



BOILER REPLACEMENT & RELATED WORK AT HOLLYWOOD ELEMENTARY SCHOOL

1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

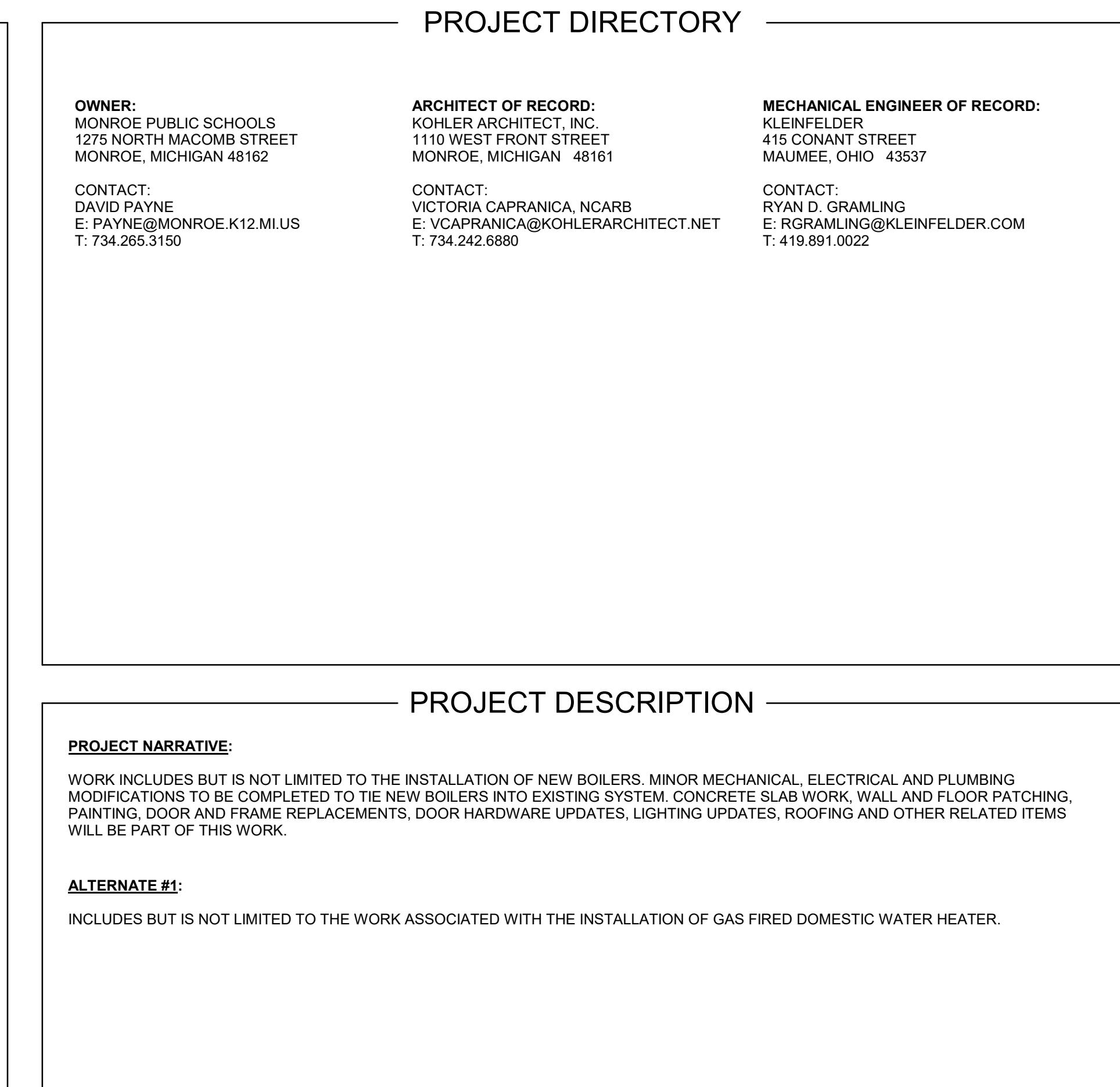
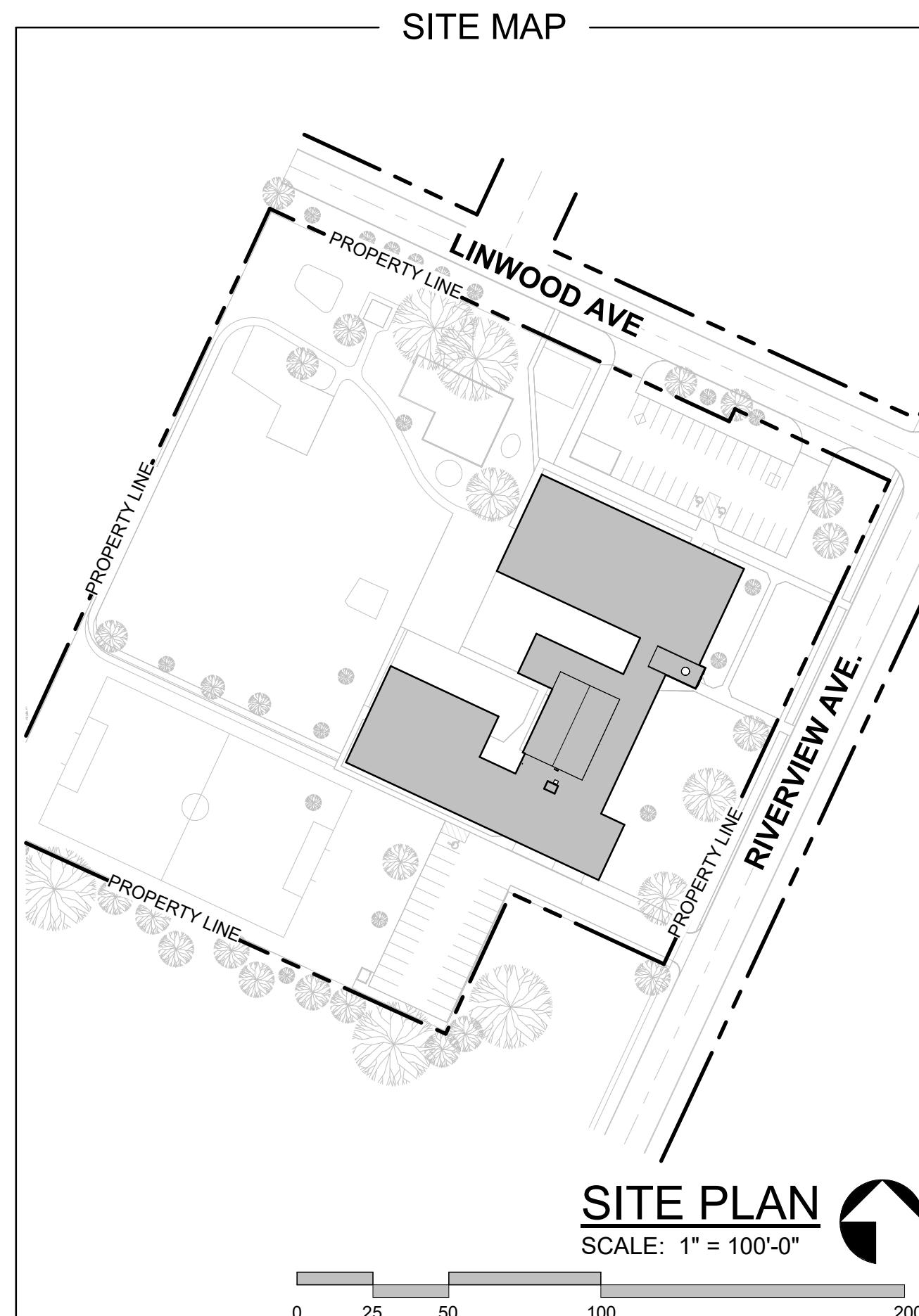
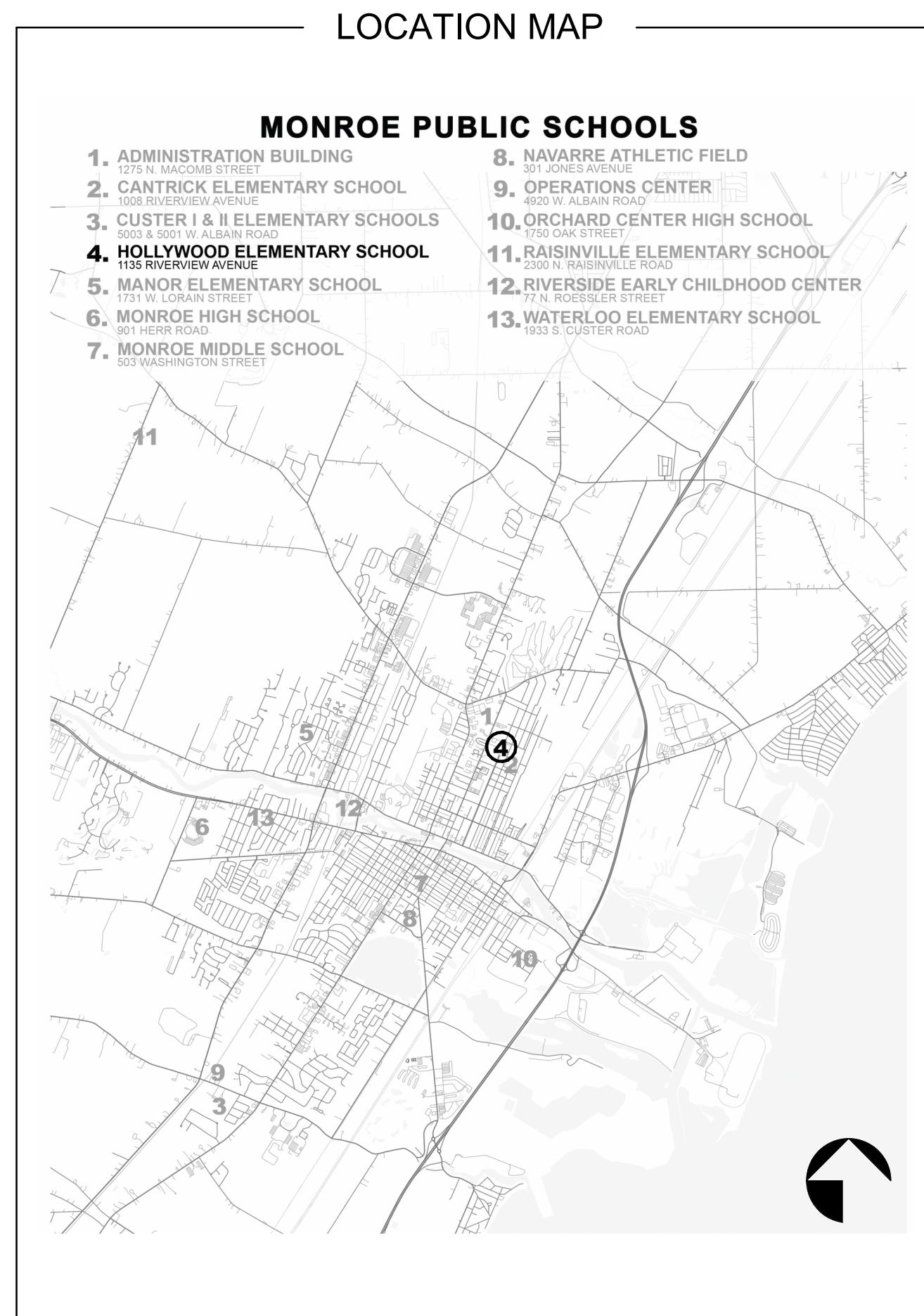


MAKE
Things Better



DATE 02.09.2026 DESCRIPTION BIDDING & STATE REVIEW

BOILER REPLACEMENT & RELATED WORK
HOLLYWOOD ELEMENTARY SCHOOL
1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162
MONROE PUBLIC SCHOOLS
1275 NORTH MACOMB STREET, MONROE, MICHIGAN 48162



DRAWING INDEX

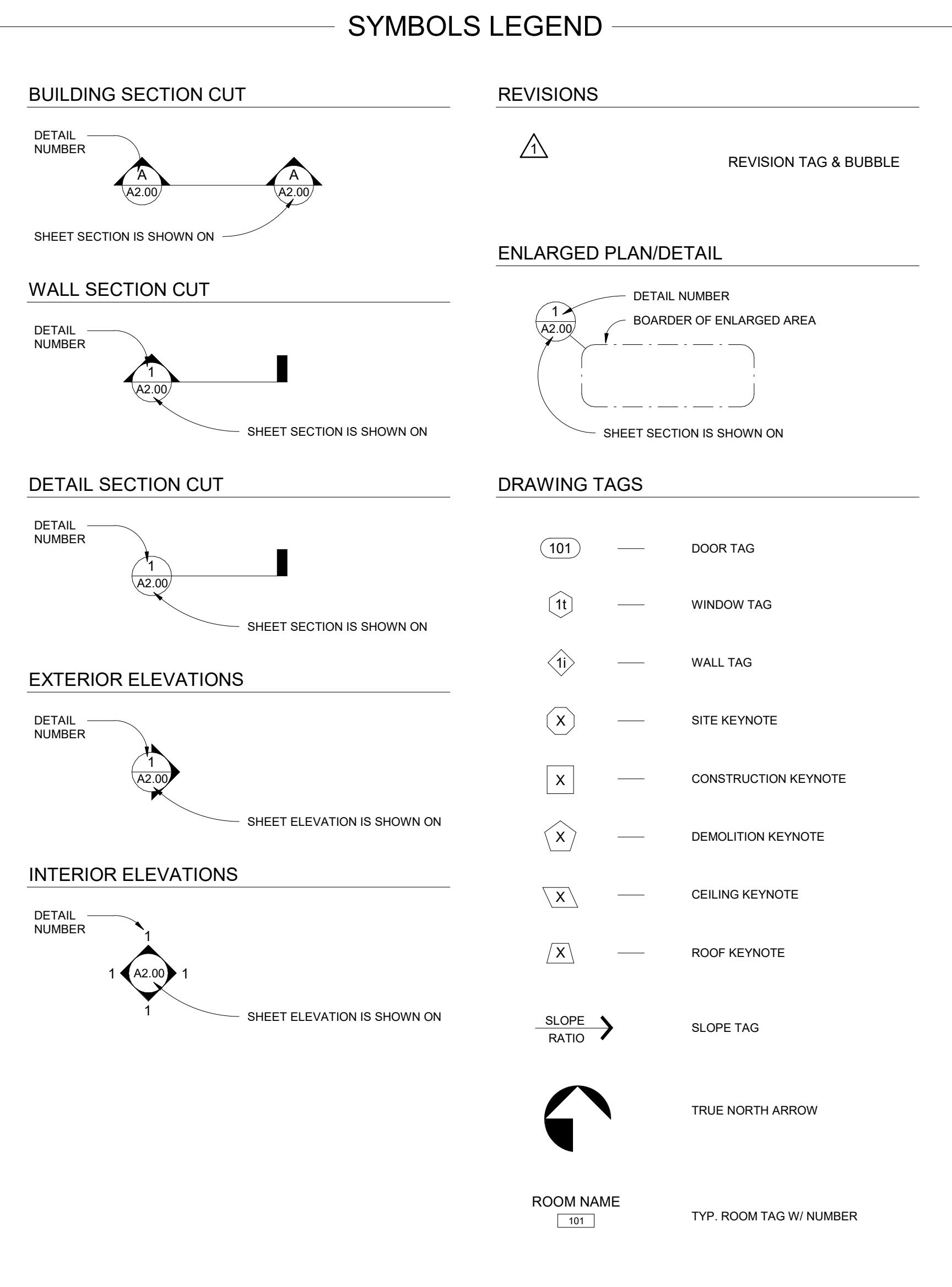
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JOB # 26101
TITLE SHEET
T0.00

