REMOVE CLASSROOM FLOOR SYSTEM. SEE SECTIONS FOR MORE INFORMATION

UNEXCAVATED

EXISTING TO REMAIN

REMOVE DOOR, SEE DEMOLITION NOTES FOR MORE INFORMATION

GENERAL DEMOLITION NOTES

THESE PLANS DELINEATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIALS. THESE PLANS HAVE BEEN DEVELOPED FROM OWNER PROVIDED AS-BUILTS AND MAY VARY FROM ACTUAL FIELD CONDITIONS. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREA AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS THEREON.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO ANY DEMOLITION OR CONSTRUCTION. ANY DISCREPANCIES RELATING TO THE DRAWINGS SHALL BE REPORTED TO THE

THE CONTRACTOR SHALL BE AWARE OF SELECTIVE DEMOLITION AT ALL SECTIONS OF WORK, REVIEWING ALL NEW RENOVATION DETAILS TO DETERMINE WHAT IS TO BE REMOVED OR TO REMAIN AND WILL BE RESPONSIBLE FOR REPLACEMENT IN-KIND ALL WORK INADVERTENTLY REMOVED.

3. ALL REQUIRED DEMOLITION NOT SPECIFICALLY DESIGNATED AS BEING THE WORK OF OTHER TRADES SHALL BE PERFORMED BY THE GENERAL CONTRACTOR.

4. SUBCONTRACTORS TO RELEASE, REMOVE AND LOWER TO THE FLOOR ALL COMPONENTS, SYSTEMS AND ASSEMBLIES AS INDICATED, SPECIFIED, OR AS REQUIRED TO DO THEIR RESPECTIVE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLING / CUTTING OR OTHERWISE MODIFYING EQUIPMENT AS REQUIRED TO PASS THROUGH EXISTING OPENINGS. G.C. SHALL ALSO BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING OF ALL MATERIALS SO

5. THE CONTRACTOR SHALL REMOVE ITEMS TO BE DEMOLISHED AS INDICATED ON THE DRAWINGS WITH CARE BEING TAKEN NOT TO DAMAGE ADJACENT WALLS, CEILINGS, FLOORS, FINISHES, CASEWORK OR MILLWORK SCHEDULED TO REMAIN. THE WORK AREA WILL BE LEFT CLEAN AND READY TO RECEIVE NEW WORK.

6. PATCH AND REPAIR SCOPE OF ALL EXISTING TO REMAIN FOUNDATION WALLS AND SLABS, EXTERIOR AND INTERIOR WALLS, FLOORING, AND CEILING DAMAGED DURING DEMOLITION OR REMOVAL OF EXISTING CONSTRUCTION. THIS INCLUDES PATCH & REPAIR DUE TO WORK PERFORMED BY ALL SUB-CONSTRACTORS. REFER TO DEMO AND ARCHITECTURAL DRAWINGS FOR OTHER AREAS OF PATCHING, REPAIR AND INFILL.

PROVIDE SMOOTH CLEAN SURFACES PREPARED TO RECEIVE INFILL AND/OR FINISHES (AS SCHEDULED) AT ALL MISCELLANEOUS OPENINGS, DEPRESSIONS OR VOIDS LEFT AFTER DEMOLITION. CONTRACTOR TO PROVIDE INFILL AND PATCHING OF ALL SUCH AREAS TO MATCH EXISTING ADJACENT SURFACES.

8. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BARRICADES TO DIVIDE AREAS (CONSTRUCTION AND NORMAL USE) TO PROTECT USERS DURING CONSTRUCTION.

9. G.C. SHALL COORDINATE AND PERFORM ALL ASSOCIATED WORK WITH M / E/ P CONTRACTORS FOR ALL REQUIRED PENETRATIONS REQUIRING MISCELLANEOUS BLOCKING OR INFILL TO ACCOMMODATE M / E / P WORK.

10. CONTRACTOR TO PROVIDE TEMPORARY SUPPORT AND REMOVE PORTION OF EXISTING CMU WALL FOR

PATCHING TO MATCH EXISTING WITH CMU. SEE STRUCTURAL DRAWINGS FOR BOND BEAM LINTEL SCHEDULE. 11. CONTRACTOR TO REMOVE ALL WOOD FLOORING, ADHESIVE, AND RELATED MATERIALS AS INIDCATED ON PLANS IN THEIR ENTIRETY. PREPARE THE FLOOR SURFACE FOR EXCAVATION TO ACCOMMODATE THE INSTALLATION OF A NEW

ELEVATOR. SEE STRUCTURAL FOR MORE INFO. 12. CONTRACTOR TO REMOVE ALL TILE FLOORING, ADHESIVE, AND RELATED MATERIALS IN THEIR ENTIRETY.

PREPARE THE FLOOR SURFACE FOR EXCAVATION TO ACCOMMODATE THE INSTALLATION OF A NEW ELEVATOR. SEE STRUCTURAL FOR MORE INFO. 13. SAW CUT AND REMOVE CONCRETE SLAB AND FOOTINGS WHERE APPLICABLE FOR NEW STRUCTURAL,

MECHANICAL, PLUMBING, AND/OR, AS REQUIRED, ELECRICAL WORK. EXCAVATE AS REQUIRED FOR NEW WORK. COORDINATE WITH RESPECTIVE STRUCTURAL, MECHANICAL, PLUMBING & ELETRICAL.

14. REMOVE & REPLACE ALL WOODEN THRESHOLDS TO CLASSROOMS AND OFFICES AT ALL FLOOR LEVELS U.N.O. TYP. SEE D1/A10.01 FOR TYPCIAL DEMOLITION DETAIL.

15. REMOVE ACM AS DELINEATED IN REPORT.

DEMO KEY NOTES

SECTION 3 - CONCRETE

D3.01 SAW CUT & REMOVE CONCRETE SLAB AND FOOTINGS AS REQUIRED FOR EXCAVATION.

D3.02 PROVIDE UNDERPINNING AT DEMOLITION WORK AS INICATED REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

SECTION 4 - MASONRY D4.01 CUT & PATCH WALLS AT THE AREAS OF NEW WORK.

D4.02 SELECTIVELY REMOVE PORTION OF CMU WALL AS REQUIRED. TOOTH IN BRICK OR CMU MASONRY AT NEW DOORS & FRAMES, OR OTHER OPENING(S). SEE STRUCTURAL DRAWINGS FOR BOND BEAM LINTEL SCHEDULE.

D4.03 CUT & CORE HOLE AS REQUIRED FOR NEW PIPING.

SECTION 6 - WOOD, PLASTIC, & COMPOSITE
D6.00 REMOVE WOODEN THRESHOLD IN ITS' ENTIRETY

D6.01 NOT IN USE.

D6.02 NOT IN USE.

D6.03 REMOVE WOOD STEP AT RAISED PLATFORM IN ITS ENTIRETY.

D6.04 TEMPORARILY REMOVE CASEWORK AND/OR COUNTERTOPS AND ALL RELATED ATTACHMENTS.

D6.05 PARTIALLY REMOVE WOOD FLOORING, SUBSTRATE & FRAMING AS REQUIRED. SEE DEMOLITION PLANS, SECTIONS, & STRUCTURAL DRAWINGS FOR MORE INFOMATION

D6.06 REMOVE ANY ATTACHMENTS AS REQUIRED FOR NEW WORK, SCRAPE CLEAN AND PREP AREA FOR PAINT TYPICAL. SEE INTERIOR DRAWINGS AND SECTIONS FOR MORE INFO

SECTION 8 - DOORS, WINDOWS, & OPENINGS D8.01 REMOVE DOOR AND ASSCOCIATED HARDWARE IN ITS' ENTIRETY. EXISTING FRAME TO REMAIN, TYP. U.O.N.

D8.02 REMOVE HARDWARE AS REQUIRED. SEE HARDWARE SCHEDULE IN SPECS

D8.03 REMOVE DOOR CLOSER IN ITS' ENTIRETY.

D8.04 REMOVE DOOR AND FRAME IN ITS' ENTIRETY

D8.05 NOT IN USE.

D8.06 REMOVE WINDOW AS REQUIRED FOR NEW WORK. SEE A10.01 FOR MORE INFO.

SECTION 9 - FINISHES

D9.00 SELECTIVELY REMOVE RAISED FLOORING SYSTEM & SUPPORT STRUCTURE IN ITS' ENTIRETY.

D9.01 REMOVE GYMNASIUM FLOORING AS REQUIRED. SEE DEMO SECTIONS FOR MORE INFO.

D9.02 SELECTIVELY REMOVE WALL PARTITION & ATTACHMENTS AS REQUIRED.

D9.03 REMOVE GWB AND/OR CEMENT BOARD & ANY ATTACHEMENTS AS REQUIRED FOR NEW RAISED PLATFORM SYSTEM. SEE SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFO.

D9.04 REMOVE GWB SOFFIT, BATT INSULATION & ATTACHMENTS AS REQUIRED.

D9.05 REMOVE ACT CEILING AND GRID SYSTEM IN THEIR ENTIRETY

D9.06 REMOVE PLASTER CEILING AND SUSPENSION SYSTEM AND ALL RELATED ATTACHMENTS. D9.07 REMOVE PLASTER AT STRUCTURAL BEAM. SEE DEMO SECTION FOR MORE INFO.

D9.08 CUT HOLE AS REQUIRED FOR NEW PIPING.

SECTION 21 - FIRE PROTECTION
D21.01 REMOVE VISUAL ALARM IN ITS' ENTIRETY SECTION 22 - PLUMBING (COORD. W/ PLUMBING DWGS.)

D22.01 NOT IN USE. D22.02 NOT IN USE.

D22.03 REMOVE & RELOCATE PLUMBING FIXTURE AND/OR PIPING AS REQUIRED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION

D23.01 REMOVE MECHANICAL FIXTURE AS INIDCATED.

D23.02 REMOVE & RELOCATE AIR HANDLING UNIT AS REQUIRED. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

SECTION 26 - ELECTRICAL (COORD. W/ ELECTRICAL DWGS.) D26 .01 REMOVE, SALVAGE AND REINSTALL LIGHTING FIXTURES AS INDICATED.

SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION D26.02 REMOVE RECESSED LIGHT FIXTURE IN ITS ENTIRITY

SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION D26.03 REMOVE & RELOCATE ELECTRICAL CONDUIT & ASSOCIATED OUTLETS IF REQUIRED.

SEE ELCTRICAL DRAWINGS FOR MORE INFORMATION

REVISIONS NUMBER DESCRIPTION ____ INSTALLATION OF NEW DOOR AND FRAME, OR OTHER OPENING(S). MASON SHALL PERFORM SAW-TOOTH REMOVAL AND

PROJECT NUMBER 02023.10

OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER

LINCOLN ES ADA **UPGRADES PROJECT**

549 Lincoln St, Worcester, MA 01605

DRAWING TITLE **DEMOLITION LOWER** LEVEL & INTERMEDIATE LEVEL FLOOR PLANS

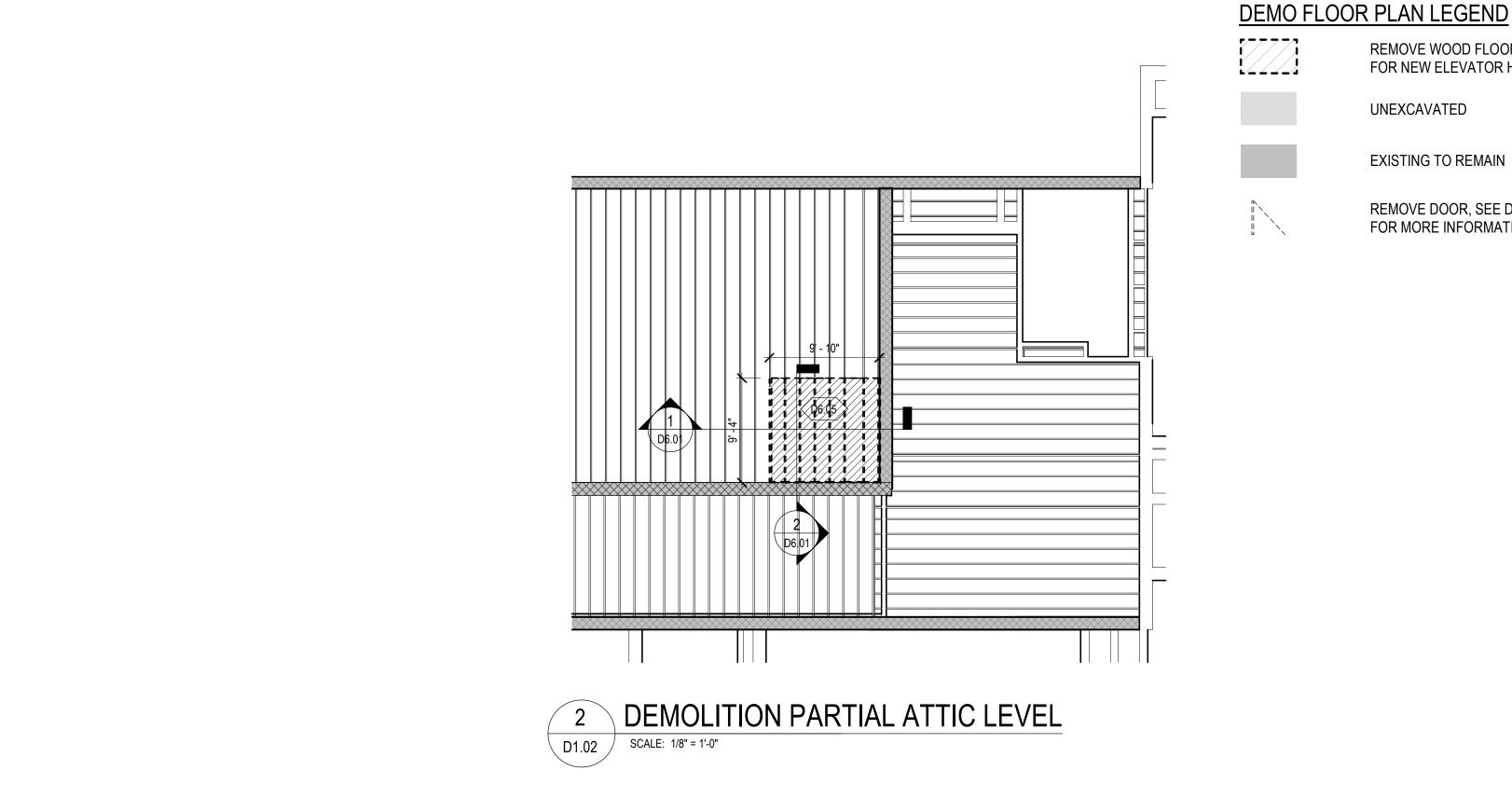


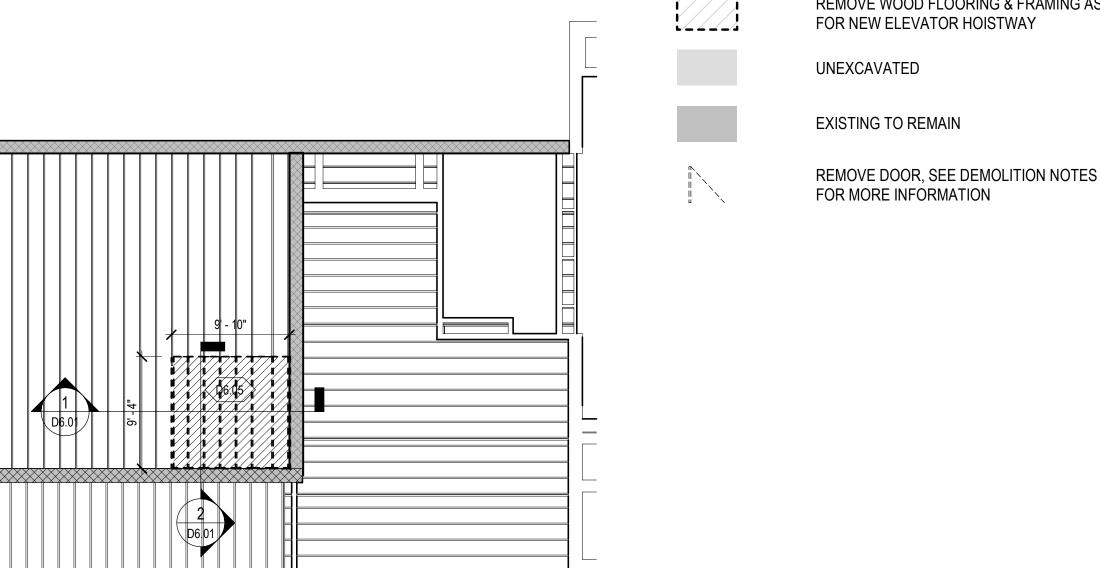
178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

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DRAWING INFORMATION SCALE As indicated DRAWN BY CHECKED SEPTEMBER 18, 2024





REMOVE WOOD FLOORING & FRAMING AS REQUIRED

BEEN DEVELOPED FROM OWNER PROVIDED AS-BUILTS AND MAY VARY FROM ACTUAL FIELD CONDITIONS. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED WITH THE INTENT TO GENERALLY DESCRIBE AREA AND LIMITS OF WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS THEREON.

GENERAL DEMOLITION NOTES

(E) = EXISTING

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO ANY DEMOLITION OR CONSTRUCTION. ANY DISCREPANCIES RELATING TO THE DRAWINGS SHALL BE REPORTED TO THE

THESE PLANS DELINEATE THE BASIC SCOPE OF WORK FOR THE REMOVAL OF EXISTING MATERIALS. THESE PLANS HAVE

THE CONTRACTOR SHALL BE AWARE OF SELECTIVE DEMOLITION AT ALL SECTIONS OF WORK, REVIEWING ALL NEW RENOVATION DETAILS TO DETERMINE WHAT IS TO BE REMOVED OR TO REMAIN AND WILL BE RESPONSIBLE FOR REPLACEMENT IN-KIND ALL WORK INADVERTENTLY REMOVED.

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6. PATCH AND REPAIR SCOPE OF ALL EXISTING TO REMAIN FOUNDATION WALLS AND SLABS, EXTERIOR AND INTERIOR WALLS, FLOORING, AND CEILING DAMAGED DURING DEMOLITION OR REMOVAL OF EXISTING CONSTRUCTION. THIS INCLUDES PATCH & REPAIR DUE TO WORK PERFORMED BY ALL SUB-CONSTRACTORS. REFER TO DEMO AND ARCHITECTURAL DRAWINGS FOR OTHER AREAS OF PATCHING, REPAIR AND INFILL.

7. PROVIDE SMOOTH CLEAN SURFACES PREPARED TO RECEIVE INFILL AND/OR FINISHES (AS SCHEDULED) AT ALL MISCELLANEOUS OPENINGS, DEPRESSIONS OR VOIDS LEFT AFTER DEMOLITION. CONTRACTOR TO PROVIDE INFILL AND

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9. G.C. SHALL COORDINATE AND PERFORM ALL ASSOCIATED WORK WITH M / E/ P CONTRACTORS FOR ALL REQUIRED PENETRATIONS REQUIRING MISCELLANEOUS BLOCKING OR INFILL TO ACCOMMODATE M / E / P WORK.

10. CONTRACTOR TO PROVIDE TEMPORARY SUPPORT AND REMOVE PORTION OF EXISTING CMU WALL FOR INSTALLATION OF NEW DOOR AND FRAME, OR OTHER OPENING(S). MASON SHALL PERFORM SAW-TOOTH REMOVAL AND PATCHING TO MATCH EXISTING WITH CMU. SEE STRUCTURAL DRAWINGS FOR BOND BEAM LINTEL SCHEDULE.

11. CONTRACTOR TO REMOVE ALL WOOD FLOORING, ADHESIVE, AND RELATED MATERIALS AS INIDCATED ON PLANS IN THEIR ENTIRETY. PREPARE THE FLOOR SURFACE FOR EXCAVATION TO ACCOMMODATE THE INSTALLATION OF A NEW ELEVATOR. SEE STRUCTURAL FOR MORE INFO.

12. CONTRACTOR TO REMOVE ALL TILE FLOORING, ADHESIVE, AND RELATED MATERIALS IN THEIR ENTIRETY. PREPARE THE FLOOR SURFACE FOR EXCAVATION TO ACCOMMODATE THE INSTALLATION OF A NEW ELEVATOR. SEE

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MECHANICAL, PLUMBING, AND/OR, AS REQUIRED, ELECRICAL WORK. EXCAVATE AS REQUIRED FOR NEW WORK. COORDINATE WITH RESPECTIVE STRUCTURAL, MECHANICAL, PLUMBING & ELETRICAL. 14. REMOVE & REPLACE ALL WOODEN THRESHOLDS TO CLASSROOMS AND OFFICES AT ALL FLOOR LEVELS U.N.O.

TYP. SEE D1/A10.01 FOR TYPCIAL DEMOLITION DETAIL. 15. REMOVE ACM AS DELINEATED IN REPORT.

DEMO KEY NOTES

SECTION 3 - CONCRETE

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D4.01 CUT & PATCH WALLS AT THE AREAS OF NEW WORK.

D4.02 SELECTIVELY REMOVE PORTION OF CMU WALL AS REQUIRED. TOOTH IN BRICK OR CMU MASONRY AT NEW DOORS & FRAMES, OR OTHER OPENING(S). SEE STRUCTURAL DRAWINGS FOR BOND BEAM LINTEL SCHEDULE.

D4.03 CUT & CORE HOLE AS REQUIRED FOR NEW PIPING.

SECTION 6 - WOOD, PLASTIC, & COMPOSITE
D6.00 REMOVE WOODEN THRESHOLD IN ITS' ENTIRETY.

D6.01 NOT IN USE.

D6.02 NOT IN USE.

D6.03 REMOVE WOOD STEP AT RAISED PLATFORM IN ITS ENTIRETY.

D6.04 TEMPORARILY REMOVE CASEWORK AND/OR COUNTERTOPS AND ALL RELATED ATTACHMENTS. D6.05 PARTIALLY REMOVE WOOD FLOORING, SUBSTRATE & FRAMING AS REQUIRED.

SEE DEMOLITION PLANS, SECTIONS, & STRUCTURAL DRAWINGS FOR MORE INFOMATION D6.06 REMOVE ANY ATTACHMENTS AS REQUIRED FOR NEW WORK, SCRAPE CLEAN AND PREP AREA FOR

PAINT TYPICAL. SEE INTERIOR DRAWINGS AND SECTIONS FOR MORE INFO

SECTION 8 - DOORS, WINDOWS, & OPENINGS D8.01 REMOVE DOOR AND ASSCOCIATED HARDWARE IN ITS' ENTIRETY. EXISTING FRAME TO REMAIN, TYP. U.O.N.

D8.02 REMOVE HARDWARE AS REQUIRED.

SEE HARDWARE SCHEDULE IN SPECS. D8.03 REMOVE DOOR CLOSER IN ITS' ENTIRETY.

D8.04 REMOVE DOOR AND FRAME IN ITS' ENTIRETY.

D8.05 NOT IN USE.

D8.06 REMOVE WINDOW AS REQUIRED FOR NEW WORK. SEE A10.01 FOR MORE INFO.

SECTION 9 - FINISHES
D9.00 SELECTIVELY REMOVE RAISED FLOORING SYSTEM & SUPPORT STRUCTURE IN ITS' ENTIRETY. D9.01 REMOVE GYMNASIUM FLOORING AS REQUIRED. SEE DEMO SECTIONS FOR MORE INFO.

D9.02 SELECTIVELY REMOVE WALL PARTITION & ATTACHMENTS AS REQUIRED. D9.03 REMOVE GWB AND/OR CEMENT BOARD & ANY ATTACHEMENTS AS REQUIRED FOR

NEW RAISED PLATFORM SYSTEM. SEE SECTIONS AND STRUCTURAL DRAWINGS FOR MORE INFO.

D9.04 REMOVE GWB SOFFIT, BATT INSULATION & ATTACHMENTS AS REQUIRED.

D9.05 REMOVE ACT CEILING AND GRID SYSTEM IN THEIR ENTIRETY.

D9.06 REMOVE PLASTER CEILING AND SUSPENSION SYSTEM AND ALL RELATED ATTACHMENTS. D9.07 REMOVE PLASTER AT STRUCTURAL BEAM. SEE DEMO SECTION FOR MORE INFO.

D9.08 CUT HOLE AS REQUIRED FOR NEW PIPING.

SECTION 21 - FIRE PROTECTION
D21.01 REMOVE VISUAL ALARM IN ITS' ENTIRETY.

SECTION 22 - PLUMBING (COORD. W/ PLUMBING DWGS.) D22.01 NOT IN USE.

D22.02 NOT IN USE.

D22.03 REMOVE & RELOCATE PLUMBING FIXTURE AND/OR PIPING AS REQUIRED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION

D23.01 REMOVE MECHANICAL FIXTURE AS INIDCATED.

D23.02 REMOVE & RELOCATE AIR HANDLING UNIT AS REQUIRED. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

SECTION 26 - ELECTRICAL (COORD. W/ ELECTRICAL DWGS.) D26 .01 REMOVE, SALVAGE AND REINSTALL LIGHTING FIXTURES AS INDICATED.

SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION D26.02 REMOVE RECESSED LIGHT FIXTURE IN ITS ENTIRITY SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

D26.03 REMOVE & RELOCATE ELECTRICAL CONDUIT & ASSOCIATED OUTLETS IF REQUIRED. SEE ELCTRICAL DRAWINGS FOR MORE INFORMATION

NUMBER DESCRIPTION ____ ____ ____ ____

REVISIONS

PROJECT NUMBER 02023.10

OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER

LINCOLN ES ADA **UPGRADES PROJECT**

549 Lincoln St, Worcester, MA 01605

DRAWING TITLE **DEMOLITION FIRST** LEVEL & PARTIAL ATTIC LEVEL FLOOR PLANS



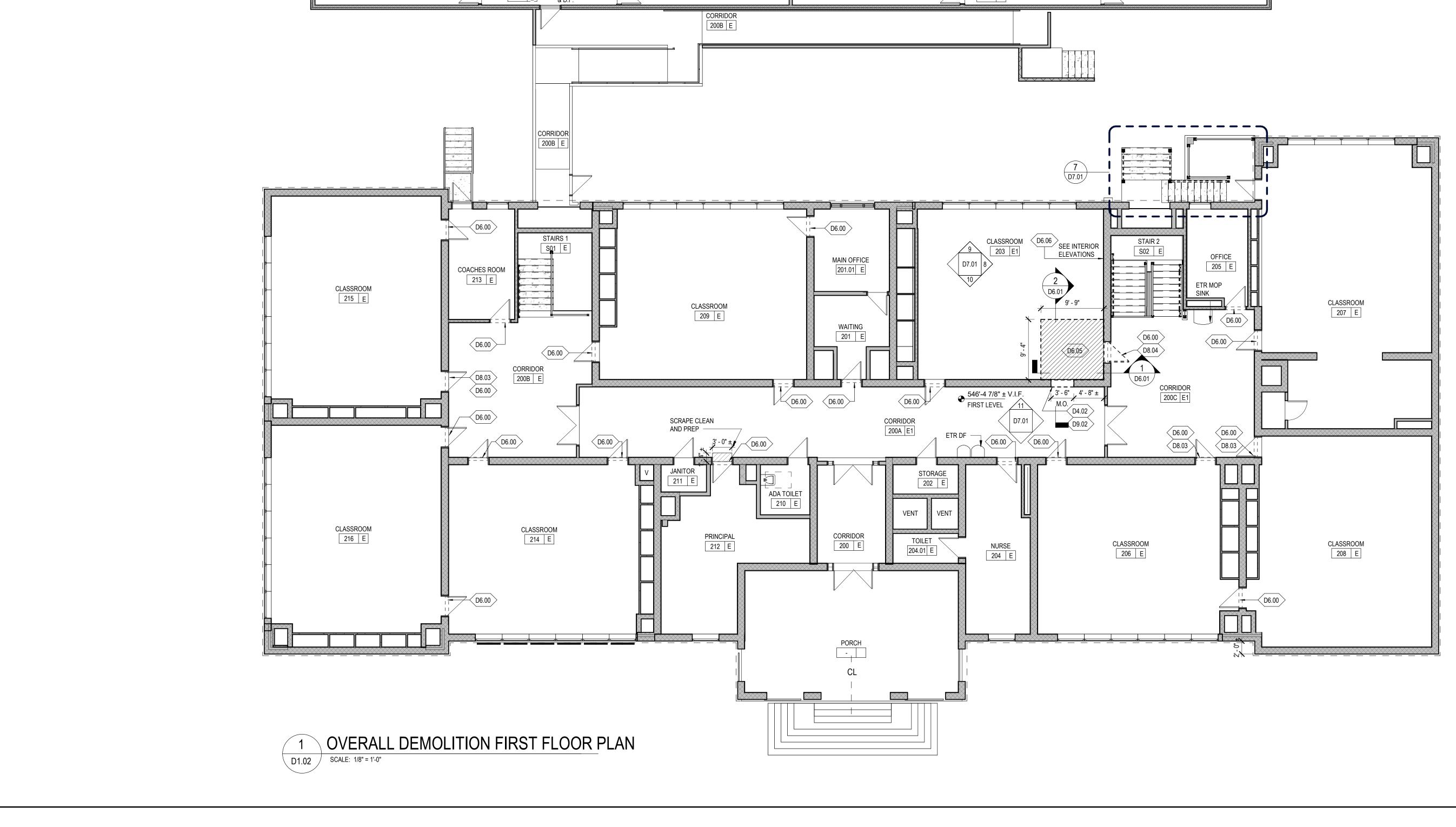
178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

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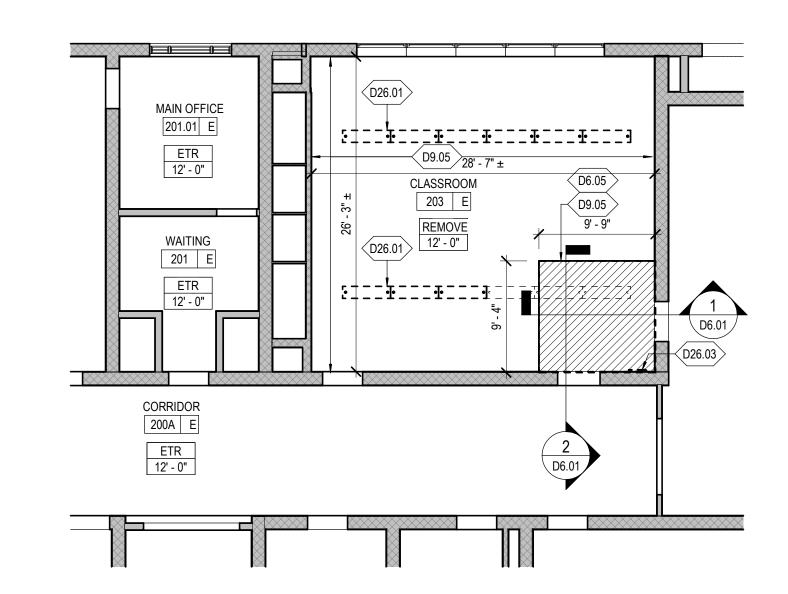
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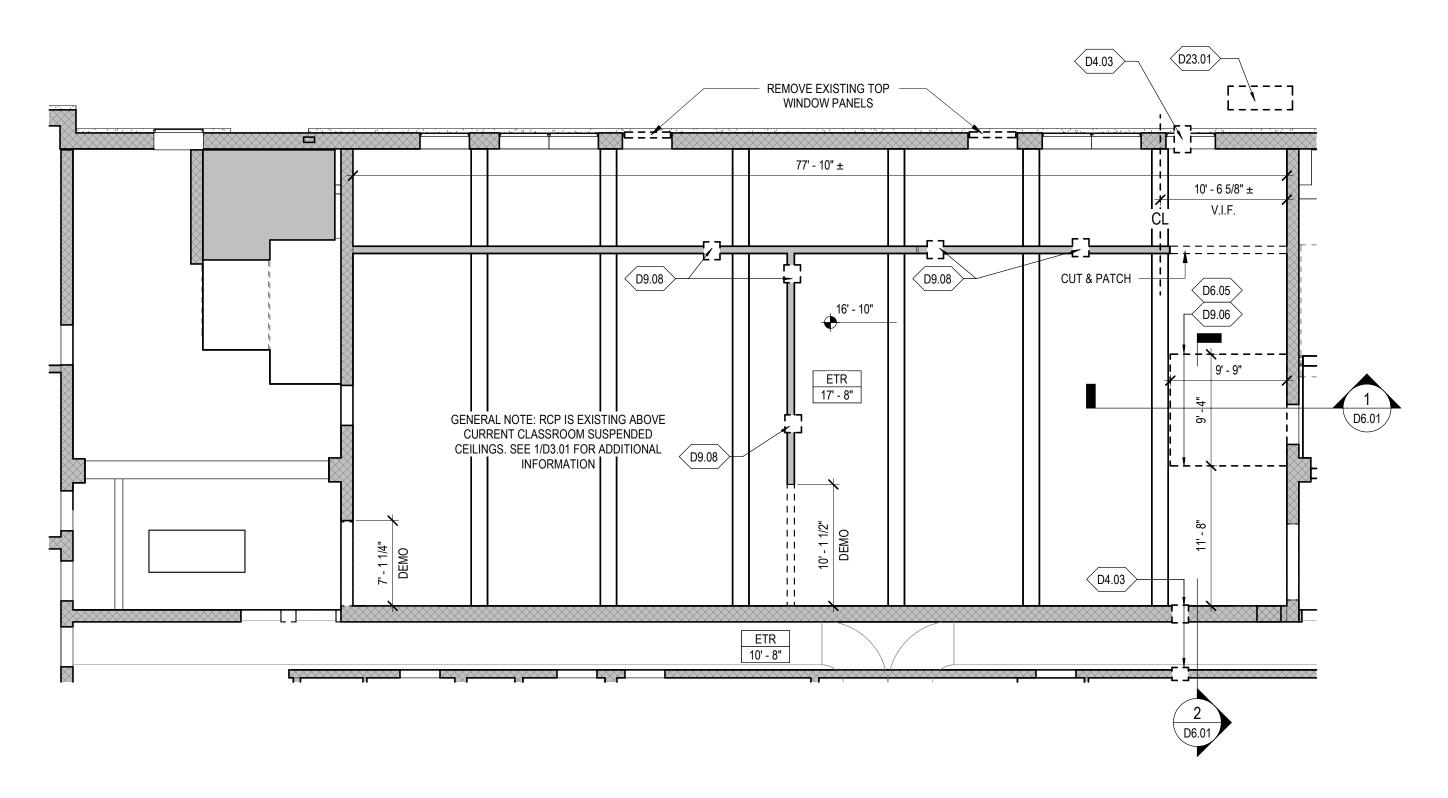
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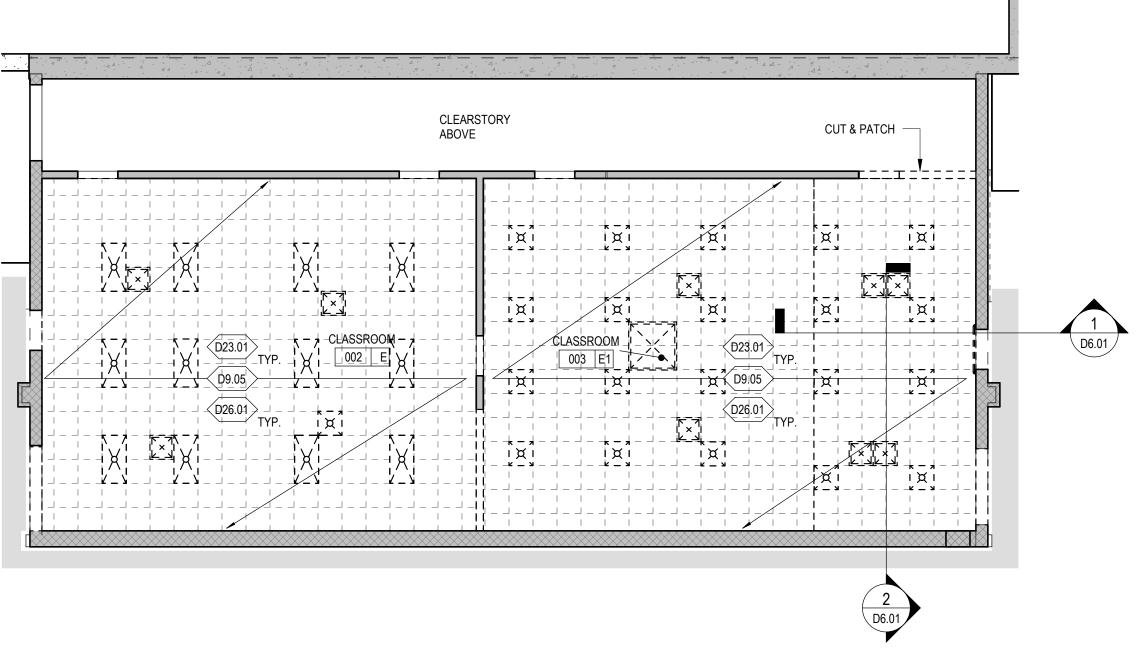
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DEMOLITION FIRST LEVEL RCP D3.01 SCALE: 1/8" = 1'-0"



2 DEMOLITION INTERMEDIATE LEVEL RCP D3.01 | SCALE: 1/8" = 1'-0"



DEMO CEILING SYMBOL LEGEND

REMOVE HVAC ITEMS - FOR COORDINATION ONLY, SEE HVAC DRAWINGS AND SPECIFICATIONS FOR TYPES AND QUANTITIES

REMOVE ELECTRICAL ITEMS - FOR COORDINATION ONLY, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR TYPES AND QUANTITIES

DEMO KEY NOTES

SECTION 3 - CONCRETE
D3.01 SAW CUT & REMOVE CONCRETE SLAB AND FOOTINGS AS REQUIRED FOR EXCAVATION.

D3.02 PROVIDE UNDERPINNING AT DEMOLITION WORK AS INICATED. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

SECTION 4 - MASONRY
D4.01 CUT & PATCH WALLS AT THE AREAS OF NEW WORK.

D4.02 SELECTIVELY REMOVE PORTION OF CMU WALL AS REQUIRED. TOOTH IN BRICK OR CMU MASONRY AT NEW DOORS & FRAMES, OR OTHER OPENING(S). SEE STRUCTURAL DRAWINGS FOR BOND BEAM LINTEL SCHEDULE.

D4.03 CUT & CORE HOLE AS REQUIRED FOR NEW PIPING.

SECTION 6 - WOOD, PLASTIC, & COMPOSITE D6.00 REMOVE WOODEN THRESHOLD IN ITS' ENTIRETY.

D6.01 NOT IN USE.

D6.02 NOT IN USE.

D6.03 NOT IN USE.

D6.04 TEMPORARILY REMOVE CASEWORK AND/OR COUNTERTOPS AND ALL RELATED ATTACHMENTS.

D6.05 PARTIALLY REMOVE WOOD FLOORING, SUBSTRATE & FRAMING AS REQUIRED. SEE DEMOLITION PLANS & SECTIONS FOR MORE INFOMATION

D6.06 NOT IN USE.

SECTION 8 - DOORS, WINDOWS, & OPENINGS D8.01 REMOVE DOOR AND ASSCOCIATED HARDWARE IN ITS' ENTIRETY. EXISTING FRAME TO REMAIN, TYP. U.O.N.

D8.02 REMOVE HARDWARE AS REQUIRED.

SEE HARDWARE SCHEDULE IN SPECS. D8.03 REMOVE DOOR CLOSER IN ITS' ENTIRETY.

D8.04 REMOVE DOOR AND FRAME IN ITS' ENTIRETY.

D8.05 NOT IN USE.

D8.06 REMOVE WINDOW AS REQUIRED FOR NEW WORK. SEE A10.01 FOR MORE INFO.

SECTION 9 - FINISHES
D9.00 SELECTIVELY REMOVE RAISED FLOORING SYSTEM & SUPPORT STRUCTURE IN ITS' ENTIRETY.

D9.01 REMOVE GYMNASIUM FLOORING AS REQUIRED. SEE DEMO SECTIONS FOR MORE INFO.

D9.02 SELECTIVELY REMOVE WALL PARTITION & ATTACHMENTS AS REQUIRED.

D9.04 REMOVE GWB SOFFIT, BATT INSULATION & ATTACHMENTS AS REQUIRED. D9.05 REMOVE ACT CEILING AND GRID SYSTEM IN THEIR ENTIRETY.

D9.06 REMOVE PLASTER CEILING AND SUSPENSION SYSTEM AND ALL RELATED ATTACHMENTS.

D9.07 REMOVE PLASTER AT STRUCTURAL BEAM. SEE DEMO SECTION FOR MORE INFO.

D9.08 CUT HOLE AS REQUIRED FOR NEW PIPING.

SECTION 21 - FIRE PROTECTION
D21.01 REMOVE VISUAL ALARM IN ITS' ENTIRETY.

SECTION 22 - PLUMBING (COORD. W/ PLUMBING DWGS.)
D22.01 NOT IN USE.

D22.02 NOT IN USE.

D22.03 REMOVE & RELOCATE PLUMBING FIXTURE AND/OR PIPING AS REQUIRED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION

SECTION 23 - MECHANICAL (COORD. W/ MECHANICAL DWGS.)
D23.01 REMOVE MECHANICAL FIXTURE AS INIDCATED.

SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. D23.02 REMOVE & RELOCATE AIR HANDLING UNIT AS REQUIRED.

SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. SECTION 26 - ELECTRICAL (COORD. W/ ELECTRICAL DWGS.)
D26 .01 REMOVE, SALVAGE AND REINSTALL LIGHTING FIXTURES AS INDICATED.

SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

D26.02 REMOVE RECESSED LIGHT FIXTURE IN ITS ENTIRITY SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

D26.03 REMOVE & RELOCATE ELECTRICAL CONDUIT & ASSOCIATED OUTLETS IF REQUIRED. SEE ELCTRICAL DRAWINGS FOR MORE INFORMATION

NUMBER DESCRIPTION ____ ____ ____ .____ ____ ____

REVISIONS

BID SET

PROJECT PHASE

PROJECT NUMBER 02023.10

OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER

LINCOLN ES ADA **UPGRADES PROJECT**

549 Lincoln St, Worcester, MA 01605

DRAWING TITLE **DEMOLITION PARTIAL** LOWER LEVEL, INTERMEDIATE LEVEL &

FIRST LEVEL RCP



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

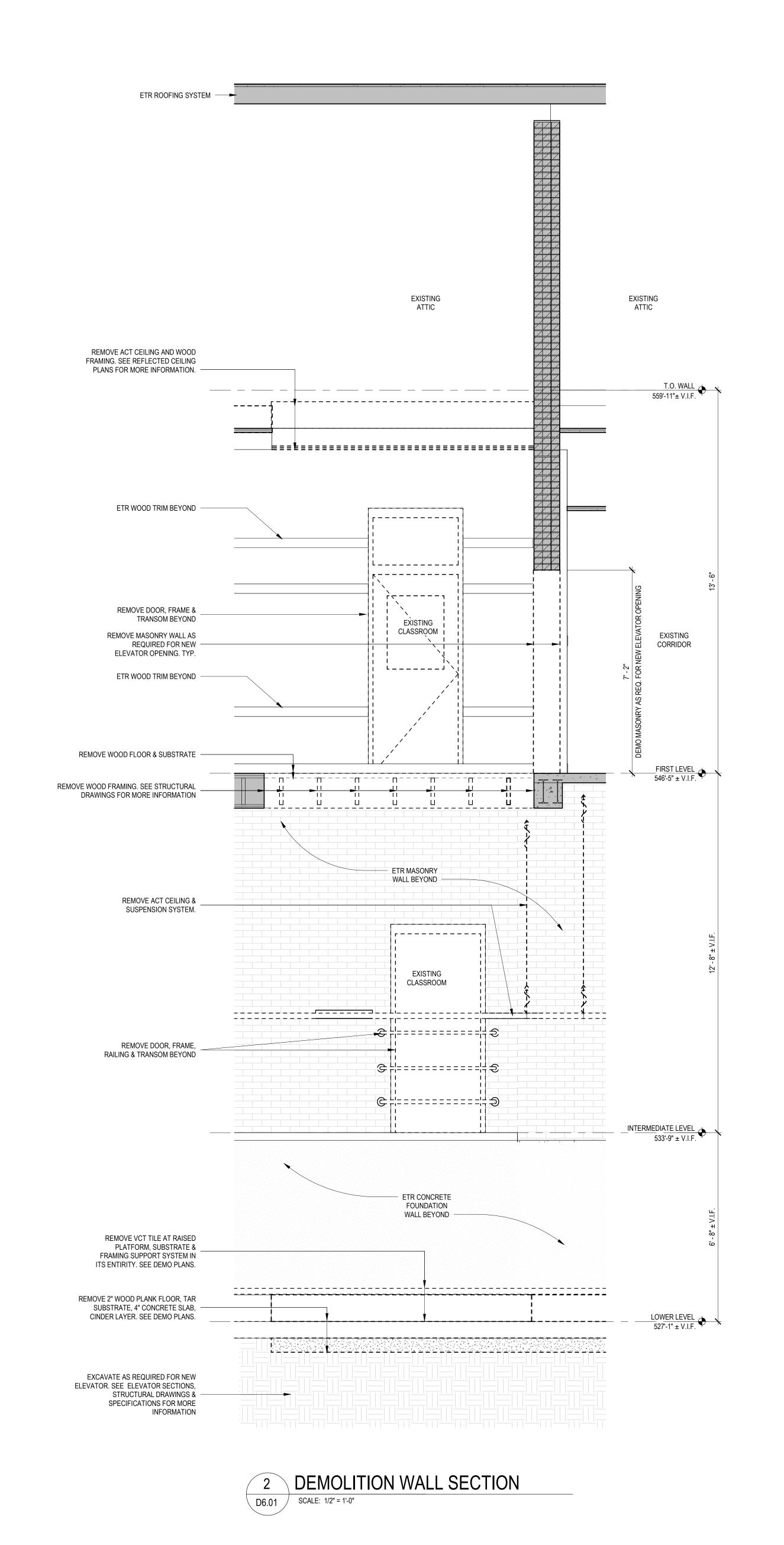
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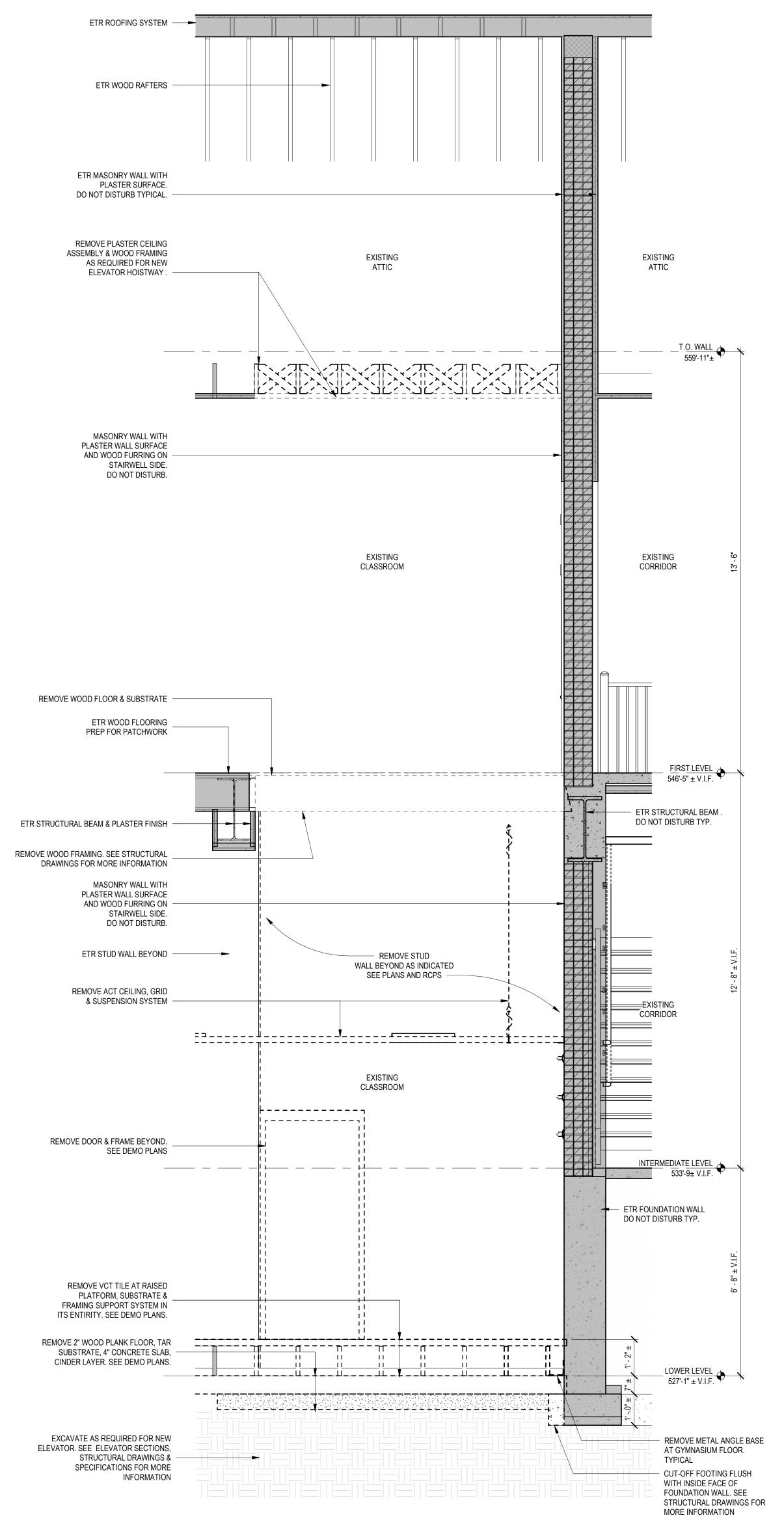
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DRAWING INFORMATION

DRAWING NUMBER

DEMOLITION LOWER LEVEL RCP D3.01 | SCALE: 1/8" = 1'-0"





1 DEMOLITION WALL SECTION

D6.01 SCALE: 1/2" = 1'-0"

REVISIONS NUMBER DESCRIPTION ____ ____ ____ PROJECT NUMBER 02023.10 OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER LINCOLN ES ADA **UPGRADES PROJECT** 549 Lincoln St, Worcester, MA 01605 DRAWING TITLE **DEMOLITION WALL** SECTIONS



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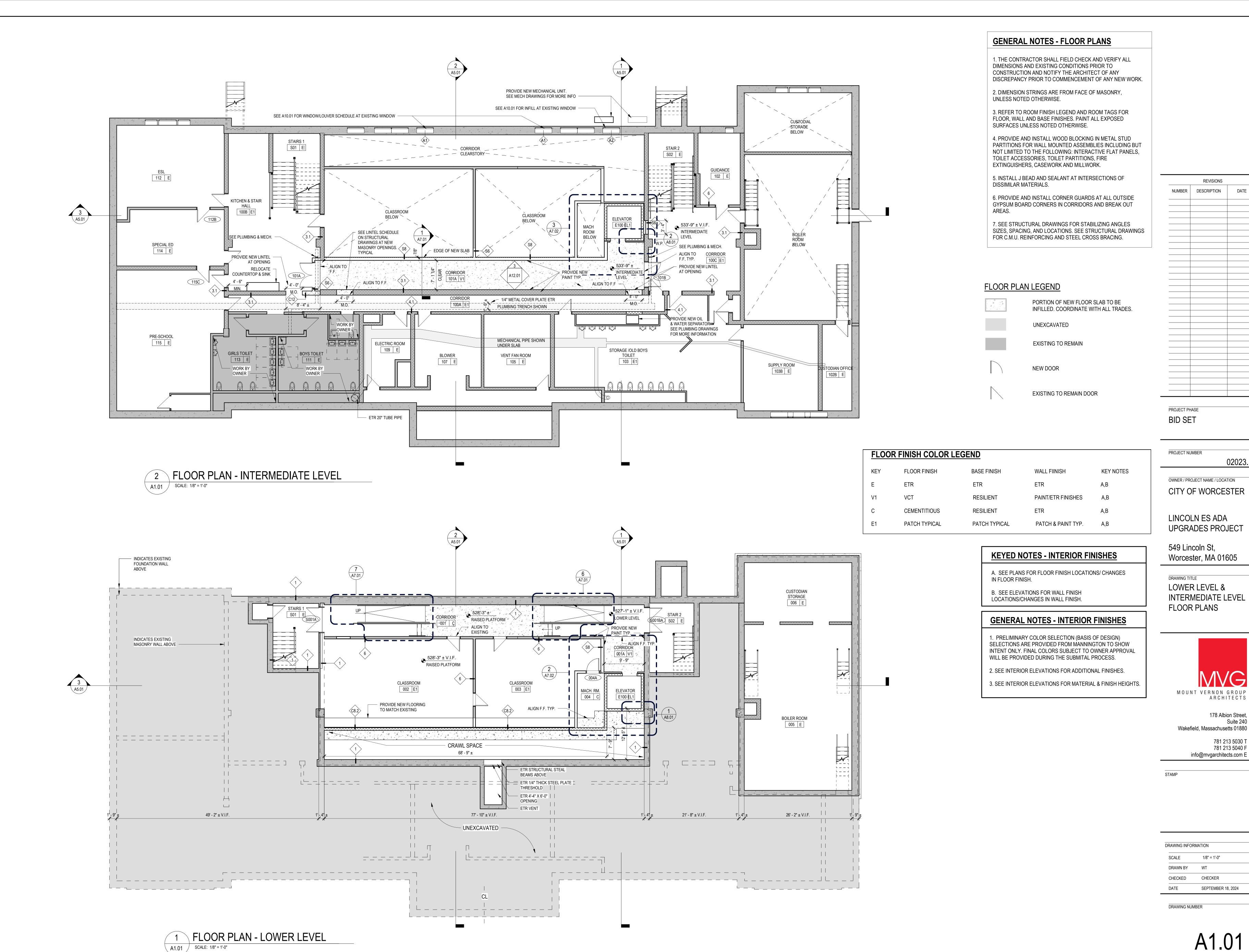
DRAWING INFORMATION

SCALE 1/2" = 1'-0"

DRAWN BY WT

CHECKED CHECKER

DATE SEPTEMBER 18, 2024



SEPTEMBER 18, 2024

ARCHITECTS

178 Albion Street,

781 213 5030 T

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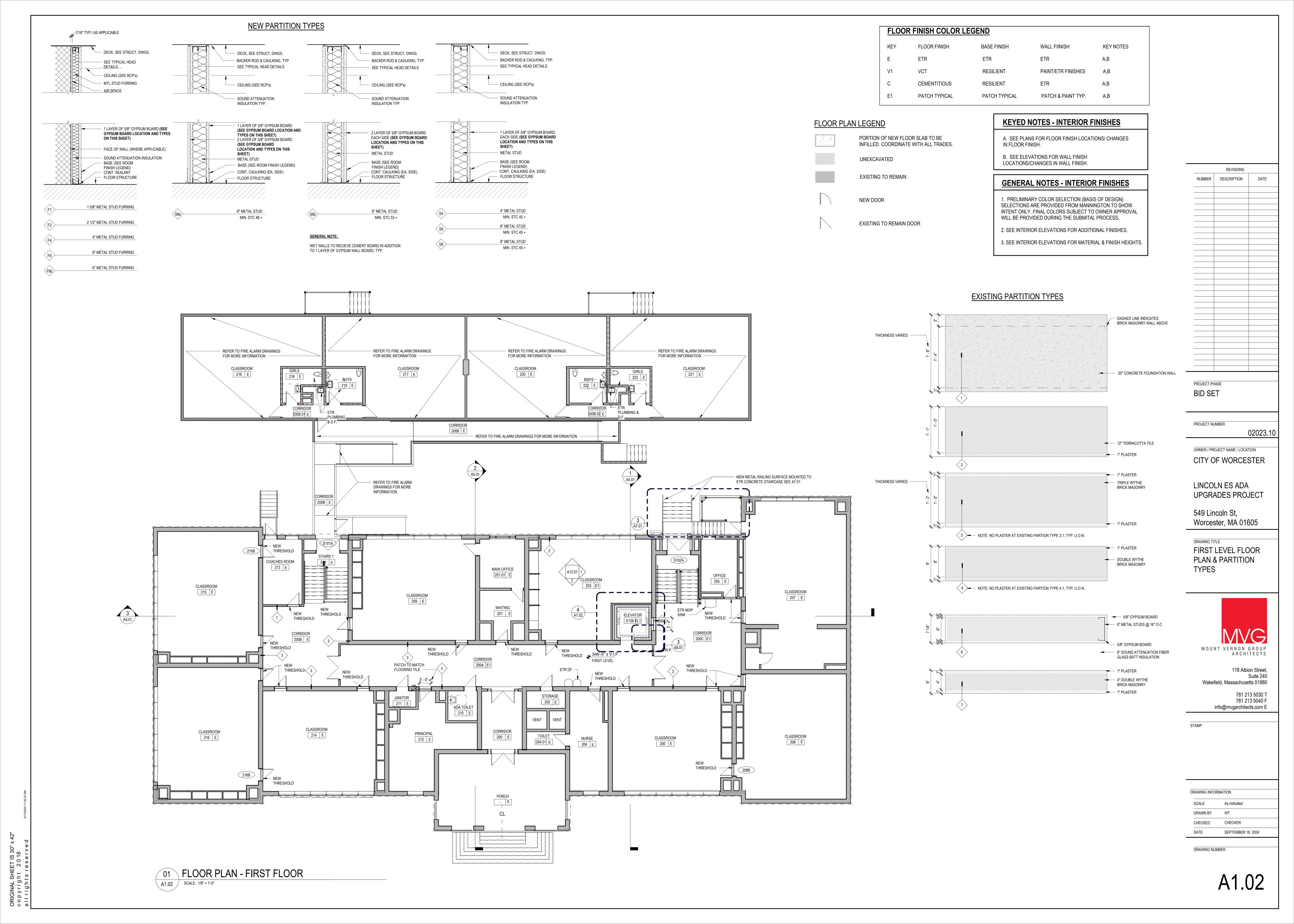
info@mvgarchitects.com E

Suite 240

REVISIONS

02023.10

DESCRIPTION



CEILING TYPES:

TYPE 1- ACOUSTICAL CEILNG SYSTEM

1.1a 24" x 24" TILES, WHITE. 1.1b 24" x 48" TILES, WHITE.

TYPE 2 - GWB

2.1 GWB AND METAL STUD SUPPORT, PAINTED TYPICAL

TYPE 3 - ETR PLASTER

3.1 PLASTER, UNPAINTED.3.2 PLASTER SURFACES EXPOSED TO VIEW TO BE

PAINTED ONE COLOR.

3.3 PLASTER, SURFACES EXPOSED TO VIEW TO BE PAINTED WITH ACCENT COLORS. CHANGE IN COLOR REQUIRED AT STRUCTURE, & MECH. DUCTWORK.

GENERAL NOTES - RCP

- 1. THESE GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN DRAWINGS.
- 2. CEILINGS HEIGHTS ARE FROM FINISH FLOOR, UNO.
- 3. CENTER CEILING GRID OR TILES IN ROOM AS SHOWN.
- 4. GYPSUM WALLBOARD SOFFITS SHALL ALIGN WITH FACE OF ADJACENT WALL, UNO.
- WHERE NOT DIMENSIONED, CENTER ALL LIGHTS IN ROOM OR SPACE. VERIFY LAYOUT WITH ARCHITECT.

CEILING SYMBOL LEGEND 1t CEILING TYPE FINISHED HEIGHT

GYPSUM WALLBOARD CEILING, PAINTED

SUSPENDED ACOUSTICAL CEILING 24" x 24" GRID 24" x 24" PANELS

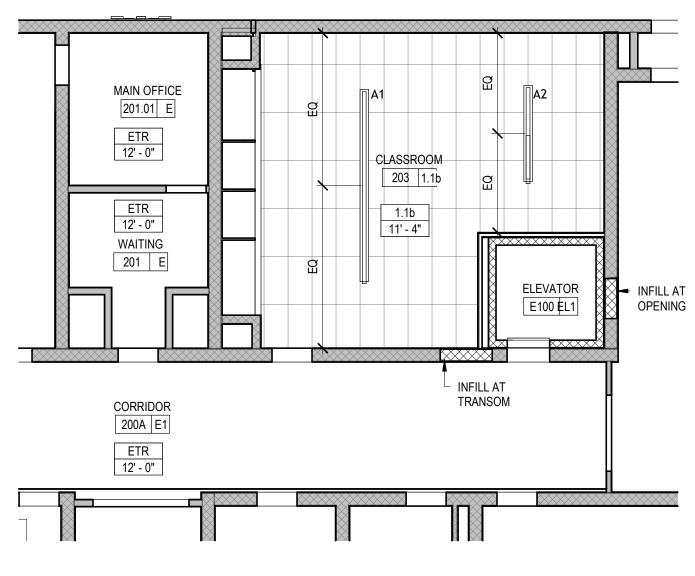
SUSPENDED ACOUSTICAL CEILING 24" x 24" GRID 24" x 48" PANELS

HVAC ITEMS - FOR COORDINATION ONLY, SEE HVAC DRAWINGS AND SPECIFICATIONS FOR TYPES AND QUANTITIES

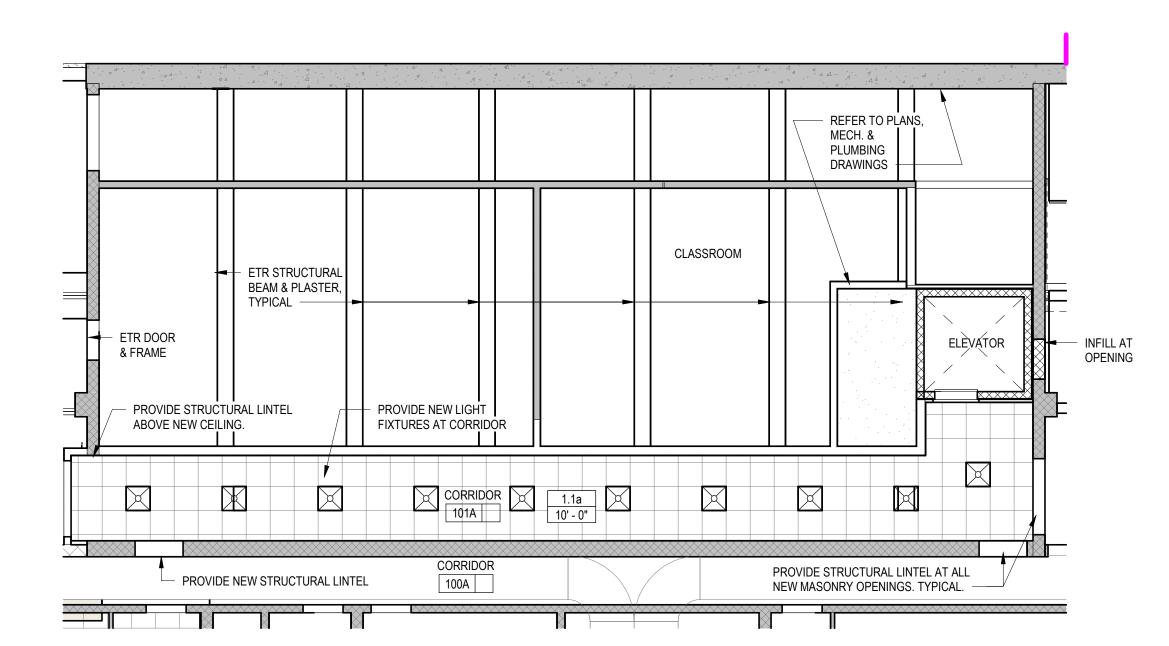
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ELECTRICAL ITEMS - FOR COORDINATION ONLY, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR TYPE AND QUANTITIES FIRE PROTECTION - FOR COORDINATION ONLY,

SEE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR SPRINKLER HEAD TYPES AND QUANTITIES

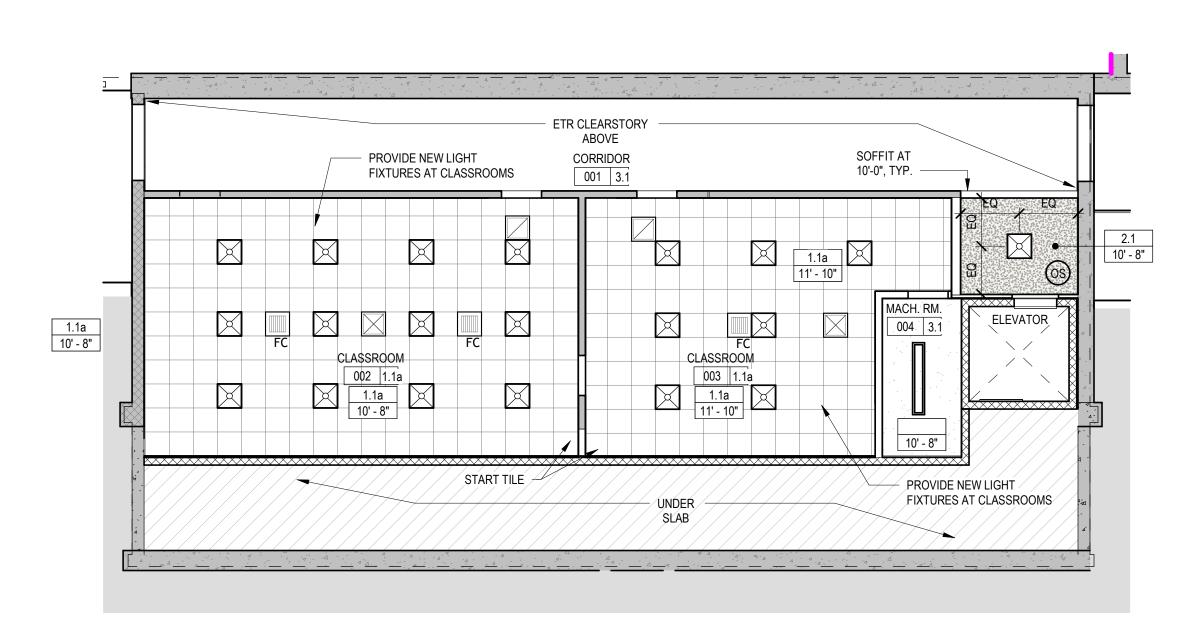


3 REFLECTED CEILING PLAN - FIRST LEVEL
SCALE: 1/8" = 1'-0"



2 REFLECTED CEILING PLAN - INTERMEDIATE LEVEL

A3.01 SCALE: 1/8" = 1'-0"



1 REFLECTED CEILING PLAN - LOWER LEVEL

A3.01 SCALE: 1/8" = 1'-0"

REVISIONS

NUMBER DESCRIPTION DATE

02023.10

OWNER / PROJECT NAME / LOCATION

LINCOLN ES ADA UPGRADES PROJECT

CITY OF WORCESTER

PROJECT NUMBER

549 Lincoln St, Worcester, MA 01605

LOWER LEVEL,
INTERMEDIATE LEVEL &
FIRST LEVEL RCP &
CEILING TYPES



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880 781 213 5030 T 781 213 5040 F

info@mvgarchitects.com E

TAMP

DRAWING INFORMATION

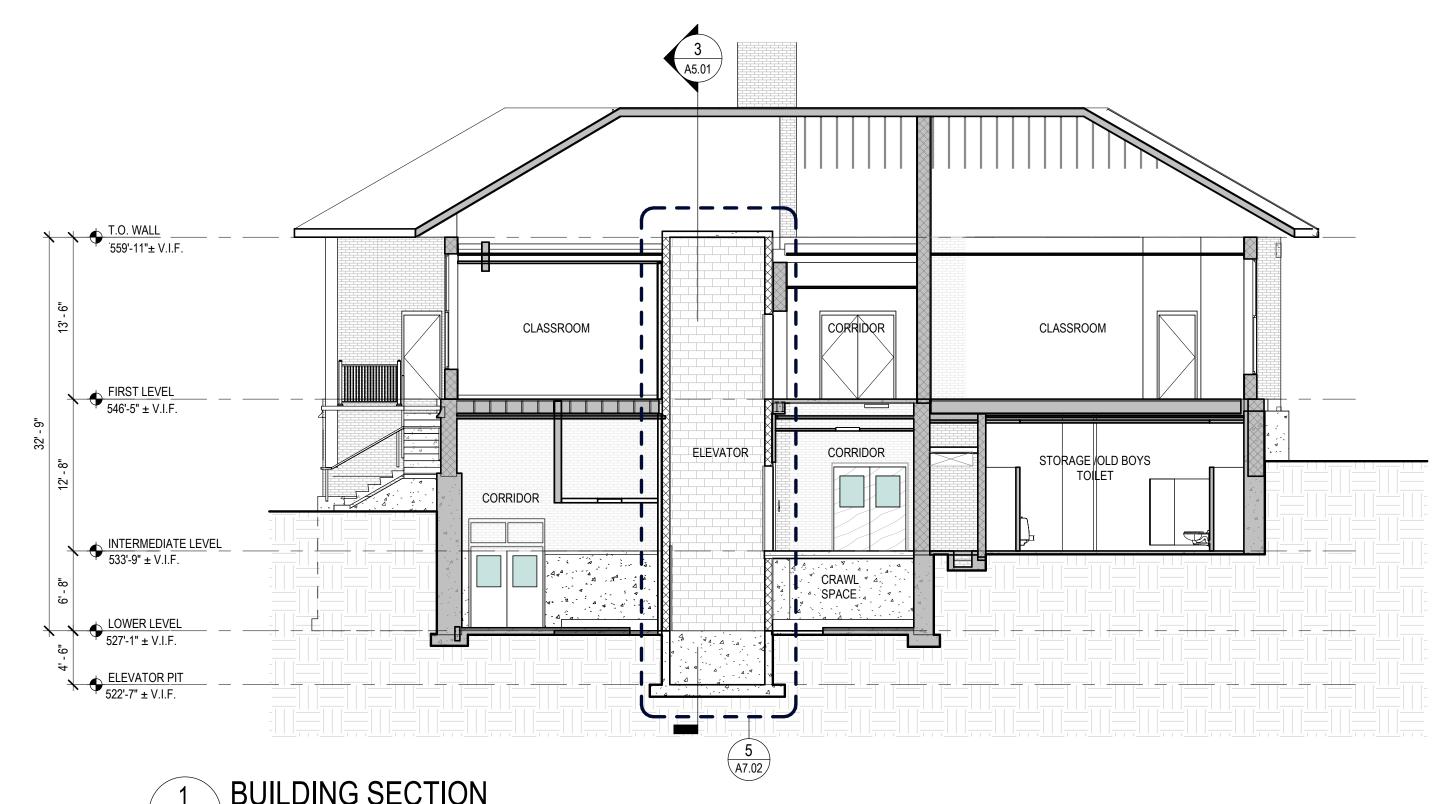
SCALE 1/8" = 1'-0"

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CHECKED WT

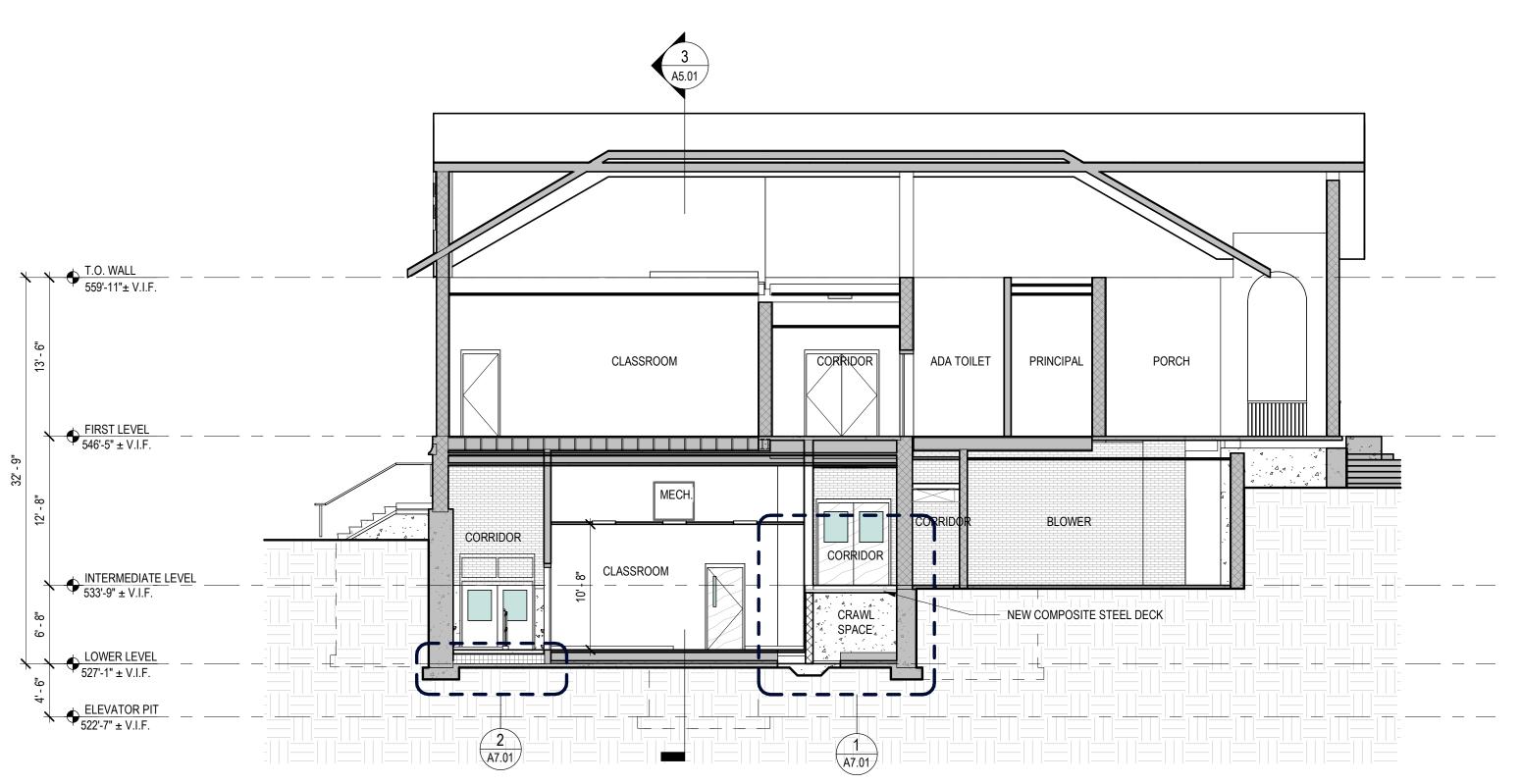
DRAWING NUMBER

A3.01



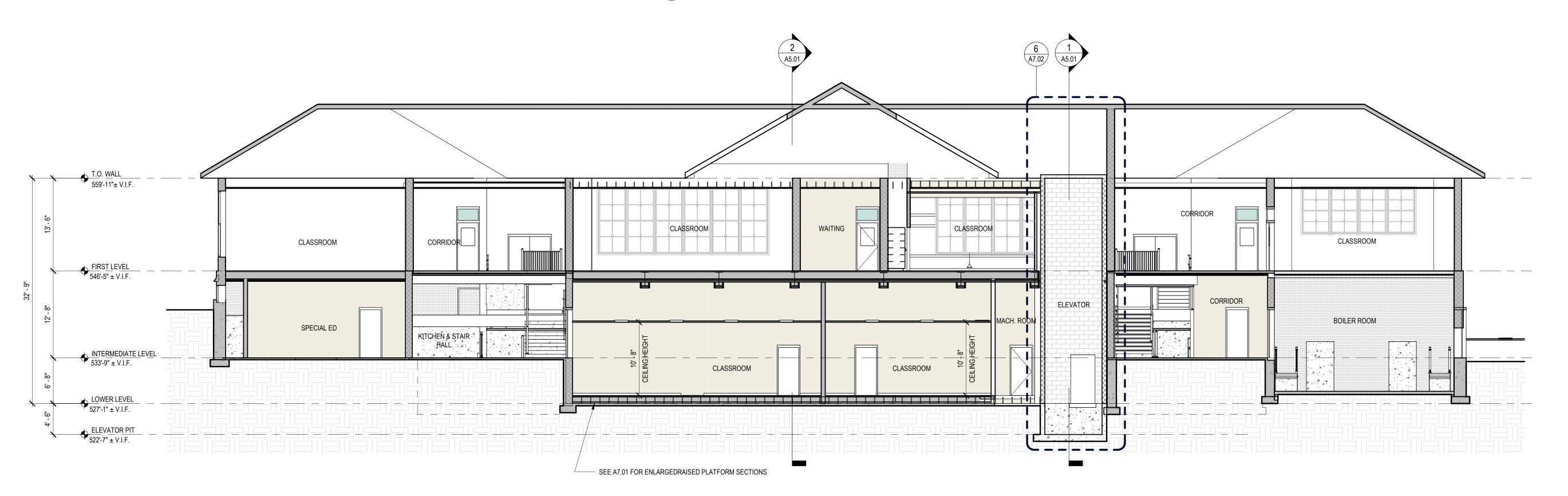
1 BUILDING SECTION

A5.01 SCALE: 1/8" = 1'-0"



2 BUILDING SECTION

A5.01 SCALE: 1/8" = 1'-0"



REVISIONS NUMBER DESCRIPTION DATE

BID SET

PROJECT NUMBER 02023.10

OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER

LINCOLN ES ADA **UPGRADES PROJECT**

549 Lincoln St, Worcester, MA 01605

DRAWING TITLE **BUILDING SECTIONS**



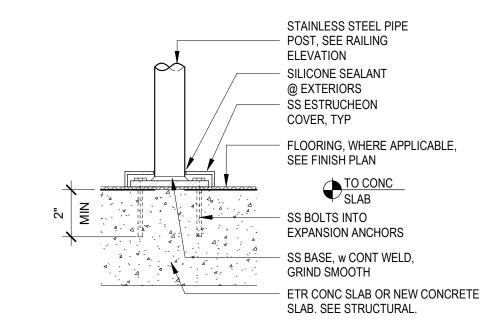
178 Albion Street, Suite 240 Wakefield, Massachusetts 01880 781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

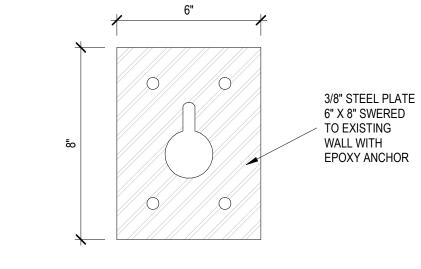
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DRAWING INFORMATION SCALE DRAWN BY CHECKER SEPTEMBER 18, 2024

DRAWING NUMBER

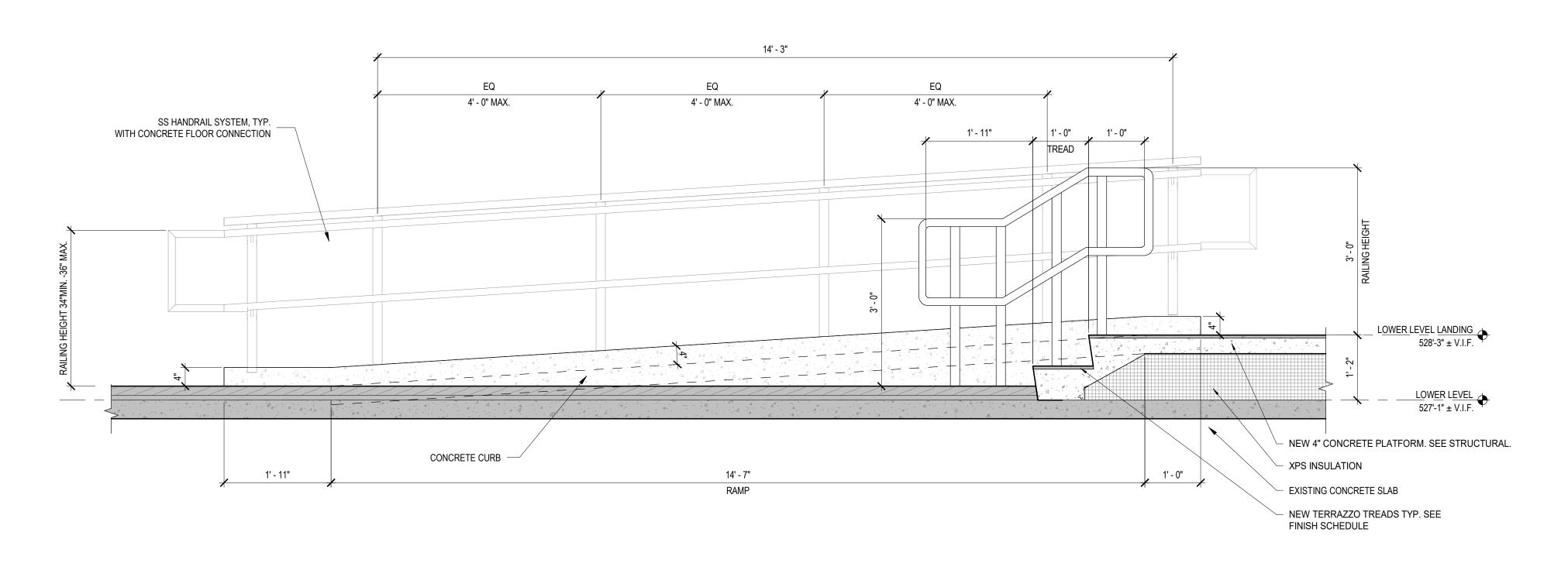
3 BUILDING SECTION
A5.01 SCALE: 1/8" = 1'-0"

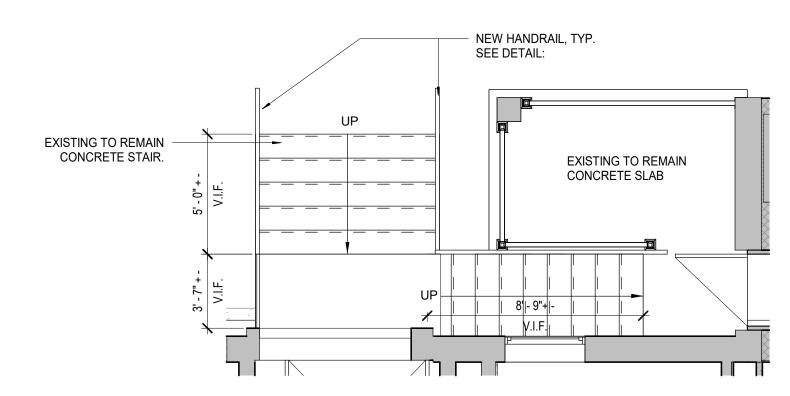




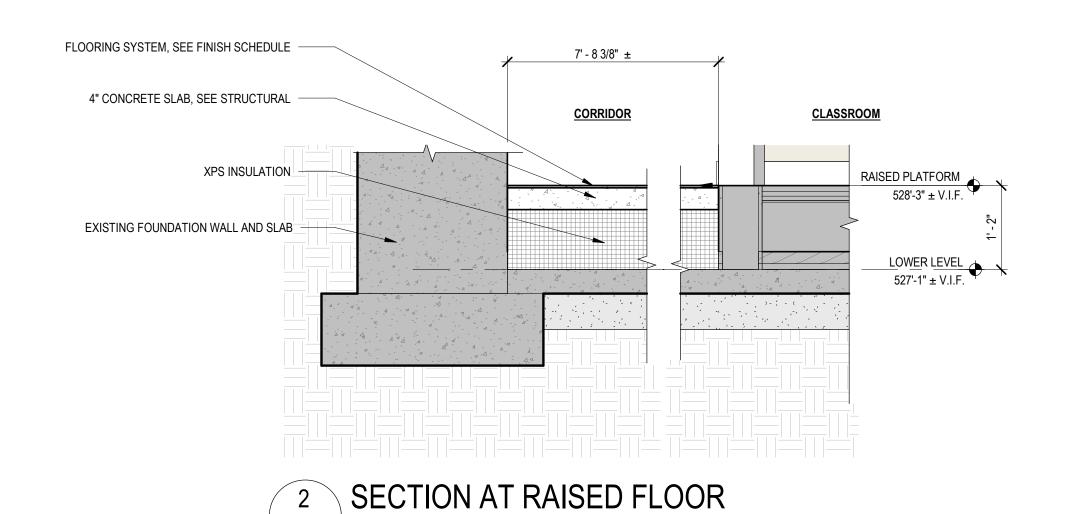
5 STAIR POST MOUNT DETAIL A7.01 SCALE: 3" = 1'-0"





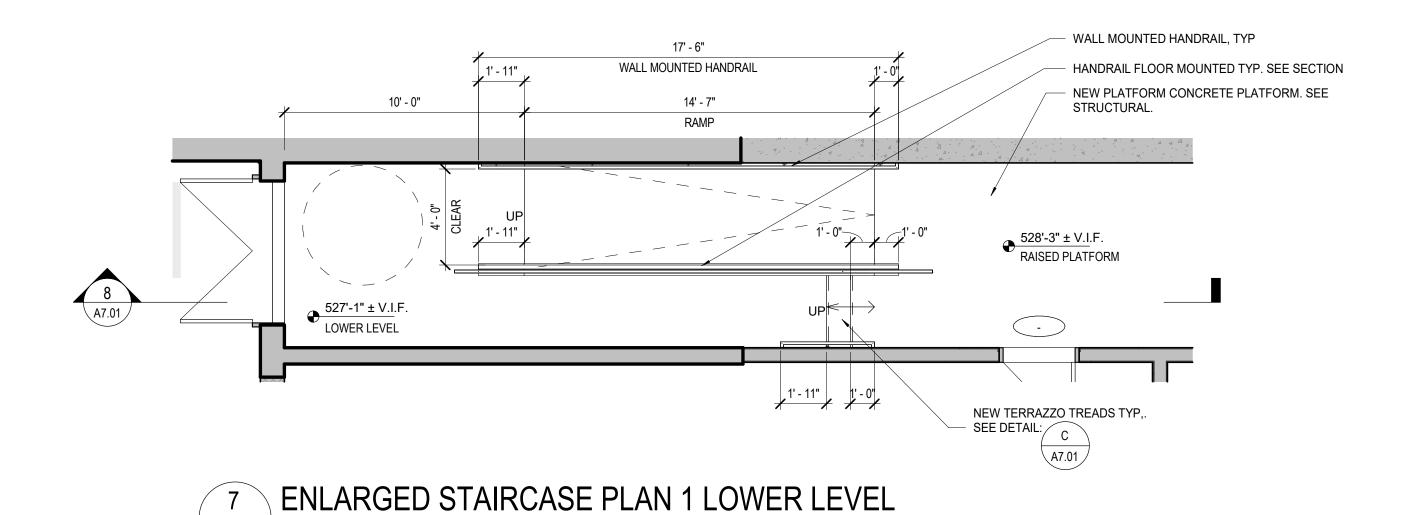


ENLARGEMENT ENTRANCE STAIRS - FIRST FLOOR A7.01 | SCALE: 1/4" = 1'-0"





A7.01 SCALE: 1/4" = 1'-0"



1.1a 10' - 8"

NEW 2X12 SLEEPERS —

528'-3" ± V.I.F.

RAISED PLATFORM

■ EXISTING RAISED FLOOR ———

2X BLOCKING AS REQUIRED

7' - 9" ± NEW CONCRETE SLAB EDGE OF SLAB BASE (SEE ROOM FINISH LEGEND)

CORRIDOR S8 2 HOUR RATED CONCRETE SLAB, SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION - EXISTING MASONRY WALL AND CONCRETE FOUNDATION CONT. CAULKING (EA. SIDE) **CLASSROOM** INTERMEDIATE LEVEL 533'-9" ± V.I.F. 7/8" HAT CHANNELS-NEW LLV WITH ANCHORS, SEE STRUCTURAL **CRAWL SPACE** NEW WALLBASE, SEE INTERIOR ELEVATIONS AND — FINISH SCHEDULE NEW FLOORING SYSTEM ON PLYWOOD, TO MATCH EXISTING LEVEL

EXISTING FOUNDATION TO REMAIN

DAMPPROOFING MEMBRANE, TYP.

EXISTING 6" DP.CINDERS TO REMAIN

A7.01 SCALE: 3/4" = 1'-0"

- WALL MOUNTED NEW PLATFORM CONCRETE PLATFORM. SEE HANDRAIL, TYP,. SEE DETAIL: 10 STRUCTURAL. HANDRAIL FLOOR
MOUNTED TYP
SEE SECTION:

10
A7.01 PAISED PLATFORM $\bullet \frac{527'-1" \pm V.I.F.}{LOWER LEVEL}$

ENLARGED RAMP PLAN 2 LOWER LEVEL

SECTION AT NEW CORRIDOR

DRAWING INFORMATION SCALE As indicated

REVISIONS

DESCRIPTION

NUMBER

BID SET

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION

LINCOLN ES ADA

549 Lincoln St,

DRAWING TITLE

DETAILS

CITY OF WORCESTER

UPGRADES PROJECT

Worcester, MA 01605

ENLARGED STAIR &

RAMP PLANS, SECTIONS

AT RAISED PLATFORM &

MOUNT VERNON GROUP ARCHITECTS

Wakefield, Massachusetts 01880

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Suite 240

02023.10

DRAWING NUMBER

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STAMP

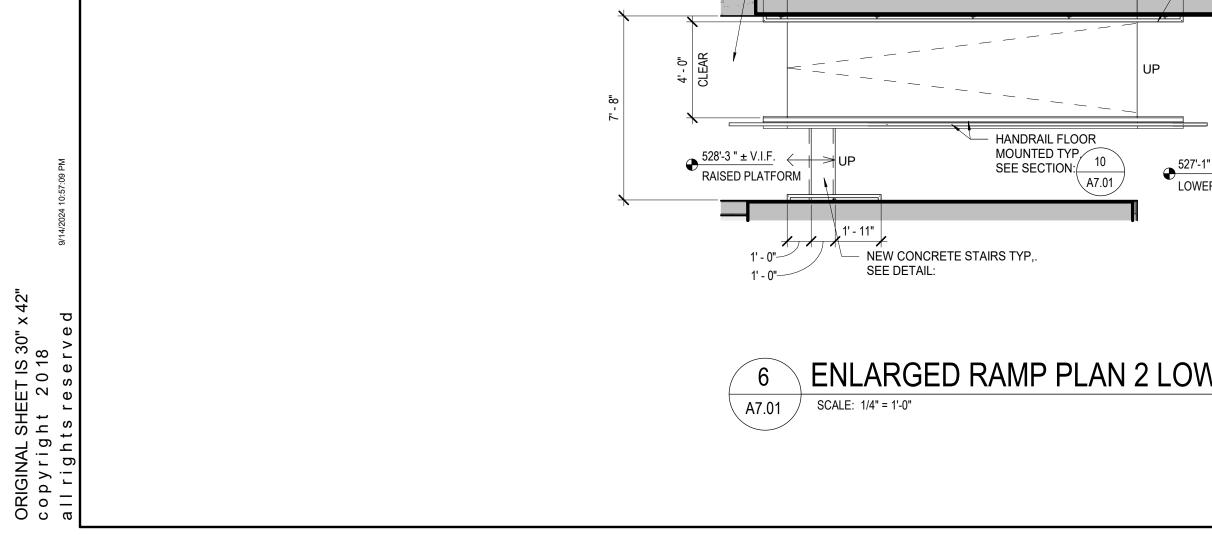
LOWER LEVEL 527'-1" ± V.I.F.

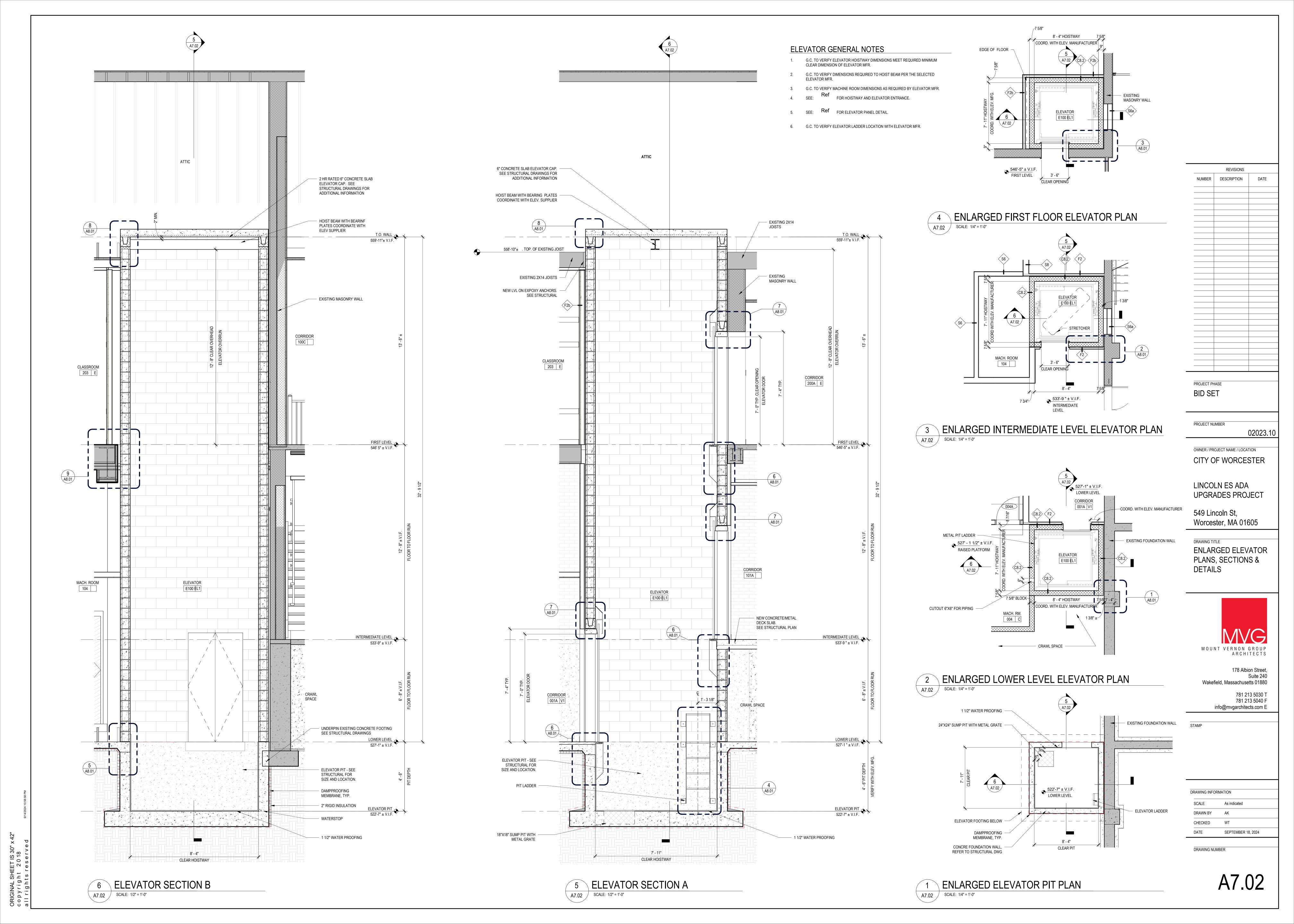
A7.01

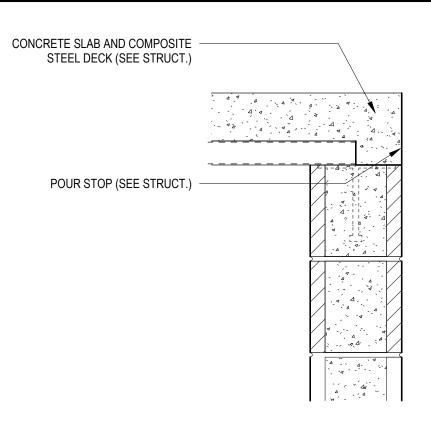
SEPTEMBER 18, 2024

A7.01 SCALE: 3/4" = 1'-0"

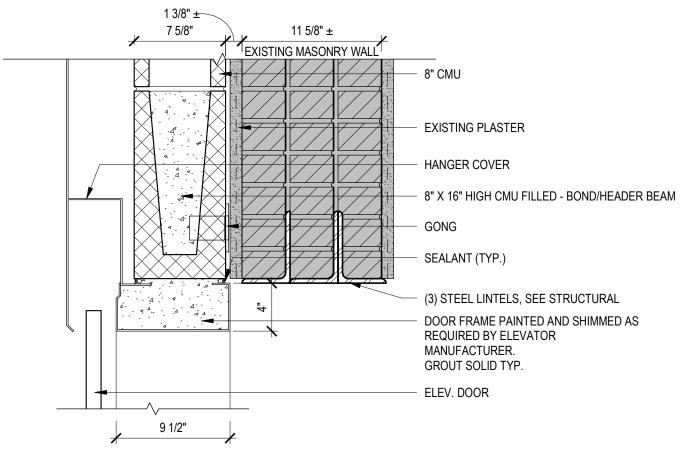
NEW FOUNDATION FOOTING, SEE STRUCTURAL



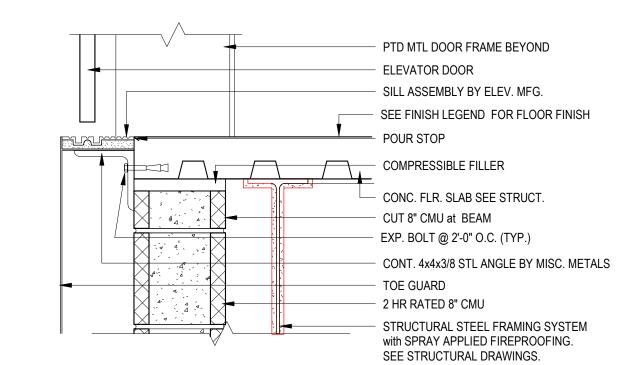




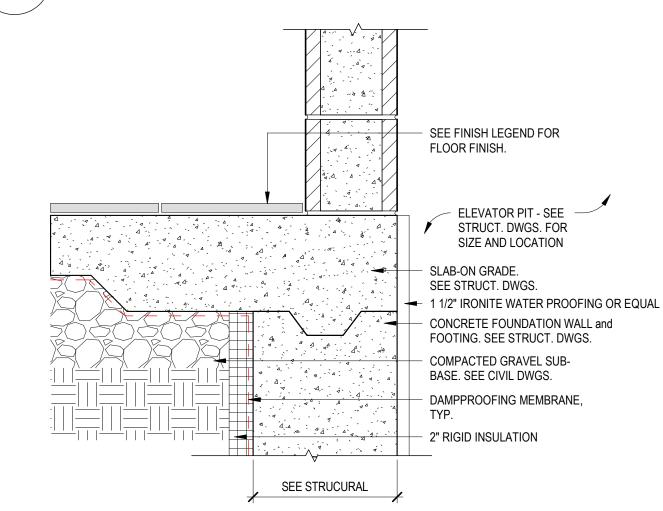




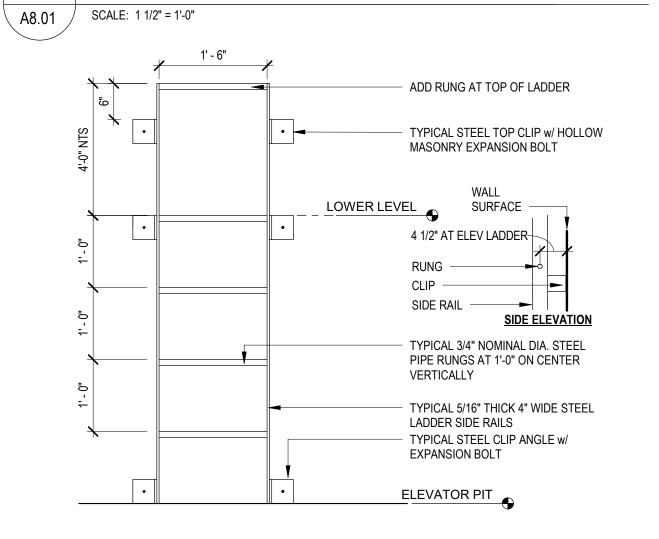
7 ELEVATOR HEAD DETAIL SCALE: 1 1/2" = 1'-0"



6 ELEVATOR DOOR SILL DETAIL SCALE: 1 1/2" = 1'-0"

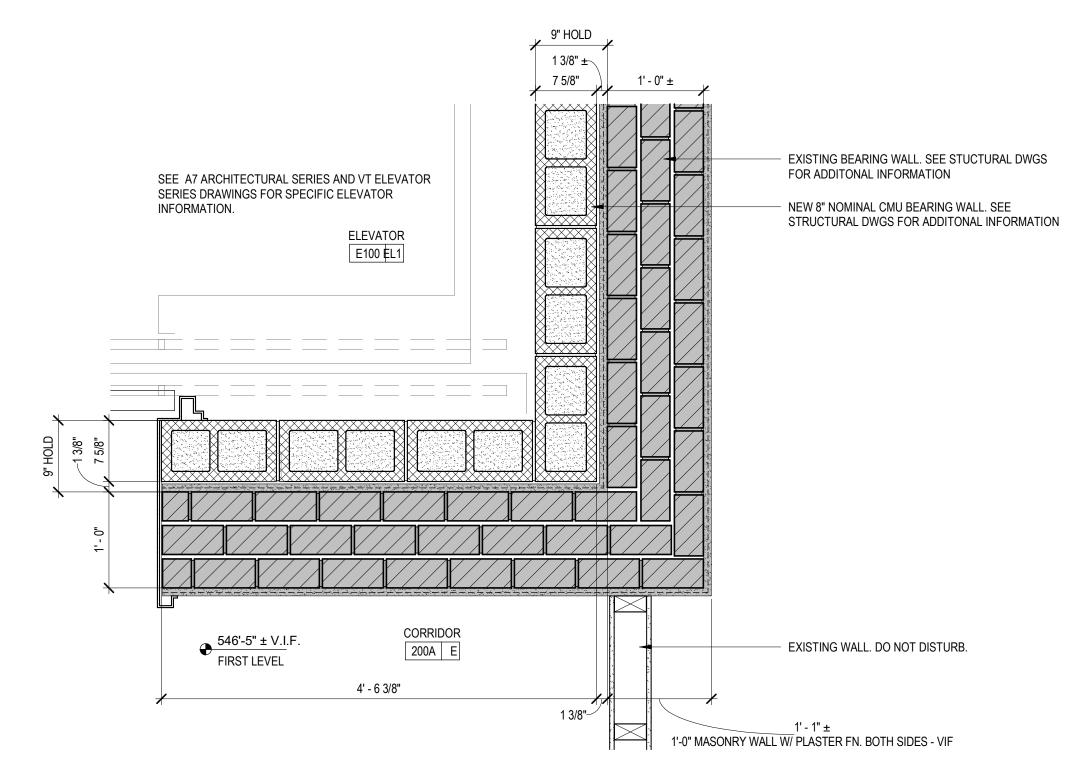


5 ELEVATOR PIT DETAIL

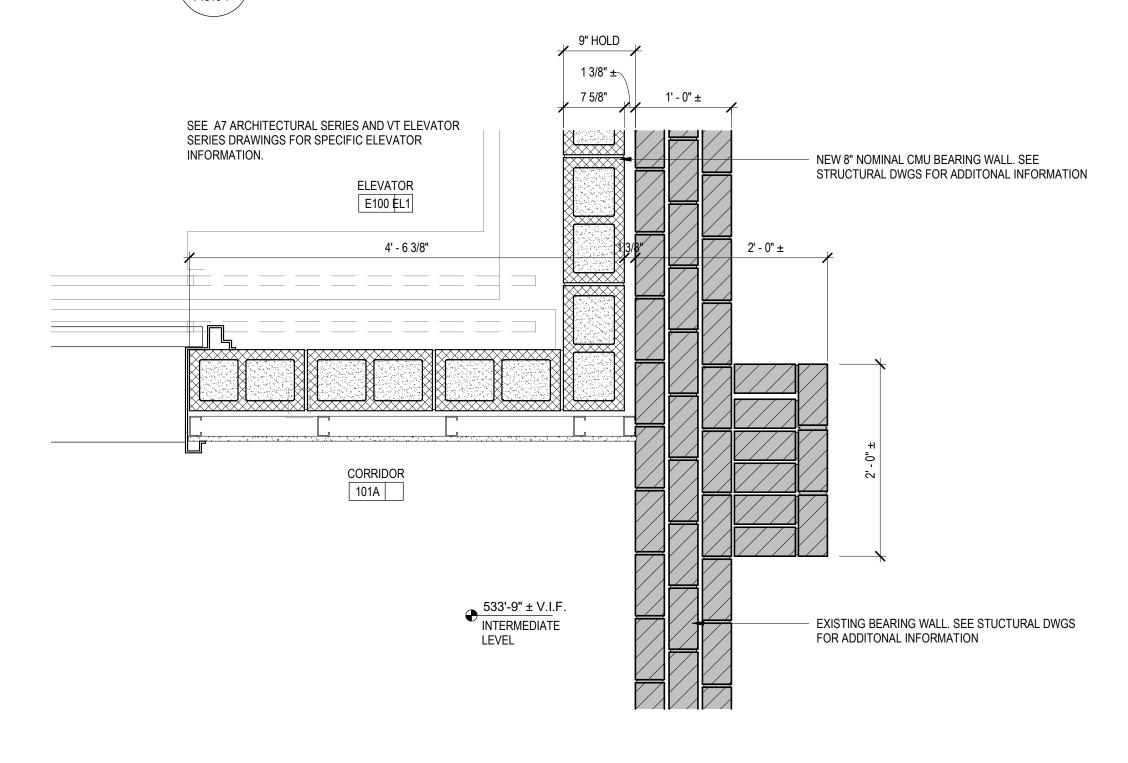


ELEVATOR LADDER IS BY 05500 - METAL FABRICATIONS

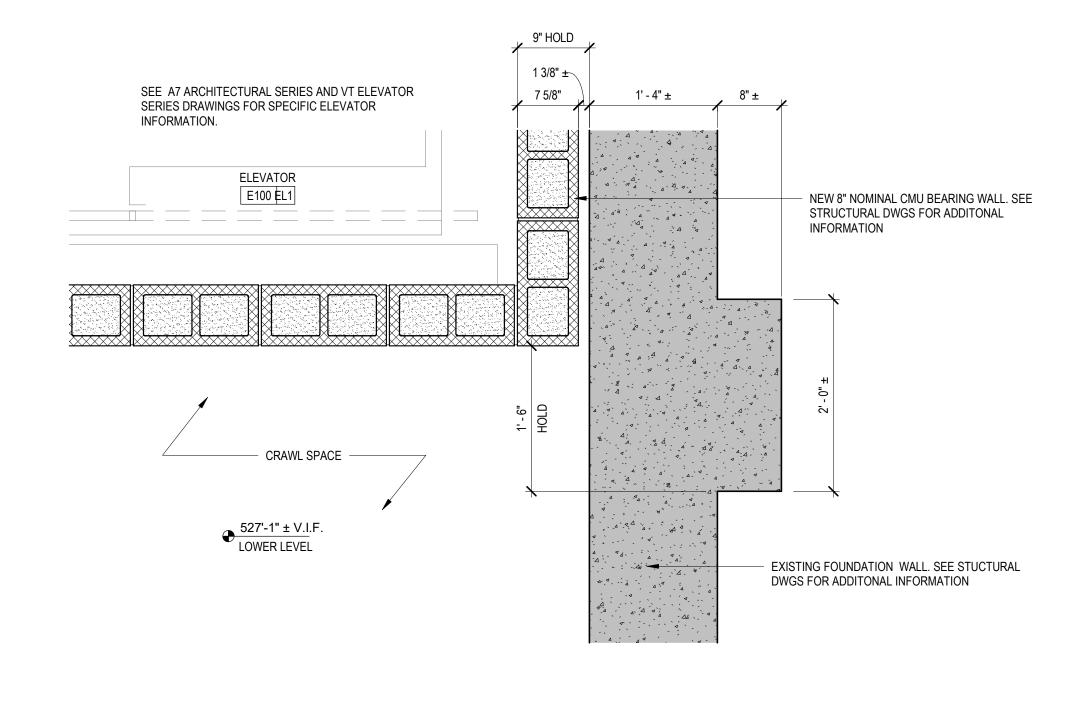




3 WORKING POINT DETAIL - FIRST FLOOR LEVEL SCALE: 1" = 1'-0"



WORKING POINT DETAIL AT ELEVATOR INTERMEDIATE LEVEL SCALE: 1" = 1'-0"



1 WORKING POINT DETAIL - LOWER LEVEL

SCALE: 1" = 1'-0"

NUMBER DESCRIPTION ____ ____ ____ ____ ____ **BID SET** PROJECT NUMBER 02023.10 OWNER / PROJECT NAME / LOCATION CITY OF WORCESTER LINCOLN ES ADA **UPGRADES PROJECT** 549 Lincoln St, Worcester, MA 01605

REVISIONS

MOUNT VERNON GROUP ARCHITECTS

DRAWING TITLE

PLAN DETAILS &

ELEVATOR DETAILS

178 Albion Street, Suite 240 Wakefield, Massachusetts 01880 781 213 5030 T 781 213 5040 F

info@mvgarchitects.com E

STAMP

SCALE As indicated

DRAWN BY AK

CHECKED WT

DATE SEPTEMBER 18, 2024

DRAWING NUMBER

DRAWING INFORMATION

100

VERIFY IN FIELD EXISTING BEAM SIZE

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, ALONG WITH VENDOR DRAWINGS AND EXISTING CONDITIONS.

- 2. REFER TO EXISTING CONDITIONS AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND/OR ELEVATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 3. IN CASE OF CONFLICT AMONG CONTRACT DOCUMENTS, THE MORE SPECIFIC AND LOCALIZED INFORMATION IN THE FOLLOWING ASCENDING ORDER SHALL GOVERN NOTES, PLANS, SCHEDULE, AND DETAILS.
- 4. UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
- 5. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK
- SHOP DRAWINGS FOR REINFORCING STEEL (INCLUDING ALL ACCESSORIES), REINFORCED MASONRY, ENGINEERED LUMBER, AND STRUCTURAL STEEL. SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND A STAMPED ACCEPTANCE RECEIVED BEFORE FABRICATION CAN PROCEED. ERECTION SHALL BE EXECUTED FROM ACCEPTED SHOP DRAWINGS ONLY.
- 7. A COMPLETE CONCRETE SLAB-ON-GRADE PLACEMENT SCHEDULE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND A STAMPED ACCEPTANCE RECEIVED BEFORE ANY CONCRETE PLACEMENT CAN BE MADE.
- 8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING AND BRACING FOR THE BUILDING DURING THE ENTIRE CONSTRUCTION PERIOD.
- 9. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS (UNLESS OTHERWISE NOTED) OF THE FOLLOWING BUILDING CODES AND STANDARDS:
- a. THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION
- b. THE INTERNATIONAL BUILDING CODE, 2015 EDITION c. THE INTERNATIONAL EXISTING BUILDING CODE, 2015 EDITION
- d. NDS-2015 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
- (INCLUDING ALL SUPPLEMENTS) e. "TMS 402/602" - BUILDING CODE REQUIREMENTS & SPECIFICATIONS FOR MASONRY

EXISTING CONSTRUCTION:

STRUCTURES

- 1. ALL INFORMATION RELATING TO THE EXISTING STRUCTURAL CONDITIONS HAS BEEN DERIVED FROM AN OBSERVATIONAL SITE VISIT.
- 2. NEW WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS
- 3. (e) INDICATES AN EXISTING STRUCTURAL ELEMENT.
- 4. V.I.F. OR F.V. = VERIFY IN FIELD OR FIELD VERIFY
- ANY DIMENSION NOTED (±) SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO SHOP DRAWING SUBMISSIONS.
- 6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING AND BRACING FOR THE BUILDING DURING THE ENTIRE CONSTRUCTION PERIOD.

(2015 INTERNATIONAL BUILDING CODE WITH MA BUILDING CODE SUPPLEMENT, 9TH ED.)

- 1. BUILDING ROOF LOADS (PER SECTIONS 1606 THRU 1608)
- A. GROUND SNOW LOAD, Pg = 50 PSF (PER SECTION 1608) FLAT-ROOF SNOW LOAD, Pf = 39 PSF (MIN.) PLUS SNOWDRIFT LOADING WHERE APPLICABLE
 - SNOW EXPOSURE FACTOR, Ce = 1.0 • SNOW LOAD IMPORTANCE FACTOR, Is = 1.10
- 2. BUILDING FLOOR LOADS (PER SECTIONS 1606 & 1607)
- A. LIVE LOAD: S-O-G/1ST FLOOR. . 50 PSF CLASSROOMS.
- CORRIDORS (ABOVE FIRST FLOOR) ... 80 PSF B. CEILING:
- C. SERVICES: D. STRUCTURE:
- **ACTUAL WEIGHTS OF MATERIALS**
- WIND DESIGN (PER SECTION 1609 AND IEBC 2015) A. ULTIMATE DESIGN WIND SPEED, Vult (3-SECOND GUST) = 134 MPH B. NOMINAL DESIGN WIND SPEED, Vasd = 104 MPH
- C. RISK CATEGORY = 3

• THERMAL FACTOR, Ct = 1.0

- D. IMPORTANCE FACTOR, Iw = 1.00 FOR MWFRS E. WIND EXPOSURE CATEGORY = B • APPLICABLE INTERNAL PRESSURE COEFFICIENT, GCpi = ±0.18
- 4. EARTHQUAKE DESIGN (PER SECTION 1613)
 - A. RISK CATEGORY 3 B. SEISMIC IMPORTANCE FACTOR, le = 1.25
 - C. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS \bullet Ss = 0.180 • S1 = 0.066
 - D. SITE CLASS. E. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
 - Sds = 0.192
 - \bullet Sd1 = 0.108 F. SEISMIC DESIGN CATEGORY B
 - G. BASIC SEISMIC FORCE-RESISTING SYSTEM(S) EXISTING BRICK MASONRY BEARING WALLS
- 5. DESIGN LOAD-BEARING VALUES OF SOILS (PER SECTION 1610) a. ACTIVE LATERAL EARTH PRESSURE = 39 PSF/FT
 - b. AT REST LATERAL EARTH PRESSURE = 59 PSF/FT
 - c. PASSIVE LATERAL EARTH PRESSURE = 406 PSF/FT d. EXCAVATION SLOPE = 1.5H MAX: 1 VERTICAL
 - e. SURCHARGE LOADING: 100 PSF MIN. FOR CONSTRUCTION LOADS
- SPECIAL LOADS a. GUARDRAILS / HANDRAILS: 200 POUND CONCENTRATED LOAD, OR 50 PLF IN ANY DIRECTION (NOT SIMULTANEOUS)
- 7. ALTERATIONS: LEVEL 2 WORK

FOUNDATIONS:

- FOR COMPLETE GEOTECHNICAL REQUIREMENTS, REFER TO "GEOTECHNICAL REPORT PROPOSED IMPROVEMENTS - LINCOLN STREET ELEMENTARY SCHOOL, WORCESTER, MASSACHUSETTS," PREPARED BY LAHLAF GEOTECHNICAL CONSULTING, INC. DATED SEPTEMBER 6, 2024.
- 2. THE ESTIMATED ELEVATION OF THE BOTTOM OF EACH FOOTING IS INDICATED THUS [0'-0"]. THE BOTTOM OF EACH EXTERIOR FOOTING BEARING ON SOIL SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT FINISHED GRADE.
- 3. NEW FOOTINGS SHALL BEAR ON COMPACTED STRUCTURAL FILL WITH A DESIGN BEARING VALUE OF 4000 PSF.
- 4. THE EXPOSED SUBGRADE SHALL BE COMPACTED WITH A DYNAMIC VIBRATORY ROLLER IMPARTING A MINIMUM OF 10 KIPS FORCE TO THE NATURAL SOIL / STRUCTURAL FILL AND IMPARTING A MINIMUM OF 4 KIPS TO GRANULAR SOIL UNDER FOOTINGS. THE EXCAVATION SHALL BE BACKFILLED WITH STRUCTURAL FILL (AS DESCRIBED IN THE GEOTECHNICAL REPORT) UP TO THE UNDERSIDE OF THE BASE COURSE ELEVATION (SEE NOTE #5).
- 5. BELOW TYPICAL SLAB-ON-GRADE CONSTRUCTION, PROVIDE A MINIMUM OF 12" OF STRUCTURAL FILL PLACED ON TOP OF THE SAND AND GRAVEL (SEE NOTE #4) AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- 6. WHERE EXTERIOR DOORS OPEN TO UNHEATED SPACES, PROVIDE A MINIMUM OF 24" OF 3/4" CRUSHED STONE PLACED OVER A PROPERLY PREPARED SUBGRADE (TO REDUCE THE POTENTIAL FOR FROST HEAVE AT DOORWAY LOCATIONS).
- 7. WHERE REQUIRED WITHIN THE FOOTPRINT OF THE PROPOSED BUILDING AREA, STRUCTURAL FILL SHALL BE COMPACTED IN 9" LAYERS (MAXIMUM) TO AT LEAST 95% OF
- THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. 8. FOUNDATION WALL BACKFILL SHALL BE COMPACTED IN 9" LAYERS (MAXIMUM) TO AT

LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

- 9. EXISTING PAVEMENT, CONCRETE FOUNDATION ELEMENTS, AND ABANDONED UTILITIES TO BE SHALL BE REMOVED IN THEIR ENTIRETY FROM THE PROPOSED BUILDING
- 10. FOR CONSTRUCTION UNDER WINTER CONDITIONS, FOUNDATION AND FLOOR SLABS SHALL BE PROTECTED FROM FREEZING TEMPERATURES UNTIL THE BUILDING IS ENCLOSED AND HEATED.
- NO CONCRETE SHALL BE PLACED IN WATER, ICE, FROST, OR ON FROZEN SUBGRADE MATERIAL. PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PREVENT FROST FROM PENETRATING ANY FOOTING OR SUBGRADE MATERIAL (BEFORE AND AFTER CONCRETE PLACEMENT) UNTIL SUCH SUBGRADE MATERIAL IS FULLY PROTECTED BY THE PERMANENT STRUCTURAL SYSTEM.
- 12. UNLESS OTHERWISE NOTED, NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS RETAINING EARTH UNLESS WALLS ARE SUFFICIENTLY BRACED TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE AND THE SLAB-ON-GRADE IS IN PLACE.
- 13. THE DESIGN AND EXECUTION OF ALL TEMPORARY EARTH RETENTION SYSTEMS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- FOUNDATIONS SHALL BE CENTERED ON GRID INTERSECTIONS, UNLESS OTHERWISE NOTED ON PLAN.
- 15. PER RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEER, UNDERSLAB AND PERIMETER DRAINS ARE NOT REQUIRED

CONCRETE:

- 1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. ALL CONCRETE SHALL BE NORMAL WEIGHT (150 PCF MAXIMUM).
- 2. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 (DEFORMED), AND SHALL BE FREE FROM LOOSE RUST AND SCALE. LAP ALL CONTINUOUS BARS IN 42 BAR DIAMETERS MINIMUM
- 3. ALL WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A 1064 WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 70 KSI. LAP (2) SQUARES AT ALL JOINTS AND TIE @ 3'-0" ON CENTER.
- 4. CLEAR CONCRETE PROTECTION FOR REINFORCING SHALL CONFORM TO THE FOLLOWING REQUIREMENTS. UNLESS OTHERWISE NOTED:
- a. FOOTINGS AND OTHER CONCRETE ELEMENTS CAST AGAINST EARTH: 3" b. FOUNDATION WALLS AND OTHER CONCRETE ELEMENTS EXPOSED TO EARTH: 2" c. SLABS-ON-GRADE: 1 1/4" FROM TOP
- d. SLABS-ON-DECK: 1 1/4" FROM TOP 5. DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE LATEST
- CONCRETE SHALL BE CAST MONOLITHICALLY, EXCEPT AS INDICATED ON THE DRAWINGS.

EDITION OF THE ACI DETAILING MANUAL 315.

WALL THICKNESS.

- 7. ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED (6% ± 1.5%). AIR
- ENTRAINMENT VALUE SHALL BE MEASURED AT THE HOSE OUTLET IF CONCRETE IS PUMPED. 8. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF SLEEVES, DUCT
- OPENINGS OR RECESSES. BARS MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL WITH THE APPROVAL OF THE ENGINEER. 9. CONTROL JOINT SPACING SHALL NOT EXCEED 12'-0" IN EITHER DIRECTION AT

SLABS-ON-GRADE AND NOT MORE THAN 1.5:1 SPACING. REFER TO PLANS FOR ADDITIONAL

- CONTROL JOINT SPACING REQUIREMENTS. 9. ALUMINUM CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM- CONCRETE
- REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL. ALL CONDUIT SHALL RUN BETWEEN WALL REINFORCING AND BELOW SLAB W.W.F. LINES OF CONDUIT SHALL BE SPACED NOT CLOSER THAN THREE CONDUIT DIAMETERS ON CENTER. MAXIMUM SIZE OF CONDUIT IN SLAB SHALL BE EQUAL TO 1/3 OF THE SLAB OR
- 11. PIPE PENETRATIONS THROUGH CONCRETE ARE NOT ALLOWED WITHOUT THE PERMISSION OF THE ENGINEER. STEEL PIPE SLEEVES SHALL BE PROVIDED AND SPACED A MINIMUM OF THREE PIPE DIAMETERS APART. ALL OTHER SLEEVE LOCATIONS MUST BE SUBMITTED FOR REVIEW. IN NO CASE SHALL SLEEVES BE PLACED IN CONCRETE BEAMS WITHOUT WRITTEN ACCEPTANCE FROM THE STRUCTURAL ENGINEER.
- 12. SUPPORT BARS FOR SLAB REINFORCING SHALL BE #5 OR GREATER, AND SHALL BE SPACED NOT MORE THAN 4'-0" O.C. SUPPORT BARS AND ENDS OF MAIN REINFORCING BARS SHALL NOT EXTEND MORE THAN 1'-6" PAST THE OUTERMOST CHAIR OR SUPPORT
- 13. ALL REINFORCING ACCESSORIES FOR EXPOSED SURFACES SHALL HAVE UPTURNED LEGS AND BE PLASTIC DIPPED AFTER FABRICATION. ACCESSORIES FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI STANDARDS. LATEST EDITION.
- 14. ALL DOWELS FOR WALL REINFORCEMENT SHALL MATCH LAPPING BAR SIZE AND SPACING, UNLESS OTHERWISE NOTED.
- 15. ALL KEYS SHALL BE FORMED BY A 2X4 WITH BEVELED SIDES (UNLESS OTHERWISE
- 16. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN FIVE A DAY (FOR 1,3,7, 28, AND 56 DAY COMPRESSIVE STRENGTH TESTS).

GENERAL NOTES

REINFORCED CONCRETE MASONRY UNITS: ALL REINFORCED CONCRETE MASONRY SHALL CONFORM TO TMS 402 / 602-16.

- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT.
- 3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S, WITH A MINIMUM 28 DAY
- COMPRESSIVE STRENGTH OF 2500 PSI. 4. GROUT SHALL CONFORM TO ASTM C476, FINE TYPE, AND SHALL HAVE A MINIMUM 28 DAY
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED.

COMPRESSIVE STRENGTH OF 3000 PSI.

- 6. COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY SHALL BE EQUAL TO OR EXCEED I'm =
- 7. CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET AREA WITH TYPE M OR S MORTAR.
- 8. COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY THE PRISM TEST METHOD IN ACCORDANCE WITH ASTM C1314.
- 9. PROVIDE HORIZONTAL AND VERTICAL REINFORCING AS NOTED ON THE DRAWINGS AND FILL ALL REINFORCED BLOCK CELLS WITH GROUT. REFER TO "MINIMUM MASONRY WALL REINFORCING SCHEDULE", OR SECTIONS, FOR REQUIRED WALL REINFORCEMENT. HORIZONTAL LADDER-TYPE REINFORCEMENT SHALL BE CONTINUOUS THRU CORNERS, INTERSECTIONS, AND PILASTERS.
- 10. GROUTING SHALL BE LIMITED TO A MAXIMUM WALL HEIGHT OF 5'-4" PER LIFT.

WOOD FRAMING:

- 1. ALL STRUCTURAL LUMBER SHALL CONFORM TO THE REQUIREMENTS OF NDS-2015 AND THE ASSOCIATED SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION."
- 2. DIMENSIONAL LUMBER NOT INDICATED TO BE PRESSURE-TREATED SHALL BE SPRUCE-PINE-FIR NO. 1/NO. 2 OR BETTER WITH THE FOLLOWING DESIGN VALUES: ALL SIZES: Fb = 875 PSI Fv = 135 PSI E = 1,400,000 PSI
- 3. DIMENSIONAL LUMBER INDICATED TO BE PRESSURE-TREATED SHALL BE SOUTHERN PINE NO. 2 OR BETTER WITH THE FOLLOWING DESIGN VALUES:

	2X4:	Fb = 1100 PSI	Fv = 175 PSI	E = 1,400,000 PSI
	2X6:	Fb = 1000 PSI	Fv = 175 PSI	E = 1,400,000 PSI
4.	STRUCTURAL	COMPOSITE LUMBER S	SHALL BE PROVIDED B	Y TRUS JOIST BY

WEYERHAUSER	(OR APPROVED EQU	JAL) WITH THE FOLLOW	ING DESIGN VALUES:
LVLs:	Fb = 2600 PSI	Fv = 285 PSI	E = 2,000,000 PSI
PSL POSTS:	Fb = 2400 PSI	Fv = 190 PSI	E = 1,800,000 PSI
PSL BEAMS:	Fb = 2900 PSI	Fv = 290 PSI	E = 2,000,000 PSI

- 5. FLOOR AND ROOF SHEATHING SHALL BE APA-RATED TONGUE AND GROOVE PLYWOOD AND SHALL BE GLUED AND NAILED WITH 8d NAILS AT 6" ON CENTER ALONG DIAPHRAGM BOUNDARIES AND SUPPORTED EDGES AND 8d NAILS AT 12" ON CENTER AT ALL INTERMEDIATE SUPPORTS. PLYWOOD SHEATHING AT FLOORS AND ROOFS SHALL SPAN WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTING MEMBERS.
- SHEATHING AT EXTERIOR WALLS AND INTERIOR SHEAR WALLS SHALL BE APA-RATED PLYWOOD OR STRUCTURAL 1 GRADE PLYWOOD AS INDICATED ON THE SHEAR WALL SCHEDULES. PROVIDE 2X BLOCKING AT ALL UNSUPPORTED EDGES AT SHEAR WALL
- 7. ALL FLUSH (SIDE-MOUNTED) CONNECTIONS SHALL HAVE BEAM OR JOIST HANGERS CAPABLE OF SUPPORTING THE MAXIMUM REACTION OF THE MEMBER INDICATED ON PLAN.
- ALL CONNECTIONS SHALL CONFORM TO NDS-2015 AND THE CONTRACT DOCUMENTS. ALL FASTENING SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE PER THE
- MASSACHUSETTS STATE BUILDING CODE. PROVIDE DOUBLE STUDS (MINIMUM) UNDER ALL HEADERS AND BUILT-UP BEAMS, UNLESS OTHERWISE NOTED. SUCH STUDS SHALL CONTINUE FROM THE POINT OF APPLICATION OF THE LOAD TO THE FOUNDATION OR TO THE COMPOSITE STEEL PODIUM LEVEL, UNLESS OTHERWISE INDICATED.
- ALL STEEL HARDWARE SHALL BE HOT-DIPPED GALVANIZED. PROVIDE AND INSTALL STAMPED AND FABRICATED STEEL OF THE TYPE AS REQUIRED IN THE CONTRACT DOCUMENTS OR CONNECTION SHOP DRAWINGS. NAILS SHALL BE THOSE FURNISHED BY THE MANUFACTURER FOR THE SPECIFIC USE AND SHALL BE FULLY DRIVEN IN ALL HOLES IN THE HANGER OR ANCHOR. METAL HANGERS, BY SIMPSON STRONG-TIE OR APPROVED EQUAL AND CONFORMING TO THE INDICATED REQUIREMENTS, SHALL BE PROVIDED. HARDWARE FOR ALL STRUCTURAL COMPOSITE LUMBER SHALL BE NOTED ON THE SHOP
- 11. STRUCTURAL WOOD MEMBERS SHALL NOT BE CUT, NOTCHED, OR PIERCED IN EXCESS OF 2. ALL STRUCTURAL STEEL SHALL BE PRIMED, UNLESS OTHERWISE NOTED. THE LIMITATIONS SPECIFIED IN THE MASSACHUSETTS STATE BUILDING CODE OR IN THE MANUFACTURER'S SPECIFICATIONS.
- 12. UNLESS OTHERWISE NOTED ON PLAN, ALL STUD WALLS SHALL BE PROVIDED WITH DOUBLE SILL PLATES AND TRIPLE TOP PLATES INSTALLED TO PROVIDE OVERLAPPING CORNERS AND WALL INTERSECTIONS. TOP PLATE SPLICES SHALL BE OFFSET NOT LESS THAN 48" ON CENTER

QUALITY ASSURANCE:

- THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS FOR WORK SPECIFIED IN CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE, INCLUDING MASSACHUSETTS AMENDMENTS. THE TESTING AGENCY SHALL BE LICENSED IN MASSACHUSETTS AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN MASSACHUSETTS.
- FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE
- THE TESTING AGENCY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKE ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR, OR BE A PARTY TO SCHEDULING OF WORK.
- RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
- 5. REFER TO LIST OF REQUIRED SPECIAL INSPECTIONS BELOW:

LIST OF SPECIAL INSPECTIONS:

- 1. CONCRETE:
 - A. CONCRETE MIX B. COMPRESSIVE STRENGTH
 - C. MESH D. REBAR

E. CURING & PROTECTION

- STRUCTURAL STEEL: A. GRADE
 - B. PLACEMENT C. BOLTED AND WELDED CONNECTIONS
- 3. STEEL DECKING: A. GAUGE
- B. ATTACHMENT TO SUPPORTING MEMBERS 4. CONCRETE MASONRY UNITS:
 - A. PRISM TEST
 - B. GROUT C. MORTAR D. REBAR
- 5. WOOD:
 - A. HURRICANE TIES AT ROOF B. HANGER CONNECTIONS
- 6. SOILS:
 - A. BACKFILL AND COMPACTION REQUIREMENTS
 - C. INSPECTION OF PREPARED FILL

MISC. METALS SECTION (STAIRS AND RAILINGS):

- 1. ALL STAIRS, STAIR LANDINGS, RAILINGS AND OTHER STAIR COMPONENTS SHALL BE DESIGNED AND DETAILED UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER
- LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS.
- 2. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED, SEALED, AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL CLEARLY INDICATE BUT NOT BE LIMITED TO, THE FOLLOWING:
- a. LOADS IMPOSED ON THE STRUCTURE FROM THE STAIR / RAILINGS
- b. ALL CONNECTIONS FROM THE STAIRS / RAILINGS TO THE STRUCTURE c. ALL SIZES AND SHAPES d. ALL DIMENSIONS AND CONFIGURATIONS
- 3. ALL CONCRETE INFILL (WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS) AND LANDINGS SHALL BE CAST WITH NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.

METAL STUDS (COLD-FORMED METAL FRAMING FOR EXTERIOR BACK-UP WALLS):

CONTRACTOR SHALL SUBMIT THE FOLLOWING:

- a. SHOP DRAWINGS FOR ALL COMPONENTS AND INSTALLATIONS NOT FULLY DIMENSIONED OR DETAILED IN MANUFACTURER'S PRODUCT DATA.
- b. SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE OF MASSACHUSETTS.
- c. CALCULATIONS AND DRAWINGS WILL BE REVIEWED BY ARCHITECT FOR GENERALCOMPLIANCE WITH DESIGN INTENT. d. PRODUCT CATALOG WITH PROPERITES OF ALL C STUDS.
- 2. GALVANIZED STUDS OF 12, 14, AND 16 GAUGE SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO ASTM A653. CALCULATIONS SHALL BE PREPARED UTILIZING ONE OF THE FOLLOWING GRADES:
- a. GRADE D MINUMUM YIELD 50 KSI
- 3. ALL GALVANIZED 18 AND 20 GAUGE STUDS, TRACK, BRIDGING, END CLOSURE AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE
- REQUIREMENT OF ASTM A653, GRADE A, WITH YIELD OF 33 KSI. ALL STUDS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A HOT-DIPPED, GALVANIZED COATING.

5. INSTALLATION:

- INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. SECURE TRACKS AS
- ON CENTER. PROVIDE FASTENERS AT CORNERS AND END OF TRACKS. b. WALL STUDS: SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES. ATTACH STUDS WITH SLIP CONNECTION TO UNDERSIDE OF BEAMS AND/OR DECK ABOVE TO

RECOMMENDED BY STUD MANUFACTURER EXCEPT TO NOT EXCEED 16 INCHES

ALLOW 3/4" VERTICAL DEFLECTION OF BEAM. c. SUPPLEMENTARY FRAMING: PROVIDE BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHEREVER WALL OR PARTITIONS ARE INDICATED TO SUPPORT FIXTURES. EQUIPMENT. SERVICES CASEWORK, HEAVY TRIM AND FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO THE WALL OR PARTITION. WHERE TYPE OF SUPPLEMENTARY SUPPORT IS NOT OTHERWISE INDICATED, COMPLY WITH STUD MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY IN EACH CASE

CONSIDERING WEIGHT OR LOADING RESULTING FROM ITEM SUPPORTED.

- d. WALL OPENINGS: OPENINGS LARGER THAN 2 FEET SQUARE TO BE FRAMED WITH DOUBLE STUD AT EACH JAMB OR FRAME EXCEPT WHERE MORE THAN TWO ARE REQUIRED. e. ALL MEMBERS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO
- 6. METAL STUDS SHALL BE DESIGNED PER "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" FOR ALL APPLICABLE LOADS PER THE MASSACHUSETTS STATE BUILDING CODE AND IMPOSED LOADS FROM MECHANICAL **EQUIPMENT**

STRUCTURAL STEEL:

SUPPORTING MEMBERS.