ABBREVIATIONS

" INCHES	GFI GROUND FAULT INTERRUPTED	RTU ROOF TOP UNIT
# POUND/NUMBER	GL GLASS	S SOUTH
% PERCENT	GYP. GYPSUM BOARD	S.F. STOREFRONT
& AND	BD. BOARD	SAN. SANITARY
' FEET	SCHED SCHEDULED	SD STORM DRAIN / SMOKE DETECTOR
/ PER	HB HOSE BIBB	SECT. SECTION
< ANGLE	HC HANDICAP ACCESSIBLE	SGT. STRUCTURAL GLAZED TILE
@ AT	HDW HARDWARE	SHT. SHEET
© COPYRIGHT	HDWD HARDWOOD	SHWR. SHOWER
° DEGREE	HM HOLLOW METAL	SIM. SIMILAR
± PLUS/MINUS	HORIZ. HORIZONTAL	SP. SPACES
Ø DIAMETER	HR HOUR	SPEC. SPECIFICATION
A.C. AIR CONDITIONING	HSS HOLLOW STEEL SECTION	SQ. SQUARE
ACT ACOUSTICAL CEILING TILE	HT HEIGHT	STD. STANDARD
ADD ADDITIONAL / ADDENDUM	HVAC HEATING / VENTILATING / AIR CONDITIONING	STL. STEEL
ADJ ADJACENT	IN INCH(ES)	STO. STORAGE
AFF ABOVE FINISHED FLOOR	INFO INFORMATION	STRUC. STRUCTURAL
AHU AIR HANDLING UNIT	INSUL INSULATION	SUSP. SUSPENDED
ALT ALTERNATE	INT INTERIOR	SYM. SYMMETRICAL
ALUM ALUMINUM	JAN JANITOR	T. TOILET
ANOD ANODIZED	JST. JOIST	T.G. TEMPERED GLASS
APPRO APPROXIMATE	JT JOINT	T.O.C. TOP OF CONCRETE
X		T.S. TUBE STEEL
ARCH ARCHITECTURAL		T.V. TELEVISION
AUTO AUTOMATIC		TECH. TECHNICAL
B.O. BOTTOM OF	k KIP (1000 lbs)	TELE. TELEPHONE
B.PL. BASE PLATE	K.D. KNOCK DOWN	
BD. BOARD	KIT KITCHEN	
BLDG. BUILDING	KW KILOWATT	
BLK BLOCK	L LENGTH	TEMP. TEMPERATURE
BLKG BLOCKING	L.G. LONG	THRU. THROUGH
BOT BOTTOM	L.H. LEFT HAND	TRANS. TRANSITION
BTW BETWEEN	L.L. LIVE LOAD	TYP. TYPICAL
C.G. CORNER GUARD	L.W.C. LIGHT WEIGHT CONCRETE	
C.I. CAST IRON	LAB LABORATORY	U.N.O. UNLESS NOTED OTHERWISE
C.I.P. CAST-IN-PLACE	LAM LAMINATE	UL UNDERWRITERS LABORATORIES, INC.
C.J. CONTROL JOINT	LAV LAVATORY	UNF UNFINISHED
C.L. CENTERLINE	LB POUND	UR URINAL
C.O. CLEAN OUT	LT LIGHT	VB VAPOR BARRIER
CL. CLOSET	LTL LINTEL	VCT VINYL COMPOSITION TILE
CLG CEILING	LVR LOUVER	VERT. VERTICAL
CLKG CAULKING	M0. MASONRY OPENING	VEST. VESTIBULE
CLR CLEAR	MAS MASONRY	VIF VERIFY IN FIELD
CLRM CLASSROOM	MATL MATERIAL	VWC VINYL WALL COVERING
CMU CONCRETE MASONRY UNIT	MAX. MAXIMUM	
COL COLUMN	MBR MEMBER	
CONC CONCRETE	MDF MEDIUM DENSITY FIREBOARD	
COORD COORDINATE	MECH MECHANICAL	W. WEST
CORR CORRIDOR	MED MEDIUM	W.C. WATER CLOSET
CPT CARPET	MEMB MEMBRANE	W/ WITH
CT CERAMIC TILE	MEZZ MEZZANINE	W/O WITHOUT
D.F. DRINKING FOUNTAIN	MFR MANUFACTURER	WD WOOD
D.L. DEAD LOAD	MH MANHOLE	WF WIDE FLANGE
D.O. DOOR OPENING	MIN. MINIMUM	WH WATER HEATER
DEG DEGREE	MIRR MIRROR	WT. WEIGHT
DEPT DEPARTMENT	MISC. MISCELLANEOUS	WTR WATER
DIA DIAMETER	MTD MOUNTED	WWF WELDED WIRE FIREBRICK
DIM DIMENSION	MTL METAL	
DIV DIVISION	MUL. MULLION	
DN DOWN	MULT. MULTIPLE	
DR DOOR	XFMR. TRANSFORMER	
DS DOWNSPOUT		
DTL DETAIL		
DWG DRAWING		
E EAST	N NORTH	
E.J. EXPANSION JOINT	N.I.C. NOT IN CONTRACT	
E.S. EACH SIDE	N.O. NUMBER	
EA. EACH	N.R. NOT RATED	
EIFS EXTERIOR INSULATION AND FINISH SYSTEM	N.T.S. NOT TO SCALE	
EL. ELEVATION	NFPA NATIONAL FIRE PROTECTION ASSN	
ELEC ELECTRICAL	O.C. ON CENTER	
ELEV. ELEVATOR	O.D. OVERFLOW DRAIN	
EPDM ETHYLENE PROPYLENE DIENE MONOMER	O.H. OVERHEAD	
EQ EQUAL	OFF. OFFICE	
EQUIP EQUIPMENT	OPNG OPENING	
EXIST EXISTING	OPP. OPPOSITE	
EXP EXPANSION	ORIG. ORIGINAL	
EXT EXTERIOR	OVHG OVERHANG	
F.A. FIRE ALARM	P.C. PRECAST CONCRETE	
F.D. FLOOR DRAIN	P.T. PRESSURE TREATED	
F.E. FIRE EXTINGUISHER	PAR. PARALLEL	
F.E.C. FIRE EXTINGUISHER CABINET	PARA. PARAPET	
F.HYD. FIRE HYDRANT	PERF. PERFORATED	
F.O. FACE OF	PL. PLATE	
F.R. FIRE RATED	PLAM. PLASTIC LAMINSTE	
F.R.P. FIBER-REINFORCED PLASTIC	PLUM. PLUMBING	
F.R.T. FIRE RETARDANT TREATED	PLYWD. PLYWOOD	
FDC FIRE DEPARTMENT CONNECTION	PSF. POUNDS / SQUARE FOOT	
FF FINISH FLOOR	PT. PAINT	
FIN. FINISH	PVC. POLYVINYL CHLORIDE	
FIXT FIXTURE	PVMT. PAVEMENT	
FLASH FLASHING	PWR. POWER	
FLR FLOORING	QT. QUARRY TILE	
FRMG FRAMING	QTY. QUANTITY	
FT FOOT / FEET	R.A. RETURN AIR	
FTG FOOTING	R.B. RUBBER OR RESILIENT BASE	
FURR FURRING	R.D. ROOF DRAIN	
G GAS	R.O. ROUGH OPENING	
G.B. GRADE BEAM	RAD. RADIUS	
G.C. GENERAL CONTRACTOR	REF. REFERENCE	
G.R. GUARDRAIL	REFG. REFRIGERATOR	
GA GAUGE	REINF. REINFORCED	
GALV GALVANIZED	REQD. REQUIRED	
GB GRAB BAR	REV. REVISED / REVISION	
GEN GENERATOR	RH. ROOF HATCH	
	RM. ROOM	

SYMBOLS LEGEND



GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH APPLICABLE SECTIONS OF THE FEDERAL, STATE AND LOCAL BUILDING CODES, ZONING ORDINANCE, HEALTH AND FIRE REGULATIONS AS ADOPTED BY THE LOCAL GOVERNING BUILDING AUTHORITY.
2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY BUILDING PERMITS FROM ALL GOVERNING AGENCIES INCLUDING THE CITY / TOWNSHIP AND SUBMIT FOR THEIR USE ANY CERTIFICATES OF INSURANCE, BONDS, ESCROW ACCOUNTS, LICENSES, PAY ALL FEES, OBTAIN ALL APPROVALS, ETC. ALL AS MAY BE REQUIRED TO COMPLETE THIS PROJECT.
3. CONTRACTOR SHALL RETAIN THE SERVICES OF AN APPROVED THIRD PARTY AGENCY TO PERFORM ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY THE LOCAL GOVERNING BUILDING CODE, GOVERNING BUILDING AUTHORITY, OR AS CALLED OUT IN THESE CONSTRUCTION DOCUMENTS. NOTIFY OWNER / ARCHITECT IMMEDIATELY OF ANY FAILED TESTS OR INSPECTIONS AND PROVIDE OWNER WITH ALL WRITTEN REPORTS AND TEST RESULTS AT PROJECT COMPLETION.
4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK. IF ANY DIFFERENCES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY, IN WRITING FOR CLARIFICATION PRIOR TO PROCESSING WITH WORK.
5. THESE DOCUMENTS ARE DEVELOPED TO PROVIDE THE CONTRACTOR WITH A WORKING KNOWLEDGE OF THE SYSTEMS AND MATERIALS TO BE INSTALLED, AND THE SCOPE OF WORK, WHERE THESE DOCUMENTS ARE IN CONFLICT WITH THE JOB CONDITIONS, OR STANDARD DETAILS OR SPECIFICATIONS OF THE MANUFACTURED COMPONENT, OR AFFECT THE GUARANTEE, THEY SHALL BE MODIFIED AS REQUIRED BY THE CONTRACTOR AND APPROVED BY THE ARCHITECT.
6. PROVIDE AND MAINTAIN SUITABLE TEMPORARY FENCES, BARRICADES, LIGHTS, WARNINGS, ETC., FOR PROTECTION OF PUBLIC AND OTHERS HAVING ACCESS TO THE SITE. CONTRACTOR SHALL KEEP CLEAN AND ADEQUATELY PROTECT ALL STREETS, DRIVES, WALKS, BLDGS, ETC., FROM DAMAGE DUE TO ANY ITEM INVOLVED IN THIS WORK. ANY DAMAGED WORK SHALL BE REPLACED / REPAVED AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL RELY ON WRITTEN DIMENSIONS (DO NOT SCALE DRAWINGS), WHERE NONE ARE PRESENT OR IN CONFLICT WITH WRITTEN, FIELD MEASURE AND/OR NOTIFY ARCHITECT FOR CLARIFICATION.
8. SHOULD THE CONTRACT DOCUMENTS DISAGREE (DRAWINGS AND SPECIFICATIONS), THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING. THE BETTER QUALITY OR LARGER QUANTITY OF MATERIALS OR WORK SHALL BE INCLUDED IN THE BID AND UNLESS OTHERWISE ORDERED IN WRITING, SHALL BE FURNISHED BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS, SPECIFICATIONS AND ALL OTHER DATA OR INSTRUCTIONS PERTAINING TO THE WORK. BEFORE COMMENCING PHYSICAL WORK, THE CONTRACTOR SHALL LOCATE ALL GENERAL REFERENCE POINTS AND TAKE SUCH ACTION AS IS NECESSARY TO PREVENT THEIR DESTRUCTION; LAY OUT HIS WORK AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS OF BUILDINGS, GRADING, PAVING, UTILITIES AND OTHER WORK EXECUTED BY HIM UNDER THE CONTRACT. HE MUST EXERCISE PROPER PRECAUTIONS TO VERIFY FIGURES SHOWN ON DRAWINGS BEFORE LAYING OUT WORK.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, HIS SUB-CONTRACTOR AND/OR SUPPLIER TO WORK FROM A FULL SET OF CONTRACT DOCUMENTS FOR BOTH THE WORK TO BE COMPLETED AND IN PREPARATION OF THE SHOP DRAWINGS, SO THAT EACH PART OR COMPONENT WILL WORK WITH THOSE PARTS AS FURNISHED OR FABRICATED BY OTHERS, AND THE ASSEMBLED WHOLE WORKS TOGETHER AS INTENDED.
11. MATERIALS - SHALL BE NEW, SECONDS OR DAMAGED MATERIALS WILL BE REJECTED BY THE ARCHITECT, WHO RESERVES THE RIGHT TO DISAPPROVE AND REJECT ANY MATERIALS PROPOSED OR INSTALLED, WHICH IN HIS OPINION FAIL TO MEET QUALITY STANDARDS SPECIFIED.
12. THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO ASBESTOS AND HAZARDOUS MATERIALS IN ANY FORM FOR THE PROJECT.
13. AS-BUILTS - THE CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL DEVIATIONS FROM THE CONTRACT DRAWINGS AND SPECIFICATIONS. HE SHALL NEATLY AND CORRECTLY DRAFT (NO FREEHAND) ANY DEVIATIONS ON THE DRAWINGS AFFECTED AND SHALL KEEP DRAWINGS AVAILABLE FOR INSPECTION. GIVE TO THE ARCHITECT AT COMPLETION.
14. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS (INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, SPRINKLER SYSTEM, PLUMBERING, CEILING SYSTEMS, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISHED FLOOR INDICATED IN THE DRAWINGS AND THE FINISH SCHEDULE. (CEILING HEIGHT DIMENSIONS ARE TO THE SURFACE OF THE CEILING).
15. IN AREAS OF NEW WORK, ACCESS PANELS SHALL BE PROVIDED AND INSTALLED WHEREVER REQUIRED BY CODE OR FOR THE PROPER OPERATION OR MAINTENANCE OF MECHANICAL OR ELECTRICAL EQUIPMENT (I.E. TERMINAL BOXES, VALVES, DAMPERS, ETC.), WHETHER OR NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND TYPE OF ACCESS PANEL WITH OTHER CONTRACTORS WORK AND RECEIVE APPROVAL OF THE ARCHITECT. ACCESS PANEL SHALL NOT BE LOCATED, FRAMED OR INSTALLED WITHOUT EXPRESSED APPROVAL OF THE ARCHITECT.
16. ALL DUCT PENETRATION THROUGH PARTITIONS AND CEILINGS SHALL BE PROVIDED WITH NECESSARY FRAMED OPENINGS, BRACING, AND FIRE DAMPERS AS REQUIRED BY CODE.
17. THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING PRIOR TO PROCEEDING WITH WORK.
18. SIZE OF MECHANICAL AND ELECTRICAL EQUIPMENT PADS AND BASES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY DIMENSIONS WITH RESPECTIVE EQUIPMENT MANUFACTURER.

BOILER REPLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL
1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

MONROE PUBLIC SCHOOLS
1275 NORTH MACOME STREET, MONROE, MICHIGAN 48162

AT

FOR

JOB # 26101

ABBREVIATIONS, LEGENDS, SYMBOLS

T1.00

DATE 02.09.2026
DESCRIPTION BIDDING & STATE REVIEW

HOLLYWOOD ELEMENTARY SCHOOL

1135 Riverview Avenue, Monroe, MI

BUILDING CODE REVIEW

PROJECT DESCRIPTION	EXISTING SCHOOL BUILDING - BOILER REPLACEMENT & RELATED WORK	
BUILDING CODE:	2021 MICHIGAN BUILDING CODE 2021 MICHIGAN REHABILITATION CODE 2021 MICHIGAN MECHANICAL CODE 2021 MICHIGAN PLUMBING CODE 2021 MICHIGAN ENERGY CODE 2023 NATIONAL ELECTRICAL CODE (NEC) 2012 NFPA 101 LIFE SAFETY CODE 2016 SCHOOL FIRE SAFETY RULES 1991 / 2010 ADA STANDARDS	
BUILDING AREA:	EXISTING BUILDING (GROSS)	= 33,691 S.F.
BUILDING OCCUPANCY TYPE:	(SEC. 305.1)	EDUCATIONAL GROUP E
CONSTRUCTION TYPE:	(SEC. 602.5, TABLE 601)	TYPE IIB NS
ALLOWABLE AREA:	(TABLE 506.2)	12,000 S.F.
INCREASE ALLOWABLE:	(SEC. 506.2.1)	N.R.
ALLOWABLE HEIGHTS:	(TABLE 504.3)	55'
ALLOWABLE NUMBER OF STORIES:	(TABLE 504.4)	2
HEIGHT MODIFICATION:	(SEC. 504.3)	N.A.
FIRE RESISTIVE CONSTRUCTION:		
STRUCTURAL FRAMING:	(TABLE 601)	0
BEARING WALLS:		
EXTERIOR:	(TABLE 601, 602)	0 (NFPA 101, TABLE A.8.2.1.2) 0
INTERIOR:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
NON-BEARING WALLS:		
EXTERIOR:	(TABLE 601, 602)	1 HR. <=5' (NFPA 5000, TABLE 7.3.2.1) 1 HR <3'
INTERIOR:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
FLOOR CONSTRUCTION:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
ROOF CONSTRUCTION:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
FIRE WALLS:	(SEC. 706, TABLE 706.4)	2 HR. (AREA SEPARATION)
FIRE BARRIER:		
INT. EXIT STAIR/RAMP:	(SEC. 1023.2)	N/A
EXIT ACCESS STAIR:	(SEC. 713.4)	N/A
EXIT PASSAGEWAY:	(SEC. 708)	N/A
HORIZ. EXIT (REFUGE AREA):	(SEC. 1026.1)	N.A.
ATRIUM:	(SEC. 404.6)	N.A.
INCIDENTAL USES:	(TABLE 509)	
BOILER ROOMS - 1 HR. OR SPRINKLER		
IN GROUP E: LABORATORIES & VOCATIONAL SHOPS - 1 HR.		
CONTROL AREA:	(SEC. 414.2.4)	N/A
SEPARATED OCCUPANCIES:	(SEC. 508.4, TABLE 508.4)	N/A
FIRE AREAS:	(SEC. 707.3.10)	2 HR.
EXT. DOORS + WINDOWS:	(TABLE 705.8)	NO LIMIT > 30FT. FIRE SEPARATION
FIRE PARTITIONS:		
CORRIDOR WALLS:	(SEC. 708, SEC. 1020.1)	1 HR. W/O SPRINKLER SYSTEM AND > 30 PEOPLE
SMOKE BARRIERS	(SEC. 709.4)	N/A
OPENING PROTECTIVES:		
CORRIDOR DOORS:	(TABLE 716.5)	20 MIN. IN (1) HR. WALLS
CORRIDOR OPENINGS:	(TABLE 716.5)	45 MIN.
DRAFTSTOPPING:	(SEC. 718)	REQUIRED IF COMBUSTIBLE CONSTRUCTION IN FLOOR / CEILING
FIRE BLOCKING:	(SEC. 718)	REQUIRED IF COMBUSTIBLE CONSTRUCTION IN WALLS
FIRE SPRINKLERS:	(SEC. 901.7, SEC. 903.2.3)	REQUIRED IF FIRE AREA > 12,000 S.F. (BETWEEN FIRE SEPARATION)
FIRE ALARMS:	(SEC. 907.2.3)	REQUIRED IN GROUP E OCCUPANCY WITH > 50 OCCUPANTS (NEW BUILDINGS AND STRUCTURES)
FIRE EXTINGUISHERS:	(SEC. 906)	
PLATFORMS / STAGES:	(SEC. 410.4, 410.7)	EXISTING - N.A.
MEANS OF EGRESS:		
EGRESS CAPACITY	NFPA 101, SEC 7.3.1.1.2)	WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED, THE MEANS OF EGRESS SHALL BE OF SUCH WIDTH AND CAPACITY THAT THE LOSS OF ANY ONE MEANS OF EGRESS LEAVES AVAILABLE NOT LESS THAN 50% OF THE REQUIRED CAPACITY.
WIDTH OF EGRESS:	(SEC. 1005)	
STAIRS	= 0.3" / OCCUPANT (W/O SPRINKLERS)	
OTHER	= 0.2" / OCCUPANT (W/O SPRINKLERS)	
CORRIDOR WIDTH:	(TABLE 1020.2)	
DOORS:	(SEC. 1010)	44" MIN: AREAS OF OCCUPANT LOAD < 50 PEOPLE = 36" MIN;
ENCROACHEMENT	(SEC. 1005.7)	AREAS OF OCCUPANT LOAD > 100 PEOPLE = 72" MIN.
DOORS IN ANY POSITION CANNOT REDUCE REQUIRED WIDTH BY MORE THAN 7"		MIN. 34" WIDE EXIT (36" WIDE FOR ADA)
MAX. HANDRAIL PROJECTION PER SIDE = 1-1/2"		DOORS IN ANY POSITION CANNOT REDUCE REQUIRED WIDTH BY MORE THAN 7"
EXIT ACCESS:	(SEC. 1016)	MAX. 1 INTERVENING SPACE
TRAVEL DISTANCE:	(TABLE 1017.2)	200' MAX. WITHOUT SPRINKLERS
DEAD-END CORRIDORS:	(SEC. 1020.4)	DEAD-END CORRIDORS IN ANY AREA SHALL NOT EXCEED 20 FT.
ELEVATOR/CONVEY SYSTEMS:	(SEC. 1009.2.1)	N/A
ACCESSIBILITY:	(SEC. 3001.2)	ELEVATORS REQUIRED TO BE ACCESSIBLE OR SERVE ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH SEC. 1009 AND 1109.7