- ALL STRUCTURAL STEEL MATERIALS, WORKMANSHIP, AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF AISC 303-10 AND AISC 360-10. STRUCTURAL STEEL SHALL
- CONFORM TO THE FOLLOWING SPECIFICATIONS: • STRUCTURAL STEEL W- AND WT-SHAPES: ASTM A992 (GRADE 50) STRUCTURAL STEEL CHANNELS: ASTM A992
- STRUCTURAL PLATES AND ANGLES: ASTM A36 (36 KSI MIN.)
- 3. SHOP OR FIELD WELDED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" BY THE AMERICAN WELDING SOCIETY AND SHALL USE E70 SERIES ELECTRODES. WHERE NO WELD SIZE IS INDICATED ON PLANS, DETAILS, OR SECTIONS, PROVIDE A MINIMUM OF 1/4" FILLET WELDS (ALL AROUND). ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL CERTIFICATIONS MUST BE CURRENT (i.e. WITHIN 12 MONTHS OF PERFORMANCE OF
- WELDING). 4. SHOP OR FIELD BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F3125, GRADE A325 OR GRADE A490. WHERE NO BOLT SIZE IS INDICATED ON PLANS,
- DETAILS, OR SECTIONS, PROVIDE A MINIMUM OF 3/4"Ø GRADE A325 BOLTS. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 (OR GRADE 55), UNLESS OTHERWISE ANCHOR RODS SHALL BE THREADED RODS WITH A STANDARD HEX-HEAD NUT TACK WELDED TO THE ROD, OR STANDARD HEX-HEAD BOLTS, AND SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE PIER / PILASTER OR FOOTING BELOW. SET ANCHOR RODS WITH

TEMPLATE TO ENSURE PROPER POSITIONING.

GIVEN ON THE PROCEEDING TYPICAL DETAIL SHEETS AND SHALL BE DESIGNED BY THE STEEL FABRICATOR TO SUPPORT THE MINIMUM LOADS GIVEN ON THE "TYPICAL W-BEAM TO BEAM/COLUMN SHEAR CONNECTION" DETAIL.

ALL "SIMPLY SUPPORTED" CONNECTIONS SHALL CONFORM TO THE TYPICAL DETAILS

ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS. ALL CERTIFICATIONS MUST BE CURRENT (i.e. WITHIN 12 MONTHS OF PERFORMANCE OF WELDING).

SHORT SLOTTED HORIZONTAL HOLES IN WEB OF BEAM FOR BOLTED CONNECTIONS ARE

PROVIDE A MINIMUM OF 1/4" FILLET WELDS (ALL AROUND) AT WELDED CONNECTIONS,

STEEL DECKING:

SIDE SUPPORTS

INTERIOR SUPPORTS

- 1. STEEL DECK UNITS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO THE REQUIREMENTS OF ASTM A653, GRADE 50. BEFORE FORMING, SHEETS SHALL BE COATED WITH A ZINC COATING CONFORMING TO ASTM A653 G-60 AT COMPOSITE FLOOR DECK.
- STEEL DECK UNITS SHALL SPAN THREE OR MORE SUPPORTS WHERE POSSIBLE.
- 3. STEEL DECK UNITS SHALL BE FASTENED TO STEEL FRAMING BY A 5/8" DIAMETER PUDDLE WELD SPACED AS FOLLOWS (UNLESS OTHERWISE NOTED ON DRAWINGS): **END SUPPORTS**

12" O.C.

12" O.C.

- 4. STEEL DECKING SIDELAPS SHALL BE CONNECTED WITH #10 TEK SCREWS @ 12" O.C. AT FLOORS, UNLESS OTHERWISE NOTED.
- 5. PROVIDE END CLOSURES, CAPS, SUMP PANS AND ALL OTHER ACCESSORIES REQUIRED
- FOR A COMPLETE INSTALLATION. 6. MECHANICAL, ELECTRICAL, PLUMBING OR CEILING CONSTRUCTION SHALL NOT BE HUNG

OR BEAR (WITH CONCENTRATED LOAD) DIRECTLY FROM THE DECK BUT MUST BE

OTHER CONDITIONS WILL REQUIRE ANGLE, CHANNEL, OR BEAM FRAME TO

ATTACHED TO STEEL BEAMS/JOISTS. EXCEPTION: ANY LOAD THAT IS LESS THAN 100 POUNDS HUNG WITH HANGERS OR DIRECTLY BEARING FROM THE TOPSIDE OF THE DECK IS ALLOWED. THERE MUST NOT BE MORE THAN ONE POINT LOAD PER COMPOSITE FLOOR DECK SPAN PER RIB. THIS APPLIES AS WELL TO POINT LOADS ON ROOF DECK, BUT A 12"x12" BEARING/HUNG PLATE ATTACHED TO 2 RIBS IS REQUIRED AS WELL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE USE OF THESE HANGERS BY ALL TRADES.

POST-INSTALLED ANCHORS:

ESR-3187.

1. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI,

INC. CONTACT HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.

DISTRIBUTE LOAD TO STEEL BEAMS/JOISTS PER TYPICAL DETAILS.

- A. WHERE PLANS, SECTIONS, OR DETAILS REQUIRE ANCHORAGE TO CONCRETE WITH ADHESIVE ANCHORS, USE THE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS-E-55 THREADED RODS (SEE NOTE #2 BELOW) PER ICC ESR-3187, OR APPROVED EQUAL.
- B. WHERE PLANS, SECTIONS, OR DETAILS REQUIRE ANCHORAGE TO SOLID GROUTED MASONRY WITH ADHESIVE ANCHORS, USE THE HILTI HIT-HY 270 HYBRID ADHESIVE FOR MASONRY WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS-E-55 THREADED RODS (SEE NOTE #2 BELOW) PER ICC ESR-2682, OR APPROVED EQUAL.
- C. WHERE PLANS, SECTION, OR DETAILS REQUIRE ANCHORAGE TO CONCRETE OR SOLID GROUTED MASONRY WITH MECHANICAL OR EXPANSION ANCHORS, USE HILTI KWIK BOLT TZ2 (KB-TZ2) EXPANSION ANCHORS PER ICC ESR-4561 D. WHERE PLANS, SECTIONS, OR DETAILS REQUIRE NEW STEEL REINFORCING BARS TO BE

ANCHORED TO CONCRETE, USE THE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI

HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH CONTINUOUSLY DEFORMED REBAR PER ICC

- UNLESS OTHERWISE NOTED, THREADED ROD ANCHORS SHALL CONFORM TO HAS-E-55 STANDARD ASTM 1554
- ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER
- 4. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
- 5. FOR PROJECTS MEETING IBC 2012 OR LATER, ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION IS REQUIRED FOR ALL INSTALLERS OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION. THE HILTI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM (HAAICP) IS AN APPROVED EQUIVALENT.

CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

7. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND

WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

DISTANCES ARE MAINTAINED.

PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE

6. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO

8. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. NO EXISTING BARS MAY BE CUT OR REMOVED TO INSTALL ANCHORS. ADDITIONALLY, AND UNLESS EXACT LOCATIONS OF ALL EXISTING REINFORCEMENT IS LOCATED PRIOR TO DRILLING, THE USE OF A DIAMOND CORE BIT TO DRILL THE HOLES IS STRICTLY PROHIBITED. CONTRACTOR MAY RELOCATE ANCHORS TO AVOID EXISTING REINFORCEMENT PROVIDED MAXIMUM SPACING AND EDGE CLEARANCE



REVISIONS NUMBER DESCRIPTION DATE

BID SET

PROJECT NUMBER

02023.10 OWNER / PROJECT NAME / LOCATION

CITY OF WORCESTER

LINCOLN ES - ADA

UPGRADES PROJECT

WORCESTER, MA

GENERAL NOTES

DRAWING TITLE



Wakefield, Massachusetts 01880 781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

ARCHITECTS

178 Albion Street

Suite 240

STAMP

DRAWING INFORMATION

AS NOTED

09/18/2024

DRAWING NUMBER

CHECKED

DATE

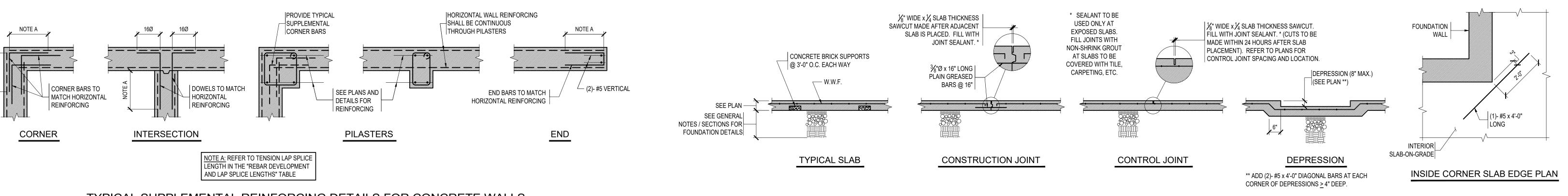
DRAWN BY GRS

ORIGINAL SHEET IS 30" x 42" c o p y r i g h t 2018 a l I r i g h t s r e s e r v e d

S0.01 **GENERAL NOTES** S0.02 TYPICAL DETAILS S0.03 TYPICAL DETAILS S1.01 PARTIAL FRAMING PLANS S2.01 SECTIONS S2.02 SECTIONS

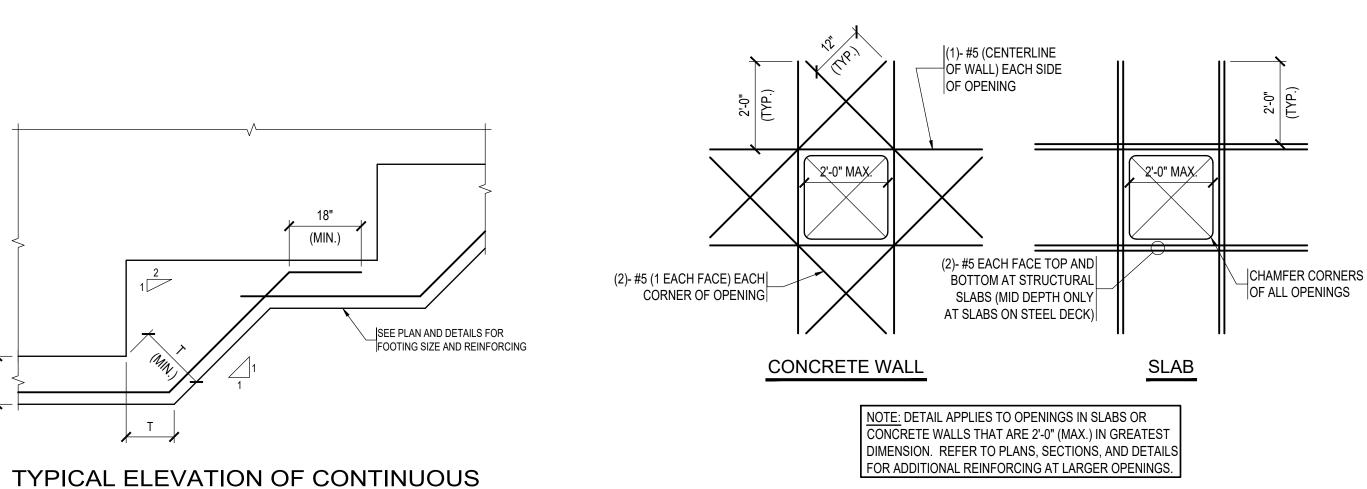
ORIGINAL SHEET IS 30" x 42" copyright 2018 all rights reserved





TYPICAL SUPPLEMENTAL REINFORCING DETAILS FOR CONCRETE WALLS

(FOR WALLS ≥ 10" WIDE)



TYPICAL DETAIL AT ADDED REINFORCING AT OPENINGS

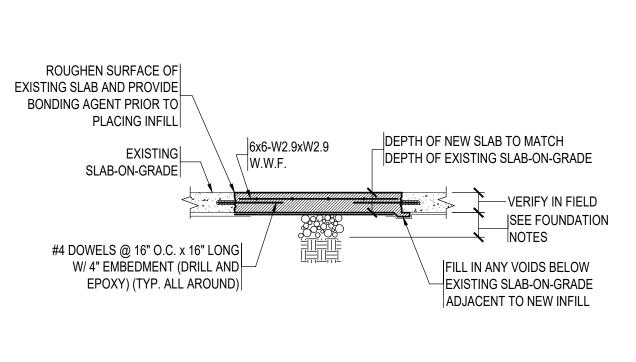
A CONSTRUCTION JOINT (OR A CONTROL CONSTRUCTION JOINTS FOR WALLS SHALL JOINT) SHALL BE LOCATED BETWEEN 6 x T BE SPACED NO GREATER THAN 40'-0" APART, AND 9 x T FROM WALL CORNERS, WHERE UNLESS CONTROL JOINTS ARE PROVIDED TO "T" IS THE WALL THICKNESS (ONE SIDE OF MEET THE SAME SPACING CORNER ONLY) NOTE A 2x4 KEY WITH BEVELED SIDES ADD DOWELS TO MATCH HORIZONTAL WALL REINFORCING (NOTE: ADDITIONAL DOWELS NOT REQUIRED IF WALL REINFORCING EXTENDS MINIMUM LAP LENGTH BEYOND JOINT) NOTE A: REFER TO TENSION LAP SPLICE LENGTH IN THE "REBAR DEVELOPMENT AND LAP SPLICE LENGTHS" TABLE

TYPICAL WALL CONSTRUCTION JOINT DETAIL

CUT OUT EXISTING SLAB FOR NEW PIPING AS SHOWN ON ARCHITECTURAL AND PLUMBING DRAWINGS. FILL AREA OF TRENCH BELOW SLAB WITH STRUCTURAL FILL AFTER NEW PLUMBING IS IN PLACE. EXISTING 6x6-W2.9xW2.9 W.W.F. -#4 DOWELS @ 16" O.C. x 16" | NEW COMPACTED LONG WITH 4" EMBEDMENT STRUCTURAL FILL (DRILLED AND EPOXIED) (TYP. ALL AROUND) NEW PLUMBING

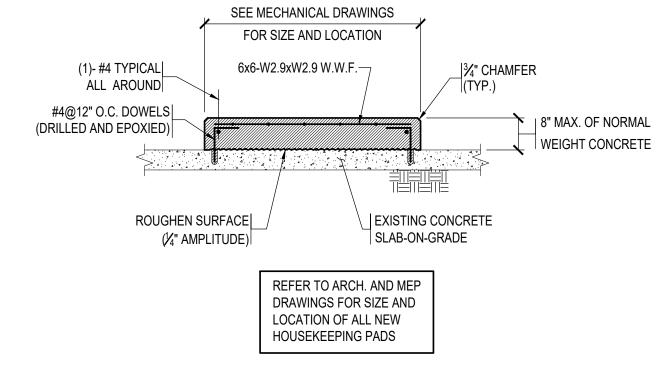
TYPICAL SOIL-SUPPORTED SLAB-ON-GRADE DETAILS

TYPICAL DETAIL AT NEW PLUMBING UNDER EXISTING SLAB-ON-GRADE



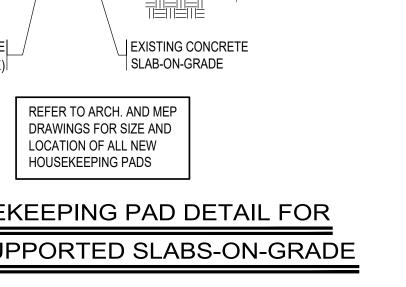
STEPPED WALL FOOTING

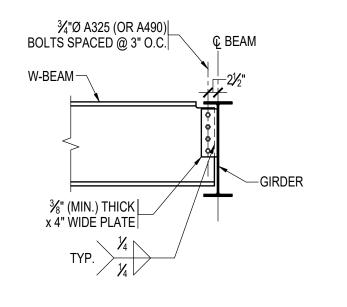




TYPICAL HOUSEKEEPING PAD DETAIL FOR **EXISTING SOIL-SUPPORTED SLABS-ON-GRADE**

MINIMUM SHEAR CONNECTION





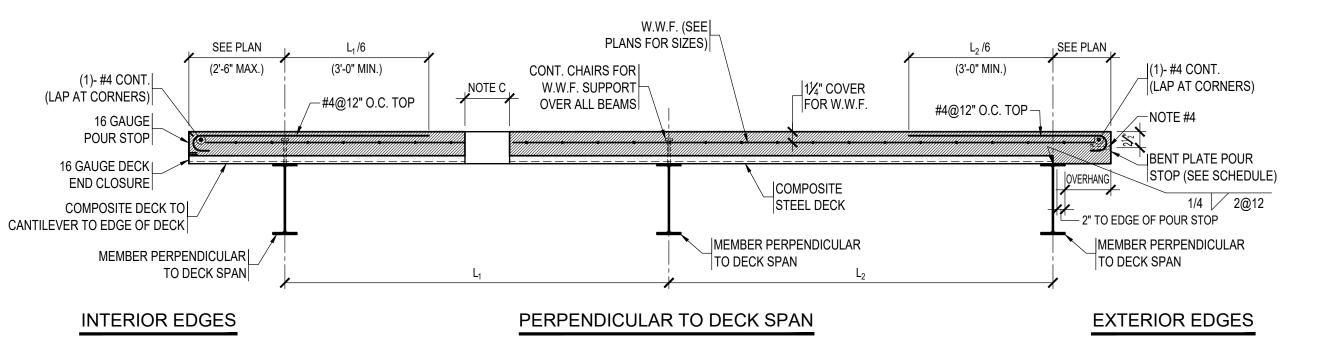
- 1. SIMILAR AT BEAM TO COLUMN CONNECTIONS.
- 2. THE STEEL FABRICATOR SHALL DESIGN ALL CONNECTIONS FOR SHEAR REACTIONS GIVEN ON PLANS OR IN SECTIONS. IF NO REACTION IS GIVEN, THE MINIMUM SHEAR CAPACITIES IN THE TABLE TO THE RIGHT SHALL BE MAINTAINED.
- 3. THE STEEL FABRICATOR HAS THE OPTION TO USE ALTERNATE CONNECTION TYPES IN LIEU OF SINGLE PLATE CONNECTIONS, PROVIDED THAT THE MINIMUM SHEAR CAPACITIES AND NUMBERS OF BOLTS AS DEFINED IN THE TABLE ARE MAINTAINED, AND THE STEEL FABRICATOR PROVIDES FULL CALCULATIONS OR REFERENCES TO AISC STANDARD CONNECTION TABLES.

4. WHERE SHORT-SLOTTED HOLES ARE USED, THE HOLE MAY BE HORIZONTALLY

- SLOTTED IN EITHER THE BEAM WEB OR THE SHEAR PLATE AT THE
- 5. MINIMUM SHEAR CONNECTION REQUIREMENTS ARE FOR ALLOWABLE STRENGTH DESIGN (ASD).

REQUIREMENTS (ASD LOADS)					
BEAM DEPTH MINIMUM SHEAR CAPACITY (KIPS)		MINIMUM NUMBER OF ROWS OF BOLTS	BOLT HOLE T		
W10s AND LESS	16.5	2	STANDARD (SHORT-SLOT		
W12s AND W14s	28.8	3	STANDARD (SHORT-SLOT		
W16s AND W18s	41.5	4	STANDARD (SHORT-SLOT		
W21s	54.1	5	STANDARD SHORT-SLOT		
W24s	66.5	6	SHORT-SLOT		
W27s	78.7	7	SHORT-SLOT		
W30s	90.8	8	SHORT-SLOT		
W33s	103	9	SHORT-SLOT		
W36s	115	10	SHORT-SLOT		
W40s	126	11	SHORT-SLOT		

TYPICAL W-BEAM TO BEAM/COLUMN SHEAR CONNECTION



SEE PLAN L	L ₁ /6	L ₁ /6	L ₂ /6		L ₂ /6	SEE PLAN
#4@12" O.C. TOP —	(3'-0" MIN.)	(3'-0" MIN.)	(3'-0" MIN.)		(3'-0" MIN.)	#4@12" O.C. TOP
(1)- #4 CONT. (LAP AT CORNERS) LIGHT GAUGE OR BENT PLATE POUR STOP (SEE SCHEDULE)	CONT. CHAIRS FOR W.W.F. SUPPORT OVER ALL BEAMS	NOTE #B	#5@12" TOP OVER INTERIOR GIRDERS	1½" COVER FOR W.W.F.	CONT. CHAIRS FOR W.W.F. SUPPORT OVER ALL BEAMS	(1)- #4 CONT. (LAP AT CORNERS) NOTE #4
. 301.0.0. (022 301.23327)				<u> </u>		S IDENT PLATE POUR
0VERHANG 1/4 2@12 2" TO EDGE OF POUR STOP	SEE PLAN FOR COMPOSITION	E	COMPOS STEEL DE	'''	F. (SEE S FOR SIZES)	BENT PLATE POUR STOP (SEE SCHEDULE) 1/4 2@12 2" TO EDGE OF POUR STOP
MEMBER PARALLEL TO DECK SPAN		MBER PERPENDICULAR DECK SPAN	MEMBER PARALLE TO DECK SPAN	$\overline{}$	MBER PERPENDICULAR DECK SPAN	MEMBER PARALLEL TO DECK SPAN
INTERIOR EDGES		PARALLEL TO	DECK SPAN			EXTERIOR EDGES

POUR STOP SCHEDULE					
SLAB OVERHANG	POUR STOP SIZE				
BEYOND EDGE OF FLANGE	INTERIOR EDGES	EXTERIOR EDGES			
< 3"	16 GAUGE	5√16" BENT PLATE			
3" TO 5"	14 GAUGE	5/₁6" BENT PLATE			
5" TO 8"	12 GAUGE	5/₁6" BENT PLATE			
8" TO 11"	10 GAUGE	5/₁6" BENT PLATE			
11" TO 13"	5⁄ ₁₆ " BEN	T PLATE			
13" TO 16"	3⁄8" BEN	T PLATE			
16" TO 20"	½" BENT PLATE				
> 20"	REFER TO	SECTIONS			

TABLE ABOVE INDICATES MINIMUM POUR STOP REQUIREMENTS. REFER TO SECTIONS AND DETAILS FOR FURTHER REQUIREMENTS.

2. IN THE CASE OF CONFLICT BETWEEN THE SCHEDULE AND A DETAIL, THE DETAIL SHALL GOVERN.

PROVIDE BENT PLATE POUR STOPS AT ALL EXTERIOR SLAB AND ALL STAIR OPENING EDGES, UNLESS OTHERWISE NOTED. AT OTHER INTERIOR OPENINGS, PROVIDE TYPICAL LIGHT GAUGE POUR STOP, UNLESS OVERHANG DIMENSION REQUIRES A BENT

PROVIDE $\frac{3}{4}$ "Ø x 6" LONG HEADED STUDS @24" O.C. WELDED TO ALL BENT PLATES, U.O.N. ON PLAN OR SECTIONS (21/2" FROM TOP OF CONCRETE TO CENTER OF STUD).

NOTES:

A. TYPICAL FOR ALL SUPPORTED SLABS UNLESS SHOWN OTHERWISE.

B. DECK MUST BE IN CONTACT WITH GIRDER TO INSURE THAT FLANGE DOES NOT FALL UNDER HIGH CELL, RESULTING IN UNBRACED BEAM. WHEN VOIDS OCCUR OVER A BEAM FLANGE, CUT DECK AS REQUIRED AND PROVIDE LIGHT GAUGE DECK CLOSURE.

UNFRAMED OPENINGS ARE TO BE BLOCKED OUT WITH FORMWORK. DECK SHALL BE CUT AFTER CONCRETE IS CURED.

TYPICAL REINFORCEMENT AND EDGE CONDITION DETAIL FOR DECK SUPPORTED COMPOSITE SLABS

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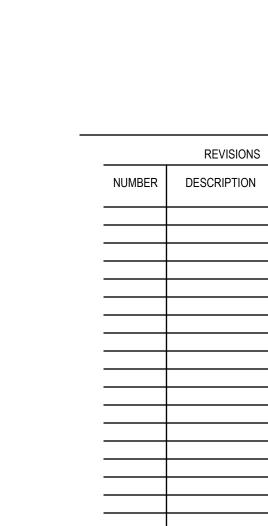
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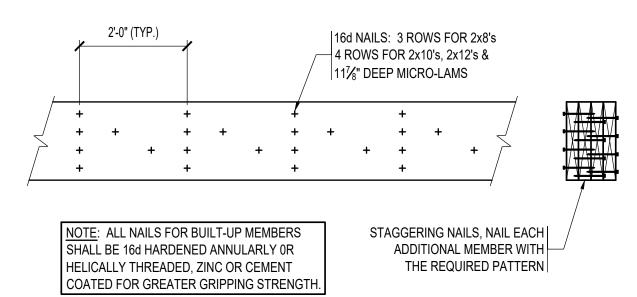
<u>MEMBER</u>	OVERALL WIDTH x DEPTH	<u>STANDARD</u>	CONCEALED FLANGE	SKEWABLE	SLOPED	SKEWED AND SLOPED
2x6	1½"x5½"	LUS26	LUC26Z	U26	U26	U26
2x8	1½"x7¼"	LUS26	LUC26Z	U26	U26	U26
2x10	1½"x9¼"	LUS28	LUC210Z	U210	U210	U210
2x12	1½"x11¼"	LUS210	LUC210Z	U210	U210	U210
2x14	1½"x13¼"	LUS212	LUC212Z	U212	U212	U212
(2)-2x6s	3"x5½"	LUS26-2	HUC26-2	U26-2	U26-2	U26-2
(2)-2x8s	3"x7½"	LUS28-2	HUC28-2	U26-2	U26-2	U26-2
(2)-2x10s	3"x9½"	LUS28-2	HUC210-2	U210-2	U210-2	U210-2
(2)-2x12s	3"x11½"	LUS210-2	HUC210-2	U210-2	U210-2	U210-2
(2)-2x14s	3"x13½"	LUS212-2	HUC212-2	U212-2	U212-2	U212-2
(3)-2x10s	4½"x9¾"	LUS28-3	HUC210-3	U210-3	U210-3	U210-3
(3)-2x12s	4½"x11½"	LUS210-3	HUC212-3	U210-3	U210-3	U210-3
TRUE EX. 2x8	2"x8"	U26R	APLH26R	U26R	U26R	U26R
TRUE EX. (2)-2x8s	4"x8"	U46R	HUC4.12/9	U46R	U46R	U46R
TRUE EX. (2)-2x12s	4"x12"	U410R	HUC4.12/11	U410R	U410R	U410R

STAGGERING NAILS, NAIL EACH ADDITIONAL MEMBER WITH THE REQUIRED PATTERN (3)-2x4 (MIN.) BUILT-UP COLUMN 16d COMMON NAILS TYPICAL NAILING WHERE POSSIBLE BUILT-UP AND SOLID COLUMNS SHALL BE CONSTRUCTED INTEGRALLY WITH WALL FRAMING 16d GALV. NAILS [\] 2x4 SOLE PLATE 2 PER STUD (TYP.)

TYPICAL BUILT-UP COLUMN DETAIL

NEW ¾" THICK SHEAR PLATE WELDED TO EXISTING BEAM (DEPTH OF PLATE = DEPTH OF NEW BEAM MINUS 3")	PROVIDE SHORT-SLOTTED HOLES IN WEB OF NEW BEAM OR IN NEW SHEAR PLATE
	1/4
	ING BEAM
NOTE: SIMILA	R AT NEW BEAM TO

EXISTING STEEL COLUMN CONNECTIONS TYPICAL NEW W-BEAM TO **EXISTING BEAM CONNECTION**



TYPICAL BUILT-UP BEAM DETAIL

MINIMUM CONCRETE WALL REINFORCING SCHEDULE						
WALL THICKNESS	REINFORCING LOCATION	HORIZONTAL REINFORCING	VERTICAL REINFORCING			
6" - 8"	CENTERED ON WALL	#4 @ 12"	#4 @ 18"			
9" - 11"	EACH FACE	#4 @ 18"	#4 @ 18"			
12" - 16"	EACH FACE	#4 @ 12"	#4 @ 18"			

#5 @ 18"

NOTES:

1. WALLS OF FRACTIONAL THICKNESS SHALL BE REINFORCED AS WALLS OF THE NEXT HIGHEST THICKNESS.

17" - 20" EACH FACE #5 @ 15"

2. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING AT WALL THICKNESS NOT INDICATED IN THIS SCHEDULE.

REE	BAR DEVEL	OPMENT A	ND	LA	P	SPL	_IC	ΕL	EN	GT	HS
LENGTHS (IN INCHES) BASED ON fc=4000 PSI NORMAL WEIGHT CONCRETE											
		BAR SIZE BAR TYPE	#3	#4	#5	#6	#7	#8	#9	#10	#11
1ENT H	TENCION	TOP BARS	19	25	31	37	54	62	70	79	87
DEVELOPMENT LENGTH	TENSION	OTHER BARS	15	19	24	29	42	48	54	61	67
DEVE	COMPRESSION	ALL BARS	8	10	12	15	17	19	22	25	27
CE H	TENCION	TOP BARS	25	33	41	49	71	81	91	102	114
AP SPLICE LENGTH	TENSION	OTHER BARS	19	25	31	37	54	62	70	79	87
LAP LE	COMPRESSION	ALL BARS	12	15	19	23	27	30	34	39	43

NOTES: LENGTHS ARE BASED ON f_y = 60 KSI, f_C = 4000 PSI, AND NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS SPECIFIED, MULTIPLY THE ABOVE TENSION VALUES

2. TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS PLACED IN THE MEMBER BELOW THE BAR.

TENSION LAP SPLICE LENGTHS ARE FOR "CLASS B" SPLICES PER ACI 318. LESSER SPLICE LENGTHS MAY BE SUBMITTED BY THE CONTRACTOR PROVIDED FULL CALCULATIONS AND REFERENCE TO THE APPLICABLE PORTIONS OF THE LATEST EDITION OF ACI 318 ACCOMPANY

. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, LAP SPLICE LENGTH SHALL BE AS REQUIRED FOR THE LARGEST BAR.

THE SUBMITTAL.

LOOSE STEEL LINTEL SCHEDULE (U.O.N. ON PLAN)					
MASONRY OPENING	LINTEL SIZE				
UP TO 3'-0"	L 3½ x 3½ x 5√ ₁₆				
3'-1" TO 4'-6"	L 4 x 3½ x 5√ ₁₆ (4" LEG VERT.)				
4'-7" TO 6'-0"	L 5 x 3½ x 5√16 (5" LEG VERT.)				
6'-1" TO 8'-0"	L 6 x 3½ x 5√6 (6" LEG VERT.)				

 $L7x4x\frac{3}{8}$ (7" LEG VERT.)

NOTES:

8'-1" TO 10'-0"

. PROVIDE LINTELS OVER ALL OPENING EXCEPT WHERE LINTEL BLOCKS ARE PROVIDED.

PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. FOR 6" WALLS PROVIDE TEE OR BUILT UP SECTION WITH PROPERTIES (Ix, Zx) EQUAL TO OR GREATER THAN 1.5 TIMES ANGLE PROPERTIES FOR 4" WALL THICKNESS.

3. PROVE 8" OF BEARING AT EACH END OF ALL LINTELS.

4. PROVIDE GALVANIZED STEEL AT ALL EXTERIOR WALLS.

_		CRETE MAS	SONRY WALL EDULE	
WALL LOCATION	WALL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING	
ALL EXTERIOR WALLS, STAIR SHAFTS AND	6"	#4 @ 32" O.C.	(2)- #4 @ 48" O.C. IN BOND BEAMS	
ELEVATOR SHAFTS; ALL LOAD BEARING	8"	#6 @ 24" O.C.	(2)- #4 @ 48" O.C. IN BOND BEAMS	
WALLS (UNLESS OTHERWISE NOTED)	12"	#6 @ 16" O.C.	(2)- #4 @ 48" O.C. IN BOND BEAMS	
ALL OTHER INTERIOR CMU WALLS	ALL SIZES	#5 @ 48" O.C.	9 GAUGE JOINT REINFORCING @ 16" O.C.	
REFER TO PLANS A				
SEE SCHEDULE		<u> </u>	SEE SC	HEDULE
VERTICAL REINFORCING PROVIDE 48 DIA. LAP AT ALL BAR SPLICES (ALL CELLS GROUTED SOLID - TYPICAL)		HORIZONT. REINFORCI (IN BOND BEA	AL INNER HORIZ BARS TO EXTEN	ZONTAL ND AND
VERTICAL REINFORCING PROVIDE 48 DIA. LAP AT ALL BAR SPLICES (ALL CELLS		REINFORCI	AL INNER HORIZ BARS TO EXTEN HOOK AT CO	ZONTAL ND AND
VERTICAL REINFORCING PROVIDE 48 DIA. LAP AT ALL BAR SPLICES (ALL CELLS GROUTED SOLID - TYPICAL)		REINFORCI (IN BOND BEA	AL INNER HORIZ BARS TO EXTEN HOOK AT CO	CONTAL ND AND RNERS

NEW CONCRETE LID AND COMUNICATION CONTRACTOR (SELOW)

NEW 3'-6" WIDE OPNG. UP

MASONRY WALL (ABOVE)

THRU EXISTING 12"

NEW OPNG'S BELOW W/

LINTELS (SEE SCHEDULE)

ackslash New Loose Steel $\,-\!-\!-$

4" ± DEEP SLAB (TYP.)

EXISTING T.O.C ELEVATION

FIRST FLOOR FRAMING PART PLAN

= 546'-5" ±

SOUZA, TRUE AND PARTNERS INC
STRUCTURAL ENGINEERS

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LEXINGTON, MA 02421

(617) 926 - 6100

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UPGRADES PROJECT

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PARTIAL FRAMING PLANS

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...

T.O. NEW MASONRY WALL ELEVATION = 559'-11" ±

NEW LOOSE STEEL LINTELS OVER NEW

ELEVATION = 558-10" ±

FIRST FLOOR CEILING FRAMING PART PLAN

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NEW OPNG'S BELOW W/

LINTELS (SEE SCHEDULE)

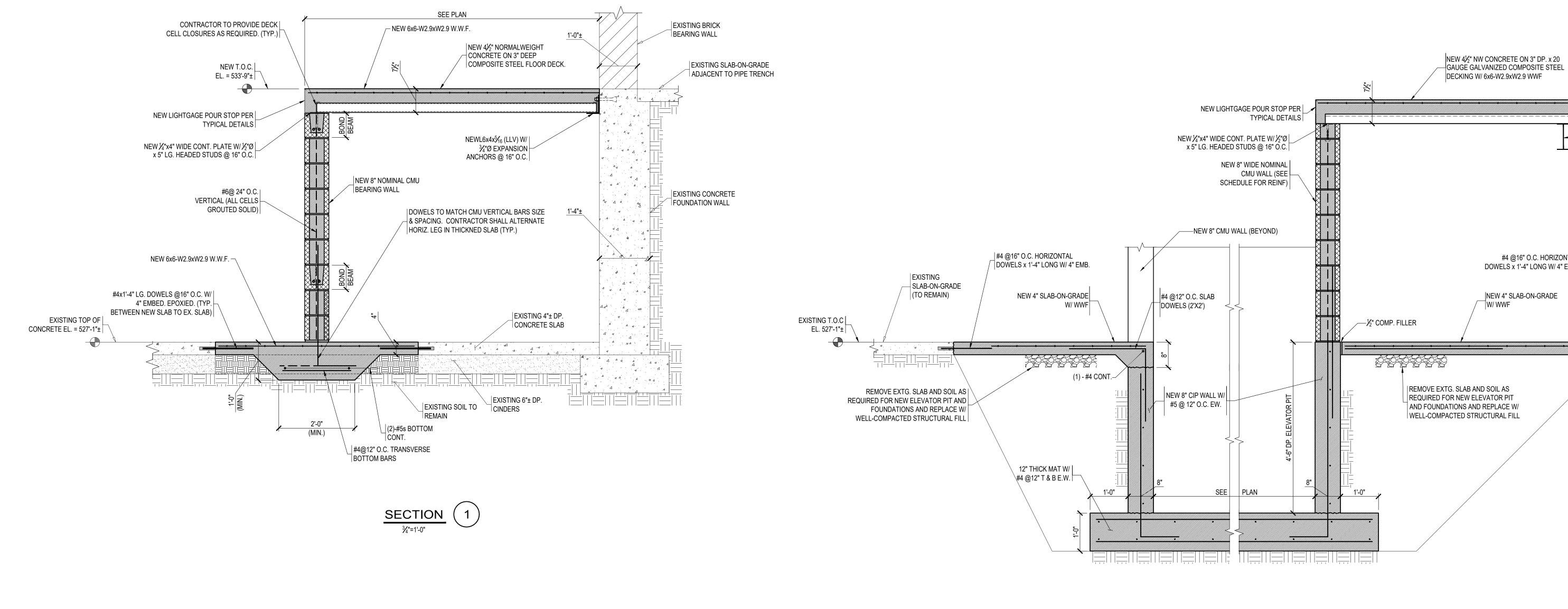
— NEW LOOSE STEEL ——

EX. 2x14 WOOD JOISTS @ | 16" O.C. (V.I.F)

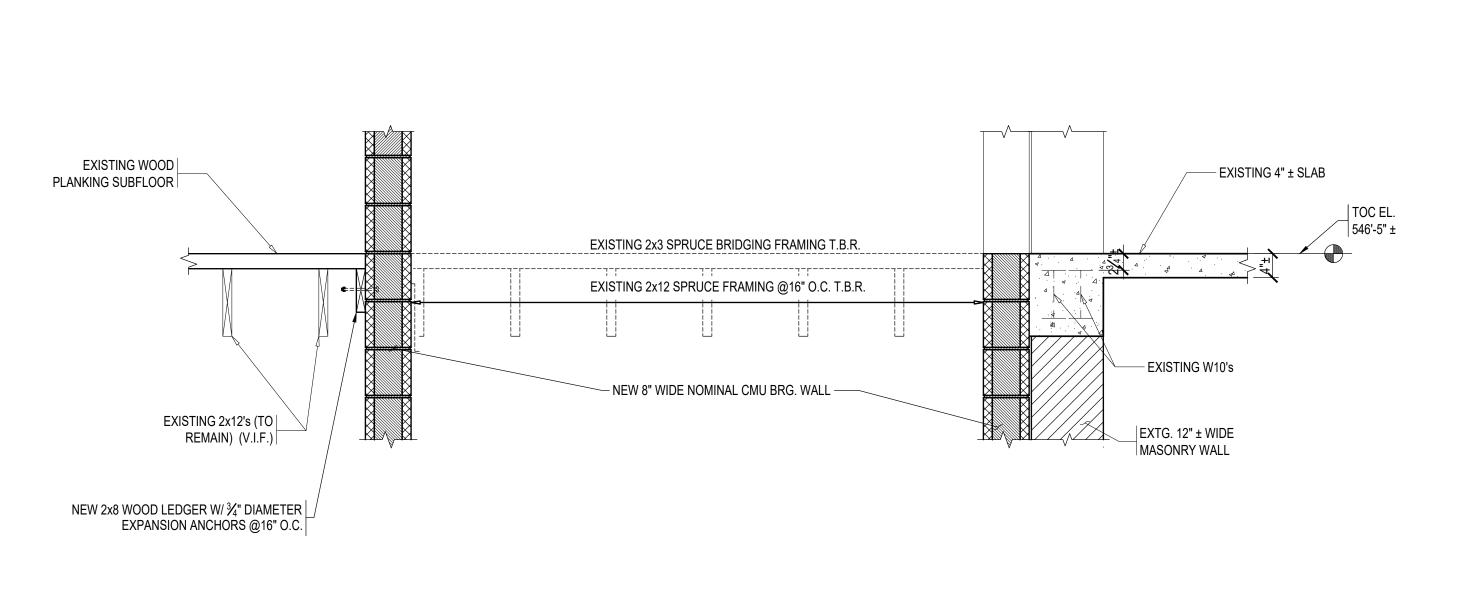
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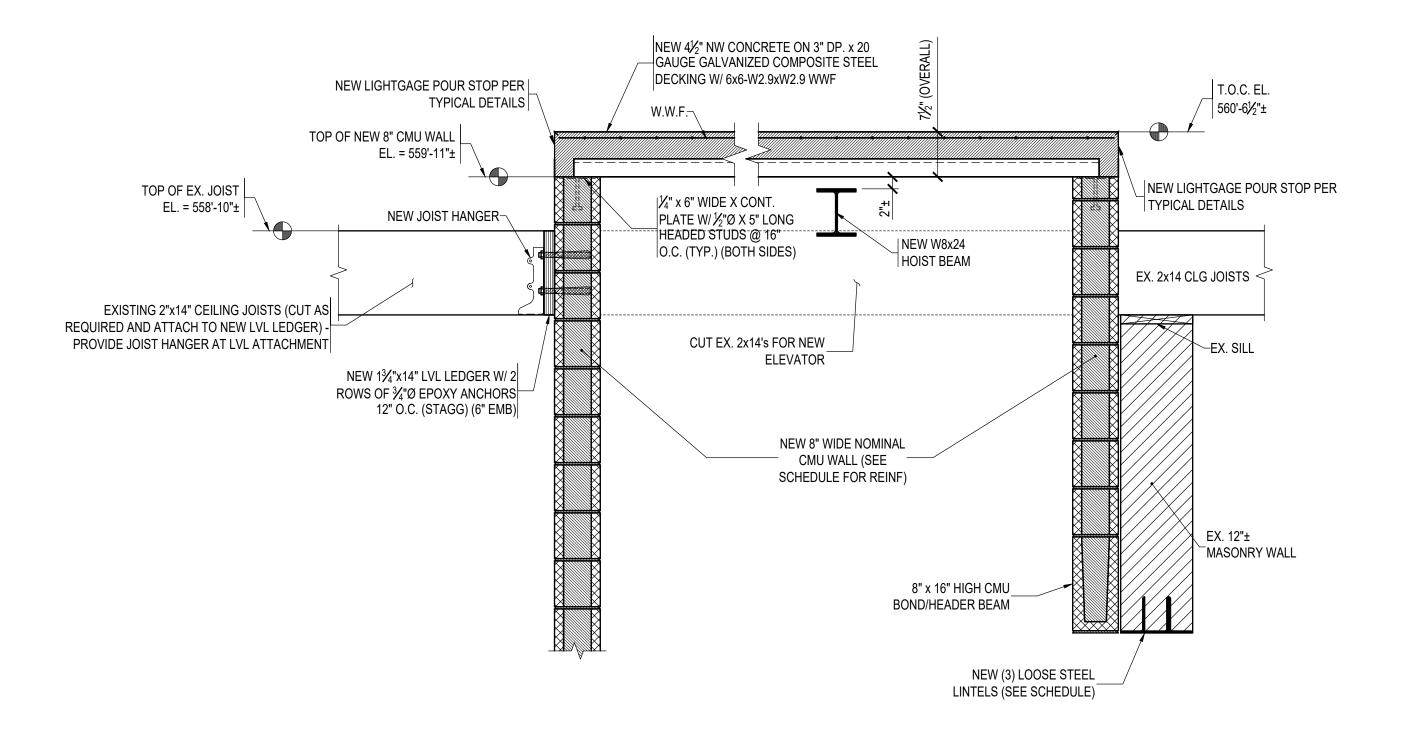
533'-9"±



-NEW W BEAM (SEE PLAN) #4 @16" O.C. HORIZONTAL | DOWELS x 1'-4" LONG W/ 4" EMB. EXISTING SLAB-ON-GRADE (TO REMAIN) NEW 4" SLAB-ON-GRADE EXISTING T.O.C / EL. 527'-1"± WELL-COMPACTED STRUCTURAL FILL



<u>SECTION</u> (3)



<u>SECTION</u> 4

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 $\frac{\mathsf{SECTION}}{\frac{3}{4}^{"=1'-0"}} \ \ \mathbf{4}$



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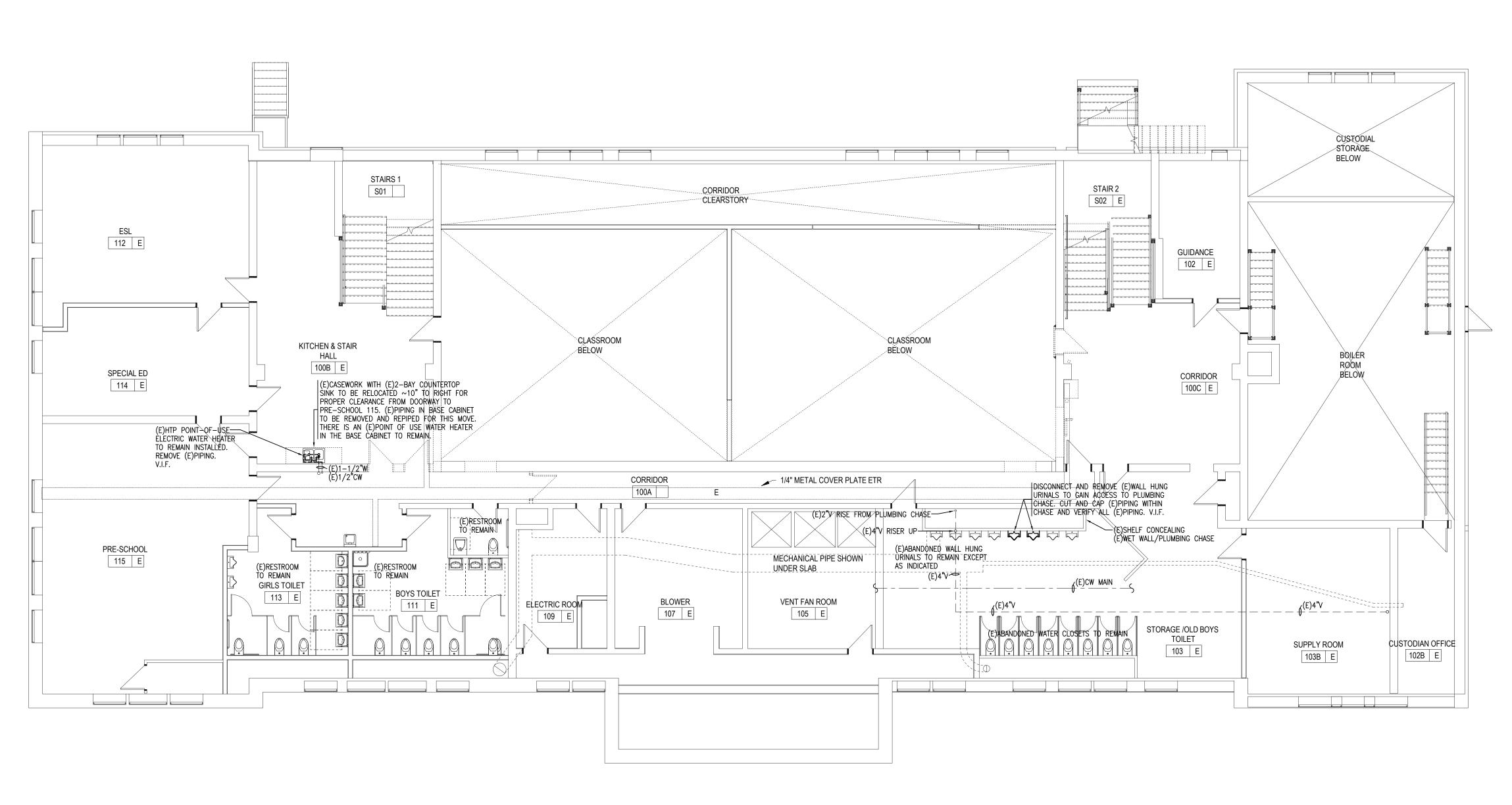
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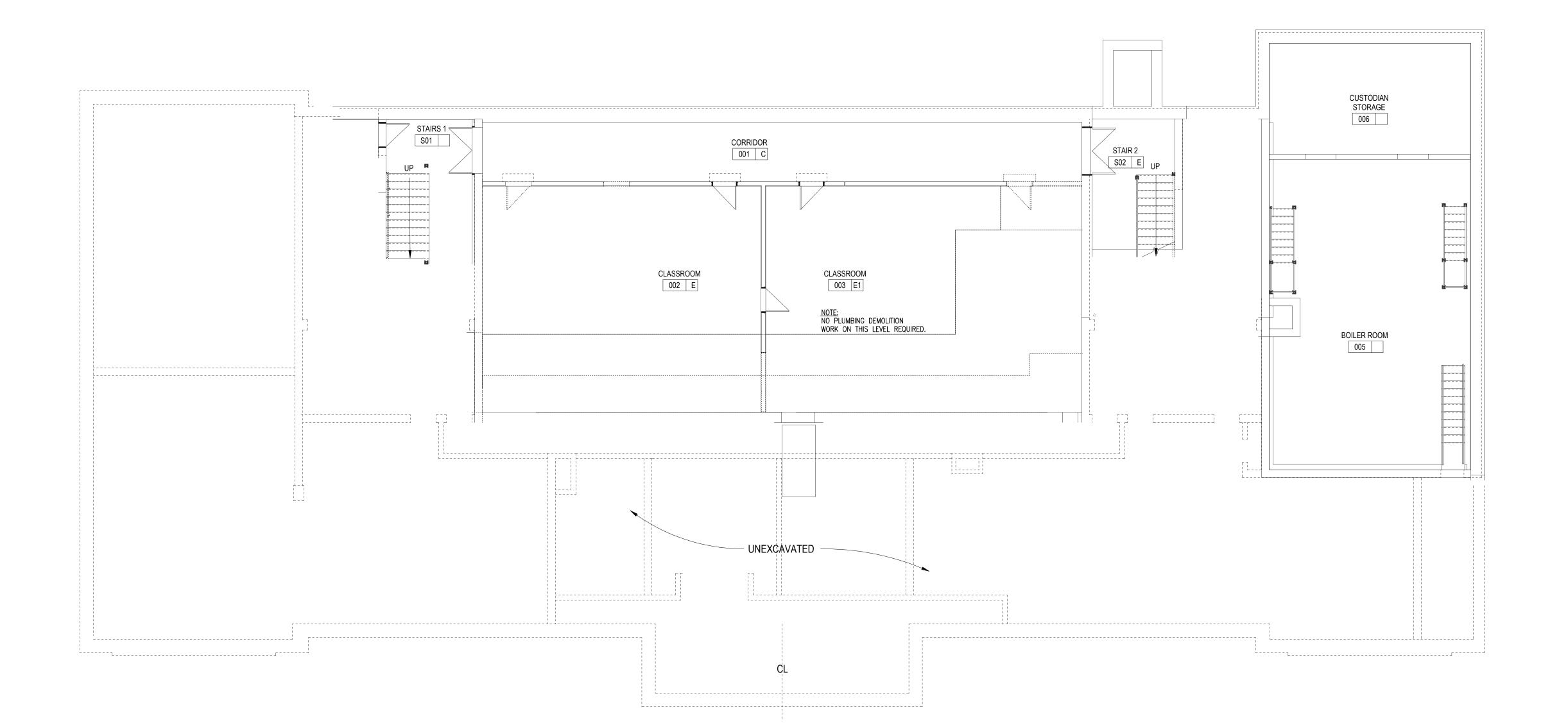
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<u>SECTION</u> 5



2 INTERMEDIATE LEVEL PLUMBING DEMOLITION FLOOR PLAN
1/8" = 1'-0"



1 LOWER LEVEL PLUMBING DEMOLITION FLOOR PLAN

1/8" = 1'-0"



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WORCESTER, MA

SCHOOL

PLUMBING DEMOLITION
FOR BASEMENT AND
INTERMEDIATE LEVEL



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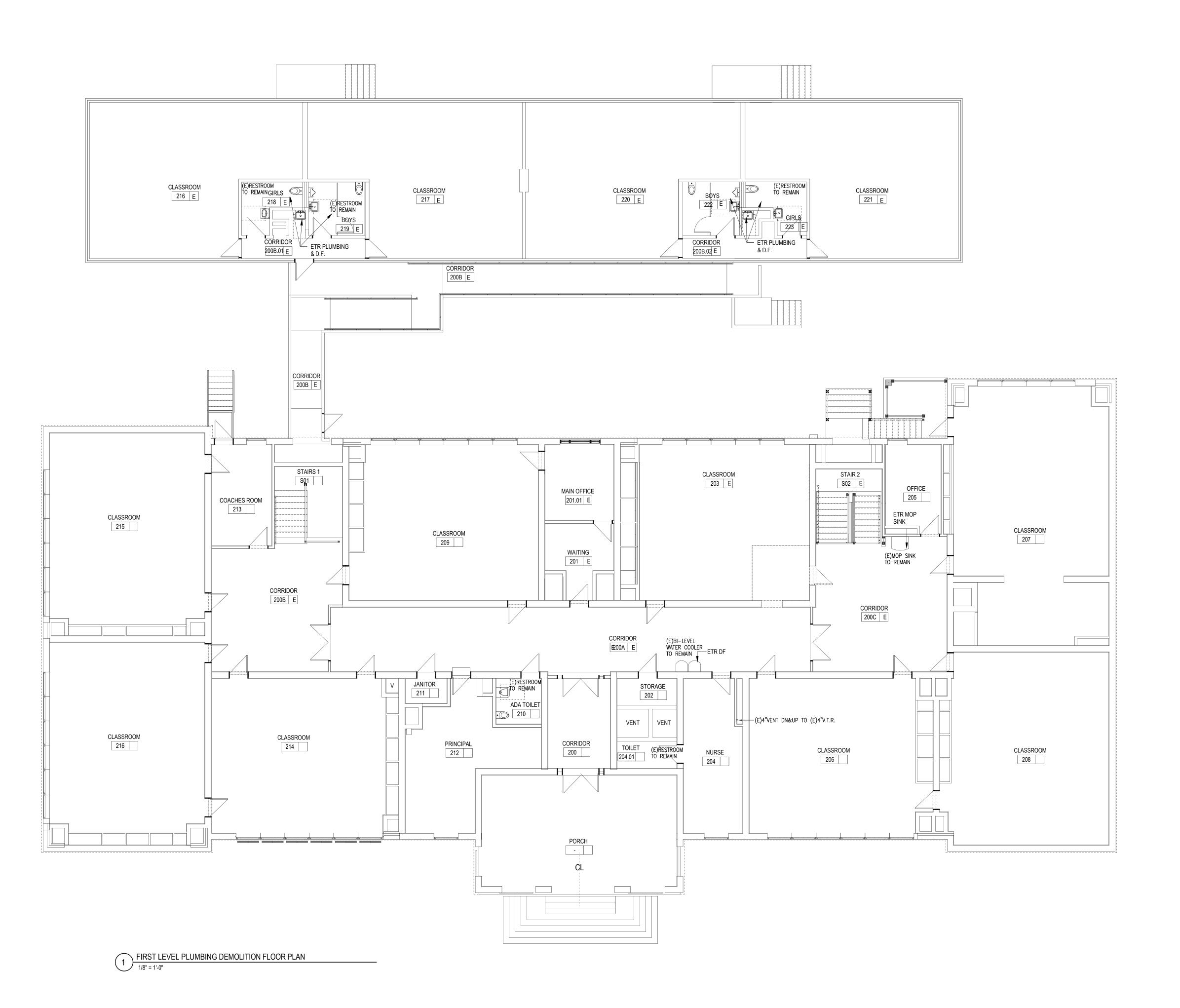
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PLUMBING DEMOLITION
FOR FIRST LEVEL



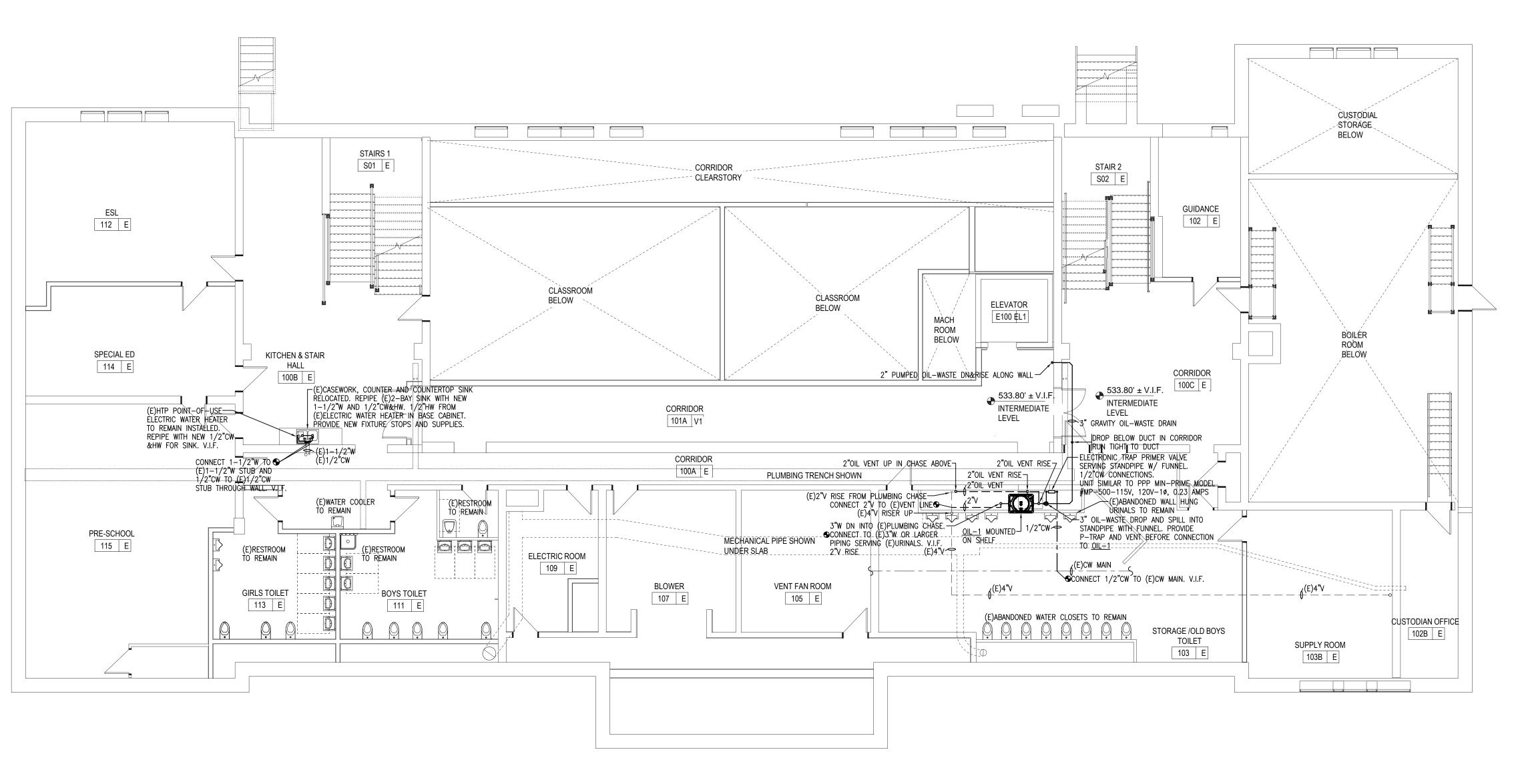
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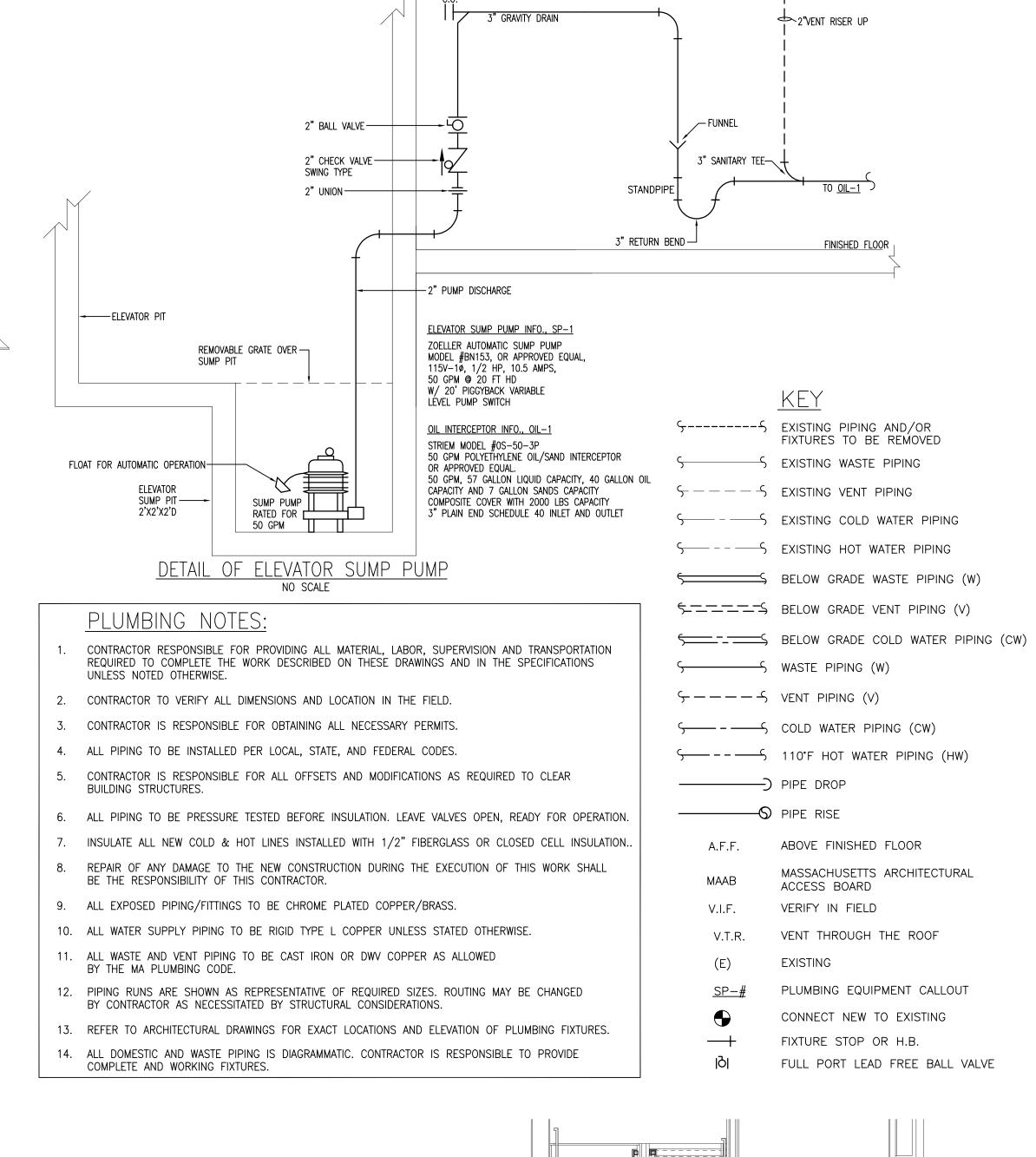
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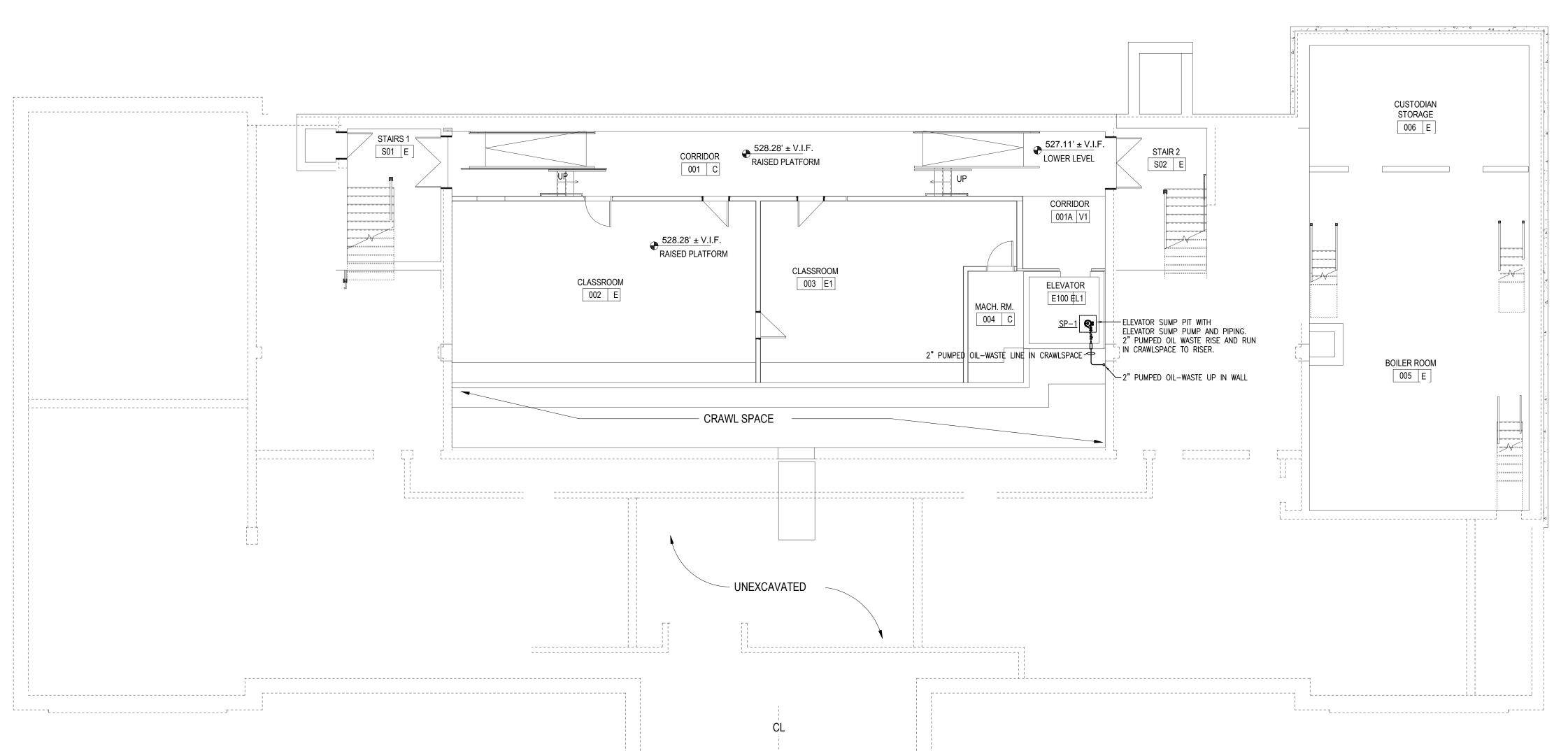
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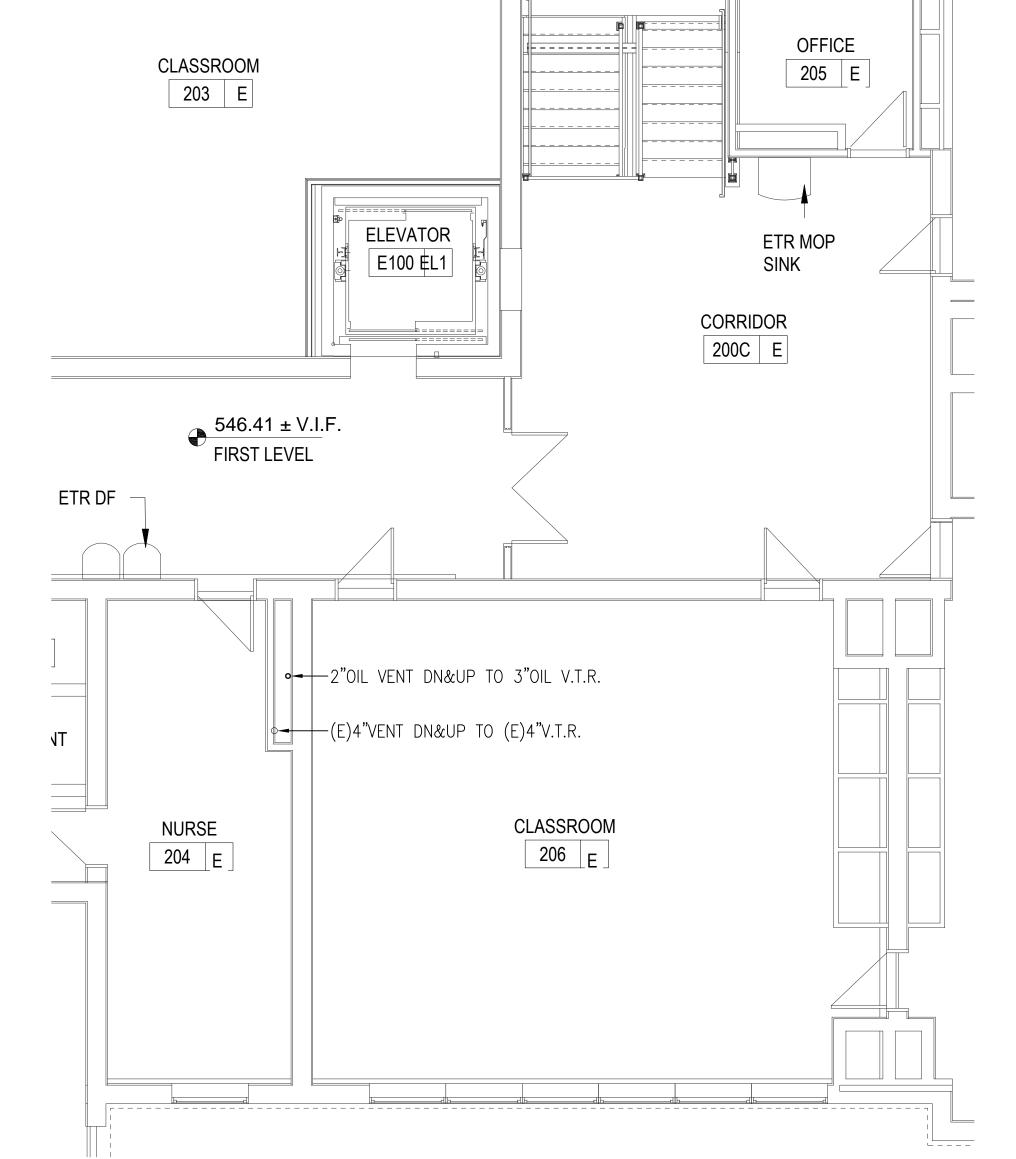
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PARTIAL FIRST FLOOR PROPOSED PLUMBING FLOOR PLAN

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PROPOSED
PLUMBING
FLOOR PLANS



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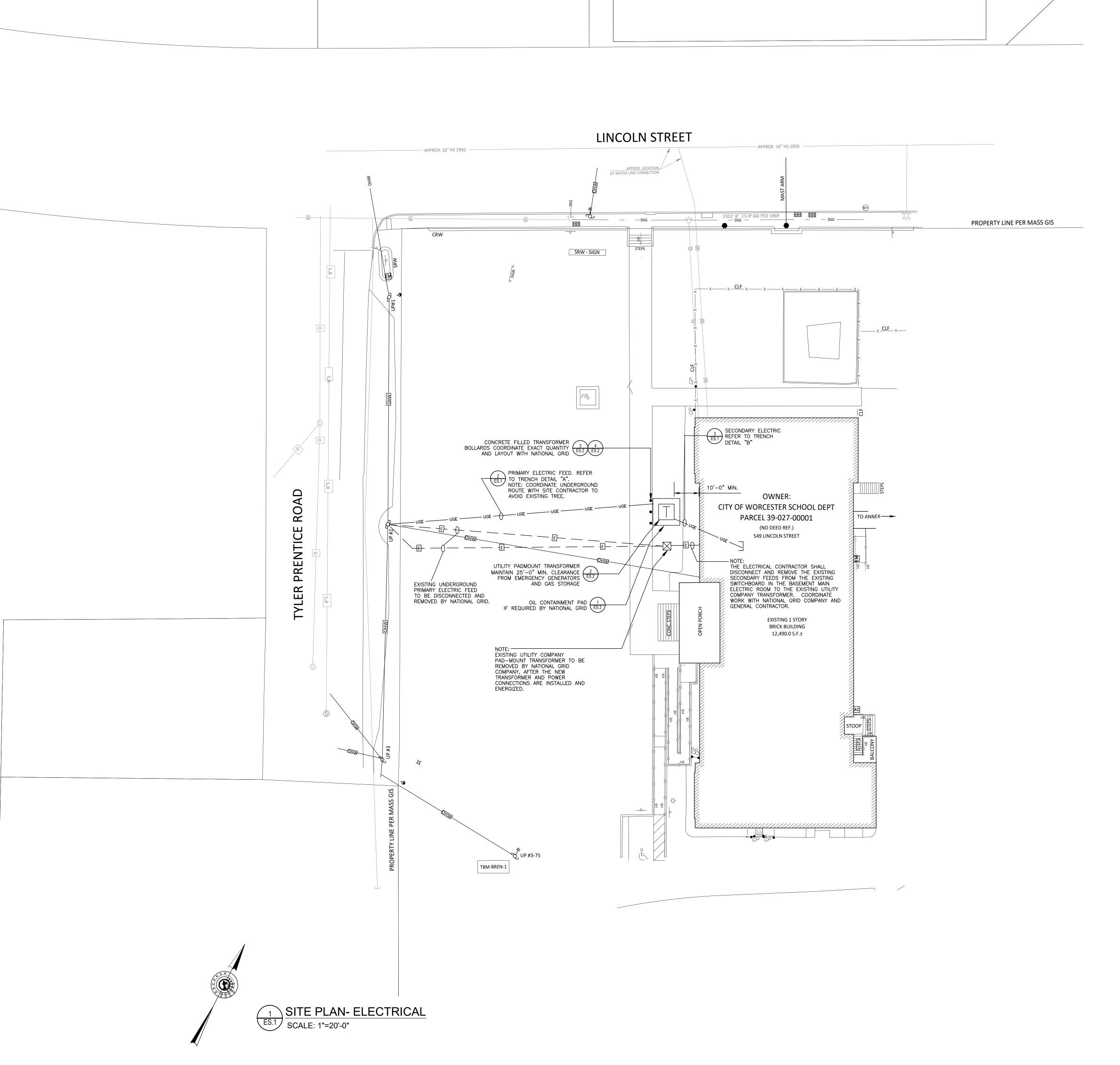
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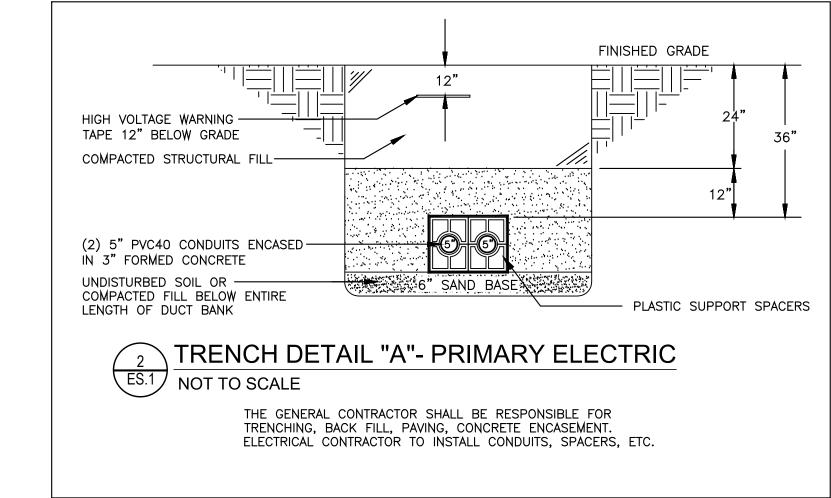
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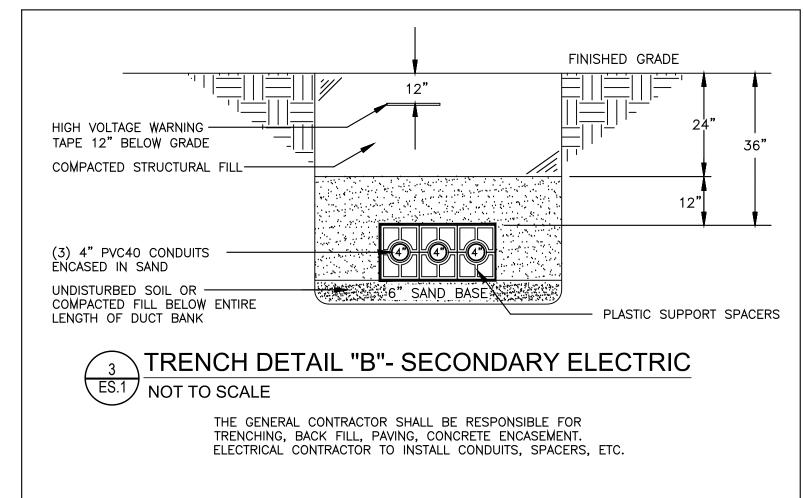
2 INTERMEDIATE LEVEL PROPOSED PLUMBING FLOOR PLAN

P1.01 SCALE: 1/8" = 1'-0"



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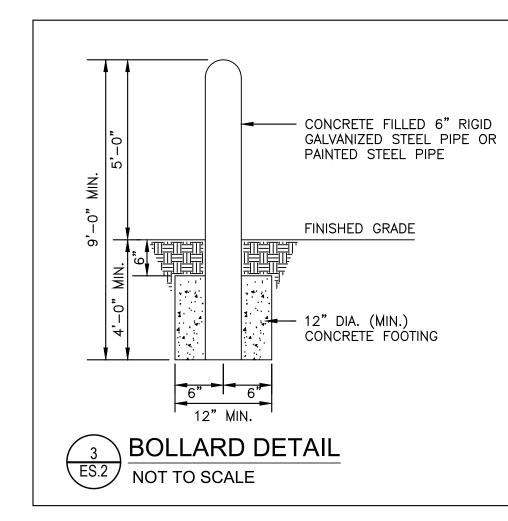
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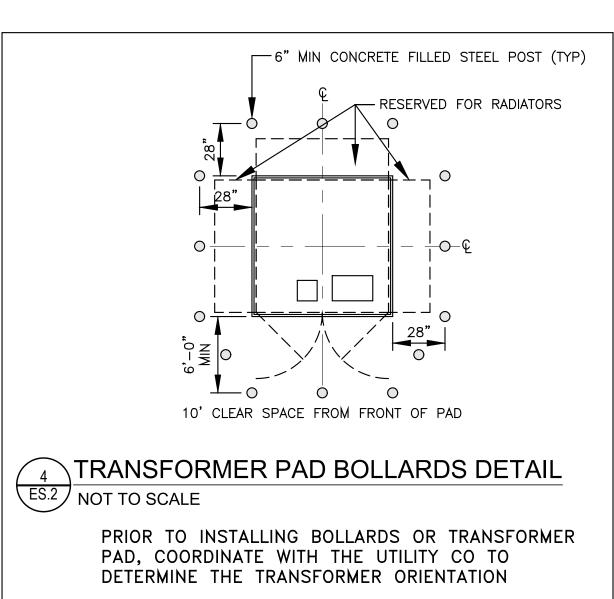
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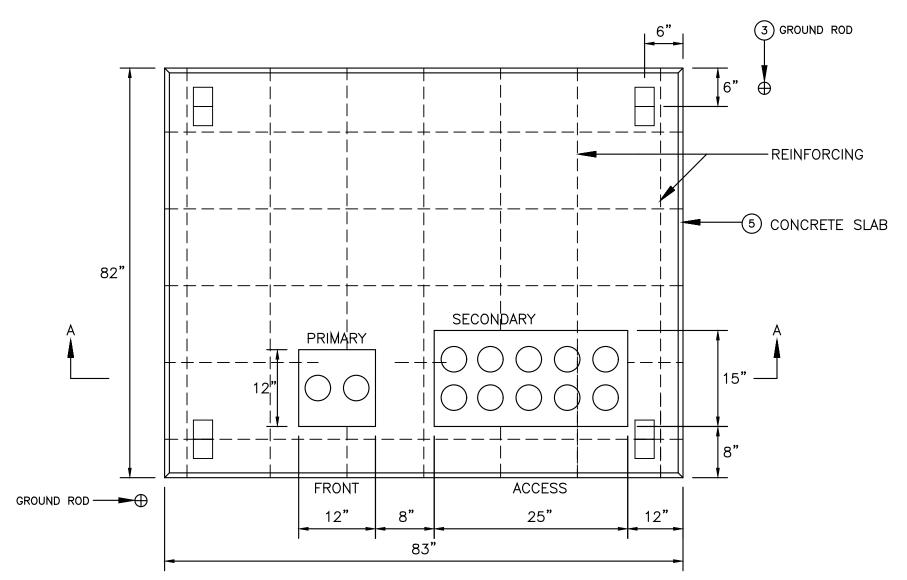
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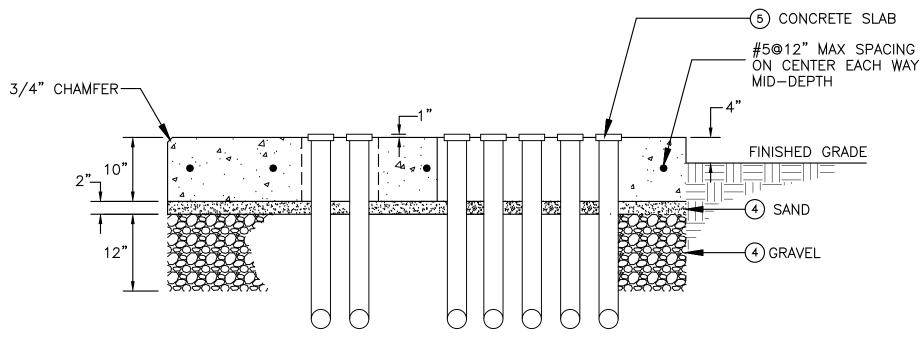
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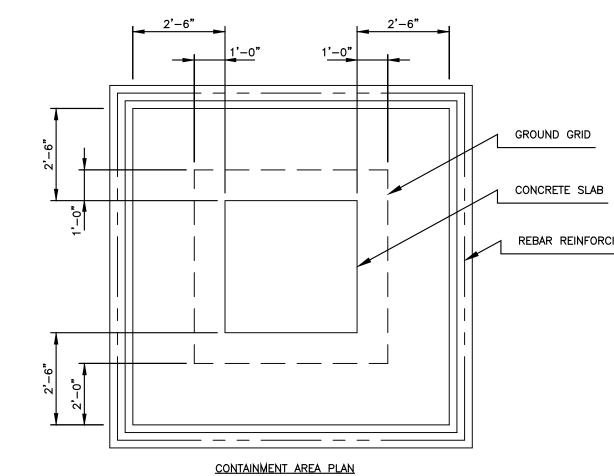


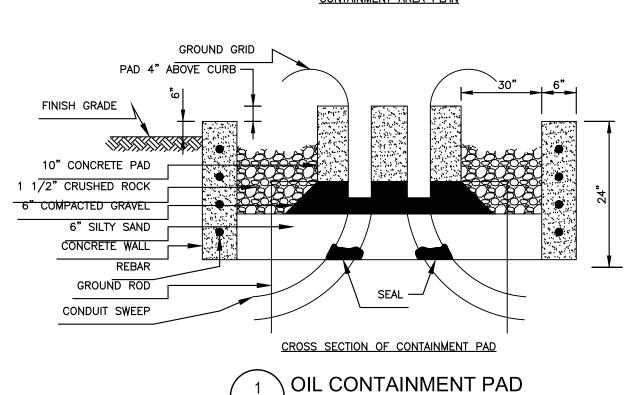




SECTION A-A TRANSFORMER PAD 750-2500KVA DETAIL ES.2 NOT TO SCALE

- THIS STANDARD COVERS SPECIFICATIONS FOR THE CONSTRUCTION OF THE PADMOUNT TRANSFORMER FOUNDATION AND GROUNDING. NOTE: GROUNDING BY ELECTRICAL CONTRACTOR. CONDUIT: INSTALL AS SHOWN BEFORE SLAB IS POURED. USE 36" BENDS, WITH COUPLINGS, NIPPLES AND BUSHINGS AS REQUIRED (MATERIAL MAY BE GALVANIZED STEEL, BLACK IRON, TYPE II FIBER, OR TYPE DB PVC AS SHOWN IN FIGURE 1, SOLID OR DOTTED, DEPENDING UPON NUMBER OF DUCTS. THE NIPPLE AND BUSHING SHOULD BE INSTALLED AFTER THE TRANSFORMER IS PLACED AND BEFORE THE CABLES ARE PULLED.
- GROUND GRID: INSTALL #2/0 19 STRAND BARE COPPER (CODE 943108) WIRE LOOP 1'-0" BELOW GRADE. BOND TO ALL EXPOSED METALLIC CONDUIT AND LEAVE 3'-0" OR WIRE ABOVE PAD FOR GROUNDING TRANSFORMER AT TWO OPPOSITE POINTS IN THE CABLE CONDUITS OPENINGS. INSTALL TWO 8' GALVANIZED STEEL (3/ 4") GROUND RODS AND TWO APPROVED GALVANIZED CONNECTORS BELOW GROUND . LEAVE GRID EXPOSED UNTIL INSPECTED BY THE UTILITY
- THE SHORT TIMING FUSING CURRENT OF #1/ 0 7 STRAND BARE COPPER WIRE IS 15,000 AMPERES FOR ONE SECOND. IF THE MAXIMUM FAULT AT THE PARTICULAR LOCATION EXCEEDS
- (4) GRAVEL AND SAND: GRAVEL AND SAND SHALL BE PLACED AS SHOWN IN FIGURES 1 AND 2; THE GRAVEL BEING COMPACTED AND THE SAND THOROUGHLY WETTED JUST BEFORE PLACING THE CONCRETE. (5) CONCRETE SLAB:
- INSTALL CONCRETE IN ACCORDANCE WITH MIX #4-STD 0211 UNLESS OTHERWISE SPECIFIED. ALL EXPOSED EDGES TO HAVE 3/ 4" CHAMFER.
- (6) REINFORCING: REINFORCING TO BE #4-GRADE 60 BARS AND SHALL CONFORM TO THE ASTM STD. A-615 OF LATEST DATE. REINFORCING RODS TO BE LOCATED IN CENTER OF THE SLAB, WITH A MINIMUM OF 2" CLEARANCE FROM FACE OF CONCRETE.
- NOTE 1A: CONFIRM DIMENSIONS OF CONCRETE PAD WITH THE UTILITY COMPANY.





NOT TO SCALE

THIS IS TO BE USED WHERE OIL CONTAINMENT IS REQUIRED BY LOCAL AUTHORITIES OR WHERE OTHERWISE JUSTIFIED. THIS LINER SYSTEM WILL SIGNIFICANTLY SLOW THE MIGRATION OF OIL INTO THE UNDER LAYING SUB GRADE, ALLOWING ADDITIONAL TIME TO INITIATE A CLEANUP RESPONSE. THE POLYPROPYLENE GEOTEXTILE ALLOWS THE PASSAGE OF WATER BUT ABSORBS SMALL QUANTITIES OF OIL. THIS DESIGN IS INTENDED TO CONFINE 100% OF TOTAL TRANSFORMER OIL PRESENT, WITH A 20% RESERVE MARGIN, FOR UP TO 36 HOURS. FOLLOW THE FOLLOWING INSTALLATION STEPS. A PRECAST CONTAINMENT BARRIER MAY BE USED AS AN ALTERNATE TO CASTING ONE IN PLACE. PRECAST CURB CAN BE ONE PIECE OR MADE UP OF SEPARATE PIECES ASSEMBLED IN THE FIELD.

NOTE:
ON FIELD ASSEMBLED PIECES. ALL PIECES MUST BE SEALED TOGETHER WITH ROPE TAR, RUBBER SEALANT OR EQUIVALENT.

- 1. BUILD OIL CURB, THIS SHOULD BE INSTALLED WITH CONCRETE IN ACCORDANCE WITH MIX #4 PER CONCRETE SPECIFICATIONS ON PAGES 45 THRU 48. REÏNFORCEMENT TO BE #4, GRADE 60 RODS MINIMUM, 6" ON CENTER, BEND RODS AROUND CORNERS. CURB TO BE 24" DEEP WITH A MINIMUM THICKNESS OF 6".
- 2. INSTALL GEOTEXTILE LINER FROM TOP OF WALLS AND AROUND BOTTOM OF CONTAINMENT AREA. AREAS WHERE CONDUIT CROSSES OVERLAP LINER AROUND CONDUIT AND SEAL WITH EXPANDING FOAM.
- 3. INSTALL 6" OF SILTY SAND ON TOP OF LINER.
- 4. INSTALL SECOND LAYER OF GEOTEXTILE LINER AS NOTED IN STEP
- 5. BUILD UP AREA FOR TRANSFORMER PAD WITH 6" OF COMPACTED
- GRAVEL AND LEVEL. 6. INSTALL GROUND GRID.
- 7. SET/BUILD TRANSFORMER PAD.
- 8. FILL IN CONDUIT OPENINGS WITH SILTY SAND OR EXPANDING FOAM UP TO THE LAST TWO INCHES OF THE PAD.
- 9. FILL REST OF CONDUIT OPENING WITH CONCRETE GROUT OR EXPANDING FOAM.
- 10. FILL AREA BETWEEN SLAB AND CURB WITH 1 1/2" UNIFORMLY GRADED CRUSHED ROCK.

GEO-TEXTILE LINER:
GENERIC NAME IS: 160Z POLYPROPYLENE GEOTEXTILE ALSO CALLED FILTER FABRIC WEIGHING 160Z/SQUARE YARD.

BRAND NAMES/SUPPLIERS ARE:

AME1680 AVAILABLE FROM AMERICAN ENGINEERING FABRICS (AEF), NEW BEDFORD, MA

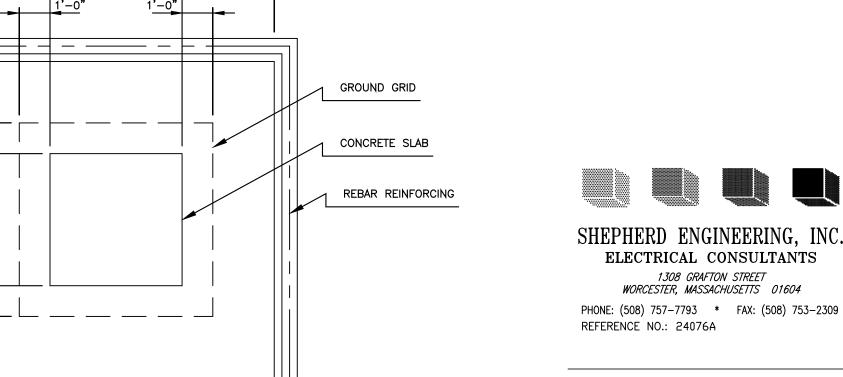
1-617-965-0007/1-800-770-2666 VELLANO BROS.