FIRE RATED WALLS LEGEND	
	1 HOUR FIRE RATED BARRIER 1 HOUR FIRE RATED PARTITION
	2 HOUR FIRE RATED WALL

NOTE: CONTRACTOR SHALL STENCIL PAINT FIRE WALLS ABOVE ACCESSIBLE CEILINGS PER IBC 703.7

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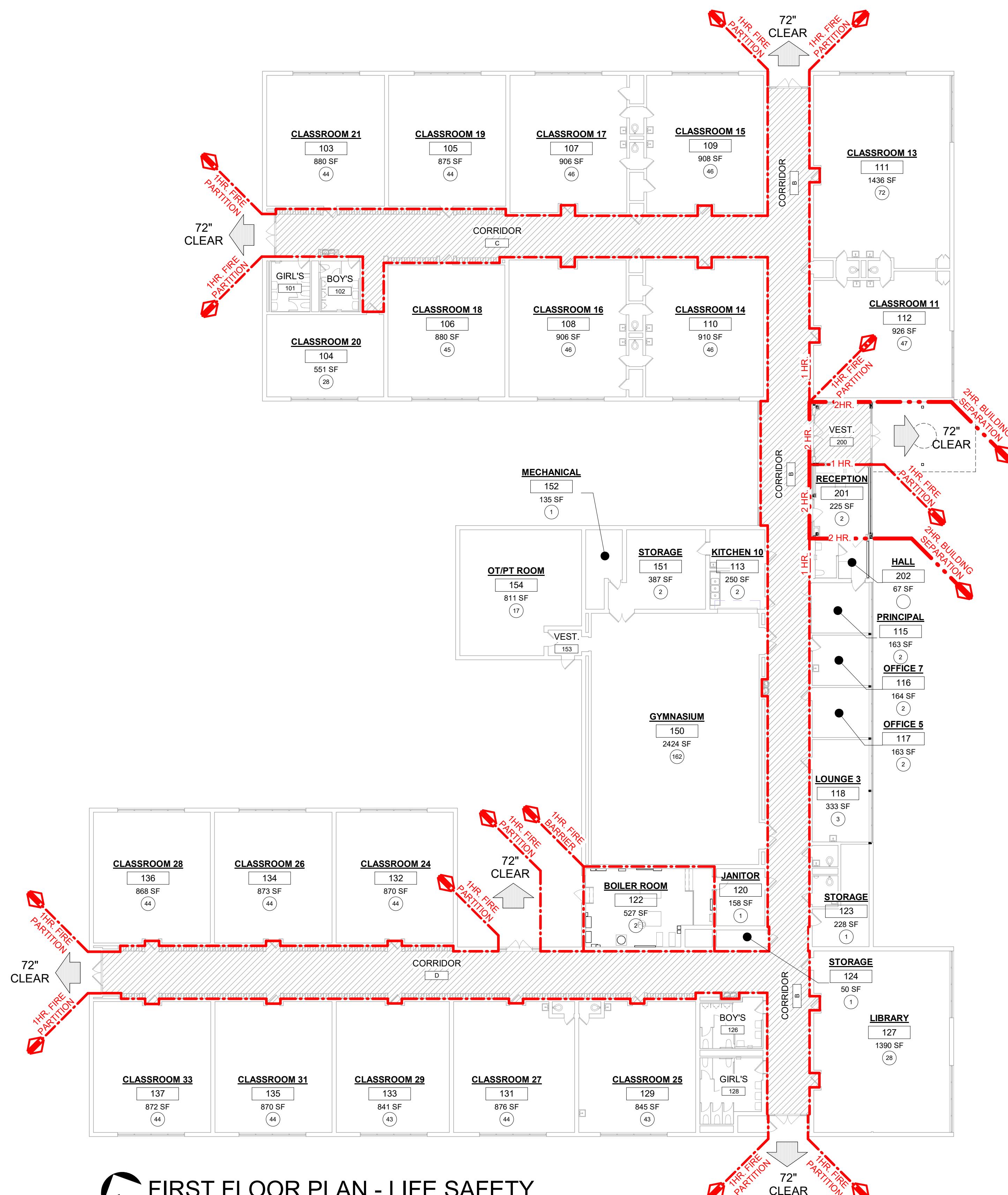
MONROE PUBLIC SCHOOLS

1275 NORTH MACOME STREET, MONROE, MICHIGAN 48162

FOR JOB # 26101

CODE COMPLIANCE PLAN

LS1.00



FIRST FLOOR PLAN - LIFE SAFETY

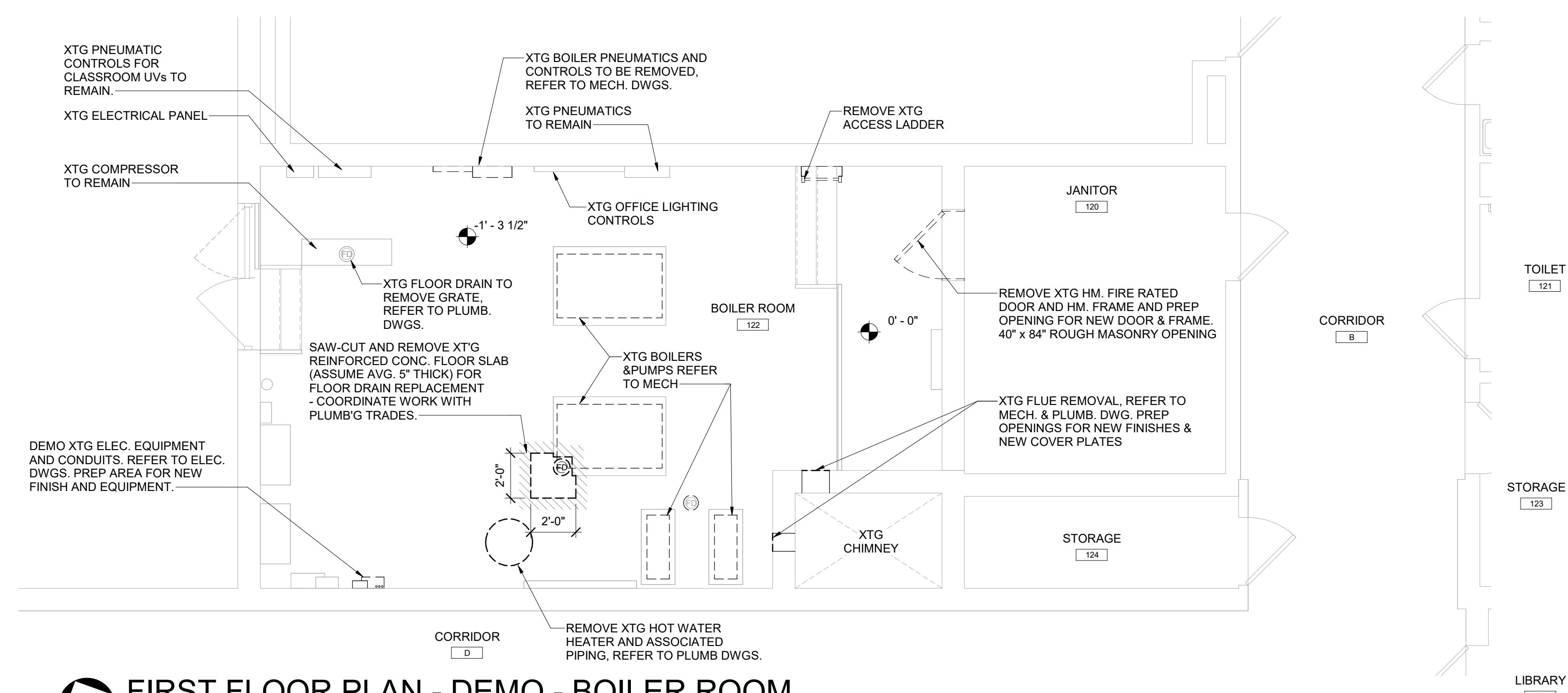
SCALE: 1/16" = 1'-0"



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ARCHITECTURE

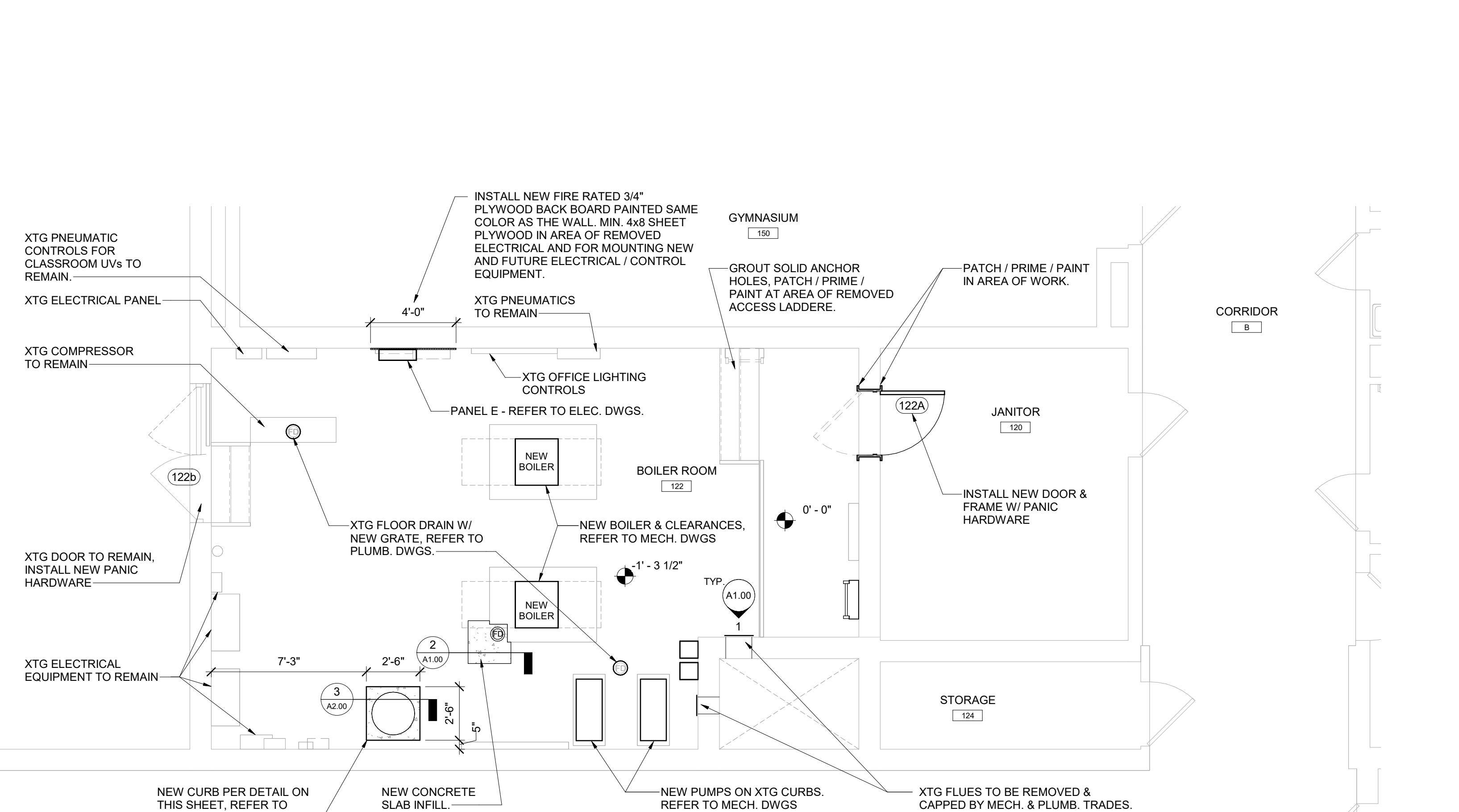
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MAKE
Things Better



FIRST FLOOR PLAN - DEMO - BOILER ROOM

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



FIRST FLOOR PLAN - NEW - BOILER ROOM

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

GENERAL DEMOLITION NOTES:	
1. COORDINATE ALL DEMOLITION WITH THE OWNER'S HAZARDOUS MATERIAL ABATEMENT DOCUMENTS AND SCOPE.	
2. CONTRACTOR TO PROTECT ADJACENT AREAS TO CONSTRUCTION AND COMING POOR CONSTRUCTION TRADES FROM PROTECTION AREAS. PROTECTION IN THESE AREAS TO INCLUDE AIR QUALITY, SURFACES, EQUIPMENT, FURNISHINGS, BUILDING OCCUPANTS, ETC. FROM DUST / DEBRIS, EXCESSIVE NOISE, WEAR, OR DAMAGE OF ANY KIND. PRIOR TO ANY PHYSICAL WORK, THE CONTRACTOR MUST HAVE A WRITTEN PLAN FOR PROTECTION APPROVED BY THE ARCHITECT.	
3. ANY WORK UNDER THE CONTRACT THAT WILL INTERRUPT THE OWNER'S ACTIVITIES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.	AREA OF HIGH REPLACEMENT VALUE OR MORE LIKELY FOR DAMAGE ARE TO HAVE ADDED PROTECTION (I.E. GYM FLOORS, ROOFING, ETC.)
4. ALL DEMOLITION WORK REQUIRED IS NOT LIMITED TO THAT INDICATED ON PLAN. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS NECESSARY TO FACILITATE NEW CONSTRUCTION.	
5. PRIOR TO COMMENCEMENT OF DEMOLITION WORK, CONTRACTOR IS TO INSPECT ALL AREAS IN WHICH WORK WILL BE PERFORMED. DOCUMENT EXISTING CONDITIONS OF STRUCTURE, SURFACES, EQUIPMENT OR SURROUNDING AREAS WHICH COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM DEMOLITION WORK AND FILE WITH ARCHITECT.	
6. NOTIFY ARCHITECT IF ANY EXISTING ITEM THAT CONFLICTS WITH THE INTENDED FINISH PRODUCT IS NOT SPECIFICALLY CALLED OUT. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS & FIELD CONDITIONS BEFORE PROCEEDING WITH DEMOLITION AND / OR CONSTRUCTION.	
7. ALL DEMOLITION WORK, UNLESS OTHERWISE NOTED IN THE PROJECT MANUAL, DRAWINGS OR DIRECTED BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ALL DEBRIS CAUSED BY DEMOLITION AND CONSTRUCTION SHALL BE CLEARED AND REMOVED FROM THE SITE. DEBRIS STORAGE SHALL NOT INFRINGE ON CLEAR PATH OF EGRESS.	
8. PROTECT EXISTING STRUCTURES, FINISHES, UTILITIES AND OTHER ITEMS SCHEDULED TO REMAIN. AREAS THAT ARE DAMAGED BY SELECTIVE DEMOLITION SHALL BE PATCHED AND REPAIRED AND FINISHED OR REPLACED TO MATCH EXISTING ADJACENT SURFACES.	
9. CONTRACTOR TO COORDINATE A WALK THROUGH WITH THE OWNER PRIOR TO DEMOLITION TO IDENTIFY REMAINING ITEMS TO BE SALVAGED. FOR ANY ITEMS TO BE SALVAGED BY CONTRACTOR, PROVIDE A DETAILED INVENTORY LIST OF ALL SALVAGED ITEMS AND THEIR STORED LOCATIONS ON SITE.	
10. SHOULD HIDDEN FIELD CONDITIONS REQUIRE MODIFICATIONS TO THE LAYOUT, THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT.	
11. STRIP EXIST. FLOORS IN AREA TO RECEIVE NEW FLOOR FINISHES. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF FINISH MATERIALS ON EXIST. SUBSTRATES.	
12. AFTER DEMOLITION IS COMPLETE PATCH AND REPAIR EXIST. SURFACES TO REMAIN, AS REQUIRED FOR NEW FINISHES.	