1-603-898-0532

LANCASTER, NY 1-716-684-7222/WWW.VELLANO.COM

SYNTHETIC INDUSTRIES ST 160 AVAILABLE FROM SPARTAN MILLS INC'S SPARTANBURG, NC 1-803-576-2353

CARTHAGE MILLS FX-160HS/US CONSTRUCTION FABRICS LLC 90 RANGE ROAD WINDHAM, NH 03087



NUMBER ____ ____

CONSTRUCTION

DOCUMENTS

PROJECT NUMBER 02018.04

REVISIONS

DESCRIPTION

OWNER / PROJECT NAME / LOCATION

CITY OF WORCESTER

LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

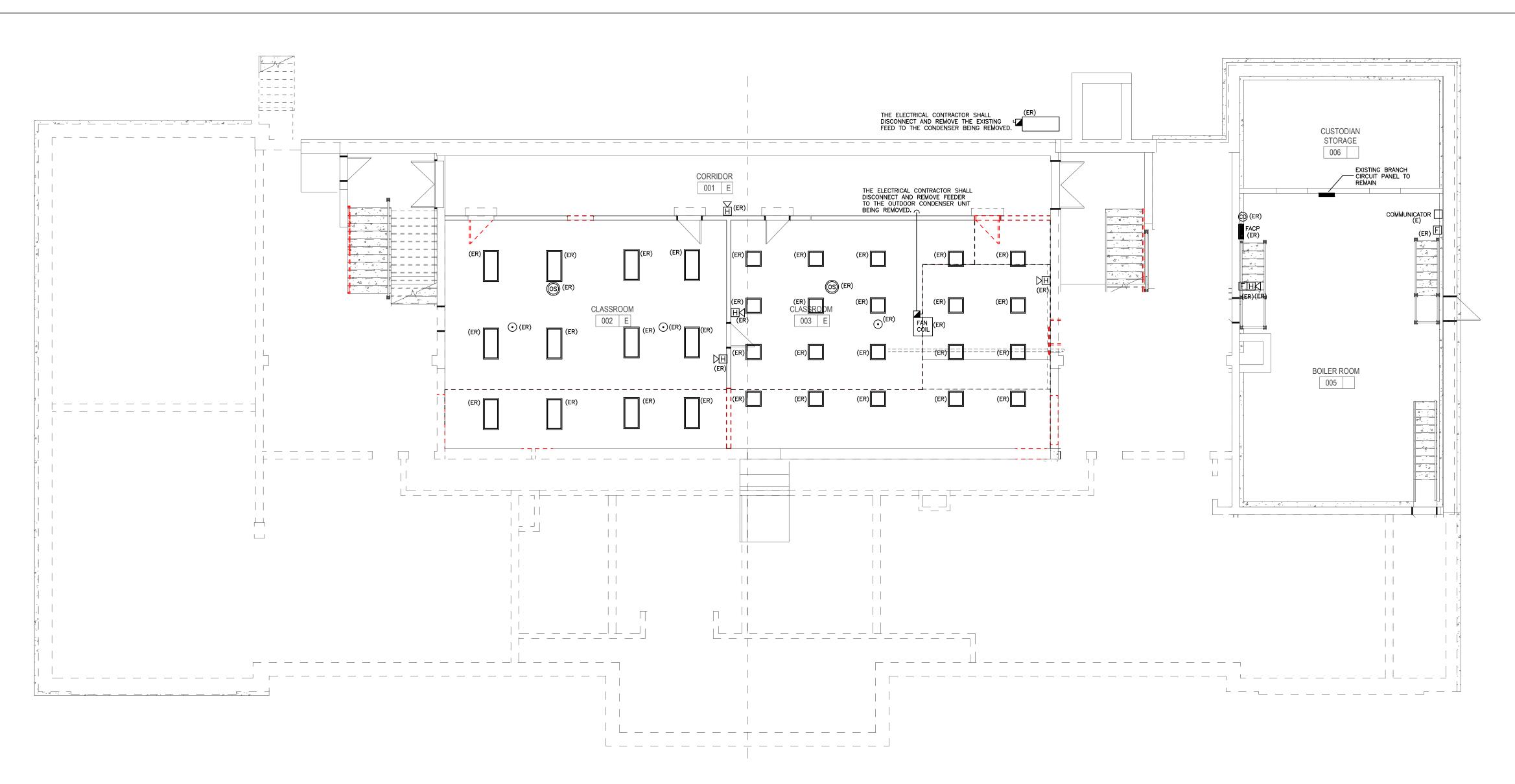
DRAWING TITLE SITE PLAN **ELECTRICAL DETAILS**



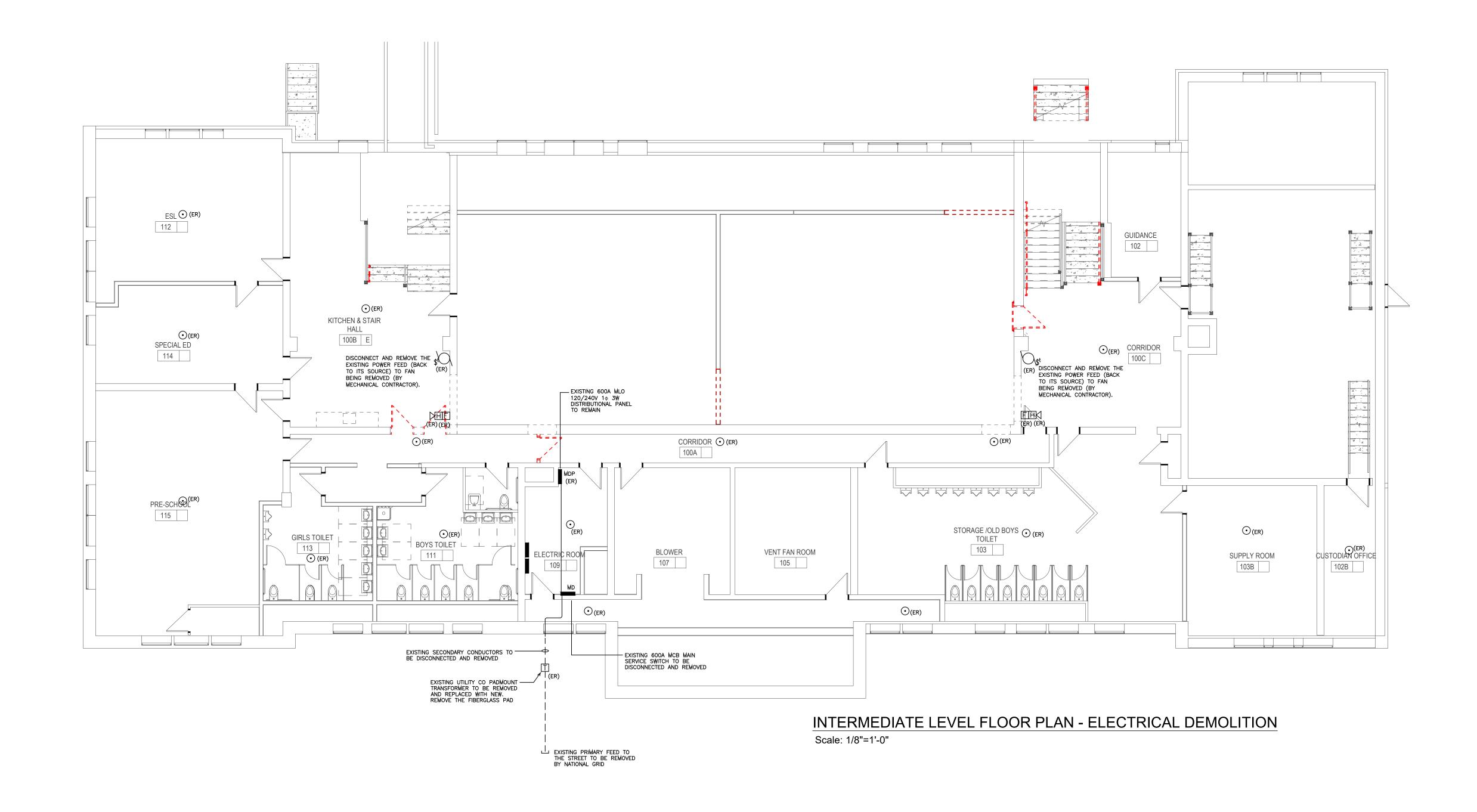
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BASEMENT LEVEL FLOOR PLAN - ELECTRICAL DEMOLITION
Scale: 1/8"=1'-0"



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DEMOLITION NOTES:

<u>NOTE 1:</u>

THE EQUIPMENT SHOWN IS TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW THE SITE AND TO COORDINATE WITH THE GENERAL CONTRACTOR TO DETERMINE THE AMOUNT AND PHASING OF DEMOLITION WORK REQUIRED.

NOTE 2:

THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ELECTRICAL EQUIPMENT BEING REMOVED BY THE GENERAL/DEMOLITION CONTRACTOR IS TAGGED AND MADE ELECTRICALLY SAFE. CUT ALL CABLES FROM THE PANEL AND AT THE EQUIPMENT TO ENSURE SAFE REMOVAL.

NOTE 3:

IN THE EVENT THAT A DEVICE BEING REMOVED CAUSES ANOTHER DEVICE REMAINING NOT TO OPERATE, IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO RECONNECT THE EQUIPMENT REMAINING BACK TO ITS SOURCE.

NOTE 4:

THE EXISTING FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL UNTIL THE NEW IS INSTALLED AND FULLY TESTED. AFTER TESTING, THE ENTIRE FIRE ALARM SYSTEM INSTALLED THROUGHOUT THE BUILDING IS TO BE DISCONNECTED AND REMOVED IN ITS ENTIRETY INCLUSIVE OF THE BRANCH CIRCUIT WIRING. INSTALL WHITE COVER PLATES OVER ALL EXPOSED JUNCTION BOXES

DEMOLITION LEGEND:

(E) EXISTING TO REMAIN

R) EXISTING TO BE REMOVED BACK TO ITS SOURCE RR) EXISTING TO BE REMOVED AND REPLACED WITH NEW





SHEPHERD ENGINEERING, INC.

ELECTRICAL CONSULTANTS

1308 GRAFTON STREET
WORCESTER, MASSACHUSETTS 01604

PHONE: (508) 757-7793 * FAX: (508) 753-2309
REFERENCE NO.: 24076A

REVISIONS				
NUMBER	DESCRIPTION	DATE		

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CITY OF WORCESTER

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WORCESTER, MA

BASEMENT AND
INTERMEDIATE LEVEL
FLOOR PLAN
ELECTRICAL DEMOLITION



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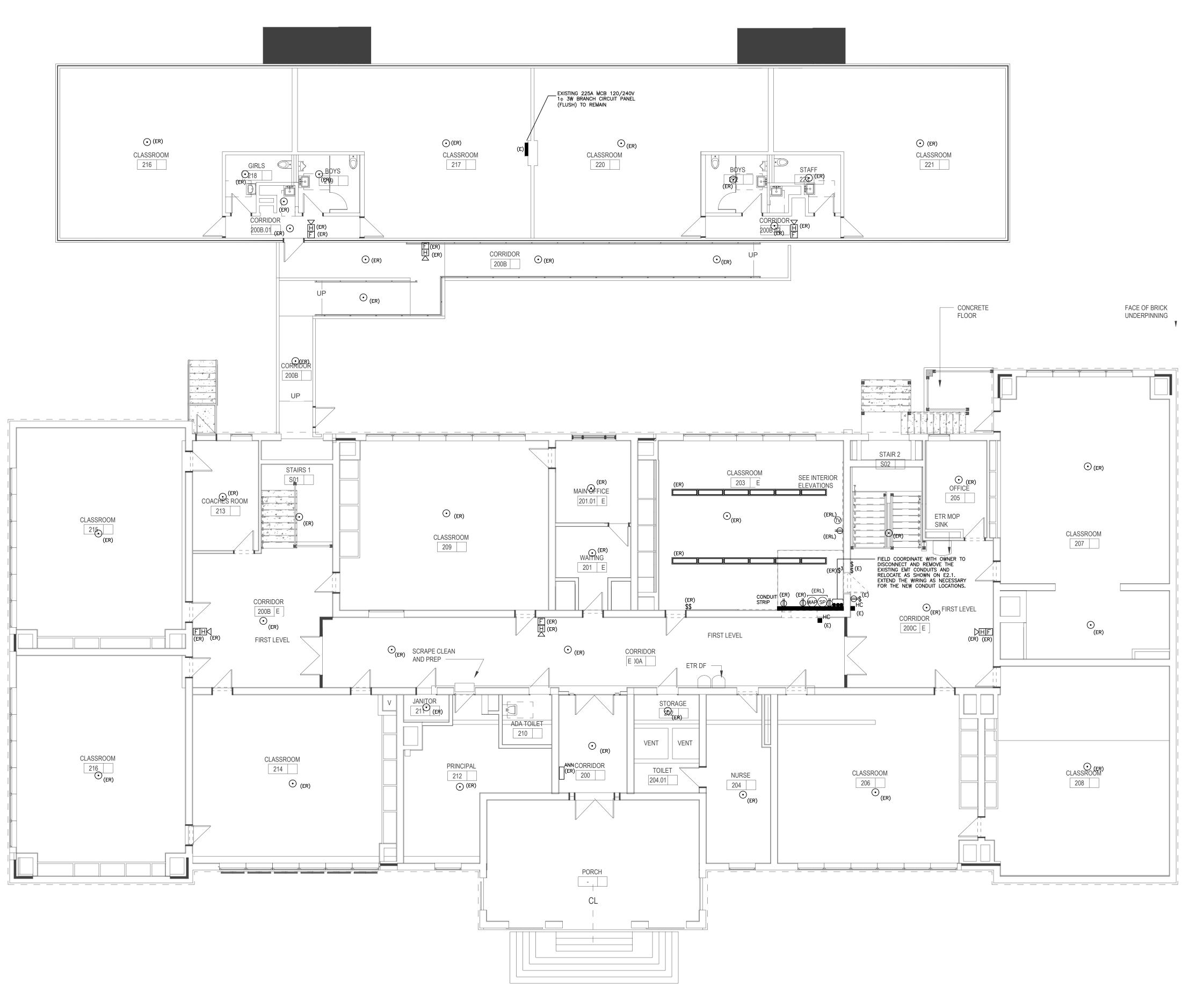
DRAWING INFORMATION

SCALE 1/8"=1'-0"

DRAWN BY Author

CHECKED Checker

DATE SEPTEMBER 18, 2024



FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
Scale: 1/8"=1'-0"

DEMOLITION NOTES:

<u>NOTE 1:</u>

THE EQUIPMENT SHOWN IS TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW THE SITE AND TO COORDINATE WITH THE GENERAL CONTRACTOR TO DETERMINE THE AMOUNT AND PHASING OF DEMOLITION WORK REQUIRED.

<u>NOTE 2:</u>

THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ELECTRICAL EQUIPMENT BEING REMOVED BY THE GENERAL/DEMOLITION CONTRACTOR IS TAGGED AND MADE ELECTRICALLY SAFE. CUT ALL CABLES FROM THE PANEL AND AT THE EQUIPMENT TO ENSURE SAFE REMOVAL.

NOTE 3:

IN THE EVENT THAT A DEVICE BEING REMOVED CAUSES ANOTHER DEVICE REMAINING NOT TO OPERATE, IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO RECONNECT THE EQUIPMENT REMAINING BACK TO ITS SOURCE.

NOTE 4:

THE EXISTING FIRE ALARM DEVICES ARE TO REMAIN OPERATIONAL UNTIL THE NEW IS INSTALLED AND FULLY TESTED. AFTER TESTING, THE ENTIRE FIRE ALARM SYSTEM INSTALLED THROUGHOUT THE BUILDING IS TO BE DISCONNECTED AND REMOVED IN ITS ENTIRETY INCLUSIVE OF THE BRANCH CIRCUIT WIRING. INSTALL WHITE COVER PLATES OVER ALL EXPOSED JUNCTION BOXES

DEMOLITION LEGEND:

(E) EXISTING TO REMAIN
(ER) EXISTING TO BE REMOVED BACK TO ITS SOURCE
(ERR) EXISTING TO BE REMOVED AND REPLACED WITH NEW
(ERL) EXISTING TO BE REMOVED AND RELOCATED



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NUMBER	DESCRIPTION	DATE			
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PROJECT PHASE

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PROJECT NUMBER 02018.04

OWNER / PROJECT NAME / LOCATION

CITY OF WORCESTER

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WORCESTER, MA

DRAWING TITLE

FIRST FLOOR PLAN
ELECTRICAL DEMOLITION



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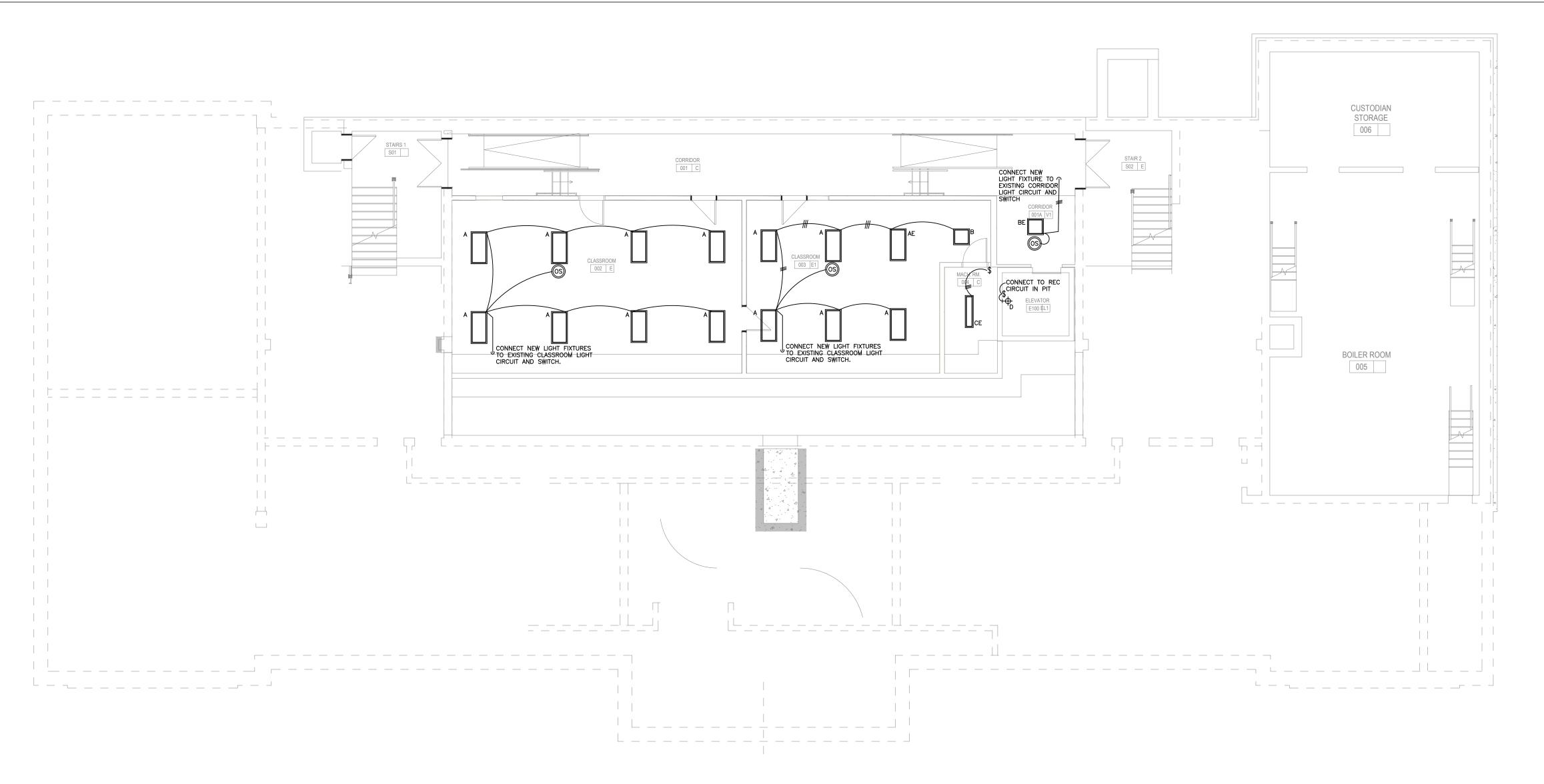
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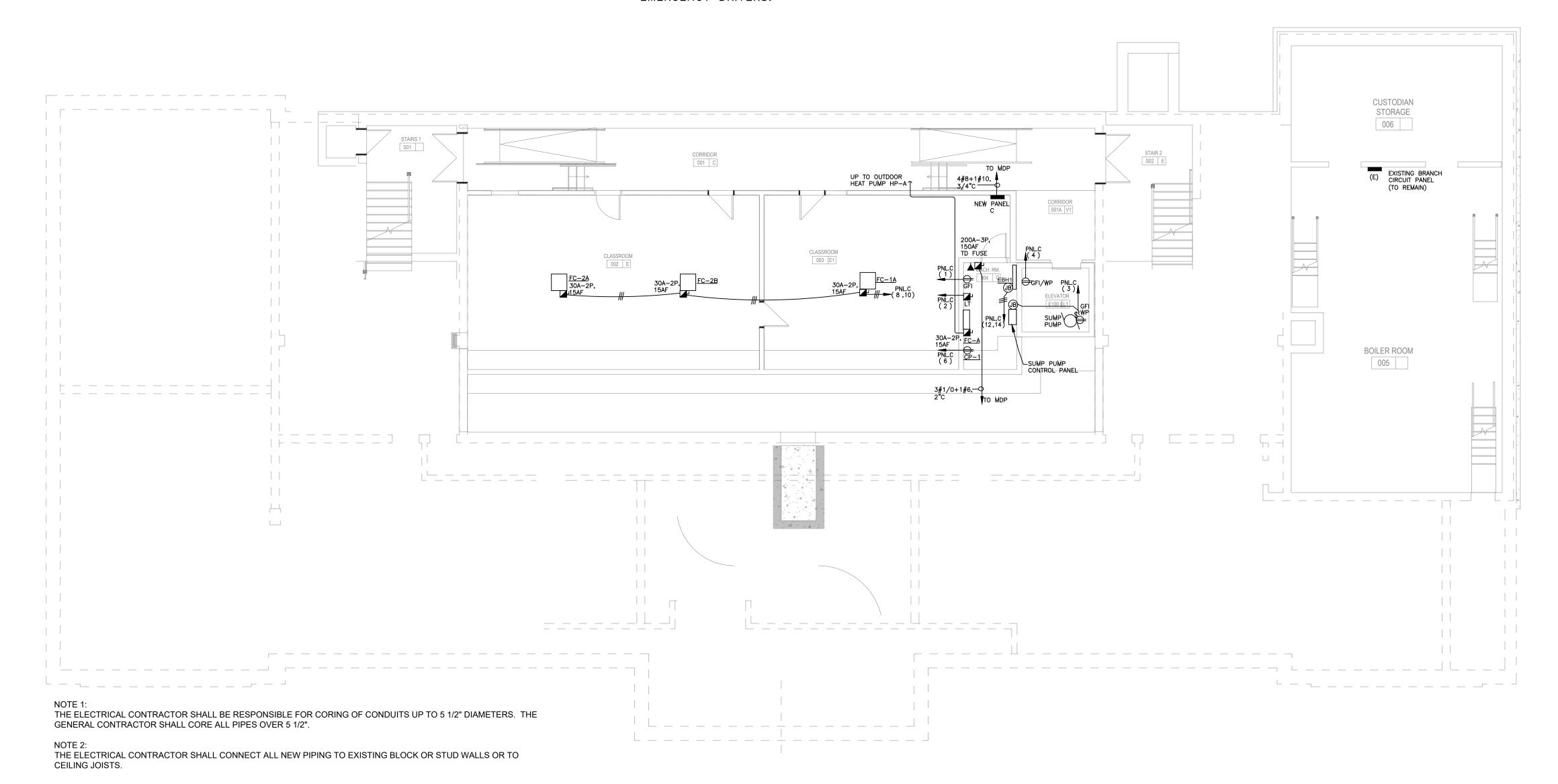
DATE SEPTEMBER 18,



BASEMENT LEVEL FLOOR PLAN - ELECTRICAL LIGHTING

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

NOTE:
FURNISH A CONSTANT VOLTAGE CIRCUIT FOR ALL LIGHT FIXTURES WITH INTEGRAL EMERGENCY DRIVERS.



BASEMENT LEVEL FLOOR PLAN - ELECTRICAL POWER Scale: 1/8"=1'-0"

FURNISH A CONSTANT VOLTAGE CIRCUIT FOR ALL LIGHT FIXTURES WITH INTEGRAL EMERGENCY DRIVERS.

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TYPICAL FOR ELEV. MACHINE ROOM: FURNISH AND INSTALL A HEAVY DUTY FUSED DISCONNECT SW (SIZE AS INDICATED) NEAR ENTRANCE TO ROOM.

> FURNISH AND INSTALL AN ELEVATOR RECALL SMOKE DETECTOR IN ROOM; CONNECT TO FIRE

ALARM SYSTEM LOOP. FURNISH AND INSTALL A 20A-1P CIRCUIT

ELEVATOR CAR LIGHT.

EC SHALL FURNISH AND INSTALL FOUR RELAYS FOR ELEVATOR RECALL SMOKE DETECTORS. CONNECT TO FACP.

BREAKER DISCONNECT SWITCH FOR THE

EC SHALL FURNISH AND INSTALL A GFI RECEPTACLE IN ROOM.

TELEPHONE OUTLET IN ROOM.

INSPECTOR.

THE LIGHT FIXTURE IN ROOM SHALL HAVE A PROTECTIVE COVER OR WIREGUARD INSTALLED. THE EC SHALL MAKE PROVISIONS FOR A

THE EC SHALL PROVIDE THE INTERCONNECTION BETWEEN THE ELEVATOR MICROPROCESSOR MOTOR CONTROLLER AND THE FIRE ALARM

IT SHALL BE THE RESPONSIBILITY OF THE EC TO COORDINATE ALL ELEVATOR WORK WITH THE GENERAL CONTRACTOR AND ELEVATOR

ELEVATOR SHAFT REQUIREMENTS: ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL THE FOLLOWING IN THE ELEVATOR SHAFT:

THE EC SHALL FURNISH AND INSTALL A WP SWITCH CONTROL AND LIGHT FIXTURE WITH PROTECTIVE COVER OR WIREGUARD IN BOTTOM OF SHAFT.

THE EC SHALL FURNISH AND INSTALL A GFI/WP RECEPTACLE IN THE BOTTOM OF THE



ELECTRICAL CONSULTANTS 1308 GRAFTON STREET WORCESTER, MASSACHUSETTS 01604 PHONE: (508) 757-7793 * FAX: (508) 753-2309 REFERENCE NO.: 24076A

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NUMBER	DESCRIPTION	DATE		

CONSTRUCTION **DOCUMENTS**

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION

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LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

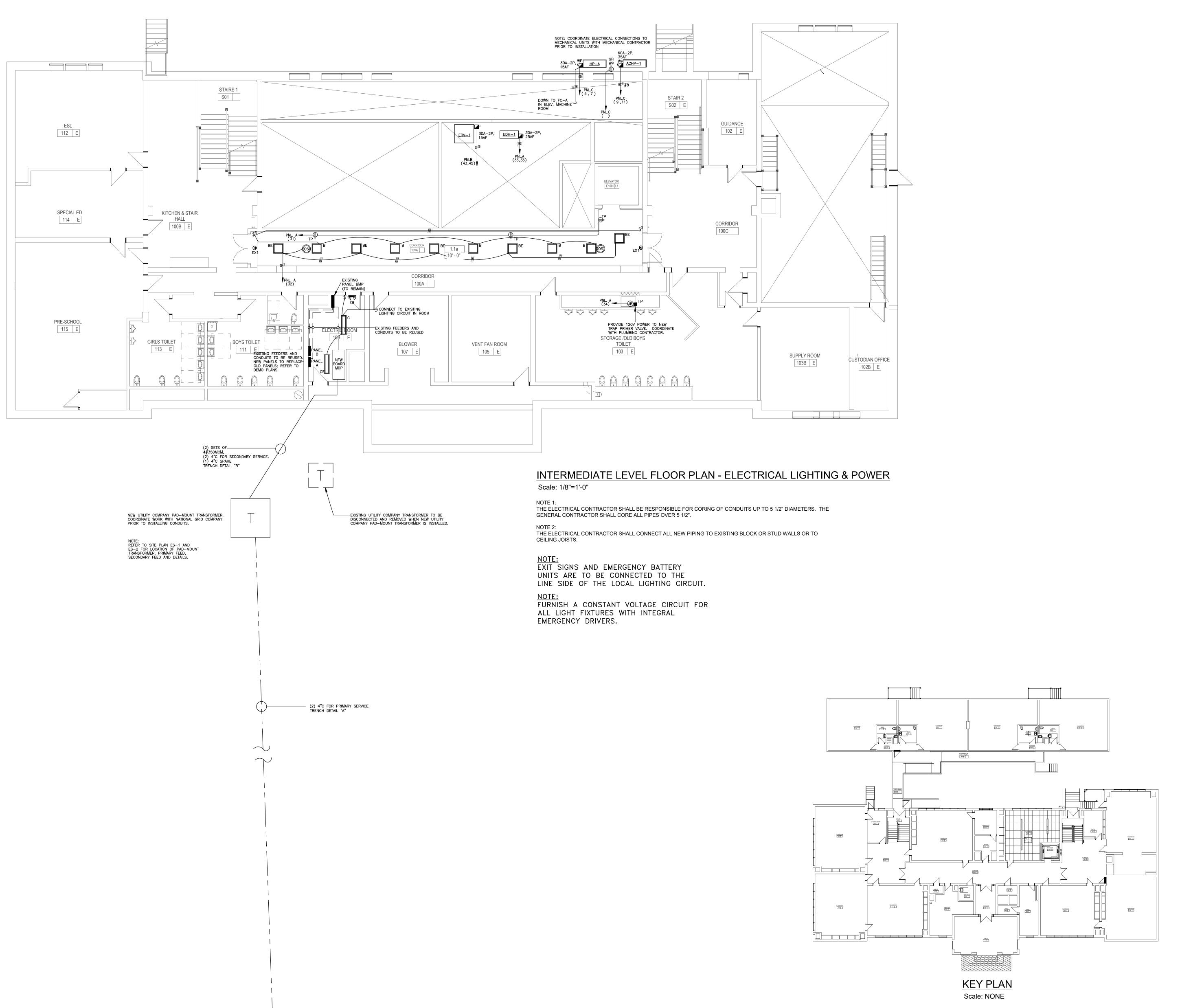
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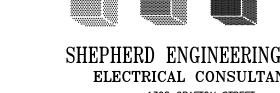
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ELECTRICAL CONSULTANTS

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WORCESTER, MASSACHUSETTS 01604

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NUMBER	DESCRIPTION	DATE

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02018.04

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WORCESTER, MA

INTERMEDIATE LEVEL
FLOOR PLAN-ELECTRICAL
LIGHTING AND POWER



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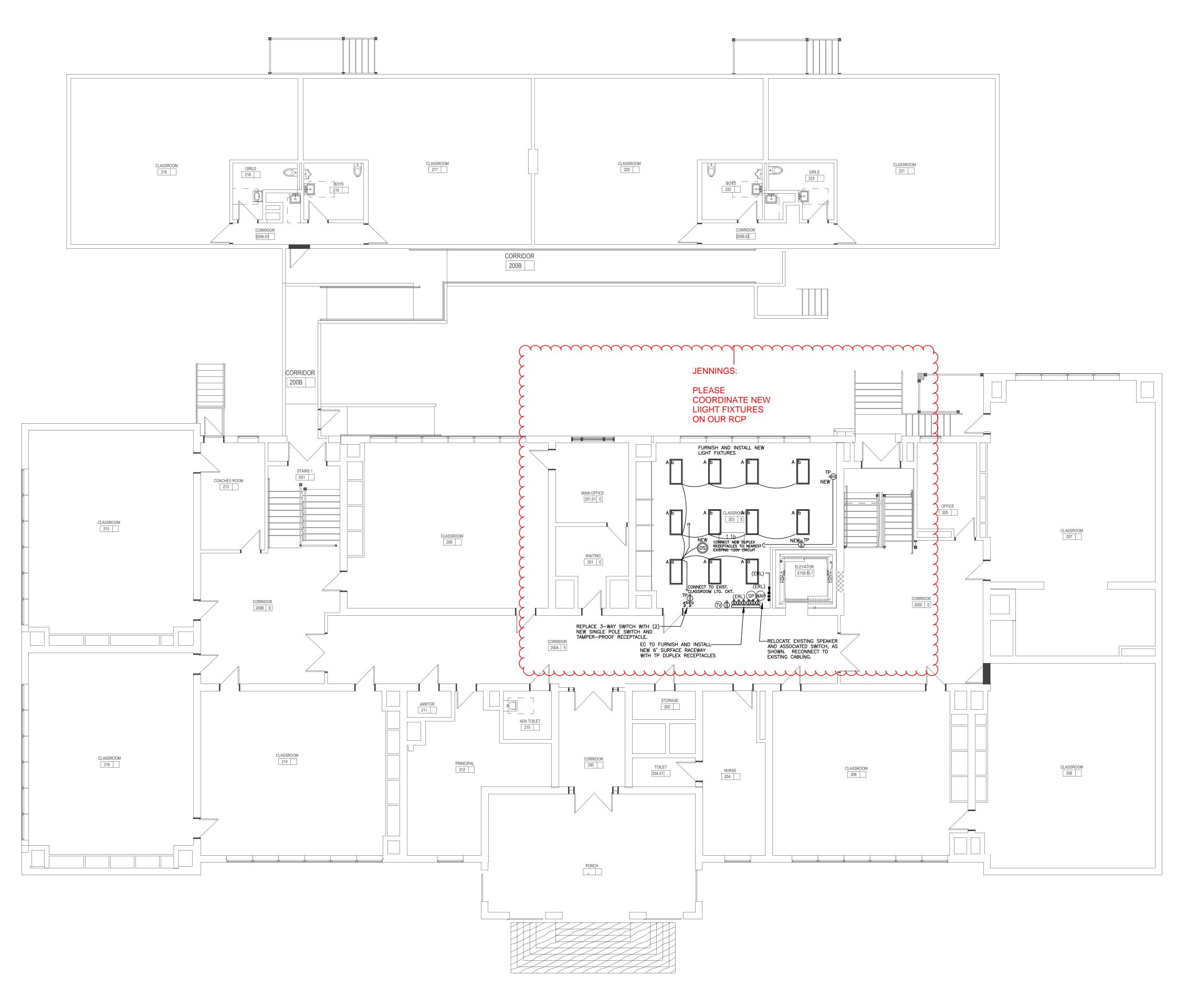
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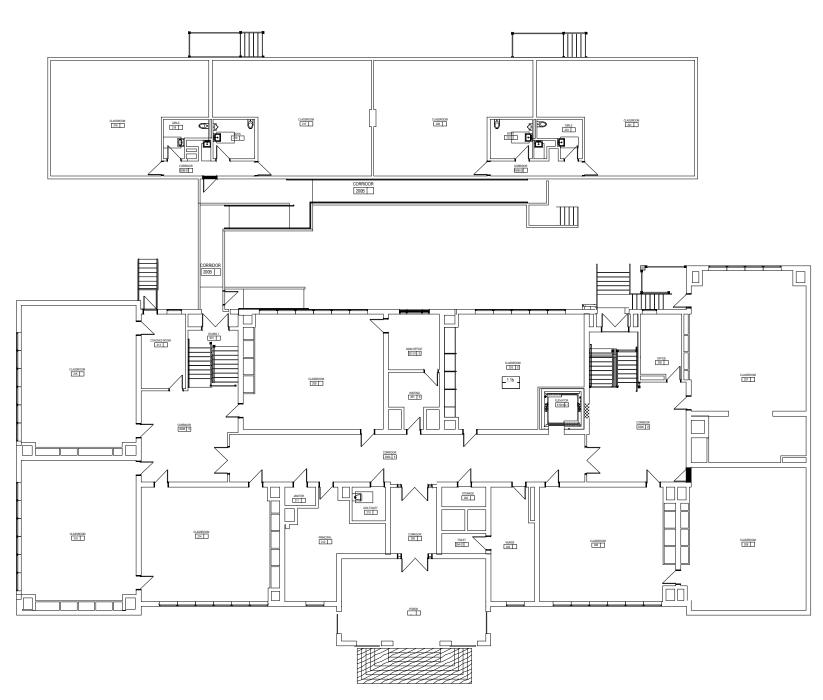
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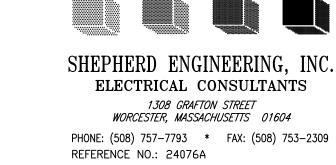
DATE SEPTEMBER 18, 200



FIRST FLOOR PLAN - LIGHTING & POWER
Scale: 1/8"=1'-0"



KEY PLAN



	REVISIONS	
NUMBER	DESCRIPTION	Г

CONSTRUCTION DOCUMENTS

PROJECT NUMBER 02018.04

OWNER/PROJECT NAME/LOCATION

CITY OF WORCESTER

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WORCESTER, MA

FIRST FLOOR PLAN
LIGHTING & POWER



MOUNT VERNON GROUP
ARCHITECTS

178 Albion Street,
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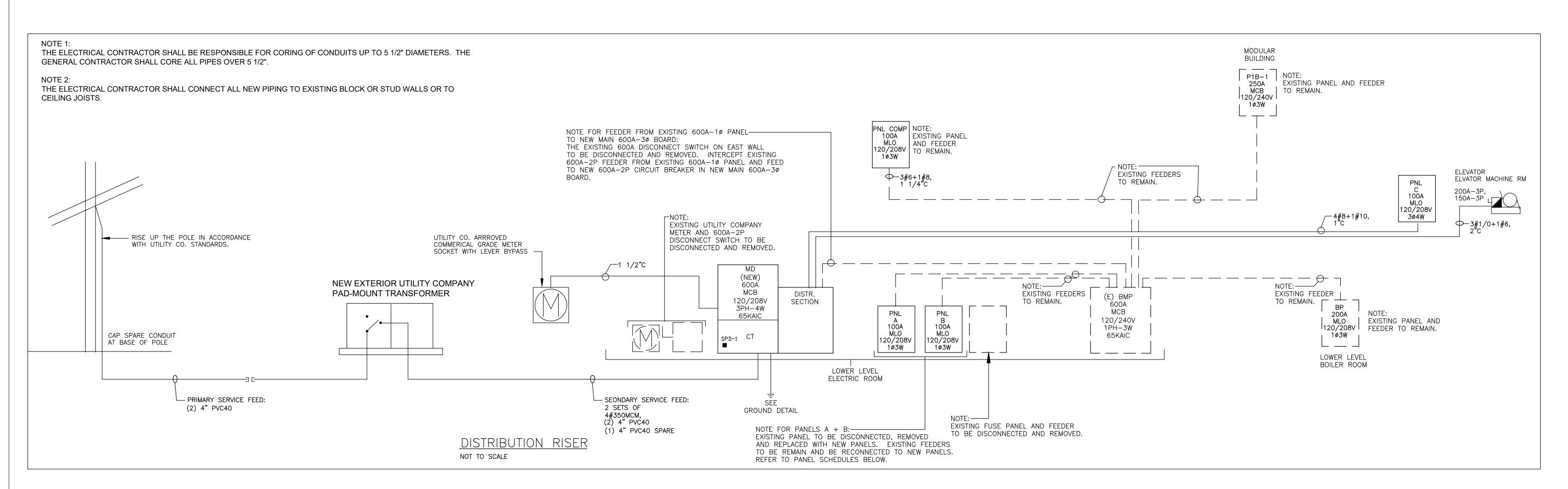
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DATE SEPTEMBER 18, 2024

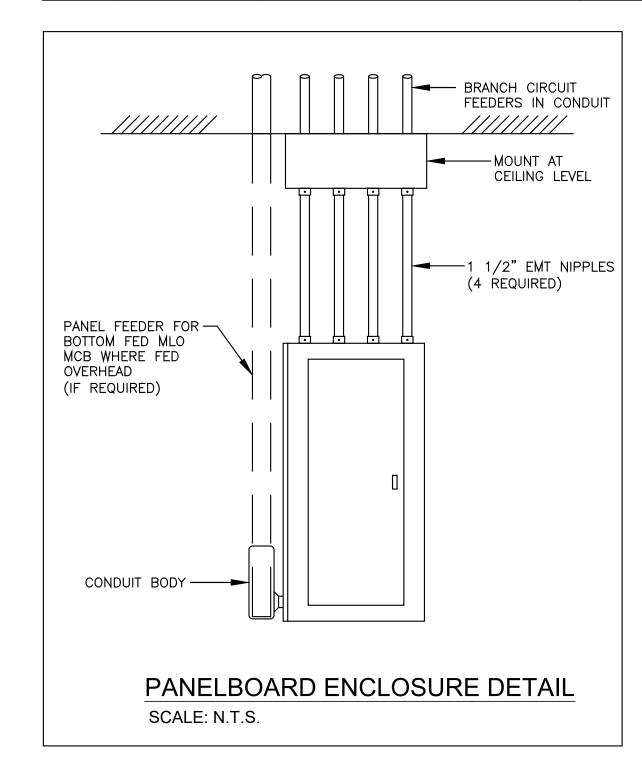


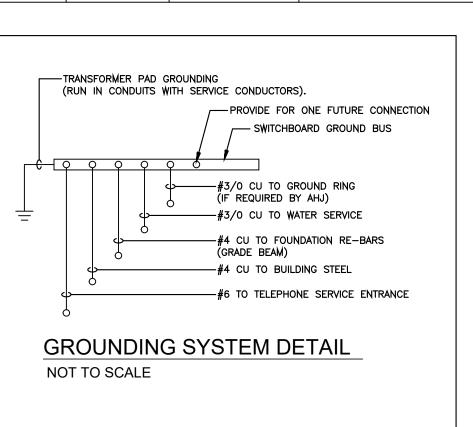
PAN	NEL: MD			
	N: 600A MCB TAGE: 120/208V PHASE: 3 WIRE: 4	TYPE: EATON CO. OR EQUAL 65 KAIC SPD-1		
1	EXISTING MAIN PANEL BMP 600A-2P	2	ELEVATOR 150A-3P	
3	PANEL C 50A-3P		SPARE 60A–3P	
5	PROVISION FOR FUTURE	6	PROVISION FOR FUTURE	
7	PROVISION FOR FUTURE	8	PROVISION FOR FUTURE	

MAIN: 200A MLO				TYPE: EATON CO. OR EQUAL		
OLTAGE: 120/208V PHASE: 1 WIRE:	3			SURFACE		
DESCRIPTION	TRIP	POLE	CIR	DESCRIPTION	TRIP	POI
1 EXISTING	20	1	2	EXISTING	20	1
3 EXISTING	20		4	EXISTING	20	1
5 EXISTING	20	1	6	EXISTING	20	1
7 EXISTING	20		8	EXISTING	20	1
9 EXISTING	20	1	10	EXISTING	20	1
11 EXISTING	20	1	12	EXISTING	20	1
13 EXISTING	20	1	14	EXISTING	20	1
15 EXISTING	20	1	16	EXISTING	20	1
17 EXISTING	20	1	18	EXISTING	20	1
19 EXISTING	20	1	20	EXISTING	20	1
21 EXISTING	20	1	22	EXISTING	20	1
23 EXISTING	20	1	24	EXISTING	20	1
25 EXISTING	20	1	26	EXISTING	20	1
27 EXISTING	20	1	28	EXISTING	20	1
29 EXISTING	20	1	30	EXISTING	20	1
31 NEW CORRIDOR TP RECS	20	1	32	NEW CORRIDOR LIGHTING	20	1
33 FDU 4	7 05		34	TRAP PRIMER VALVE	20	1
35 EDH-1	25	2	36	SPARE	20	1
37 SPARE	20	1	38	SPARE	20	1
39 SPARE	20	1	40	SPARE	20	1
41 SPARE	20	1	42	SPARE	20	1
43 SPARE	20	1	44	SPARE	20	1
45 SPARE	20		46	SPARE	20	1
47 SPARE	20		48	SPARE	20	1
49 SPARE	20		50	SPARE	20	1
51 SPARE	20		52	SPARE	20	1
53 SPARE	20		54	SPARE	20	1
PANEL: B					60-CIF	

	SPARE	20	ı	40	SPARE	20	
49	SPARE	20	1	50	SPARE	20	1
51	SPARE	20	1	52	SPARE	20	
	SPARE	20	1		SPARE	20	1
DAN	IEL: B					60 01	
						60-CIF	1001
	: 225A MLO			-	TYPE: EATON CO. OR EQUAL		
VOLT	AGE: 120/208V PHASE: 1 WIRE:	3			SURFACE		
CIR	DESCRIPTION	TRIP	POLE	CIR	DESCRIPTION	TRIP	POL
	EXISTING	20	1		EXISTING	20	- 3_
	EXISTING	20	1	4	EXISTING	20	1
	EXISTING	20	1		EXISTING	20	1
7	EXISTING	20	1	8	EXISTING	20	1
9	EXISTING	20	- i - 	10	EXISTING	20	-
	EXISTING	20	1	12	EXISTING	20	1
	EXISTING	20	- i - 		EXISTING	20	-
	EXISTING	20	- i - 	16	EXISTING	20	-
17	EXISTING	20	- i - 		EXISTING	20	$-\dot{1}$
	EXISTING	20	- i - 	20	EXISTING	20	$-\dot{1}$
21	EXISTING	20	- i - 	22	EXISTING	20	$\frac{}{1}$
$\frac{2}{23}$	EXISTING	20	- i - 	24		20	$\frac{}{1}$
25	EXISTING	20	- i - 		EXISTING	20	$-\dot{1}$
	EXISTING	20	$\frac{1}{1}$		EXISTING	20	-
29	EXISTING	20	$\frac{1}{1}$		EXISTING	20	-
31	EXISTING	20	$\frac{1}{1}$	32	EXISTING	20	-
33	EXISTING	20	$\frac{1}{1}$		EXISTING	20	-
35	EXISTING	20	$\frac{1}{1}$		EXISTING	20	-
37	EXISTING	20	- i - 		EXISTING	20	
39	EXISTING	20	- i - 	40	EXISTING	20	$-\dot{1}$
	EXISTING	20	- i - 	42	EXISTING	20	-
17					SPARE	20	-
45	ERV-1	20	2		SPARE	20	1
	SPARE	20	1		SPARE	20	-
	SPARE	20	- i - 		SPARE	20	-
	SPARE	20	- i - 		SPARE	20	-
5.3	SPARE	20	- i - 		SPARE	20	
	SPARE	20	- i - 	56	SPARE	20	-
	SPARE	20	- i - 		SPARE	20	
59	SPARE	20	1		SPARE	20	1
PAN	IEL: C					18-CIF	KCUI.
MAIN	: 100A MLO			-	TYPE: EATON CO. OR EQUAL		
	AGE: 120/208V PHASE: 3 WIRE:	4			SURFACE		
CIR	DESCRIPTION	TRIP	POLE	CIR	DESCRIPTION	TRIP	POL
	ELEVATOR MACHINE RM. REC	20	1	2	ELEVATOR MACHINE RM. LT	20	1
	ELEVATOR PIT SUMP PUMP	20	$\overline{1}$	4	ELEVATOR PIT LT & REC	20	1
				6	ELEV. MACH. RM. COND. PUMP CP-1		1
7	ELEV. FC-A/HP-A	20	2	8			
9	AID COOLED COLIT 10115 1	1.5		10	FAN COILS FC-1A,FC-2A & FC-2B	20	2
11	AIR COOLED SPLIT ACHP-1	40	2	12	FLEW DIT FLEO BYCEROLING		
	SPARF	20	1	11/	ELEV. PIT ELEC. BASEBOARD EBH-1	20	2

	LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER	CATALOGUE #		LAMPING			REMARKS		
111 -	MANOTACTORER	CATALOGOL #	TYPE	WATTAGE	QUANTITY	MOUNTING	ILIMAINS		
Α	METALUX	24GSB40L835FA-SK24WS	LED	22	1	SURFACE	2'X4' LED SURFACE LIGHT FIXTURE		
AE	METALUX	24GSB40EL14WL835FA-SK24WS	LED	22	1	SURFACE	2'X4' LED SURFACE LIGHT FIXTURE W/EMERG.		
В	METALUX	22GSB35L835FA	LED	14	1	RECESSED	2'X2' LED RECESSED LIGHT FIXTURE		
BE	METALUX	22GSB35-EL14W-L835FA	LED	14	1	RECESSED	2'X2' LED RECESSED LIGHT FIXTURE W/EMERG.		
С	METALUX	4SLSTPS2040DD-UNV	LED	22	1	SURFACE	4' LED SURFACE LIGHT FIXTURE		
CE	METALUX	4SLSTPS2040-EL14W-DD-UNV	LED	22	1	SURFACE	4' LED SURFACE LIGHT FIXTURE W/EMERG.		
D	HALO	VT0840L	LED	9.4	1	WALL-MT	ELEV. PIT LT		
OS	GREENGATE	OACDT-2000-MV				RECESSED	CEILING-MOUNT OCCUPANCY SWITCH		
EX	MULE	RMXURWSD	LED	7		UNIVERSAL	EXIT SIGN		
EB	MULE	MRDR612LEDW	LED	3		WALL-MT	EMERGENCY BATTERY UNIT		





THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW LIGHT FIXTURES AND ASSOCIATED BRANCH CIRCUITRY, AS SHOWN.