DATE 02.09.2026 DESCRIPTION BIDDING & STATE REVIEW

BOILER REPLACEMENT & RELATED WORK

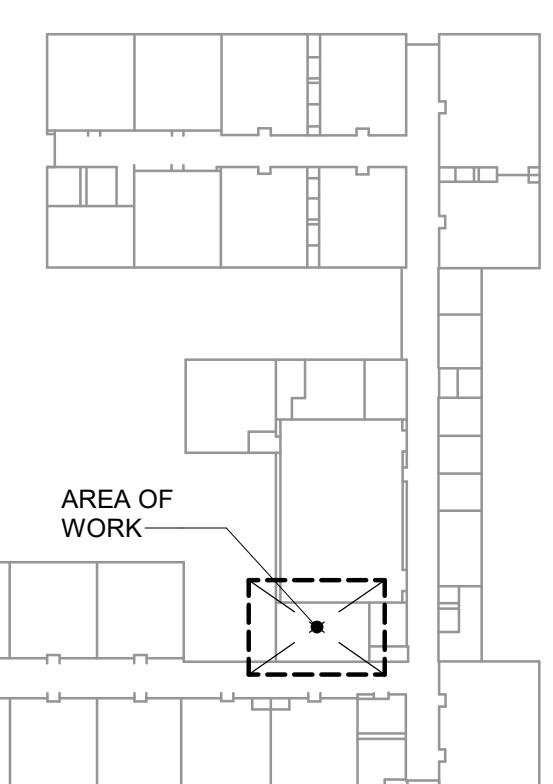
HOLLYWOOD ELEMENTARY SCHOOL
1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

MONROE PUBLIC SCHOOLS
1275 NORTH MACOME STREET, MONROE, MICHIGAN 48162

JOB # 26101
FOR

FLOOR PLANS
CONSTRUCTION &
DEMOLITION

A1.00



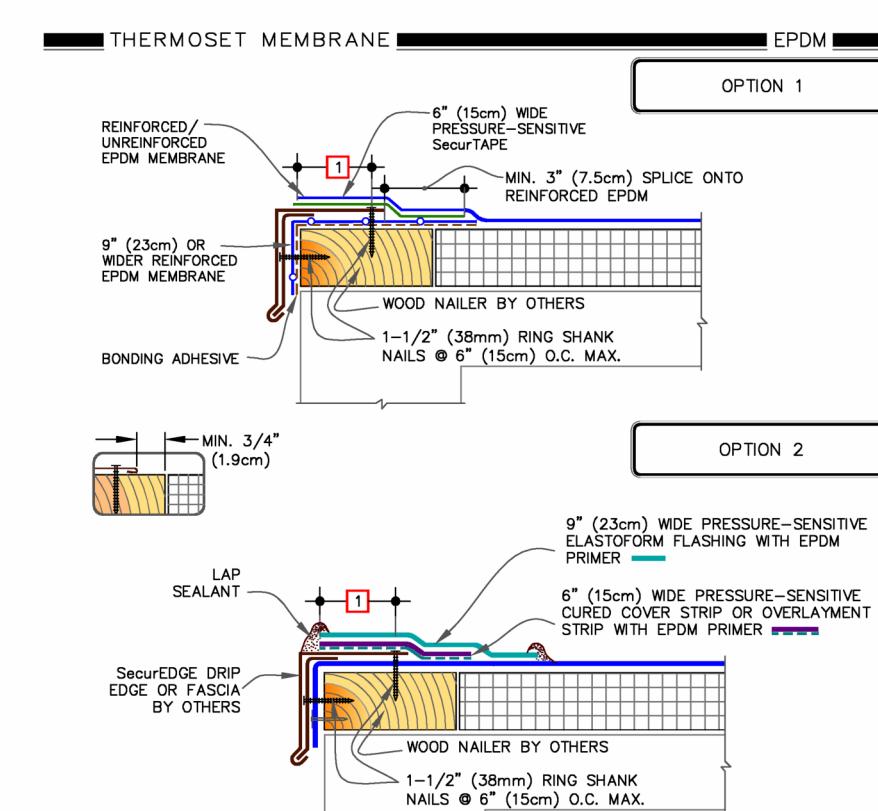
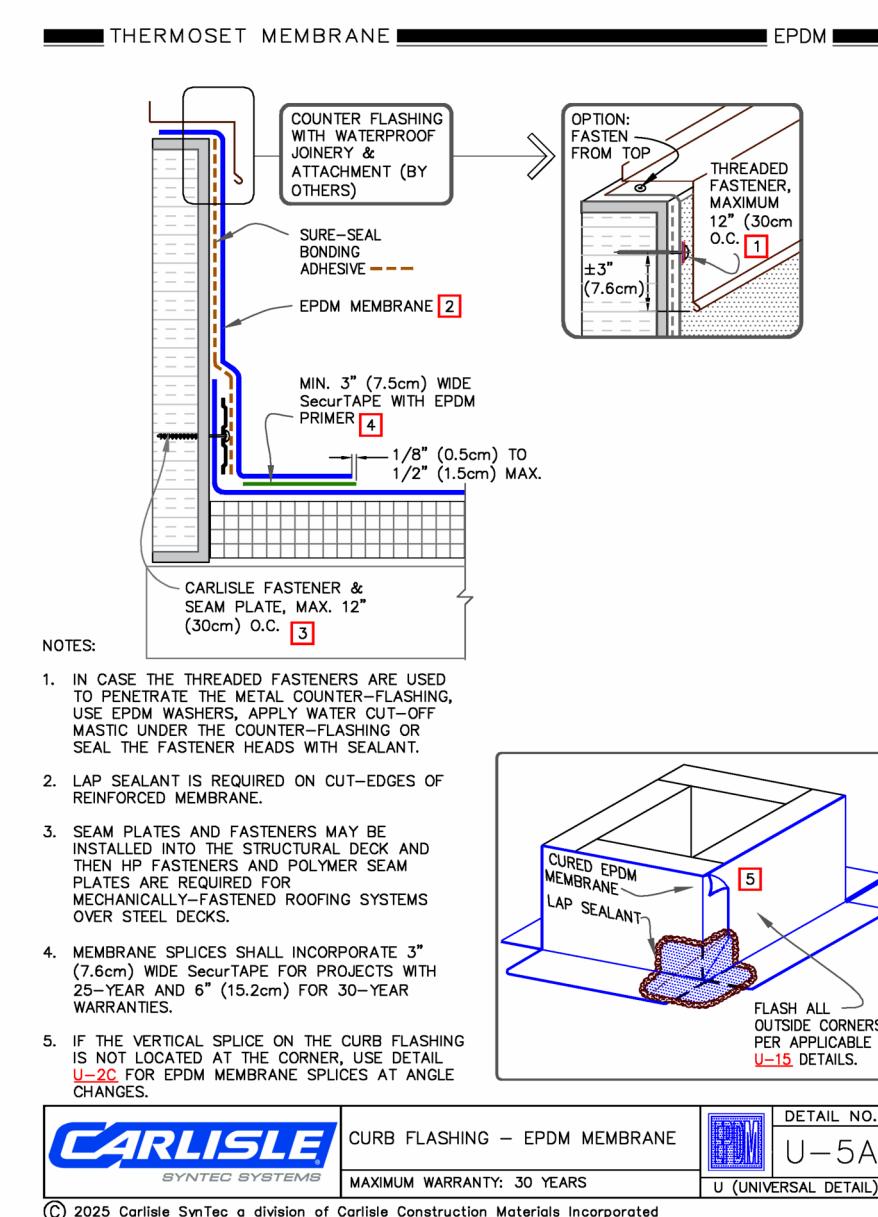
KEY PLAN
SCALE: 1/64" = 1'-0"



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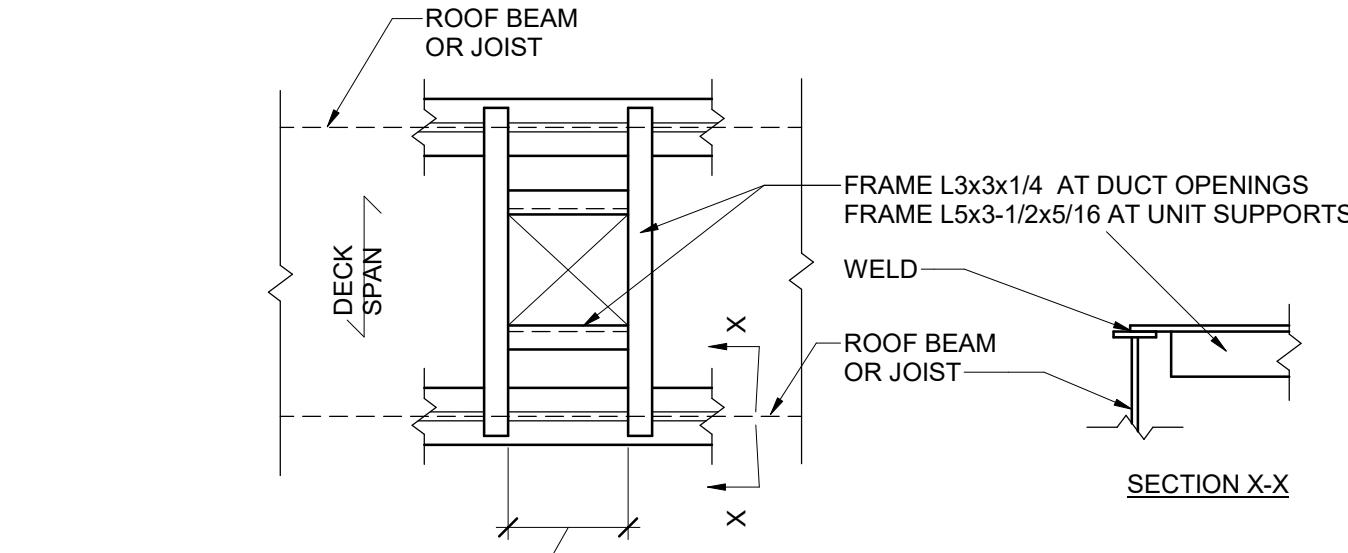
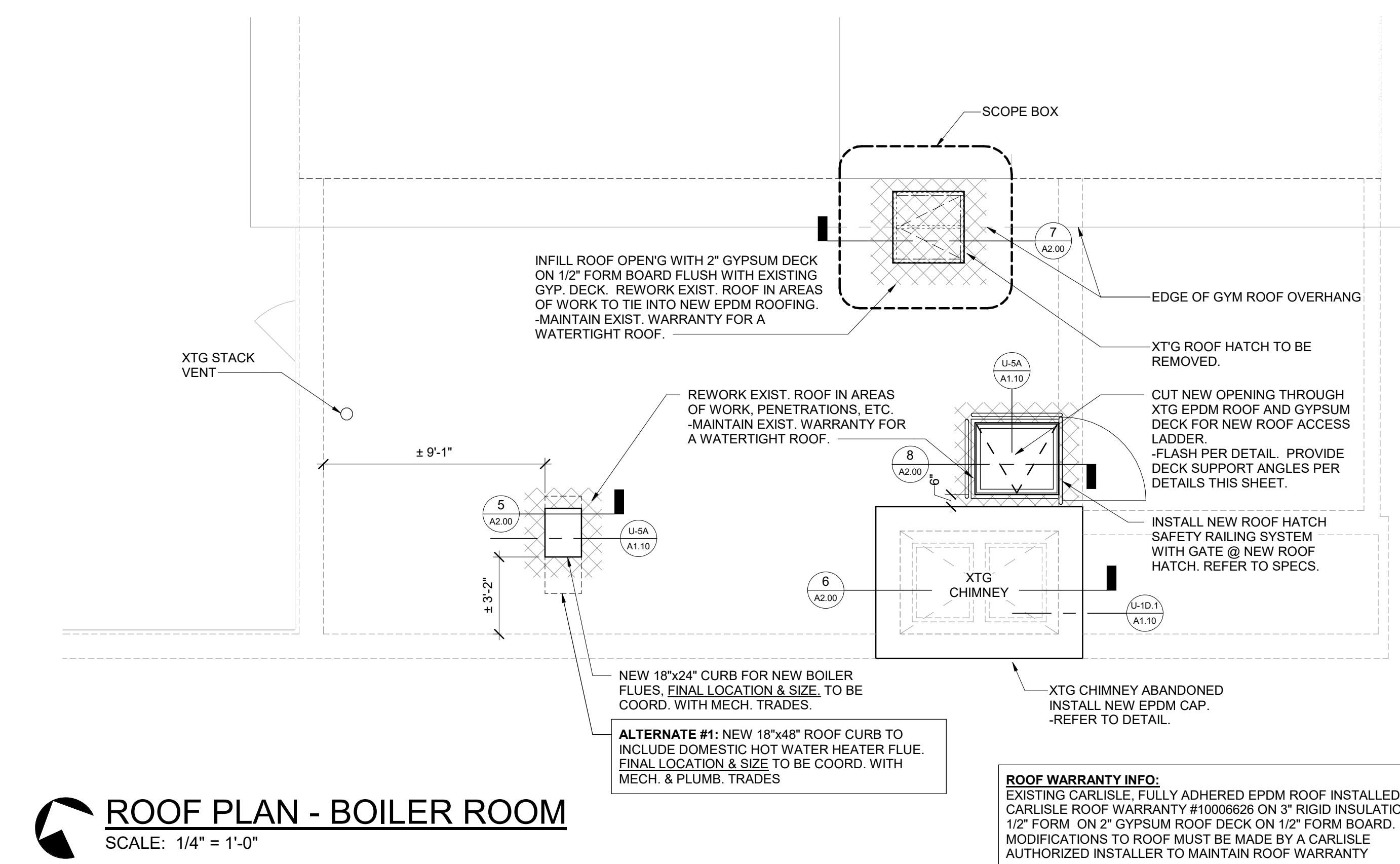
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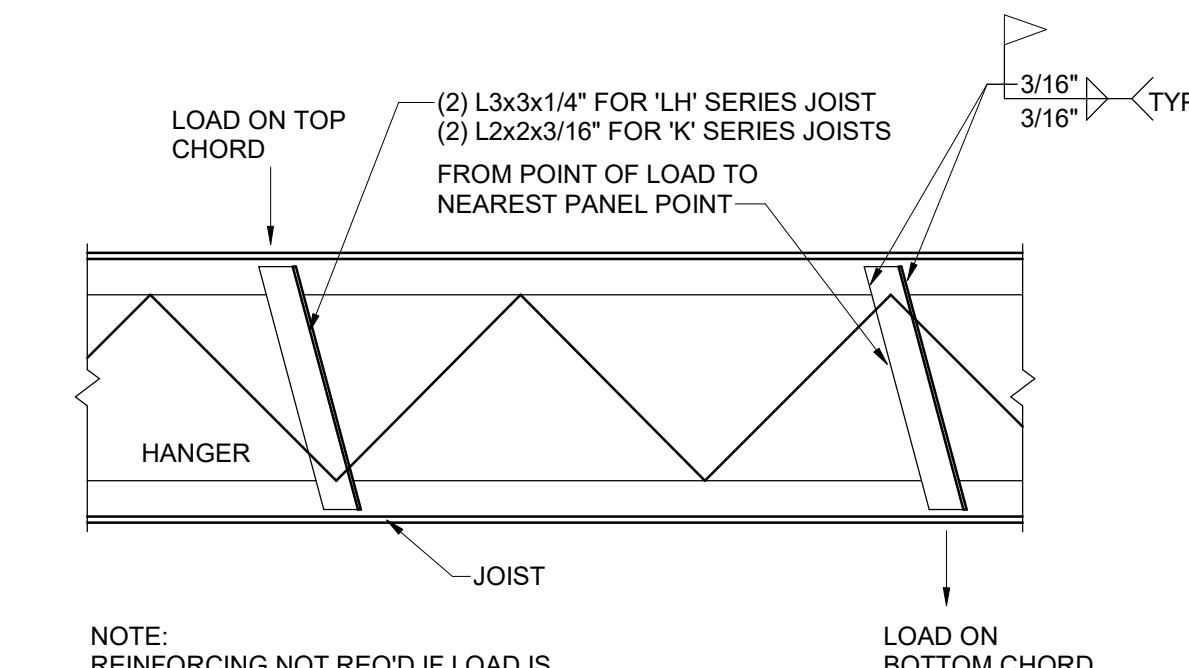
ROOF PLAN - BOILER ROOM

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



TYP. ROOF OPENING SUPPORT

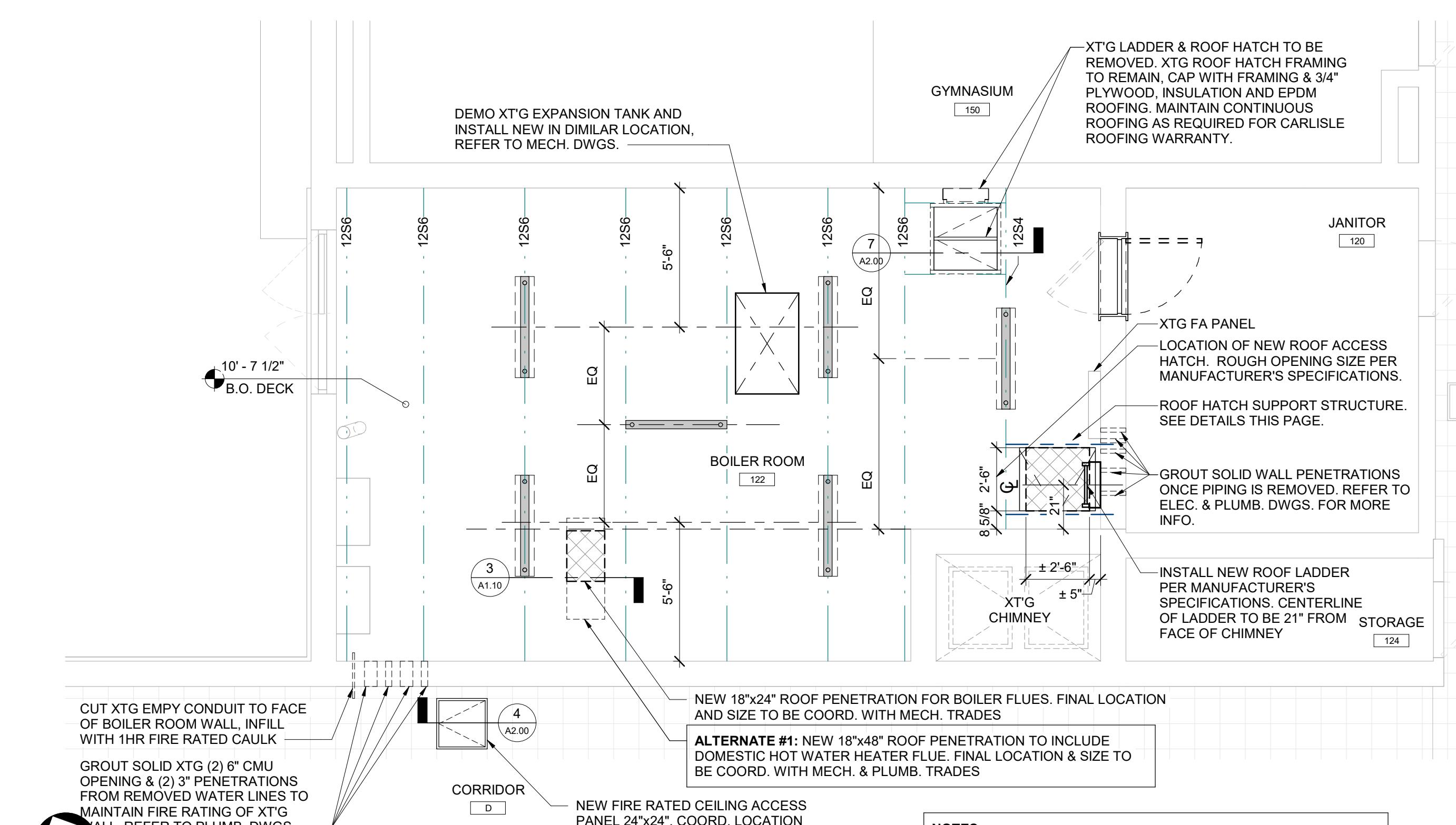
SCALE: 3/4" = 1'-0"



TYP. JOIST REINFORCEMENT DETAIL

SCALE: 3/4" = 1'-0"

DATE 02.09.2026
DESCRIPTION BIDDING & STATE REVIEW



FIRST FLOOR - RCP - BOILER ROOM

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

NOTES:

- FINAL LIGHT FIXTURE PLACEMENT TO BE COORDINATED IN FIELD WITH OTHER TRADES.
- STRUCTURAL LAYOUT AND SIZES ARE ASSUMED AND SHOULD BE FIELD VERIFIED.
- FINAL ROOF HATCH & LADDER LOCATION TO BE VERIFIED IN FIELD WITH MECH. & ELEC. TRADES.

KEY PLAN
SCALE: 1/64" = 1'-0"

BOILER REPLACEMENT & RELATED WORK

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1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

MONROE PUBLIC SCHOOLS
1275 NORTH MACOME STREET, MONROE, MICHIGAN 48162

JOB # 26101
FOR

CEILING PLAN &
ROOF PLAN

A1.10

MATERIAL STRENGTHS AND STRUCTURAL NOTES

MISCELLANEOUS

- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, INTERFERENCES AND CONDITIONS PRIOR TO STARTING FABRICATION OR CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- STRUCTURE DESIGN LOAD DATA:

ROOF LOAD:	
GROUND SNOW LOAD:	PG = 25 PSF, L.L.
FLAT ROOF SNOW LOAD:	PF = 30 PSF, L.L.
ROOF LOAD:	15 PSF
SNOW EXPOSURE FACTOR:	CE = 0.7
SNOW LOAD IMPORTANCE FACTOR:	I = 1.0
WIND LOAD:	
BASIC WIND SPEED:	115 MPH
WIND LOAD IMPORTANCE FACTOR:	I = 1.0
WIND EXPOSURE:	B
SEISMIC IMPORTANCE:	I = 1.0
- ROOFING SHALL BE MINIMUM 15# FELT WITH MINIMUM 256/SQ. CLASS 'A' SHINGLES AND GALVANIZED NAILS. ALL EAVES TO HAVE ICE-GUARD BARRIER FROM EAVE TO MINIMUM 2 FEET INSIDE WALL/INTERIOR SIDE OF WALL MEASURED HORIZONTALLY.
- SUBMIT (4) SETS (OR 1 SET ELECTRONIC) OF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
- CONCRETE**
 - CONFORM TO LATEST EDITION OF FOLLOWING STANDARDS: STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301. COLD WEATHER CONCRETING, ACI 306R. HOT WEATHER CONCRETING, ACI 305R. DETAILS AND STANDARDS FOR CONCRETE REINFORCEMENT, ACI 315. GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION, ACI 302.1R.
 - PLACING REINFORCING BARS, CRSI. CONCRETE COMPRESSIVE STRENGTH, UNLESS INDICATED: GENERAL USE: 3,000 PSI. SLAB GRADE: 3,250 PSI. COLUMNS: 4,000 PSI. CONCRETE EXPOSED TO WEATHER SHALL HAVE 4% - 6% AIR ENTRAINED.
 - REINFORCEMENT: BARS: #6, GRADE 60. WELDED WIRE FABRIC (WWF) ASTM A185.
 - SLABS ON GRADE OR SLABS ON JOIST: 6"X6" - W2.1 X W2.1 W.W.F. UNLESS OTHERWISE NOTED. CLEAR CONCRETE COVER ON REINFORCEMENT UNLESS NOTED: CONCRETE DEPOSITED AGAINST GROUND: 3" - 1-1/2" FOR #5 & SMALLER. FORMED SURFACES EXPOSED TO WEATHER OR EARTH: 2" FOR #6 BARS & LARGER.
 - CHAMFER EXPOSED EDGES 3/4" X 45 DEGREES.

WOOD

- ALL WOOD MATERIALS INCLUDING FRAMING SHALL BE SIZED, BRACED, ANCHORED, ASSEMBLED, ETC. IN ACCORDANCE WITH THE REQUIREMENTS OF THE MICHIGAN BUILDING CODE. RAFTER/JOISTS SHALL BE 1000 PSI BENDING, KILN DRIED, #2 GRADE OR BETTER. STUDS SHALL BE STUD GRADE. ALL PLATES ON CONCRETE OR WITHIN 8" OF EXTERIOR GRADE SHALL BE TREATED. ALL WOOD EXPOSED TO EXTERIOR ELEMENTS SHALL BE TREATED UNLESS NOTED OTHERWISE.
- DOOR FRAMING SHALL BE 3/4" THICK SQUARE EDGE O/S PLYWOOD OR 5/8" OSB BOARD (ORIENTED STRAND BOARD). EXTERIOR WALL SHEATHING TO BE EITHER 1/2" CDX PLYWOOD OR 7/16" OSB BOARD (ORIENTED STRAND BOARD) WITH SQUARE EDGE.
- ANCHORS FOR FRAMING SHALL BE PER MICHIGAN BUILDING CODE REQUIREMENTS FOR PARTICULAR APPLICATION, AS WELL AS RECOMMENDED BY THE LUMBER MANUFACTURER AND AMERICAN PLYWOOD ASSOCIATION. SCREWS FOR INTERIOR WOOD SUB-FLOORING SHALL BE TEMPERED PHILLIPS HEAD, SELF-TAPPING DECK SCREWS - BLED FINISH ALUM. METAL SUPPORTS/FASTERNERS AND ANCHORS, INCLUDING TRUSSES AND FASTENERS THAT COME IN CONTACT WITH THE WOOD SUB-FLOOR, SHALL BE CORROSION RESISTANT SUCH AS STAINLESS STEEL, EPOXY COATED STEEL AND AS APPROVED BY THE TREATED WOOD MANUFACTURER. MANUFACTURERS FOR HANGERS, BRACKETS, CLIPS, ETC. SHALL BE SIMPSON, KANT-SAG OR APPROVED EQUAL. THE FOLLOWING MODEL NUMBERS REFER TO SIMPSON:

 - TRUSSES/RAFTERS/WALL - AS DIRECTED BY TRUSS MFR. - OR - H2.2.18 GA. COLOR TO FOLLOW EXISTING. H2.2.18 GA. H2.2.18 GA. SET 12" ABOVE CONCRETE.
 - JOISTS/TOP FLANGE PLATE - TWISTED STEEL ANCHOR #4 2.5A - 18 GA. SET 12" ABOVE CONCRETE.
 - JOIST TOP FLANGE HANGER - AS DIRECTED BY JOIST MFR. - OR - #18 X SIZE OF JOIST, 18 GA.
 - CORN. POST CAP - L1C4
 - EXTEND ANCHOR BOLTS AND SCREWS FOR ANCHORING TREATED FRAMING TO POSTS SHALL BE STAINLESS OR EPOXY COATED STEEL 1/2" DIAMETER MINIMUM THRU BOLTS AND NUTS WITH WASHERS BOTH SIDES. H. PRE-DRILL MEMBERS AS REQUIRED, TO ELIMINATE SPLITTING OF WOOD.
 - ENGINEERED WOOD STRUCTURAL COMPONENTS SHALL BE AS ENGINEERED AND MANUFACTURED BY THE SAME COMPANY THROUGHOUT PROJECT AND MEET OR EXCEED ALL APPLICABLE CODE REQUIREMENTS AND DESIGN LOADS/CONDITIONS AS HEREIN SPECIFIED. FLOOR AND CEILING JOISTS TO BE AS MANUFACTURED BY THE SAME COMPANY AS THE RAFTERS. RAFTERS TO BE AS MANUFACTURED BY THE SAME COMPANY AS THE FLOOR AND CEILING JOISTS. FINAL MEMBER DESIGN AS PROVIDED BY MFR. / STRUCTURAL DESIGNER FOR REVIEW. TYPICAL OF ALL LVL MEMBERS: E = 2.0 MINIMUM OF TWO BOLTS PER BOARD WIDTH PER POST. DECKING, RAILINGS, PICKETS AND ALL OTHER MEMBERS SHALL BE ANCHORED WITH APPROVED STAINLESS OR EPOXY COATED STEEL DECK SCREWS - MINIMUM OF (2) SCREWS PER BOARD WIDTH PER JOISTS. SCREWS SHALL PENETRATE INTO SUBSTRATE MINIMUM OF 1" TO 1-1/4" DEPTH.

- STRUCTURAL STEEL**
 - CONFORM TO LATEST EDITION OF FOLLOWING STANDARDS: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, AISC. SPECIFICATION FOR ALLOWABLE STRESS DESIGN OF SINGLE-ANGLE MEMBERS, AISC. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, RCS. CODE OF STANDARD PRACTICE, AISC.
 - STRUCTURAL MATERIALS:

WELDING: A307	ASTM A902
ANGLES, CHANNELS, PLATES AND BARS:	ASTM A36
STRUCTURAL TUBING:	ASTM A500, GRADE B.
STRUCTURAL PIPE:	ASTM A53, GRADE B, TYPE E OR S.
HIGH STRENGTH BOLTS:	ASTM A490
ANCHOR BOLTS:	ASTM A307 OR A36
 - STEEL FABRICATOR TO DESIGN BEAM CONNECTIONS FOR REACTIONS INDICATED, OR WHERE REACTIONS ARE NOT INDICATED, FOR ONE-HALF OF TOTAL UNIFORM LOAD CAPACITY OF A SIMPLE BEAM FOR GIVEN SPAN AS SPECIFIED IN LATEST EDITION OF AISC MANUAL OF STEEL CONSTRUCTION. DESIGN CONNECTIONS SHALL BE AS INDICATED IN THE MEMBER FORCES INDICATED, OR WHERE MEMBER FORCES ARE NOT INDICATED, FOR THE FULL TENSILE AND COMPRESSIVE CAPACITIES OF THE BRACING MEMBERS.
 - MAKE BOLTED FIELD CONNECTIONS WITH HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE. MAKE SHOP CONNECTIONS BY WELDING OR HIGH STRENGTH BOLTING.
 - UNLESS INDICATED, CLEAN STRUCTURAL STEEL IN ACCORDANCE WITH SSPC SP-1 AND SHOP PRIME. PRIMER SHALL BE COMPATIBLE WITH SPECIFIED FINISHES. DO NOT PRIME TOP FLANGE SURFACE OF COMPOSITE BEAMS OR SURFACES, WHICH RECEIVE SPRAY-ON FIREPROOFING.
 - GALVANIZING SHALL CONFORM TO ASTM A123. GALVANIZING OF BOLTS, NUTS, AND OTHER HARDWARE SHALL CONFORM TO ASTM A153.

LINTEL SCHEDULE			
MASONRY OPENING	STRUCTURAL STEEL MEMBER	BLOCK CORE REINFORCING	BEARING EACH END
UP TO 4'-0"	1-L 3-1/2"X3-1/2"X5-1/8"	1-#5	4"
4'-0" TO 6'-0"	1-L 5X3-1/2"X5-1/8" LLV	1-#5	6"
6'-0" TO 8'-6"	1-L 6X3-1/2" X 3/8" LLV	1-#6	8"

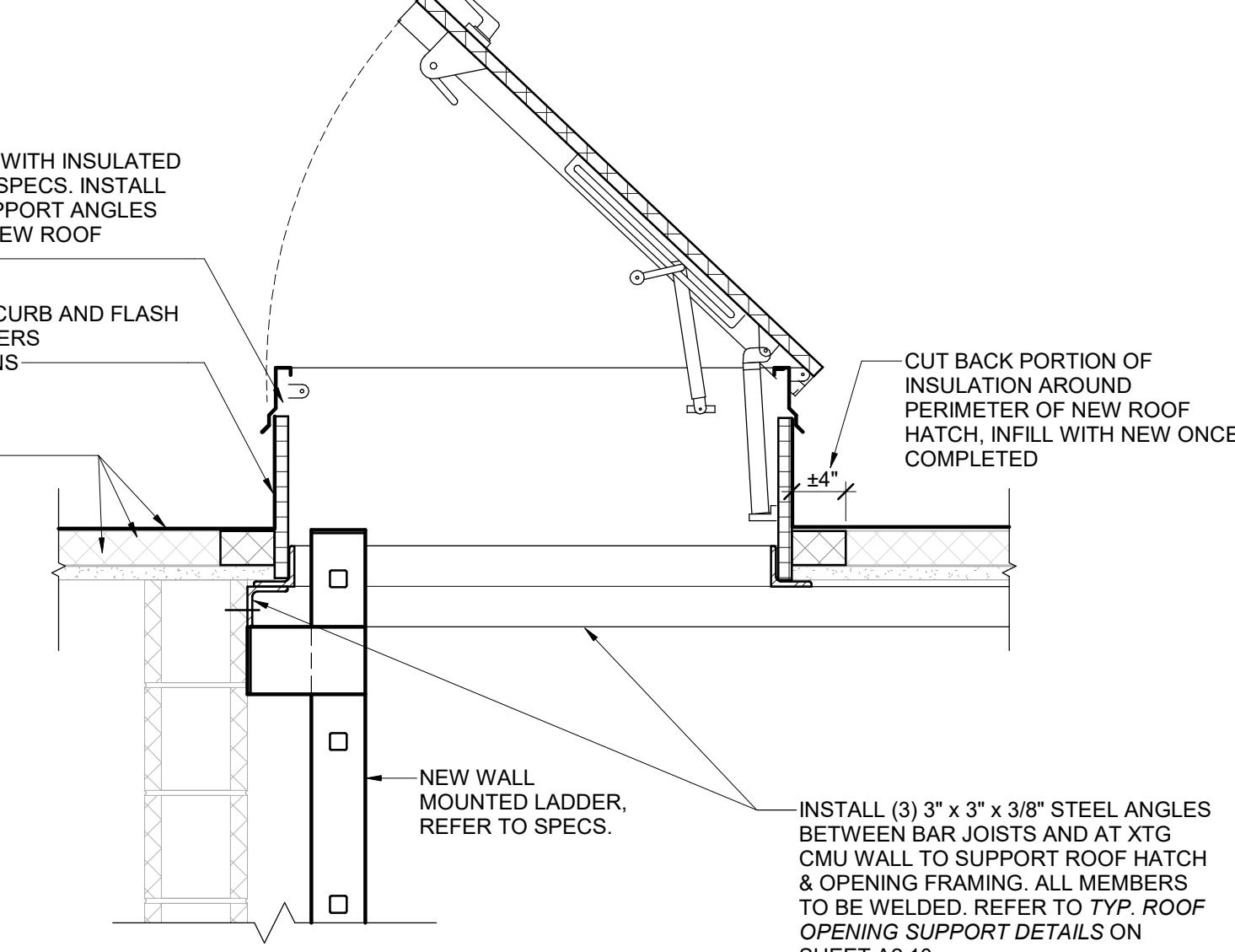
A. UNLESS OTHERWISE NOTED PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS ACCORDING TO THIS SCHEDULE.
B. LINTELS/REINFORCING ARE SCHEDULED FOR EACH 4" OF WALL THICKNESS.