CONNECT ALL NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT FEEDERS IN AREA.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE NEW LIGHTING CONTROLS.

THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A CONSTANT VOLTAGE CIRCUIT FOR ALL LIGHT FIXTURES WITH INTEGRAL EMERGENCY



2'X2' LED RECESSED LIGHT FIXTURE

2'X4' LED SURFACE LIGHT FIXTURE 4' LED SURFACE UTILITY LIGHT FIXTURE

CEILING-MOUNT OCCUPANCY SENSOR

EXIT SIGN WALL-MOUNT SWITCH

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NUMBER

REVISIONS

DESCRIPTION

→TP TAMPER-PROOF DUPLEX RECEPTACLE ⊕GFI/TP GFI/TAMPER-PROOF DUPLEX RECEPTACLE JUNCTION BOX

HOMERUN TO PANEL

HEAVY-DUTY FUSED DISCONNECT SWITCH NON-FUSED DISCONNECT SWITCH

MOTOR

THERMAL SWITCH

LEGEND

PULL STATION

PHOTO-ELECTRIC SMOKE DETECTOR PHOTO-ELECTRIC SMOKE DETECTOR ELEVATOR RECALL

CARBON MONOXIDE DETECTOR

HEAT DETECTOR

STROBE

SPEAKER/VISUAL

SPEAKER/VISUAL CEILING

INDEPENDENT ADDRESSABLE MODULE

FACP FIRE ALARM CONTROL PANEL FIRE ALARM BEACON

FIREFIGHTERS KEY BOX

MODULAR/DAMPER

LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

CONSTRUCTION

OWNER / PROJECT NAME / LOCATION

CITY OF WORCESTER

02018.04

DOCUMENTS

PROJECT NUMBER

DRAWING TITLE LEGENDS, SCHEDULES,

AND DETAILS



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

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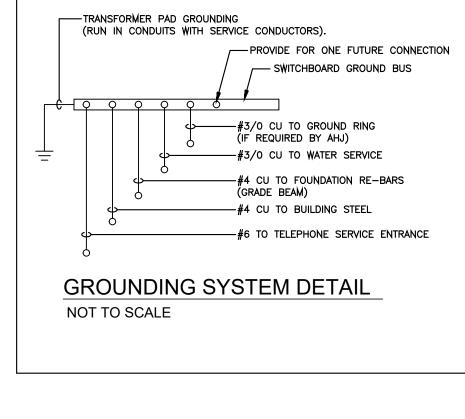
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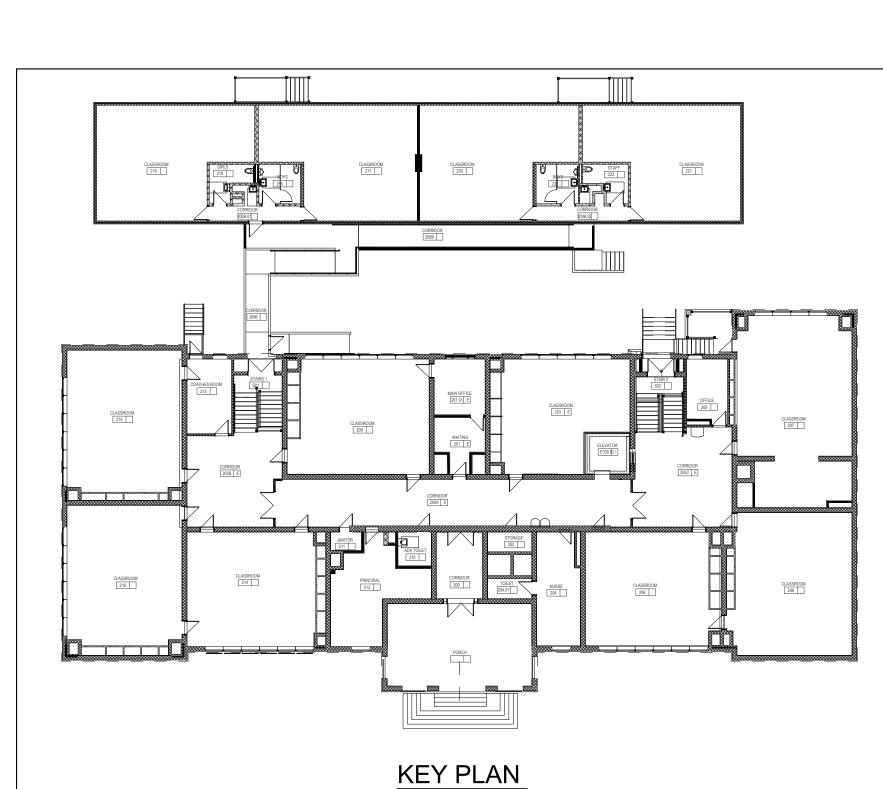
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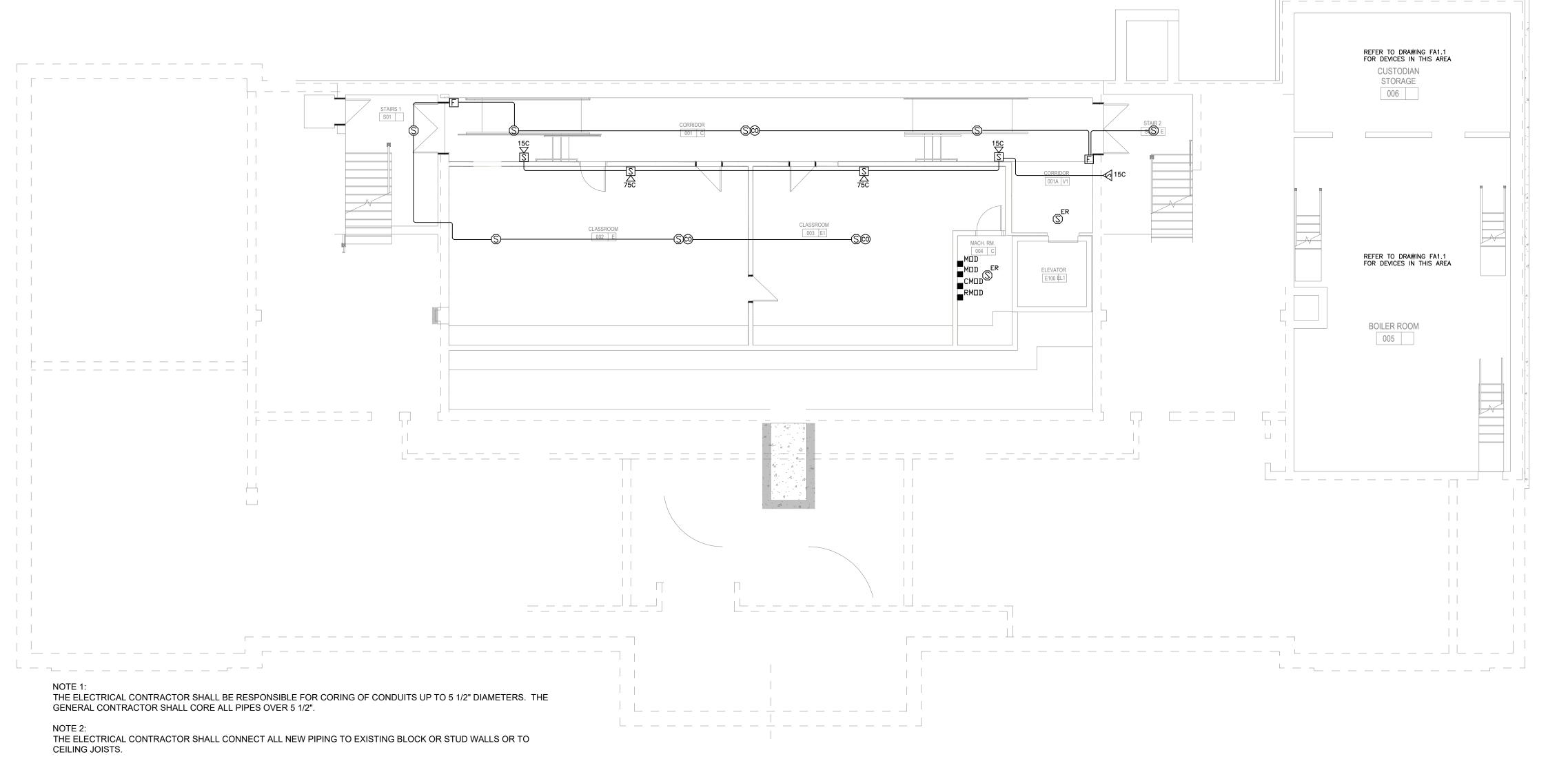
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SEPTEMBER 18, 2024

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BASEMENT LEVEL FLOOR PLAN - FIRE ALARM

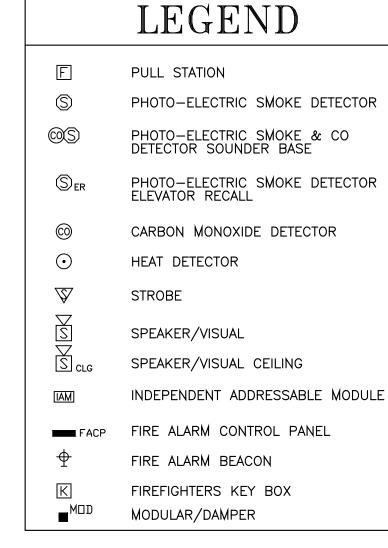
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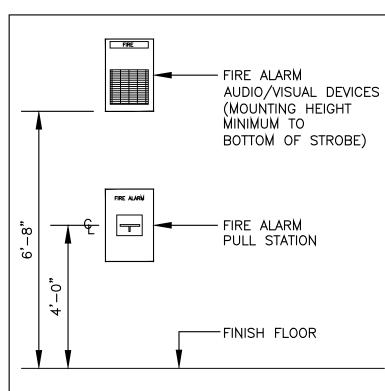
FIRE ALARM CONDUITS SHALL BE SURFACE MOUNTED IN HALLWAYS. FIRE ALARM CONDUITS SHALL BE RUN ABOVE ATC CEILINGS IN CLASSROOMS.

ALL MANUAL PULL STATIONS SHALL HAVE STOPPER II STYLE PROTECTIVE COVERS.

IT SHALL BE THE RESPONSIBILITY OF THE EC AND FA MANUFACTURER THE QUANTITY AND LOCATION OF NOTIFICATION APPLIANCE CIRCUIT (NAC) PANELS, AS REQUIRED.

ROUTING SHOWN ON PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE THE BEST ROUTE FOR CONDUIT RUNS THROUGHOUT THE BUILDINGS.





DEVICE LOCATION HEIGHTS

NOT TO SCALE

NOTES:
ALL MOUNTING HEIGHTS SHALL BE MEASURED
FROM THE FINISH FLOOR TO THE CENTERLINE OF THE DEVICE EXCEPT FIRE ALARM A/V DEVICES. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DEVICE UNLESS OTHERWISE NOTED.

STROBE HEIGHT ILLUSTRATED AT MAXIMUM HEIGHT. STROBE SHALL BE 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.







ELECTRICAL CONSULTANTS 1308 GRAFTON STREET WORCESTER, MASSACHUSETTS 01604 PHONE: (508) 757-7793 * FAX: (508) 753-2309 REFERENCE NO.: 24076A

REVISIONS

NUMBER	DESCRIPTION	DATE

CONSTRUCTION

DOCUMENTS

PROJECT NUMBER 02018.04

OWNER / PROJECT NAME / LOCATION

LINCOLN ELEMENTARY

CITY OF WORCESTER

WORCESTER, MA

SCHOOL

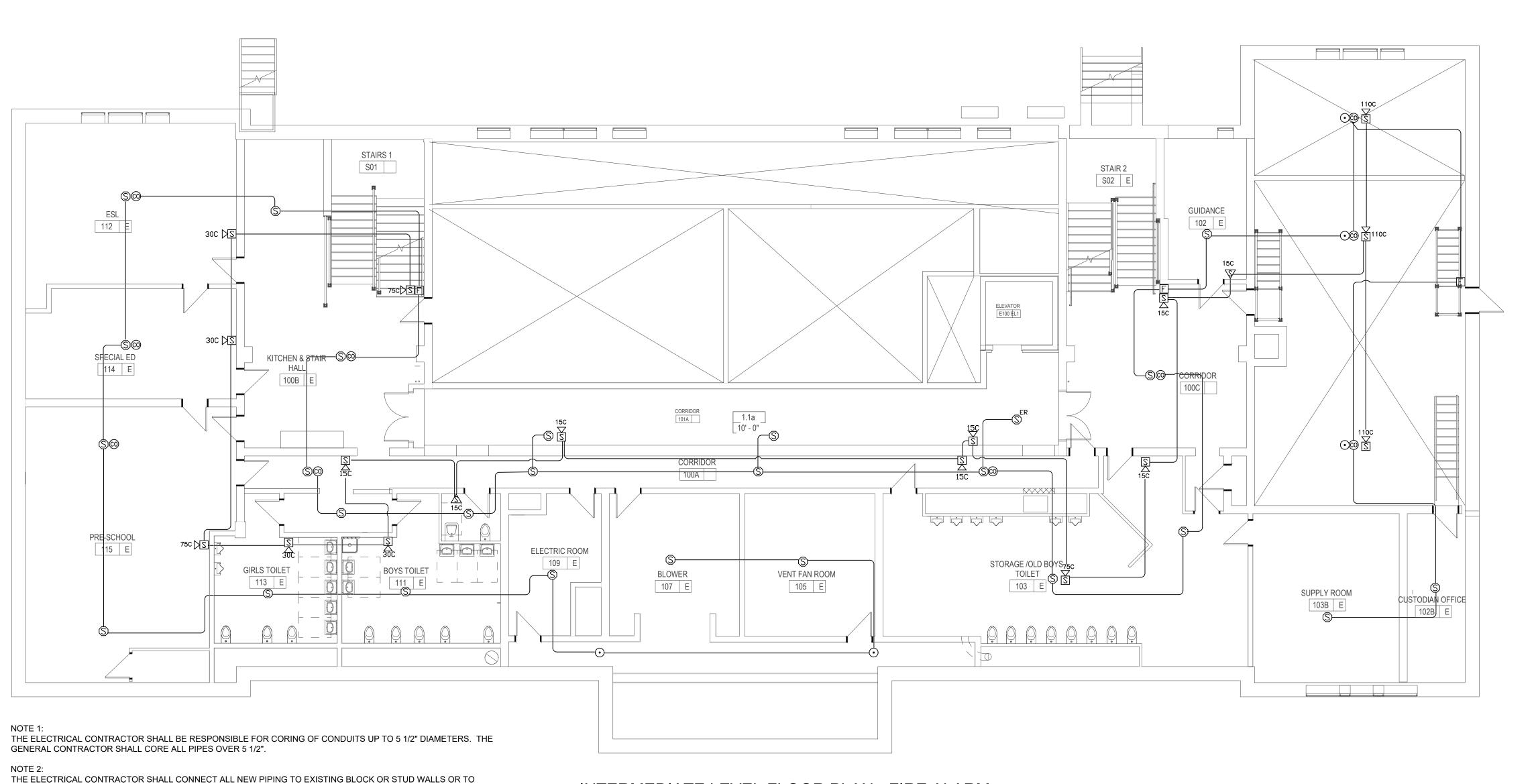
DRAWING TITLE **BASEMENT LEVEL FLOOR PLAN** FIRE ALARM



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

> 781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

DRAWING INFORMATION DRAWN BY SEPTEMBER 18, 2024



E PULL STATION

S PHOTO-ELECTRIC SMOKE DETECTOR

SER PHOTO-ELECTRIC SMOKE DETECTOR ELEVATOR RECALL

CARBON MONOXIDE DETECTOR

HEAT DETECTOR

STROBE

SPEAKER/VISUAL

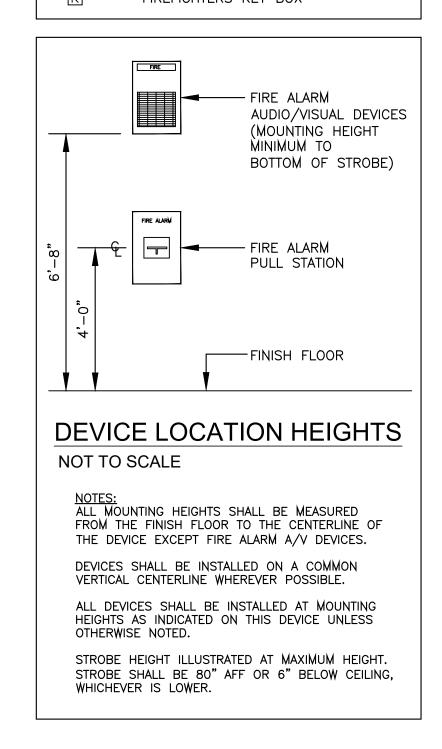
SPEAKER/VISUAL CEILING

INDEPENDENT ADDRESSABLE MODULE

FACP FIRE ALARM CONTROL PANEL

FIRE ALARM BEACON

FIREFIGHTERS KEY BOX



SHEPHERD ENGINEERING, INC.

ELECTRICAL CONSULTANTS

1308 GRAFTON STREET

WORCESTER, MASSACHUSETTS 01604

PHONE: (508) 757-7793 * FAX: (508) 753-2309

REFERENCE NO.: 24076A

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PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION

02018.04

CITY OF WORCESTER

LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

INTERMEDIATE LEVEL
FLOOR PLAN
LIGHTING AND POWER



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880 781 213 5030 T

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STAMP

SCALE 1/8"=1'-0"

DRAWN BY Author

CHECKED Checker

DATE SEPTEMBER 18, 2024

DRAWING NUMBER

DRAWING INFORMATION

FA1.1

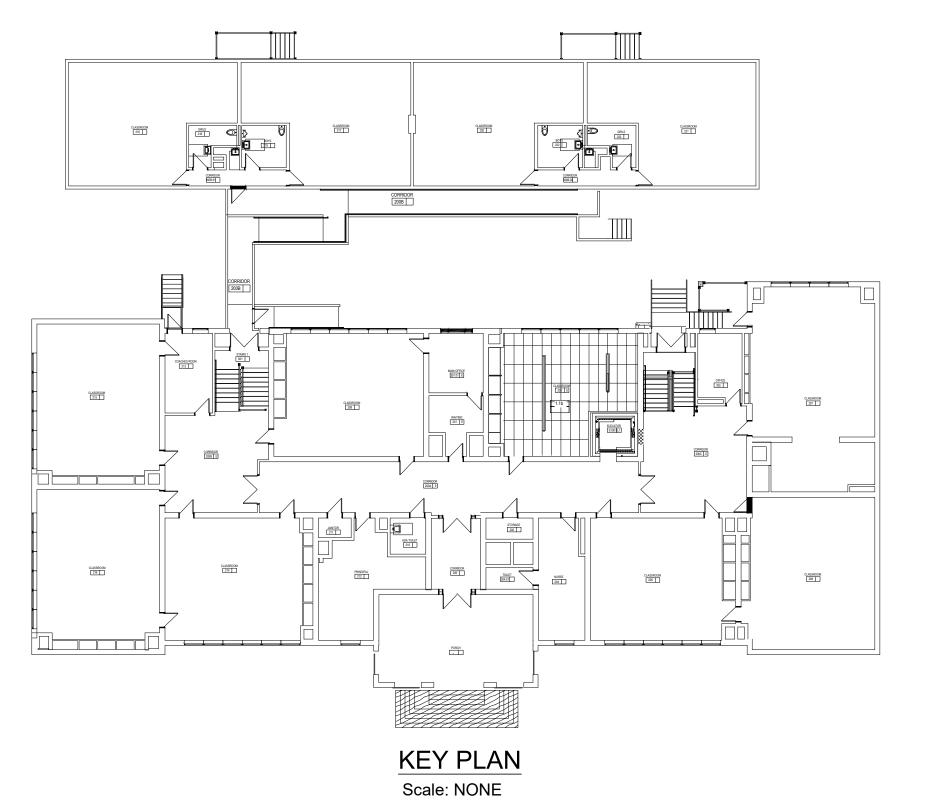
INTERMEDIATE LEVEL FLOOR PLAN - FIRE ALARM
Scale: 1/8"=1'-0"

NOTE:
FIRE ALARM CONDUITS SHALL BE SURFACE MOUNTED IN HALLWAYS. FIRE ALARM CONDUITS SHALL BE RUN ABOVE ATC CEILINGS IN CLASSROOMS.

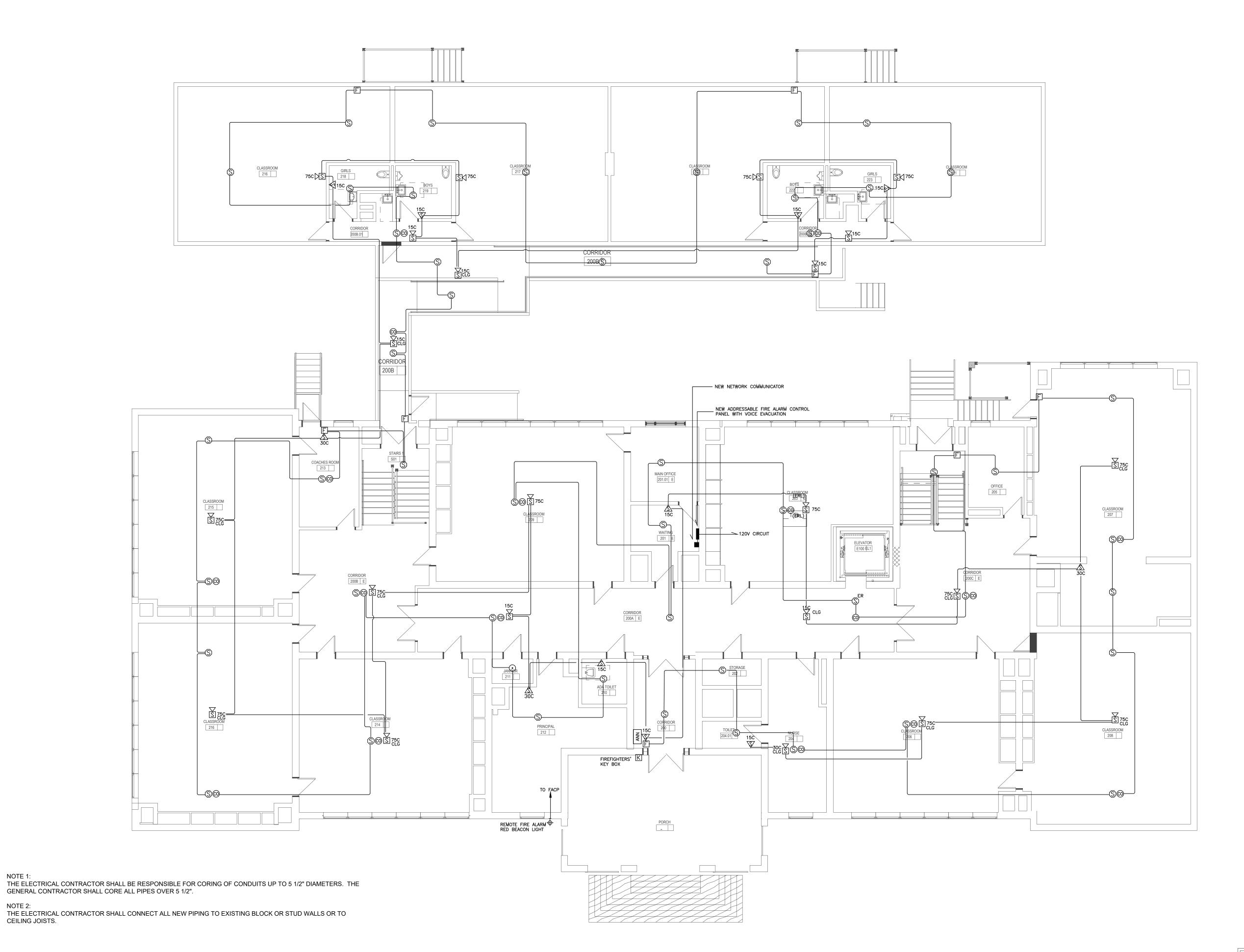
NOTE:
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CEILING JOISTS.



E PULL STATION

S PHOTO-ELECTRIC SMOKE DETECTOR

Ser PHOTO-ELECTRIC SMOKE DETECTOR
ELEVATOR RECALL

CARBON MONOXIDE DETECTOR

HEAT DETECTOR

STROBE

STROBE

SPEAKER/VISUAL

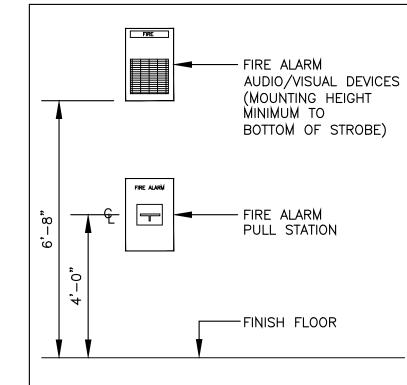
SCLG SPEAKER/VISUAL CEILING

INDEPENDENT ADDRESSABLE MODULE

FACP FIRE ALARM CONTROL PANEL

FIRE ALARM BEACON

K FIREFIGHTERS KEY BOX



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L BE MEASURED
THE CENTERLINE OF ARM A/V DEVICES.

ON A COMMON

(FD. BOSCIPI F.

PROJECT NUMBER 02018.04

ELECTRICAL CONSULTANTS

1308 GRAFTON STREET
WORCESTER, MASSACHUSETTS 01604

PHONE: (508) 757-7793 * FAX: (508) 753-2309

REVISIONS

DESCRIPTION DATE

REFERENCE NO.: 24076A

NUMBER

OWNER / PROJECT NAME / LOCATION

CITY OF WORCESTER

LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

DRAWING TITLE
FIRST FLOOR PLAN
FIRE ALARM



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

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ТАМР

DRAWING INFORMATION

SCALE 1/8"=1'-0"

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DRAWING NUMBER

DATE

KEY PLAN

FIRST FLOOR PLAN - FIRE ALARM

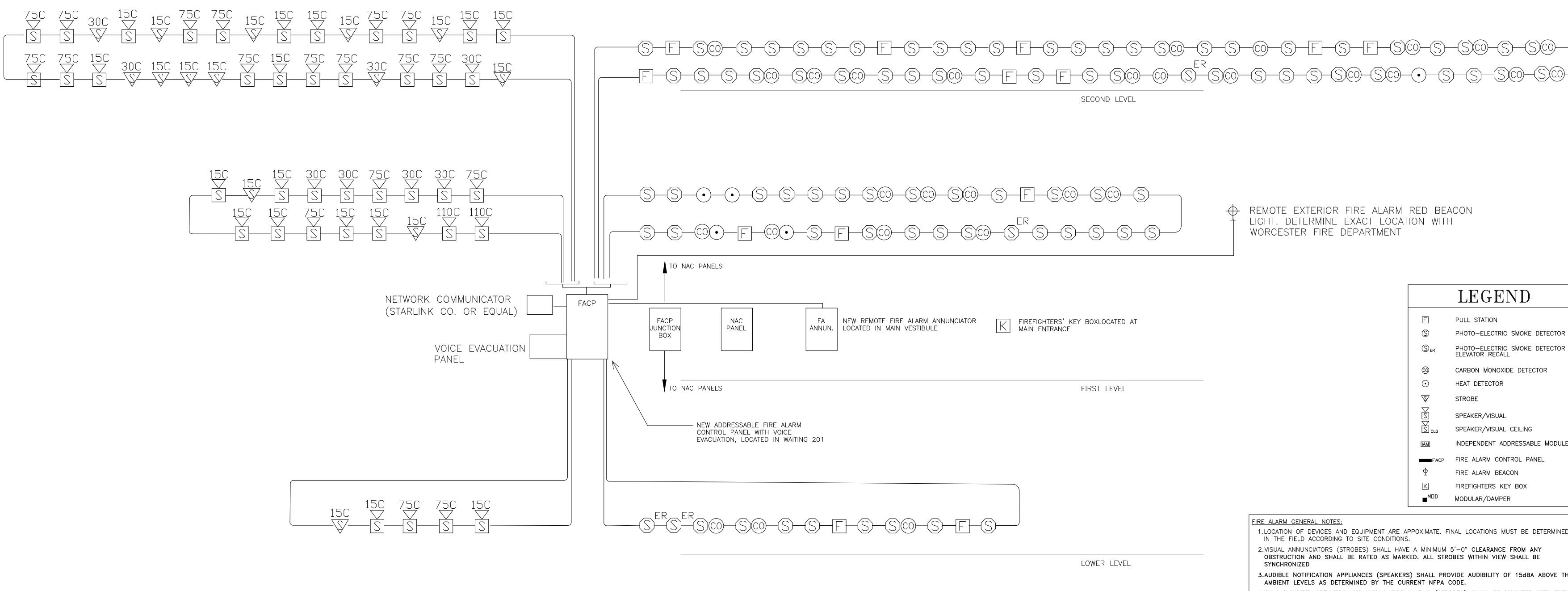
Scale: 1/8"=1'-0"

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FIRE ALARM RISER

ONCE THE NEW SYSTEM IS OPERATIONAL

Scale: NTS

INSTALL A PHOTO-ELECTRIC SMOKE DETECTOR ABOVE EACH NAC PANEL, IF THERE IS NOT ALREADY ONE WITHIN A FIVE FOOT RADIUS, AND INTEGRATE INTO THE NEAREST INITIATING LOOP.

IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR (WITH THE MANUFACTURER) TO DETERMINE THE QUANTITY OF NAC PANELS REQUIRED FOR THE SYSTEM.; AND TO COORDINATE WITH THE GENERAL CONTRACTOR TO DETERMINE THE BEST LOCATION FOR THE NAC PANELS ON SITE.

NOTE 3: THE EXISTING FIRE ALARM CONTROL PANEL LOCATED IN THE EXISTING BASEMENT BOILER ROOM SHALL REMAIN OPERATIONAL UNTIL THE NEW SYSTEM IS INSTALLED, TESTED AND OPERATIONAL. THE EXISTING FIRE ALARM SYSTEM, INCLUDING PANELS, DEVICES, WIRING, ETC., SHALL BE COMPLETELY REMOVED

FIRE ALARM MATRIX NOTE: THE ELECTRICAL CONTRACTOR, THROUGH THE MANUFACTURER, SHALL PROVIDE A FIRE ALARM MATRIX INTENDED TO ILLUSTRATE EACH INPUT AND OUTPUT REQUIRED FOR THIS SYSTEM. THE EQUIPMENT SUPPLIER SHALL CREATE A MATRIX INCLUDING EACH INPUT WITH ASSOCIATED ADDRESS AND DEFINE THE REQUIRED SEQUENCE. TEXT DESCRIPTORS SHALL MATCH THE EXACT ALPHANUMERIC DESCRIPTOR TO BE USED FOR PROGRAMMING ALL DEVICES.

SUPERVISORY SIGNAL TRANSMISSIONS SHALL BE PER NFPA-2013 SECTION 10.

REMOTE EXTERIOR FIRE ALARM RED BEACON LIGHT. DETERMINE EXACT LOCATION WITH WORCESTER FIRE DEPARTMENT

> LEGEND PULL STATION PHOTO-ELECTRIC SMOKE DETECTOR CARBON MONOXIDE DETECTOR HEAT DETECTOR STROBE SPEAKER/VISUAL SPEAKER/VISUAL CEILING FIRE ALARM CONTROL PANEL FIRE ALARM BEACON FIREFIGHTERS KEY BOX ■^{M□D} MODULAR/DAMPER

FIRE ALARM GENERAL NOTES:

1.LOCATION OF DEVICES AND EQUIPMENT ARE APPOXIMATE. FINAL LOCATIONS MUST BE DETERMINED IN THE FIELD ACCORDING TO SITE CONDITIONS.

2. VISUAL ANNUNCIATORS (STROBES) SHALL HAVE A MINIMUM 5'-0" CLEARANCE FROM ANY OBSTRUCTION AND SHALL BE RATED AS MARKED. ALL STROBES WITHIN VIEW SHALL BE

3.AUDIBLE NOTIFICATION APPLIANCES (SPEAKERS) SHALL PROVIDE AUDIBILITY OF 15dBA ABOVE THE AMBIENT LEVELS AS DETERMINED BY THE CURRENT NFPA CODE. 4. WALL MOUNTED SPEAKERS AND VISUAL FIRE ALARMS (STROBES) SHALL BE MOUNTED WITH THEIR TOPS NO LESS THAN 90" A.F.F. WHERE LOCAL CONDITIONS DIFFER, INSTALL THE STROBES AT 6"

5.MANUAL PULL STATIONS SHALL BE MOUNTED BETWEEN 43" AND 48" FROM FINISHED FLOOR TO

ACTIVATION HANDLE. 6.ALL MANUAL PULL STATIONS SHALL BE PROVIDED WITH A FALSE ALARM STOPPER COVER. 7.RISER DIAGRAM IS FOR DESIGN PURPOSES ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING SHOWN.

8.EACH FIRE ALARM INITIATING AND INDICATING CIRCUIT SHALL BE ELECTRICALLY SUPERVISED. 9.EACH VISUAL FIRE ALARM CIRCUIT SHALL CONTAIN AT LEAST 20% SPARE CAPACITY. 10. ALL FIRE ALARM DEVICES AND JUNCTION BOXES SHALL BE PROPERLY LABELED WITH MINIMUM 1/4" HIGH LETTERS USING LABELS THAT WILL ADHERE PERMANENTLY TO THE DEVICE. 11. ALL LOW VOLTAGE WIRING TO DEVICES MUST BE A MINIMUM OF #14 AWG AND HAVE A RED COLORED JACKET WITH A MINIMUM THICKNESS OF 25 MILS.

12. ALL WIRING SHALL BE IN MINIMUM 3/4" EMT CONDUIT, UNLESS OTHERWISE NOTED. 13. A FIRE ALARM SYSTEM TEST WILL BE PERFORMED BY THE CONTRACTOR AS PER MASSACHUSETTS BUILDING CODE.

14. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORING OF CONDUITS UP TO 5 1/2" IN DIAMETER. THE GENERAL CONTRACTOR SHALL CORE FOR ALL PIPES OVER 5 1/2". 15. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL NEW PIPING TO EXISTING BLOCK/STUD WALLS OR TO CEILING JOISTS.