ROOM FINISH SCHEDULE														
NO.	ROOM NAME	MATERIAL			FINISH			COMMENTS						
		FLOOR	BASE	NORTH	EAST	SOUTH	CL.G.	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CL.G.
122	BOILER ROOM	XC	-	XCB	XCB	XCB	-	EPOXY	-	PT	PT	PT	PT	-

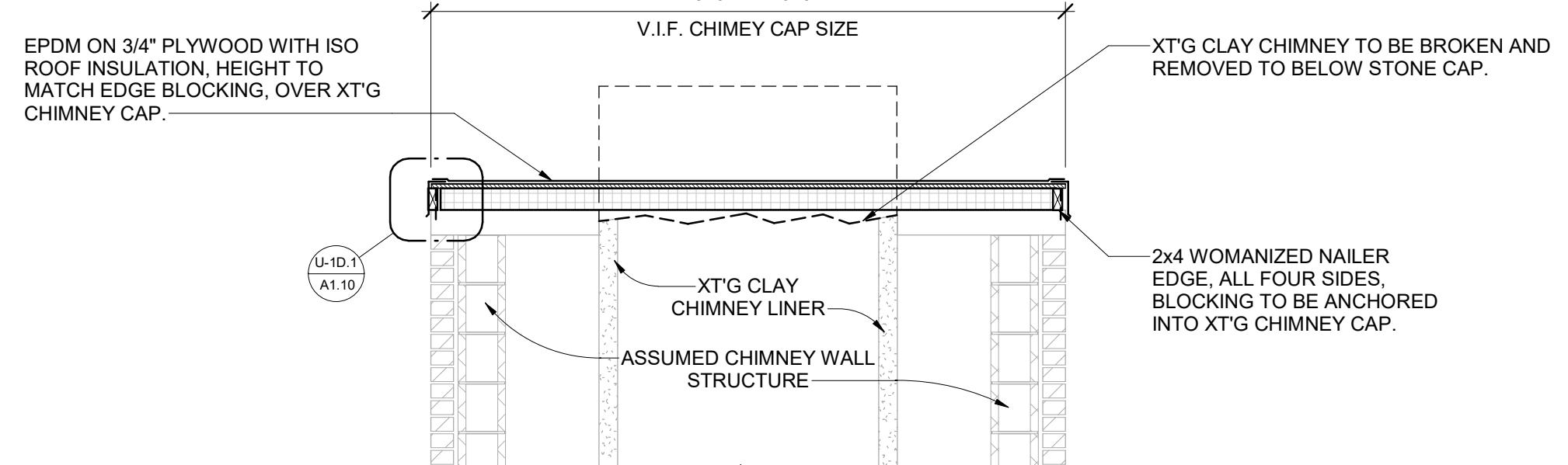
MATERIAL FINISH SCHEDULE											
MATERIAL	TAG	MANUFACTURER	STYLE	COLOR	MODEL NO.	SIZE	COMMENTS	SEE SCHED.			
PAINT	EPOXY	EUCLID CHEMICAL CO.	-	GRAY	-	-	FLOOR FINISH	SEE SCHED.			
PT	SHERWIN WILLIAMS	-	SITE WHITE	SW7070	-	-	WALL PAINT	SEE SCHED.			

NOTE: THIS SCHEDULE PROVIDES ALL NEW MATERIALS / FINISHES FOR BASES OF DESIGN. REFER TO SPECIFICATIONS TO ADDITIONAL INFORMATION.

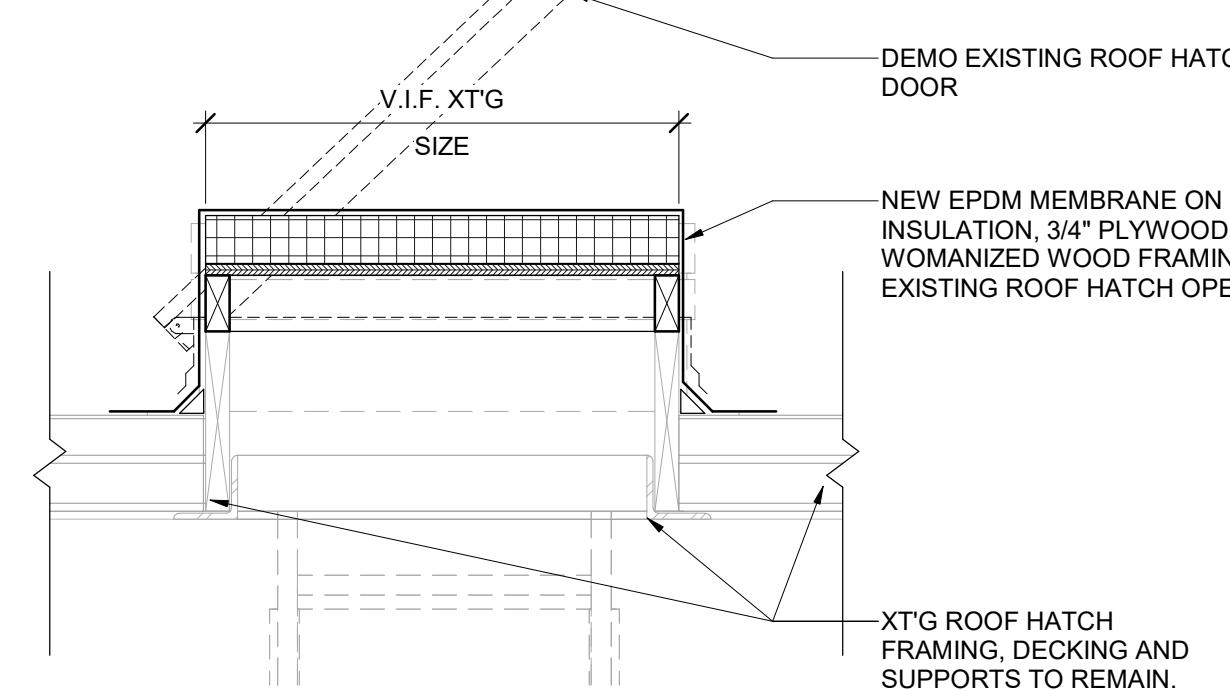
DOOR SCHEDULE												
#	ROOM	PANEL	FRAME	FIRE RATING				FIRE RATING				COMMENTS
	FROM	TO	SIZE	TYPE	MATL	DOOR	GLAZING	TYPE	MATL	DEPT	FRAME	GLAZING
122A	BOILER ROOM #122	JANITOR #120	3'-0" x 6'-8" x 2"	A	HM	45 M. IN.	-	HM-1	HM	4"	45 MIN.	-
122b	BOILER ROOM #122	BOILER ROOM #122	3'-0" x 7'-0" x 2"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	HARDWARE ONLY



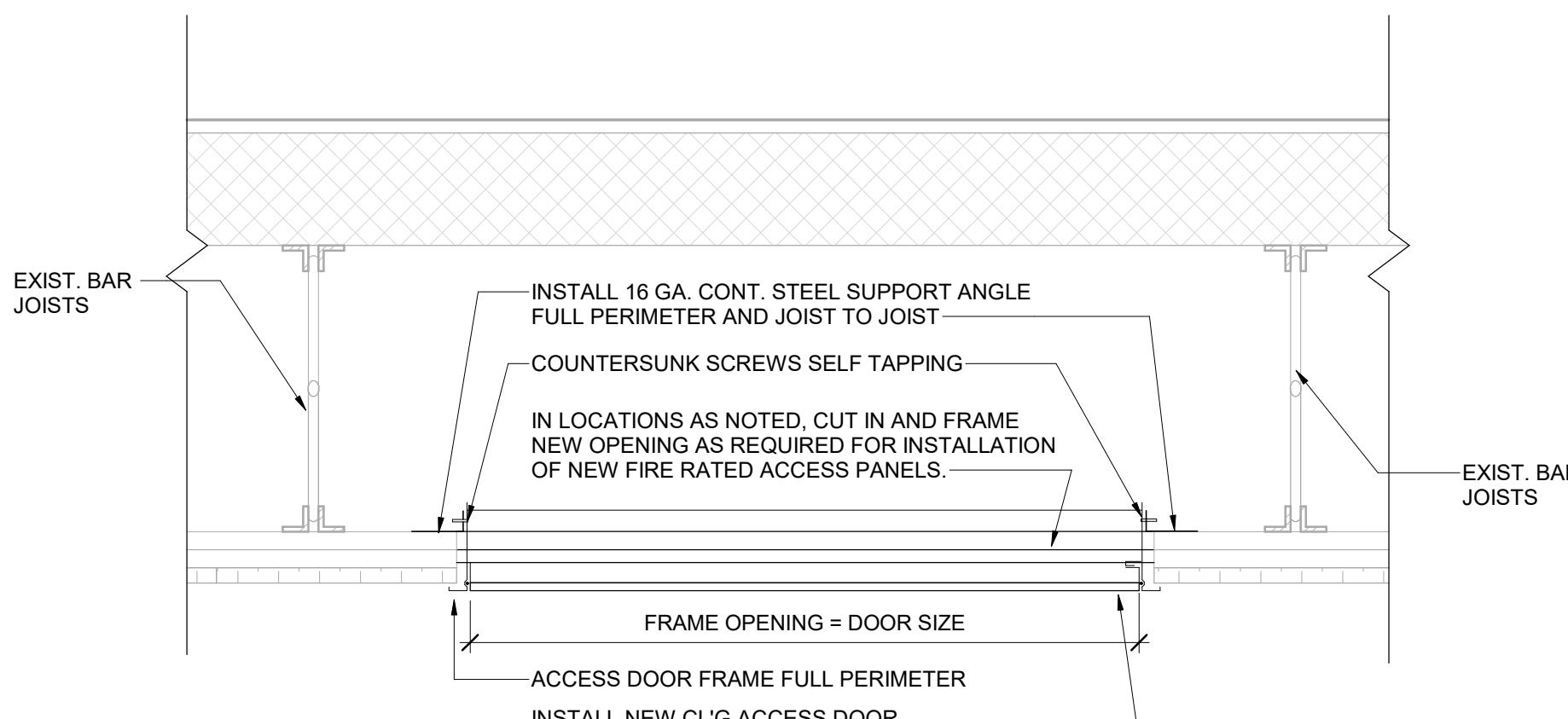
8 ROOF HATCH SECTION
A1.10 SCALE: 1" = 1'-0"



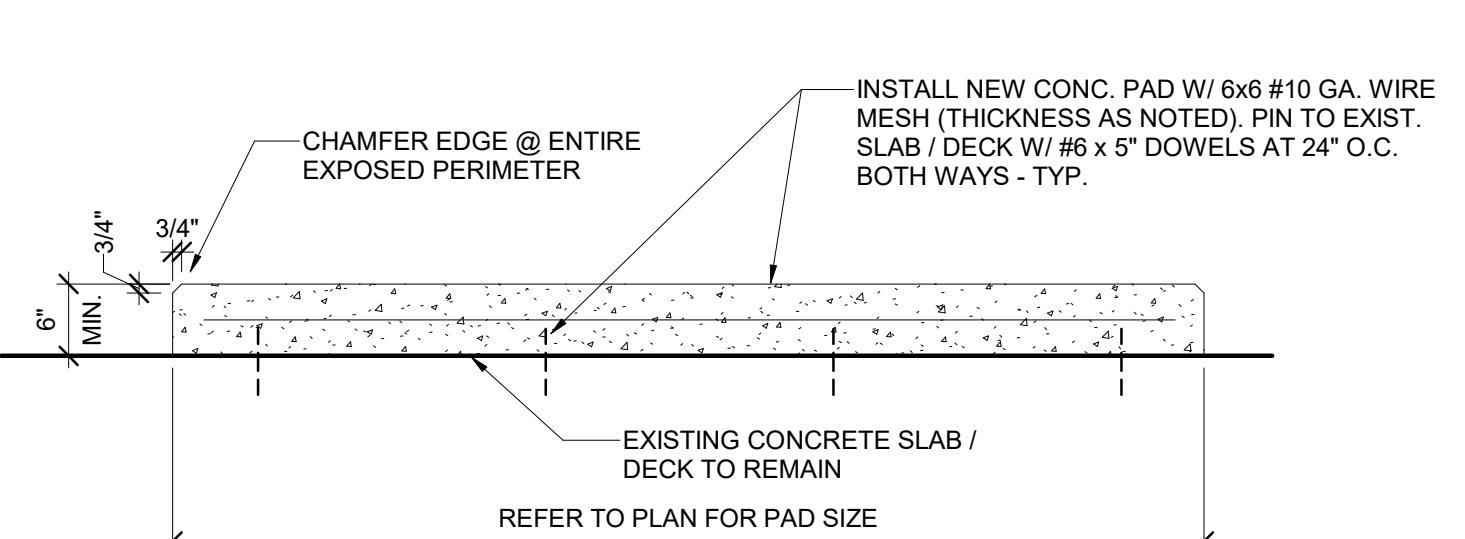
6 CHIMNEY CAP DETAIL
A1.10 SCALE: 1/2" = 1'-0"



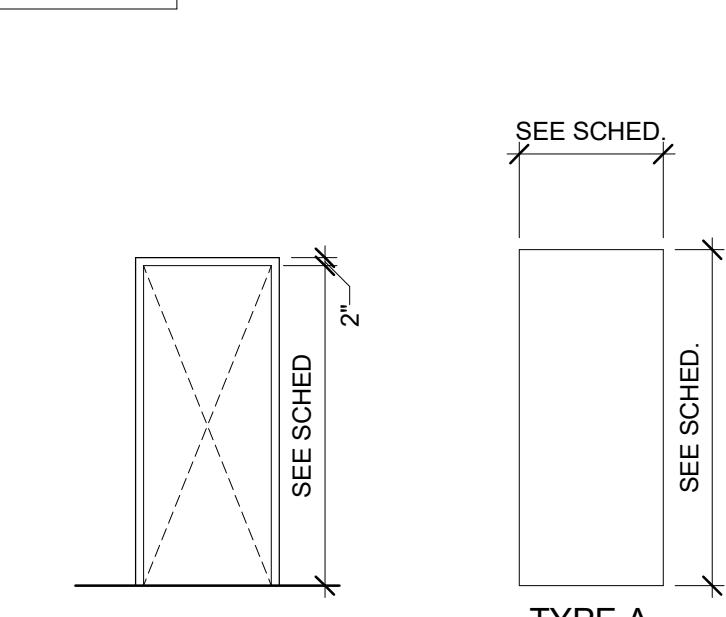
7 DEMO'D ROOF HATCH CAP
A1.10 SCALE: 1" = 1'-0"



5 TYP. ROOF PIPING / ELEC. CURB DETAIL
A1.10 SCALE: 1" = 1'-0"



4 TYP. CEILING ACCESS PANEL
A1.10 SCALE: 1 1/2" = 1'-0"



DOOR & FRAME ELEV.
A1.10 SCALE: 1/4" = 1'-0"

BOILER REPLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL

1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

A2.00
FOR
JOB # 26101
ARCHITECTURAL DETAILS

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PIPE MATERIAL CONSTRUCTION & INSULATION SCHEDULE (REFER TO SPECIFICATIONS SECTION 232113, 232114, & 230719 FOR ADDITIONAL REQUIREMENTS.)						
SERVICE DESCRIPTIONS		ABBREVIATION	PIPING MATERIAL	MEANS OF CONNECT	FITTINGS	INSULATION
HEATING HOT WATER	HWS & HWR		2" & SMALLER: TYPE K, L OR M HARD COPPER	SOLDER *	WROUGHT	PIPE LESS THAN 1 1/2" INSULATE WITH A MINIMUM 1 1/2" FIBERGLASS PIPE 1 1/2" AND LARGER INSULATE WITH 2" FIBERGLASS
			2" & SMALLER: SCHEDULE 40 BLACK STEEL, ASTM A53-S-A-ERW	THREAD & COUPLE OR WELD	SCHEDULE 40	150 PSIG
			2-1/2" & LARGER: SCHEDULE 40 BLACK STEEL, ASTM A53-S-A-ERW	WELD *	SCHEDULE 40	
CONDENSATE DRAIN LINES	CDL	2" & SMALLER: TYPE L HARD COPPER	THREAD & COUPLE	SOLDER *	WROUGHT	3/4" FIBERGLASS

* PROGRESS FITTINGS OR MECHANICAL FITTINGS ARE NOT ACCEPTABLE.

DUCTWORK MATERIAL CONSTRUCTION & INSULATION SCHEDULE (REFER TO SPECIFICATIONS SECTION 233100, & 230713 FOR ADDITIONAL REQUIREMENTS.)						
SYSTEM EQUIPMENT	DUCTWORK SERVICE	DUCTWORK PRESSURE CLASS ("W.C.)	SMACNA SEAM CLASS	DUCTWORK CONSTRUCTION	INSULATION	REMARKS
GENERAL EXHAUST	EXHAUST AIR	+/- 2.0	C	RECTANGULAR DUCT: GALVANIZED SHEET METAL	USE 2 INCH FLEXIBLE FIBERGLASS WRAP INSULATION.	1 THRU 4
SUPPLY FAN	OUTSIDE AIR	+/- 2.0	A	RECTANGULAR DUCTWORK: GALVANIZED SHEET METAL RIGID ROUND BRANCHES (CONCEALED); LONGITUDINAL OR SPIRAL SEAMS. FLEXIBLE BRANCHES: NOT PERMITTED	USE 2 INCH RIGID FIBERGLASS BOARD INSULATION WITH A MINIMUM INSTALLED R-VALUE OF 6	1 THRU 4

REMARKS:
1. DUCTWORK CONSTRUCTION, INCLUDING SHEET METAL GAUGES AND SEAM CONSTRUCTION METHODS, SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
2. DUCTWORK ELBOWS, TRANSITIONS, ETC. SHALL BE FABRICATED IN ACCORDANCE WITH DETAIL "J" ON SHEET M1.02.
3. REFER TO SPECIFICATION MANUAL FOR ADDITIONAL DUCTWORK CONSTRUCTION REQUIREMENTS.
4. ALL DUCT SIZES INDICATED ON DRAWINGS REPRESENT INTERNAL NET DIMENSIONS. DUCTWORK SIZE SHALL BE INCREASED AS REQUIRED TO ACCOMMODATE INTERNAL SOUND LINING, ETC.

PUMP SCHEDULE (REFER TO SPECIFICATIONS SECTION 232123 FOR ADDITIONAL REQUIREMENTS.)													
TAG #	LOCATION	SERVICE	TYPE	FLUID	GPM	HEAD PRESS. (FT.)	IMPELLER DIAMETER (IN.)	INLET SIZE (IN.)	OUTLET SIZE (IN.)	MOTOR DATA	BELL & GOSSETT MODEL	REMARKS	
HWD-HWP-1	M.3.01 BOILER RM	HEATING WATER	END SUCTION	WATER	120	60	9.0	2	1 1/2	5, 1,800	230/3	E-1510-1.5BC 1 THRU 5	
HWD-HWP-2	M.3.01 BOILER RM	HEATING WATER	END SUCTION	WATER	120	60	9.0	2	1 1/2	5, 1,800	230/3	E-1510-1.5BC 1 THRU 5	
HWD-HWS-3	M.3.01 BOILER RM	DWH INDIRECT TANK	INLINE	WATER	15	10	3.375	1-1/4	1-1/4	1/4, 1,800	115/1	E-90-1.25AAB 1, 2, 3 & 6	

REMARKS:
1. PROVIDE TAPPED CONNECTIONS IN FLANGES FOR INSTALLATION OF PRESSURE GAUGES.
2. PROVIDE GUARD OVER EXPOSED ROTATING COUPLINGS.
3. PUMP SHALL NOT OVERLOAD MOTOR AT ANY POINT ON HEAD CAPACITY CURVE.
4. FURNISH PUMP WITH END SUCTION DIFFUSER.
5. PROVIDE PUMP WITH INVERTER DUTY MOTOR.
6. PUMP SHALL BE INSTALLED AS PART OF BASE BID ONLY. PUMP SHALL BE OMITTED FROM SCOPE OF WORK IF ALTERNATE HWD-M1 IS ACCEPTED.

VFD SCHEDULE (REFER TO SPECIFICATIONS SECTION 230513 FOR ADDITIONAL REQUIREMENTS.)												
TAG	ITEM	LOCATION OF VFD		ELECTRICAL DATA		REMARKS						
		DWG	ROOM	HP	VOLTAGE/PH							
HWD-VFD-1	END SUCTION PUMP HWD-HWP-1	M.3.01	BOILER ROOM	5	230/3	1						
HWD-VFD-2	END SUCTION PUMP HWD-HWP-2	M.3.01	BOILER ROOM	5	230/3	1						

REMARKS:
1. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF VFD'S INCLUDING ANY MISCELLANEOUS STEEL UNISTRUT NECESSARY TO SUPPORT VFD'S INDEPENDENT OF EQUIPMENT SERVED.

GENERAL PROJECT NOTES

1.01. **CONTRACT DRAWINGS:** IN GENERAL DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED AS A GUIDE TO THE CONTRACTOR, BUT NOT NECESSARILY SHOW ALL DETAILS, OFFSETS, ETC. ALL DRAWINGS SHALL BE THOROUGHLY INSPECTED BY THE CONTRACTOR, THE CONTRACTOR'S WORK SHALL CONFORM TO THE INFORMATION CONTAINED IN THIS SPECIFICATION AND/OR AS INDICATED IN THE LATEST REVISION OF THE DRAWINGS REFERRED TO THEREIN. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER REGARDING ALL QUESTIONS, UPON WHICH HE MAY BE IN DOUBT, BEFORE PROCEEDING WITH FABRICATION OF PARTS AFFECTED. AT HIS OWN EXPENSE, THE CONTRACTOR SHALL PREPARE ALL ADDITIONAL DETAIL OR FIELD INSTALLATION DRAWINGS NECESSARY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS INDICATED ON THE ENGINEER'S LAYOUT DRAWINGS AND DETERMINE IF ANY CHANGES ARE REQUIRED IN CONSTRUCTION. IF ANY CHANGES ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL MAKE CHANGES AS NECESSARY, WHILE THE DRAWINGS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE. THE CONTRACTOR HAS THE RIGHT TO VARY THE RUN OF CONDUITS, PIPING AND/OR DUCTS DURING PROGRESS OF THE WORK AS MAY BE FOUND NECESSARY OR DESIRABLE TO AVOID INTERFERENCES. MAJOR REVISIONS SHALL BE VERIFIED WITH THE ENGINEER.

1.02. **VERIFICATION:**
A. BEFORE RUNNING ANY CONDUITS, DUCTS, PIPING, ETC., WITHIN THE BUILDING, THIS CONTRACTOR SHALL ASSURE HIMSELF THAT THESE MATERIALS CAN BE INSTALLED AS CONTEMPLATED, WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC. ANY NECESSARY MAJOR DEVIATION SHALL BE REFERRED TO THE ENGINEER FOR ADJUSTMENT BEFORE MATERIALS ARE INSTALLED. OF NECESSITY, OPENINGS, SUPPORTING STEEL, FIELD BUILT CURBS, ELECTRICAL DATA, SPACE REQUIREMENTS, ETC., WERE DESIGNED AROUND SPECIFIC PARAMETERS. WHEN THE CONTRACTOR DETERMINES THE MAKE OF EQUIPMENT TO BE PROVIDED FOR THE JOB, IT SHALL BE HIGHLIGHTED TO VERIFY COMPATIBILITY UNITS/DEVIATIONS WITH THE GENERAL CONTRACTOR AND ALL OTHER REQUESTED CONTRACTORS ON THE JOB. IT SHALL ALSO BECOME THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, AS NECESSARY, THROUGH THE ENGINEER, ALL REQUIRED DIMENSIONS SO THAT OPENINGS, SUPPORTING STEEL, CURBS, ELECTRICAL DATA, ETC. WILL FIT THE EQUIPMENT SUPPLIED. ANY ADDITIONAL COST WILL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR. IN ADDITION, ELECTRICAL, POWER, INTERLOCK AND CONTROL DIAGRAMS AND PIPING ARRANGEMENTS WERE DESIGNED AROUND ONE SPECIFIC MANUFACTURER. ADDITIONAL WIRING, PIPING, CONTROLS, ETC., ARE REQUIRED FOR OTHER EQUIPMENT, THIS CONTRACTOR SHALL INSTITUTE THE COST OF ADJUSTMENT IN ACCORDANCE WITH THE CONTRACT.

B. ALL MEASUREMENTS, THE EXACT DETERMINATION OF RELATIVE LOCATIONS OR LAYOUTS, THE ASCERTAINING OF ACCURACY OF ALL GIVEN ELEVATIONS AND DIMENSIONS AND THE ASCERTAINING OF ALL NECESSARY ADDITIONAL INFORMATION TO INSURE THE PROPER FIT AND COORDINATION OF ALL CONDUIT EQUIPMENT, DUCTS, AND PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1.03. **GUARANTEE:** THE CONTRACTOR GUARANTEES, BY HIS ACCEPTANCE OF THE CONTRACT, THAT ALL WORK WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND/OR MATERIALS, FOR A PERIOD OF ONE YEAR FOLLOWING PROJECT COMPLETION UNLESS NOTED OTHERWISE, AND THAT ALL APPARATUS WILL DEVELOP CAPACITIES AND CHARACTERISTICS SPECIFIED. SHOULD ANY DEFECTS IN WORKMANSHIP AND/OR MATERIALS REQUIRE REDESIGN OF ANY PART OF THE ELECTRICAL, MECHANICAL, PLUMBING OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREOF SHALL, WITH THE APPROVAL OF THE ARCHITECT, BE PREPARED BY THE CONTRACTOR AT HIS OWN EXPENSE. WHERE SUCH APPROVED DEVIATION REQUIRES A DIFFERENT QUANTITY AND ARRANGEMENT OF DUCTWORK, PIPING, WIRING, CONDUIT AND/OR EQUIPMENT FROM THAT SPECIFIED OR DETAINED ON DRAWINGS, WITH THE APPROVAL OF THE ARCHITECT, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUCH MATERIALS AND/OR EQUIPMENT REQUIRED BY THE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

1.04. **SUBMITTALS:** AFTER RECEIVING APPROVAL OF EQUIPMENT MANUFACTURERS, AND PRIOR TO DELIVERY OF ANY MATERIAL TO THE JOB SITE, AND SUFFICIENTLY IN ADVANCE OF THE REQUIREMENT TO ALLOW ARCHITECTURAL TIME FOR CHECKING, SUBMITTALS FOR REVIEW DEPENDENT ON THE CONTRACTOR'S APPROVAL AND THE ENGINEER'S SIGNATURES, SHOWN CONSTRUCTION SCAFFOLDING, PERMIT CLEARANCES, ALL SCHEDULED PERFORMANCE CHARACTERISTICS AND CAPACITIES OF MATERIAL AND EQUIPMENT. SHOP DRAWINGS SHALL SHOW THE RATINGS OF ITEMS AND SYSTEMS AND HOW THE COMPONENTS OF ITEMS AND SYSTEMS ARE ASSEMBLED, FUNCTION TOGETHER AND HOW THEY WILL BE INSTALLED ON THE PROJECT. DATA AND SHOP DRAWINGS FOR COMPONENT PARTS OF AN ITEM OR SYSTEM SHALL BE COORDINATED AND SUBMITTED AS A UNIT. SHOP DRAWINGS SHALL CLEARLY HIGHLIGHT ENCLUSES, IF OTHERWISE, CLEARLY IDENTIFYING DEVIATIONS FROM THE CONTRACT DRAWINGS. PRIOR TO SUBMITTING, CONTRACTOR SHALL THOROUGHLY REVIEW EACH SUBMITTAL AND MAKE SURE IT IS IN ACCORDANCE WITH CONTRACT DRAWINGS, AND MARK EACH SUBMITTAL WITH APPROVAL STAMP TO SHOW THAT SUBMITTALS HAVE BEEN REVIEWED AND APPROVED BY THE CONTRACTOR. FAILURE OF CONTRACTOR TO COMPLY FULLY WITH THIS SECTION WILL RESULT IN REJECTION OF SUBMITTAL.

A. APPROVAL STAMP: STAMP EACH SUBMITTAL WITH A UNIFORM APPROVAL STAMP. STAMP SHALL INCLUDE PROJECT NAME, LOCATION, SPECIFICATION SECTION, NAME OF REVIEWER, DATE OF CONTRACTOR'S APPROVAL, AND STATEMENT CERTIFYING THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED, AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DRAWINGS.

1.05. **NEW WORK:** UNLESS OTHERWISE NOTED, ALL WORK INDICATED THROUGHOUT THESE DRAWINGS SHALL BE CONSIDERED AS NEW WORK AND SHALL BE INCLUDED AS AN INTEGRAL PART OF THIS CONTRACT.

1.06. **DUCTWORK CONSTRUCTION:** ALL DUCTWORK SHALL BE CONSTRUCTED FOR THE STATIC PRESSURE CLASSIFICATION INDICATED IN THE DUCTWORK MATERIAL CONSTRUCTION SCHEDULE. FURNISH TURNING VANE IN ALL SUPPLY AIR RECTANGULAR DUCTWORK ELBOWS AND T-SPLITS (REFER TO APPROPRIATE DETAIL FOR ADDITIONAL REQUIREMENTS). THE GENERAL ROUTING SHALL BE DETERMINED BY THE JOB SITE CONDITIONS AND SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION TRADES.

1.07. **AIR DEVICE LOCATIONS:** THE MECHANICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL CEILING PLAN AND THE ELECTRICAL LIGHTING PLAN FOR ALL AIR DEVICE LOCATIONS. THE LOCATIONS INDICATED ON THE HVAC FLOOR PLAN ARE INTENDED FOR GENERAL POSITIONING PURPOSES ONLY.