PHOTO-ELECTRIC SMOKE DETECTOR ELEVATOR RECALL . INDEPENDENT ADDRESSABLE MODULE ____

CONSTRUCTION DOCUMENTS

PROJECT NUMBER 02018.04

SHEPHERD ENGINEERING, INC ELECTRICAL CONSULTANTS 1308 GRAFTON STREET WORCESTER, MASSACHUSETTS 01604

PHONE: (508) 757-7793 * FAX: (508) 753-2309

REVISIONS

DESCRIPTION

REFERENCE NO.: 24076A

NUMBER

OWNER / PROJECT NAME / LOCATION

CITY OF WORCESTER

LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

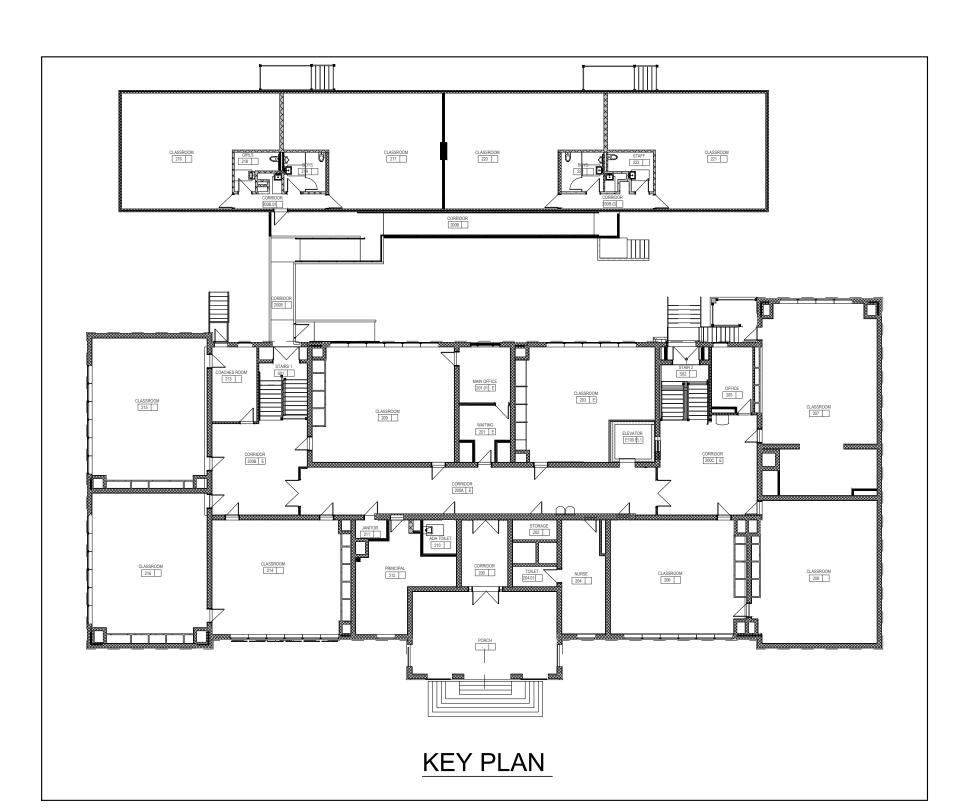
DRAWING TITLE FIRE ALARM RISER

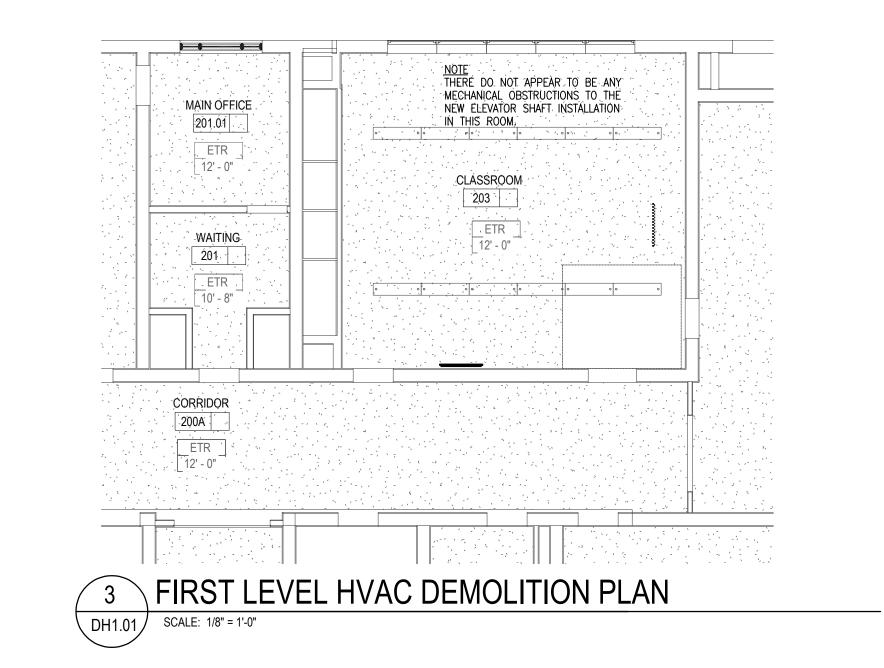
> MOUNT VERNON GROUP ARCHITECTS

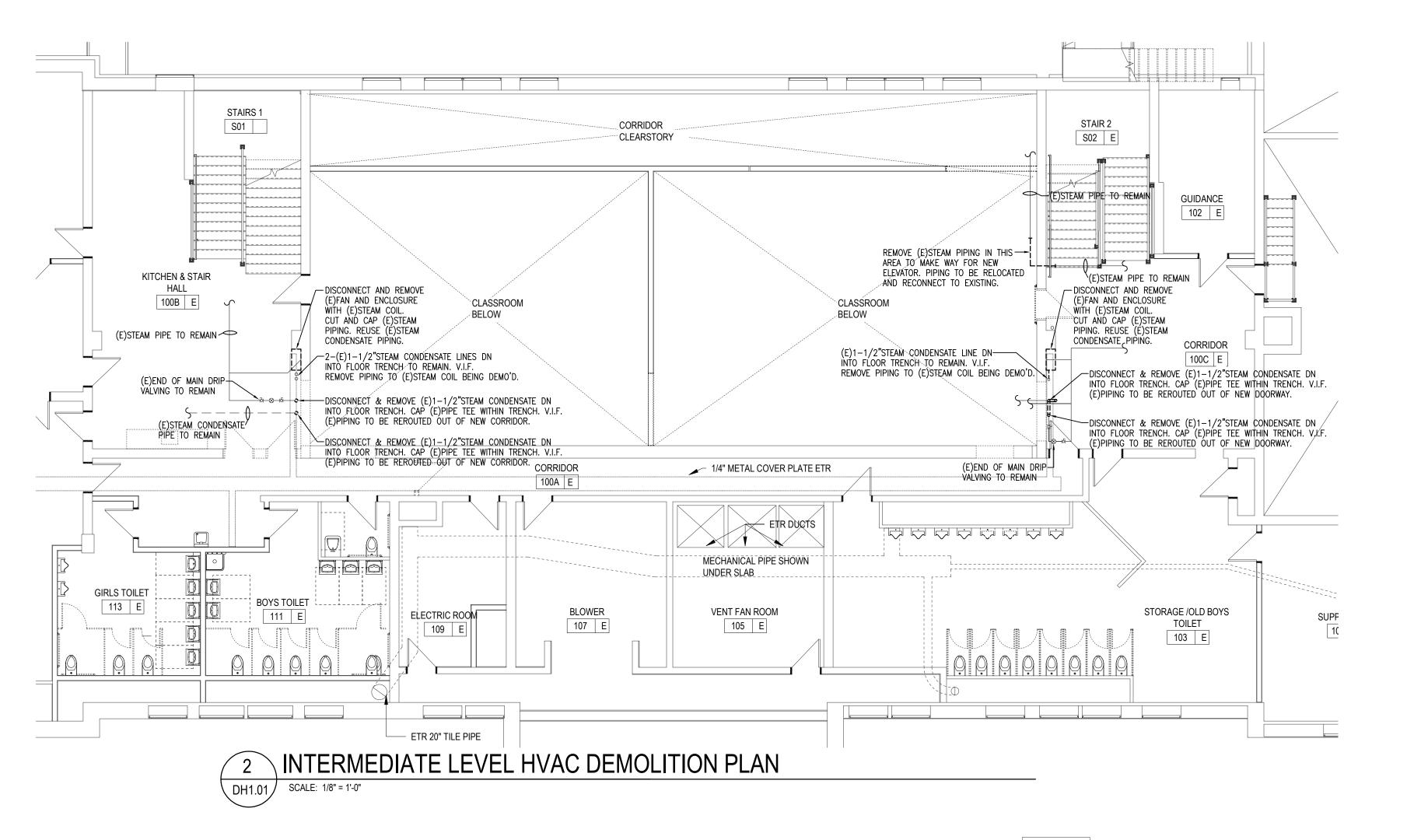
178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

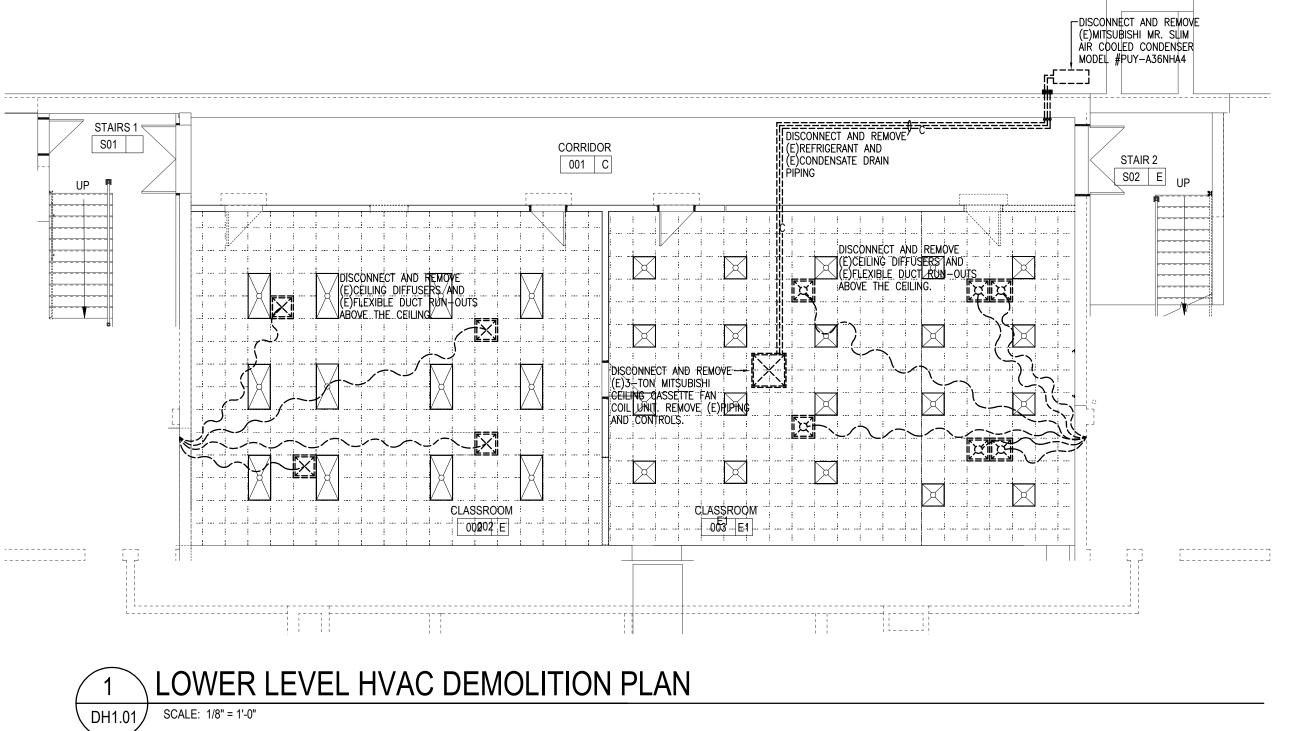
781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

DRAWING NUMBER











REVISIONS					
NUMBER	DESCRIPTION	DATE			

PROJECT PHASE

CONSTRUCTION DOCUMENTS

PROJECT NUMBER

OWNER/PROJECT NAME/LOCATION

CITY OF WORCESTER

02023.10

LINCOLN ELEMENTARY SCHOOL

WORCESTER, MA

HVAC DEMOLITION
PLANS - LOWER LEVEL,
INTERMEDIATE LEVEL
and FIRST FLOOR /

NOTES



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781 213 5040 F

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DRAWING INFORMATION

SCALE 1/8" = 1'-0"

DRAWN BY CDR

DRAWING NUMBER

DH1.01

	ENERGY RE	COVERY	UNIT SC	HEDULE						
UNIT	NUMBER	ERV-1								
MANL	JFACTURER		GREEN	HECK						
MODE	L NUMBER		MINIVENT-75	0-VG-0SRE						
AREA	SERVICING		FIRST FLOO	R SPACES						
DIME	NSIONS (L X W X H)		46" X 35	" X 24"						
WEIGH	HT (LBS)		24	0						
ENER	GY RECOVERY DEVICE/MEDIA		WHEEL /	POLYMER						
SERV	ICE	OUTDOO	R AIR	EXHAUST AIR						
SEAS	ON	SUMMER	WINTER	SUMMER	WINTER					
	FLOW RATE (CFM)	5	00	500						
AIR	TEMP. ENTERING (DB/WB)	95°F/75°F	0°F/-1.5°F	75°F/62.5°F	72°F/55.7°F					
DATA	TEMP. LEAVING (DB/WB)	78.4°F/65.2°F	58.0°F/47.2°F	_	_					
	EXT. STATIC PRESS.	0.	75"	0.75"						
TOTAL	EXCHANGER EFFICIENCY	81%	79%	81%	79%					
SUPP	LY FAN MOTOR BHP/HP/RPM	0.19 / 0.75 / 1725								
EXHA	UST FAN MOTOR BHP/HP/RPM	0.27 / 0.75 / 1725								
MCA		12.4								
MOPD (A)		15								
VOLTS	S-PH-HZ		208-	1-60						
NOTE	ς.	- MEI	RV 8 PLEATED	2" INTAKE FII	_TERS					
NOTES:			1							

1 PROVIDE INDOOR HORIZONTAL DISCHARGE CONFIGURATION FOR UNIT,

② PROVIDE ECM MOTORS ON BOTH FANS
③ PROVIDE WASHABLE FACTORY STANDARD PRE-FILTER ON RETURNAIR AND OUTDOOR AIR INTAKE SIDE OF POLYMER WHEEL

EQUIPMENT NOTES:

FC-A/HP-A 1-TON DUCTLESS SPLIT HEAT PUMP SYSTEM, R-32 REFRIGERANT OUTDOOR UNIT POWER: 208 VOLT-1ø-60HZ, MCA=9.36A, MOCP=15A. COOLING INPUT POWER = 3.52 KW; HEATING INPUT POWER = 3.96 KW SEER2 = 21, EER2 = 12.5, HSPF2 = 10.2; COP = 3.8; MAX. PIPING LENGTH = 66 FT INDOOR WALL MOUNTED FAN COIL/EVAPORATOR DAIKIN MODEL #FTXF12AXVJU, 20.9 LBS 473/436/316/247/132 CFM @ HH, H, M, L, SL SPEEDS 12,000 BTUH TOTAL; 9,540 BTUH SENSIBLE COOLING CAPACITY 14,600 BTUH MAXIMUM & 4,400 BTUH MINIMUM COOLING CAPACITY 13,500 BTUH TOTAL HEATING CAPACITY 18,000 BTUH MAXIMUM & 4,400 BTUH MINIMUM HEATING CAPACITY POWERED BY OUTDOOR UNJIT PROVIDE REMOTE PROGRAMABLE SMART THERMOSTAT ACCESSORY. 3/8" GAS, 1/4" LIQUID REFRIGERANT CONNECTIONS. 5/8" CONDENSATE DRAIN CONNECTION. OUTDOOR CONDENSING UNIT: DAIKIN MODEL #RXF14AXVJU AIRFLOW = 1051 CFM, WEIGHT = 60 LBS INVERTER COMPRESSOR; COOLING OPERATION RANGE: 50 - 118°F HEATING OPERATION RANGE: 5 - 65°F MOUNT UNIT 18" ABOVE ROOF ON MINI-SPLIT SNOW STAND WITH OPEN BASE PROVIDE PART #DACA-CP4-1 MINI WHITE PUMP KIT 100-250V

INDEECO MODEL# QUA-10x10; 4 KW @ 208 VOLT 1Ø: 13,652 BTUH HEAT OUTPUT; 10"X10" DUCT 485 CFM FOR EDH-4 WITH 28.1'F TEMPERATURE RISE; 57.8' EAT / 85.9'F LAT 465 CFM FOR EDH-5 WITH 29.3'F TEMPERATURE RISE; 58.2' EAT / 87.5'F LAT PROPORTIONAL HEATING. INCLUDE CONTROL OPTION K. CONTROL OPTION K SHALL INCLUDE THE FOLLOWING; DISC TYPE AUTOMATIC AND MANUAL RESET THERMAL CUTOUTS, DIFFERENTIAL PRESSURE AIRFLOW SWITCH, DE-ENERGIZING MAGNETIC CONTACTORS, FUSES, CONTROL CIRCUIT TRANSFORMER W/ 24 VOLT SECONDARY, BUILT-IN SNAP ACTING DISCONNECT SWITCH WITH DOOR INTERLOCK. ALSO PROVIDE WALL MOUNTED LOW VOLTAGE PROPORTIONAL CONTROL THERMOSTAT. THIS OPERATES IN THE WINTER OR WHENEVER THE EAT IS BELOW 72'F

DI	FFUSER	& GRIL	LE SCH	HEDULE
	KEY	SD-1	SD-2	RG-1
	MANUFACTURER	PRICE	PRICE	PRICE
	MODEL	SMDA	SMDA	530D
	NECK SIZE	12"x12"-10"ø	12"x12"-10"ø	12"x12"-10"ø
	MODULE SIZE	24"X24"	24"X24"	24"X24"
	BORDER	LAY-IN	LAY-IN	LAY-IN
	FINISH	SEE NOTE 3	SEE NOTE 3	SEE NOTE 3
	THROW PATTERN	3-WAY	4-WAY	45° FIXED
	DAMPER	OBD	OBD	OBD
	NOTES	2 1	21	2 1

PROVIDE SQUARE TO ROUND DUCT TRANSITION ABOVE RGD
 COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL LOCATION & BORDER TYPE (STANDARD LAY-IN (NARROW TEE) AND SURFACE)
 SUBMIT COLOR CHART TO ARCHITECT FOR COLOR SELECTION.

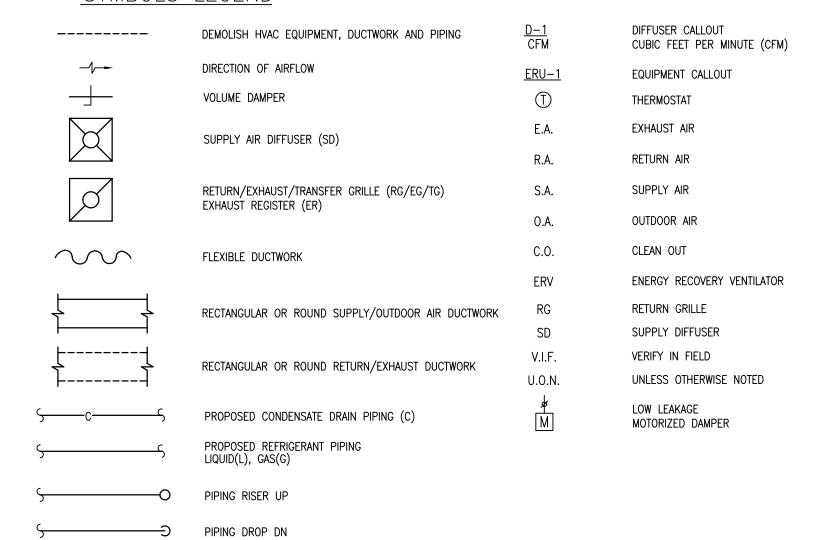
OU ⁻	TDO	OR AIR COOLED MULTI-SPLIT	HEAT PUMP	UNIT SCHEDULE	
	UNIT	NUMBER	A	CHP-1	
	SER\	VICE	CLASSROOM	MS 002 & 003	
	MAN	UFACTURER	DAIKIN		
	MOD	EL NUMBER	4MXl	_36WVJU9	
	NOM	INAL TONNAGE / # OF PORTS	3.	0 / 4	
	SEE	R / EER (NONDUCTED)	21.7	/ / 12.5	
	HSP	C / COP (NONDUCTED)	11.2	4.26	
Ε	POW	ER SOURCE	208V-	-1ø-60Hz	
L	SYS	TEM MCA / MFA	32.	5 / 35	
E C	СОМ	PRESSOR RLA		27	
	OUTI	DOOR FAN MOTOR W / FLA	84	/ 1.15	
	TYPE	<u> </u>	PROPEL	LER FAN x1	
F A	AIRF	LOW RATE - COOLING H/M/L (CFM)	3,684 / 3	3,029 / 2,756	
Ñ	FAN	SPEEDS	HIGH, M	MEDIUM, LOW	
	OPE	RATING SOUND (dB-A)		53	
С	TYPE		HERMETICALLY S	SEALED SWING TYPE	
0 M	REF	RIGERANT	F	R410A	
P	REF	RIGERANT CHARGE @ FACTORY	8.	60 LB	
C D		SERVICE	COOLING	HEATING	
A A P T A A C	AID.	RATED CAPACITY (BTUH)	34,400	36,600 @ 47°F 36,600 @ 5°F (COP=2.0 @ 5°F)	
I	AIR	OPERATING RATING 'F	14°F – 115°F	-13°F - 60°F	
T Y	DATA	INDOOR RATING 'F (DB/WB)	80 / 67	70 / 60	
		OUTDOOR RATING 'F (DB/WB)	95 / 75	47 / 43 & 5 / 5	
	UNIT	DIMENSIONS (HxWxD)	34-1/4"x43-5/16"x18-1/8"		
	INFO.	NEW WEIGHT (LBS)	214		
		REFRIG. TUBE CONN. (GAS)	3/8"; (2)1/2"; 5/8"		
		REFRIG. TUBE CONN. (LIQUID)	<u> </u>	4)1/4"	
		MAX ALLOWABLE TUBING LENGTH (FT)	98'/UNIT, 230'/SYSTEM		
		MAX HEIGHT DIFFERENCE - IDU TO ODU	49.25'		

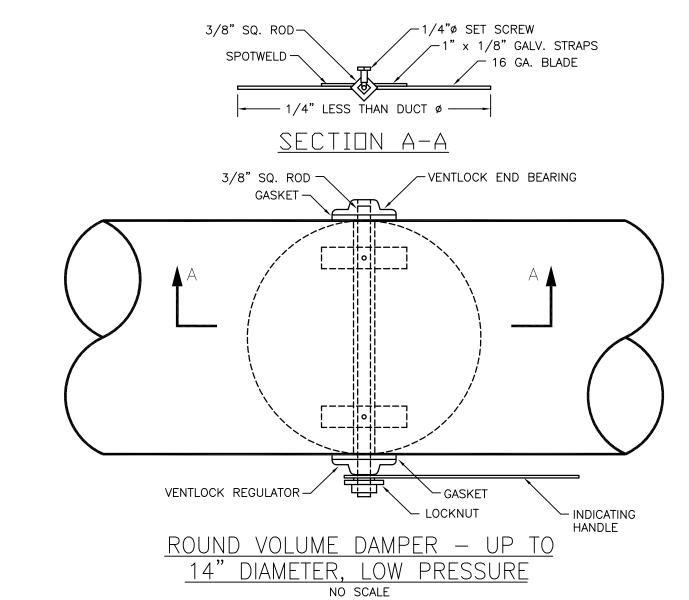
1. PROVIDE HEAT PUMP UNIT SNOW STAND TO ELEVATE UNIT 18" ABOVE THE ROOF MINIMUM BY QUICK-SLING, DIVERSITECH, BIG FOOT OR EQUAL.

FAI	4 COIL	UNIT FOR MULTI—SPI	LIT UNITS SCHEDULE		
	UNIT N	JMBER	FC-1, FC-2A, FC-2B		
	SERVICE	-	SEE PLANS		
	STYLE		CEILING CASSETTE		
	MANUFA	CTURER	DAIKIN		
	MODEL	NUMBER	FFQ12W2VJU9		
F	C.F.M.	(HIGH/MEDIUM/LOW)	406 / 353 / 268		
A	OPERAT	ING SOUND (dB-A) H-M-L	39 / 36 / 30		
S	POWER	INPUT (WATTS)	23		
	VOLTS -	– PH – Hz	208V-1ø-60Hz		
	RUNNIN	G AMPERE (AMPS)	0.27		
	MAXIMU	M OVERCURRENT PROTECTION	15		
C D		SERVICE	COOLING/HEATING		
O A I T	AIR	NOMINAL CAPACITY (BTUH)	12,000		
LA	DATA	TEMP. ENTERING (DB/WB)	80 / 67 SUMMER & 70 / 60 WINTER		
		OUTDOOR TEMPERATURE RATING	95°F SUMMER / 0°F WINTER		
	UNIT	DIMENSIONS (H X W X D)	10-1/4" X 22-5/8" X 22-5/8"		
	INFO.	NEW WEIGHT (LBS)	36		
		LIQUID PIPING CONN.	1/4"		
		SUCTION (GAS) PIPING CONN.	3/8"		
		DRAIN PIPE DIMENSION (OD)	1-1/32"		

NOTES: 1) REFER TO MANUFACTURER'S DATA FOR ADDITIONAL OPTIONS AND CONTROL INFORMATION.
2) STANDARD EQUIPMENT INCLUDES PART #6017755 DRAIN PUMP AND PART #2139531 FLOAT SWITCH
3) PROVIDE NAVIGATION REMOTE CONTROLLER MODEL #BRC1E73

SYMBOLS LEGEND



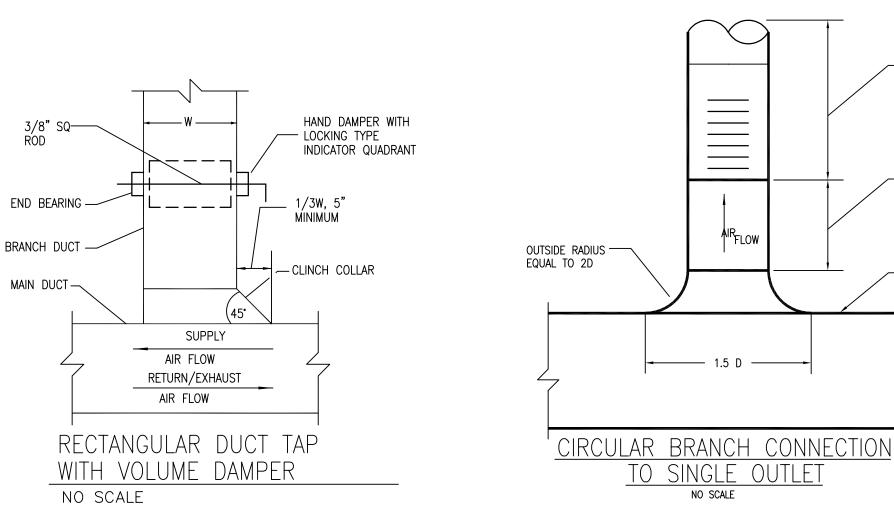


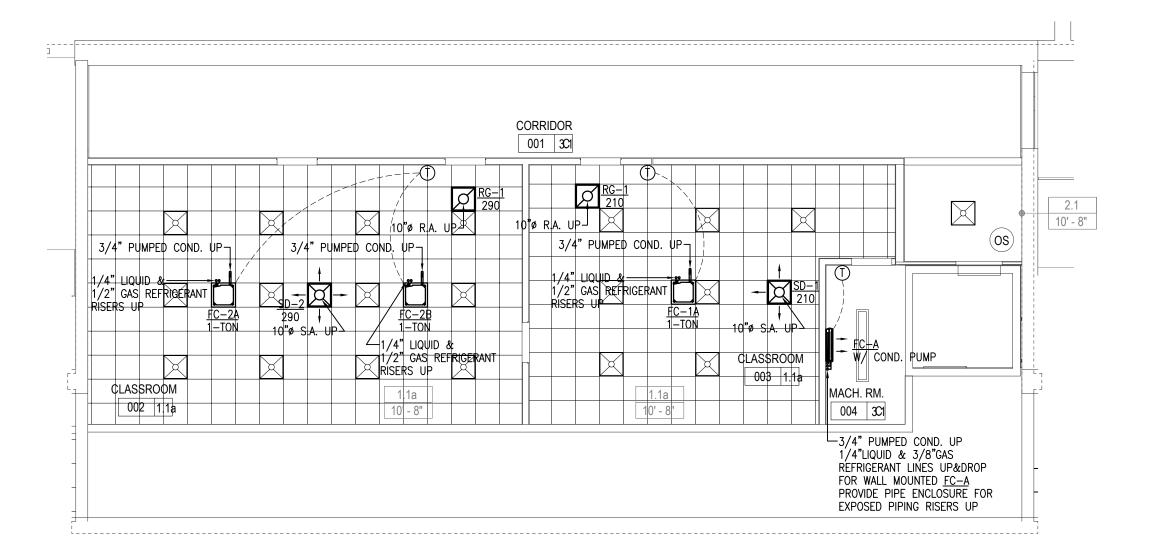
— FLEXIBLE DUCT TO TROFFER OR DIFFUSER

-SHEET METAL

AS REQUIRED

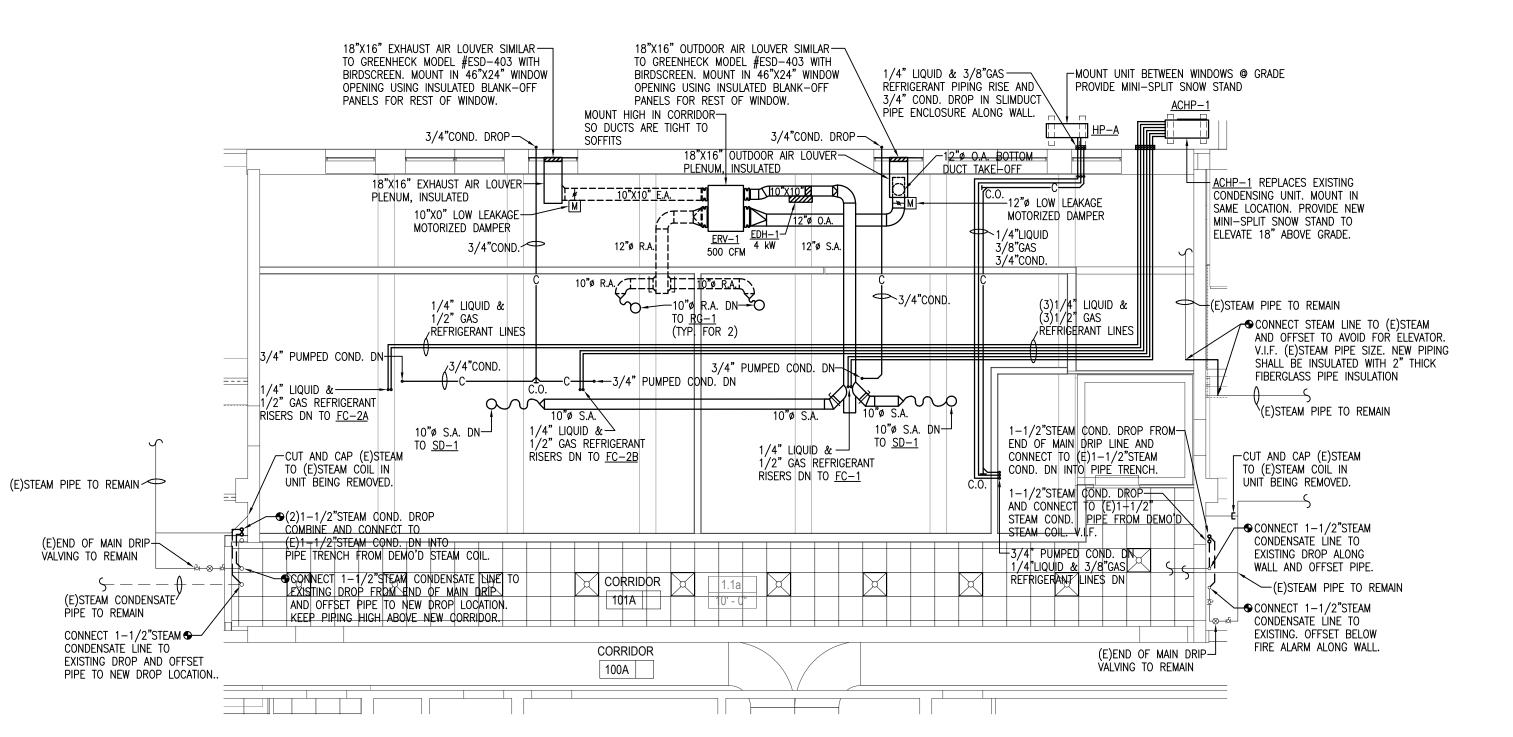
- MAIN DUCT





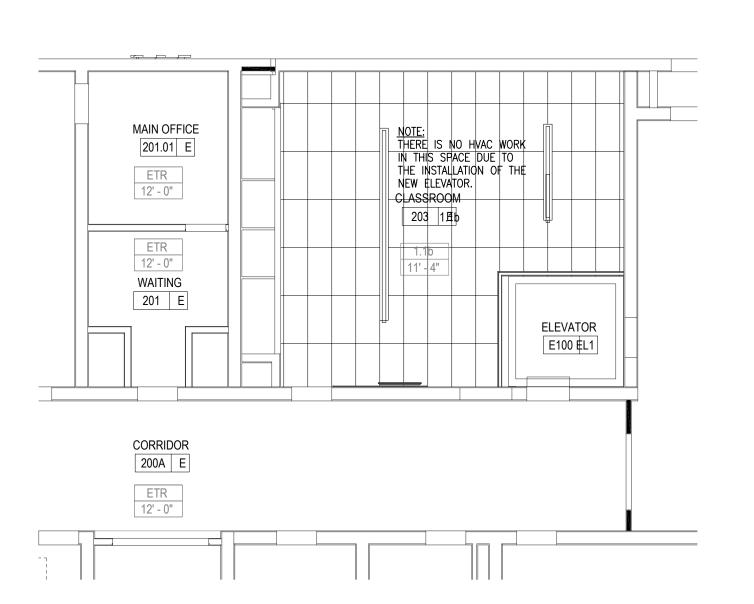
PROPOSED PARTIAL HVAC PLAN - BASEMENT LEVEL

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



PROPOSED PARTIAL HVAC PLAN - INTERMEDIATE LEVEL

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



3 PROPOSED PARTIAL HVAC PLAN - FIRST LEVEL

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



	REVISIONS	
NUMBER	DESCRIPTION	DATE
PROJECT PHA	ASE	
	DI ICTION	
$I \cup I \cap I \cap I$		

PROJECT PHASE

CONSTRUCTION

DOCUMENTS

PROJECT NUMBER 02023.10

OWNER / PROJECT NAME / LOCATION

CITY OF WORCESTER

LINCOLN ELEMENTARY

SCHOOL

WORCESTER, MA

PROPOSED PARTIAL
HVAC PLANS LOWER LEVEL,
INTERMEDIATE LEVEL &
FIRST FLOOR



178 Albion Street, Suite 240 Wakefield, Massachusetts 01880

> 781 213 5030 T 781 213 5040 F info@mvgarchitects.com E

STAMP

SCALE 1/8" = 1'-0"

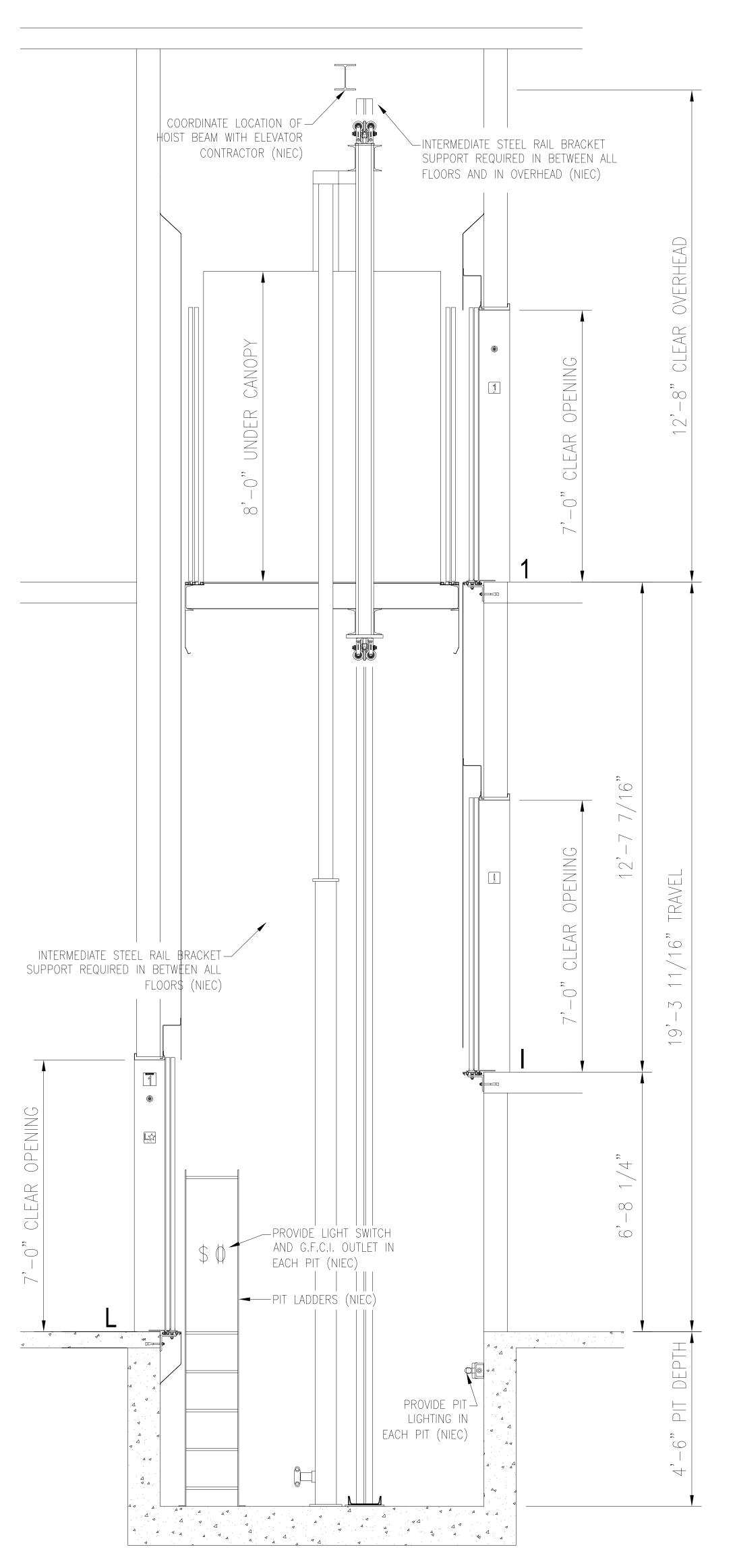
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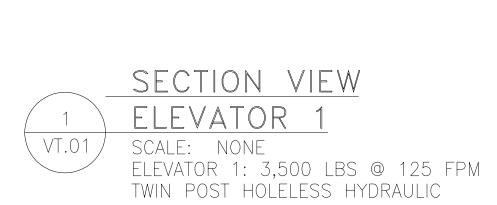
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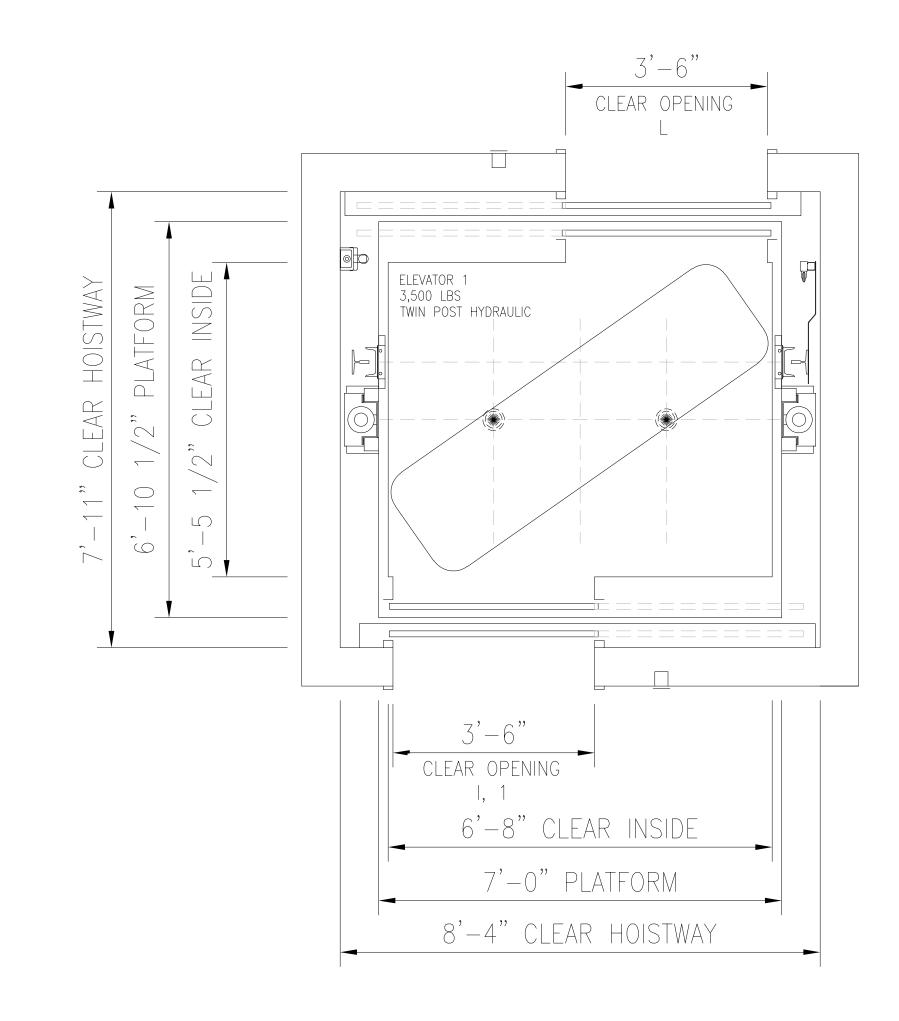
DATE SEPTEMBER 18, 2024

DRAWING NUMBER

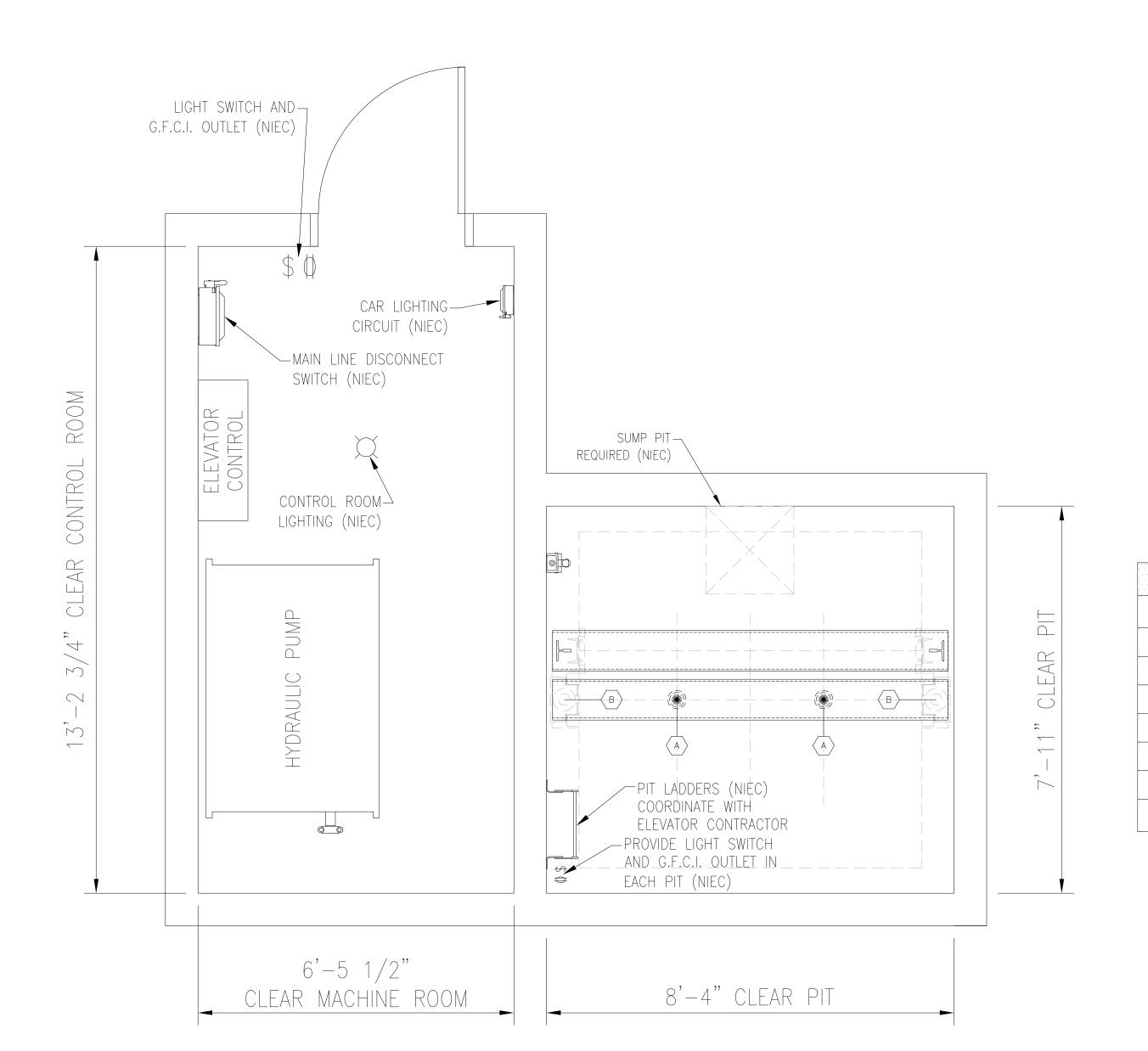
H1.01







	HOISTWAY PLAN
	HUISIVVAI FLAN
2	ELEVATOR 1
VT.01	SCALE: NONE
	ELEVATOR 1: 3,500 LBS @ 125 FPM
	TWIN POST HOLELESS HYDRAULIC



	PIT REACTION	TABLE
KEY	REACTION	DUTY
A	18,425 LBS	
B	8,166 LBS] 3,500 LBS. AT 125 FPM
		120 11 11
REACTION	ONS HAVE BEEN DOUB	LED FOR IMPACT

PIT / CONTROL ROOM PLAN

3 ELEVATOR 1
/T.01 SCALE: NONE

ELEVATOR 1: 3,500 LBS @ 125 FPM TWIN POST HOLELESS HYDRAULIC CONTROL ROOM LOCATED AT LOWER LEVEL

	U١	NIT.	1					OCCURING ON
		R1	575 LBS					FACE OF MAIN GUIDE
NORMAL		R2	384 LBS					SIDE OF MAIN GUIDE
		CAR SAFFTY	N/A					FORCE TRANSMITTED TO PIT CAR SAFETY APPLICATION *
		CWT SAFETY	N/A					FORCE TRANSMITTED TO PIT CWT SAFETY APPLICATION *
	24	R1	N/A					FACE OF MAIN GUIDE **
SEISMIC	CAR	R2	N/A					SIDE OF MAIN GUIDE - LOADING OR RUNNIN **
SEIS		R1	N/A					FACE OF COUNTERWEIGHT GUIDE **
	CWT	R2	N/A					SIDE OF COUNTERWEIGHT GUIDE **
*	POIN	OF SUP	PORT NOT IN	EXCESS OF	1/8" DURING N	TH A TOTAL DEF JORMAL CONDITION H PIT BUFFER I L RESIST HORIZ	ONS	R2 — R2

NOTES: 1. ELECTRIC POWER 2. MAIN POWER SUP# 3. MAIN POWER SUP# 4. A FOURTH WIRE IS AS A GROUND FO 5. PROVIDE ALL COPI	BE PROVIDED AT E PLY DISCONNECTIN S REQUIRED FOR (HP 40 HP E BASED ON TH ACH CONTROLLE	ER THRÓUGH		RUNNING 71 AMPS	HEAT LOAD (E MACHINE RM 23,900	BTU'S / HR) HOISTWAY N/A
ELEVATOR 1 NOTES: I. ELECTRIC POWER 2. MAIN POWER SUP# MAIN POWER SUP# A FOURTH WIRE IS AS A GROUND FO 5. PROVIDE ALL COPI	3,500 125 AND CURRENT ARE BE PROVIDED AT E PLY DISCONNECTIN'S REQUIRED FOR (40 HP BASED ON THACH CONTROLLE	N/A REE (3) PH ER THROUGH	147 AMPS MASE A.C. POWER	71 AMPS		
NOTES: 1. ELECTRIC POWER 2. 2. MAIN POWER TO E 3. 3. MAIN POWER SUPP 4. 4. A FOURTH WIRE IS AS A GROUND FO 5. 5. PROVIDE ALL COPI	AND CURRENT ARE BE PROVIDED AT E PLY DISCONNECTIN'S REQUIRED FOR (E BASED ON TH	REE (3) PH	IASE A.C. POWER		23,900	N/A
1. ELECTRIC POWER 2. MAIN POWER TO E 3. MAIN POWER SUPP 4. A FOURTH WIRE IS AS A GROUND FO 5. PROVIDE ALL COP	BE PROVIDED AT E PLY DISCONNECTIN S REQUIRED FOR (ACH CONTROLLE	ER THRÓUGH		R SUPPLY		
FLOOR AT APPROX 7. THE SELECTION OF CODE, SECTION 62 3. PROVIDE LOCAL TE PROVIDE G.F.C.I.—I	PER CONDUCTORS EMPERATURE TO BI KIMATE CENTER OF F MAIN POWER SU 20-51, ARTICLE 4. ELEPHONE SERVICE PROTECTED PIT, CO	THROUGHOUT E MINIMUM 50 I ROOM — RELA' PPLY DISCONNE 30—52 (EXCEPT L LINE TO EACH DNTROL ROOM,	DEGREES F, TIVE HUMIDI CTING MEAN IONS A, B, CAR CONTI AND OVERH	MAX. 90 DEGR TY MAXIMUM 85 IS TO BE SIZED C) ROLLER (IF APPI EAD OUTLETS	EES F, TO BE I —PERCENT NON IN ACCORDANC LICABLE)	MEASURED 6'-0" A	ABOVE FINISH NAL ELECTRIC
			INAL	SUPPLY			

MACHINERY AND DEVICES SHOWN ON THE FOLLOWING DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. ACTUAL MACHINERY WILL VARY BY MANUFACTURER. WORK INDICATED AS "NOT INCLUDED IN ELEVATOR CONTRACT" (NIEC) IS SHOWN FOR SCOPE CLARITY ONLY. REFER TO TRADE DISCIPLINE SHEETS FOR ACTUAL QUANTITIES AND LOCATIONS TO BE COORDINATED WITH THE ELEVATOR SHOP DRAWINGS.

PROJECT PHASE

100% BID SET CD

PROJECT NUMBER

02023.10

NORTH ARROW

CONSULTANTS

REVISIONS

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DRAWING INFORMATION
SCALE -
DRAWN BY PBU
CHECKED JM

DATE SEPTEMBER 18, 2024

DRAWING NUMBER

VT.01