1.08. **PERMITS AND CODES:** CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PERMITS, TAXES AND INSURANCE. ALL WORK SHALL BE INSTALLED IN COMPLETE CONFORMITY WITH LOCAL CODES AND ORDINANCES AS WELL AS THE FOLLOWING:

1. NFPA 80
2. MBC 2021
3. MMC 2021
4. LOCAL CODES & ORDINANCES
5. ASHRAE
6. ANSI
7. ASTM
8. UL
9. NEC
10. AMCA
11. SMACNA

MECHANICAL LEGEND

	EXISTING DUCTWORK/PIPE/EQUIPMENT TO REMAIN AS IS
	EXISTING DUCTWORK/PIPE/EQUIPMENT TO BE REMOVED
	NEW DUCTWORK/PIPE/EQUIPMENT
	NEW DUCTWORK/PIPE/EQUIPMENT
	FLEXIBLE CONNECTION
	MANUAL VOLUME BALANCING DAMPER
	MOTOR OPERATED DAMPER
	THERMOSTAT
	EXISTING THERMOSTAT
	NEW WORK DRAWING KEY NOTE
	CONNECTION OF NEW TO EXISTING
	DETAIL TAG NUMBER
	DRAWING REFERENCE NUMBER
	HVAC SECTION MARKER
	DRAWING REFERENCE NUMBER
	ELECTRICAL CONTRACTOR
	GENERAL CONTRACTOR
	MECHANICAL CONTRACTOR
	PLUMBING CONTRACTOR
	TEMPERATURE CONTROL CONTRACTOR
	ABOVE FINISHED FLOOR
	BOTTOM OF DUCT
	CUBIC FEET PER MINUTE
	FRESH AIR INTAKE
	REMOVABLE WIRE MESH SCREEN (1/2" X 1/2" FABRIC)
	UNLESS OTHERWISE NOTED
	EXHAUST AIR
	NATURAL GAS
	DUCT TRANSITION
	DUCT UNDER NEGATIVE PRESSURE TURNING OUT OF THE DRAWING
	DUCT UNDER NEGATIVE PRESSURE TURNING INTO THE DRAWING
	BUTT PIPE COUPLING
	THREE-WAY VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	TRIPLE-DUTY VALVE
	BYPASS VALVE
	CHECK VALVE
	STRAINER



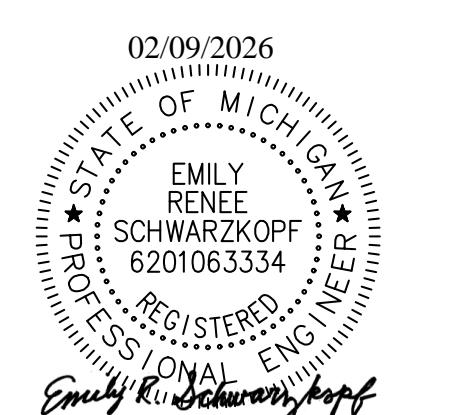
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Perryburg, OH 43551 | 419.352.7537



02/09/2026
DATE 02.09.2026
DESCRIPTION BIDDING & STATE REVIEW



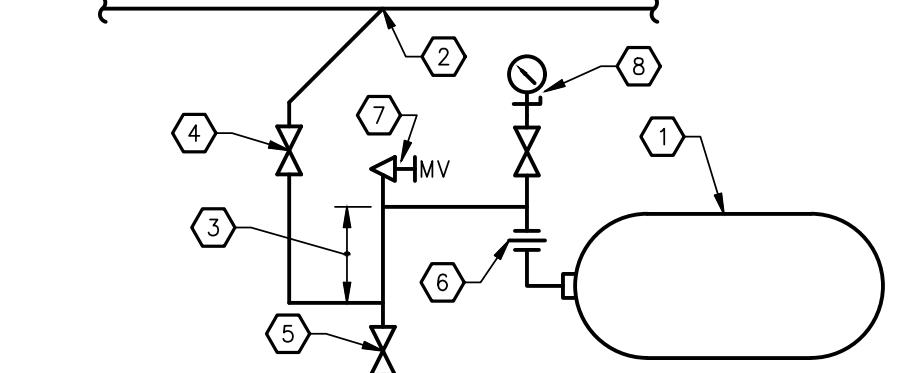
BOILER REPLACEMENT & RELATED WORK
HOLLYWOOD ELEMENTARY SCHOOL
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MONROE PUBLIC SCHOOLS
1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

FOR

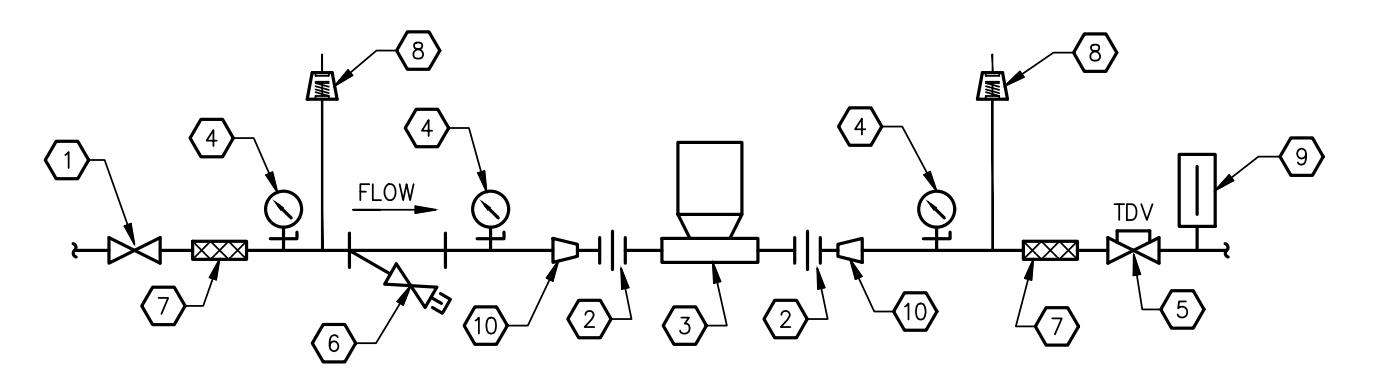
JOB # 26101

DETAILS

M1.02



PIPE SIZE FROM TANK TO SYSTEM:
EQUIVALENT PIPE LENGTH UP TO
30' AND MAX. AVERAGE DESIGN
TEMPERATURE OF 170° F.



① DIAPHRAGM TYPE EXPANSION TANK
ACCEPTANCE VOLUME = 56.5
TOTAL VOLUME = 67.25
INITIAL PRESSURE = 12 PSI
② CONNECT TO SIDE OF MAIN
③ ANTI-THERMOSIPHON LOOP,
MINIMUM 12' DROP
④ FLEXIBLE PIPE FITTING
⑤ SHUT-OFF VALVE
⑥ UNION
⑦ PUMP
⑧ VIBRATION ISOLATION HANGERS
⑨ THERMOMETER
⑩ TRIPLE DUTY (ISOLATION, CHECK &
BALANCE) VALVE
⑪ TRANSITION

② THERMOMETER POSITIONED FOR
OPTIMUM VIEWING
③ 4" CONCRETE
HOUSEKEEPING PAD (BY G.C.)
④ PRESSURE GAUGE W/ 1-1/4"
COCK POSITIONED FOR
OPTIMUM VIEWING
⑤ SHUT-OFF VALVE
⑥ UNION
⑦ BLOWDOWN VALVE &
HOSE BIBB CONNECTION
⑧ CHECK VALVE
⑨ PUMP
⑩ FLEXIBLE CONNECTION (PIPE
SIZE AS INDICATED ON PLAN)
⑪ SUCTION DIFFUSER, STRAINER,
REDUCER, SUCTION DIFFUSER
INLET TO MATCH PIPE SIZE
INDICATED ON PLANS.

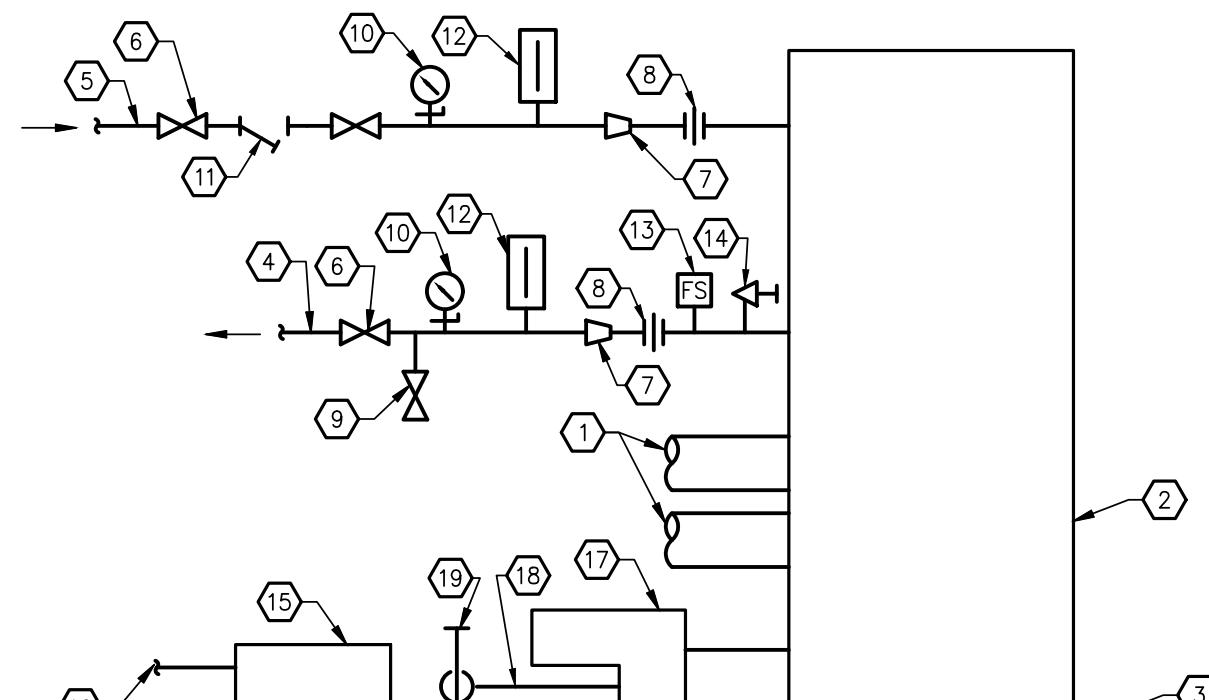
② DRAIN CONNECTION
③ UNION
④ THERMOMETER
⑤ NEOPRENE PAD AT EACH
BOLTED CONNECTION
⑥ VACUUM BREAK
⑦ FLOW SWITCH
⑧ TEMPERATURE, PRESSURE
RELIEF VALVE

VERTICAL IN-LINE PUMP WITH
HORIZONTAL PIPING DETAIL

M.3.01
NO SCALE

TYPICAL DIAPHRAGM
EXPANSION TANK PIPING DETAIL

D
M.1.03 &
M.3.01
NO SCALE



① COMBUSTION AIR INTAKE AND FLUE
PIPING. SIZE AND INSTALL PER
MANUFACTURER'S WRITTEN
INSTRUCTIONS. FIELD VERIFY EXACT
ROUTING.
② BOILER
③ EXISTING EQUIPMENT PAD
④ SUPPLY LINE (REFER TO
PLANS FOR SIZE)
⑤ RETURN LINE (REFER TO
PLANS FOR SIZE)
⑥ SHUT OFF VALVE

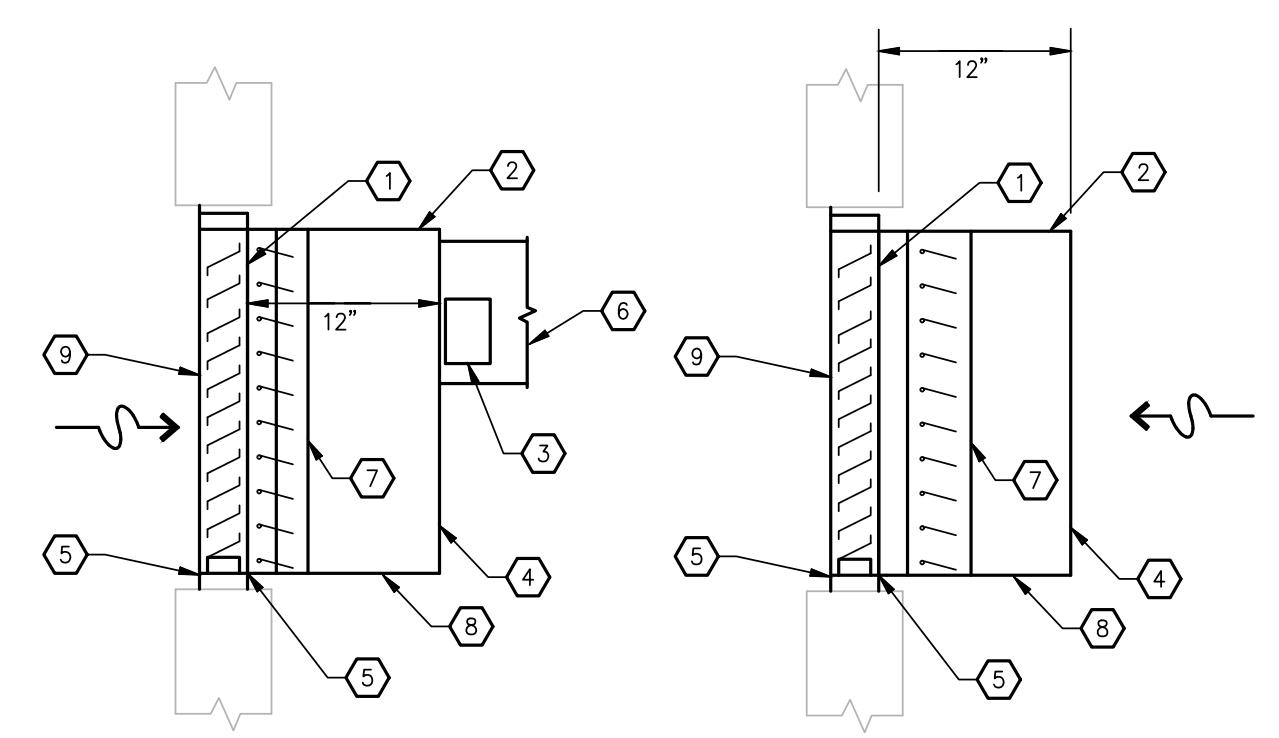
⑦ CONCENTRIC REDUCER
⑧ UNION
⑨ DRAIN PORT
⑩ PRESSURE GAUGE
⑪ STRAINER
⑫ THERMOMETER
⑬ FLOW SWITCH
⑭ TEMPERATURE, PRESSURE
RELIEF VALVE

⑮ MANUFACTURERS PROVIDED
CONDENSATE NEUTRALIZATION KIT
⑯ EXTEND CONDENSATE TO FLOOR DRAIN.
⑰ MANUFACTURERS PROVIDED
CONDENSATE TRAP.
⑱ SIZE AND INSTALL CONDENSATE LINE PER
MANUFACTURERS WRITTEN INSTRUCTIONS.
CONDENSATE DRAIN UPSTREAM OF
NEUTRALIZER SHALL BE PVC OR CPVC.
⑲ VACUUM BREAK

NOTE: ALL SUPPLY, RETURN AND BYPASS PIPING AND ASSOCIATED
VALVES, ETC. INDICATED IN THIS DETAIL SHALL BE INSTALLED FULL
SIZE FOR EACH BOILER.

A BOILER PIPING DETAIL

M.1.03
M.2.01
NO SCALE



B END SUCTION PUMP DETAIL

M.1.02
M.3.01
NO SCALE

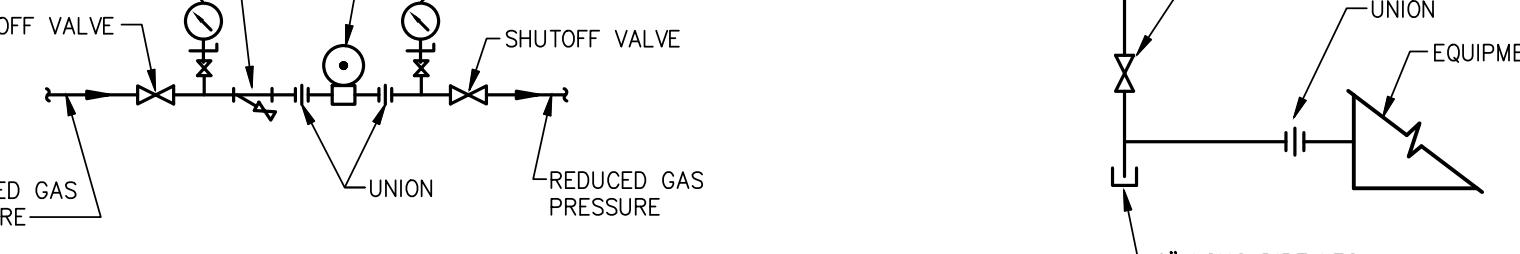
① SIZE AND INSTALL FLUE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
② PRE-FABRICATED ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR,
INSTALLED BY GENERAL CONTRACTOR.
③ ROOF CONSTRUCTION ASSEMBLY.
④ EXTEND FLUE DOWN TO GAS FIRED APPLIANCE; CONNECTION SHALL
BE IN COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
⑤ MINIMUM 3 FEET ABOVE THE ROOF AND 2 FEET HIGHER THAN ANY
PORTION OF THE BUILDING WITHIN 10 FEET.

E FLUE THRU ROOF DETAIL

M.3.01
NO SCALE

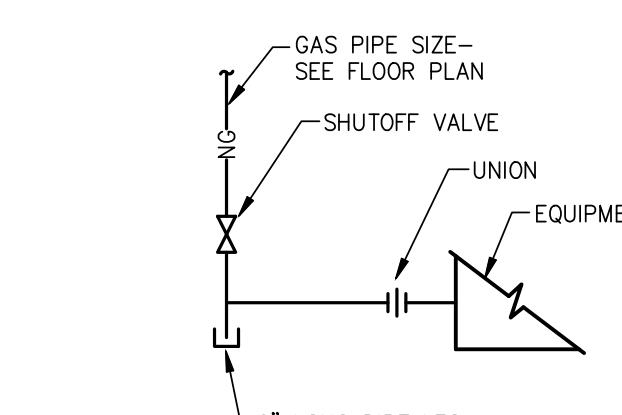
① 1/2" BIRDSCREEN
② INSULATE LOUVER PLENUM WITH 2 IN. RIGID FIBERGLASS
BOARD INSULATION
③ ACCESS DOOR: HALF HEIGHT OF DUCT, 12"x12"
MINIMUM (UNLESS SHOWN OTHERWISE ON
PLANS).
④ SOLDER BOTTOM JOINT & UP 12".
⑤ SEAL AND CAULK AROUND PERIMETER OF LOUVER
⑥ DUCTWORK. REFER TO PLAN(S) FOR SIZE AND CONFIGURATION.
⑦ MOTORIZED DAMPER
⑧ PITCH BOTTOM OF LOUVER PLENUM TOWARD OUTER WALL.
⑨ LOUVER

NATURAL GAS
PRESSURE REGULATOR
WITH INTERNAL RELIEF VALVE, SET TO
DELIVER GAS AT INDICATED FLOW RATE
AND PRESSURE. REGULATOR AND DUCT
SHALL BE ROUTED OUTDOORS AND TERMINATE IN
ACCORDANCE WITH MANUFACTURER'S
INSTRUCTIONS. MINIMUM 10 FEET FROM
ANY FRESH AIR INTAKE.



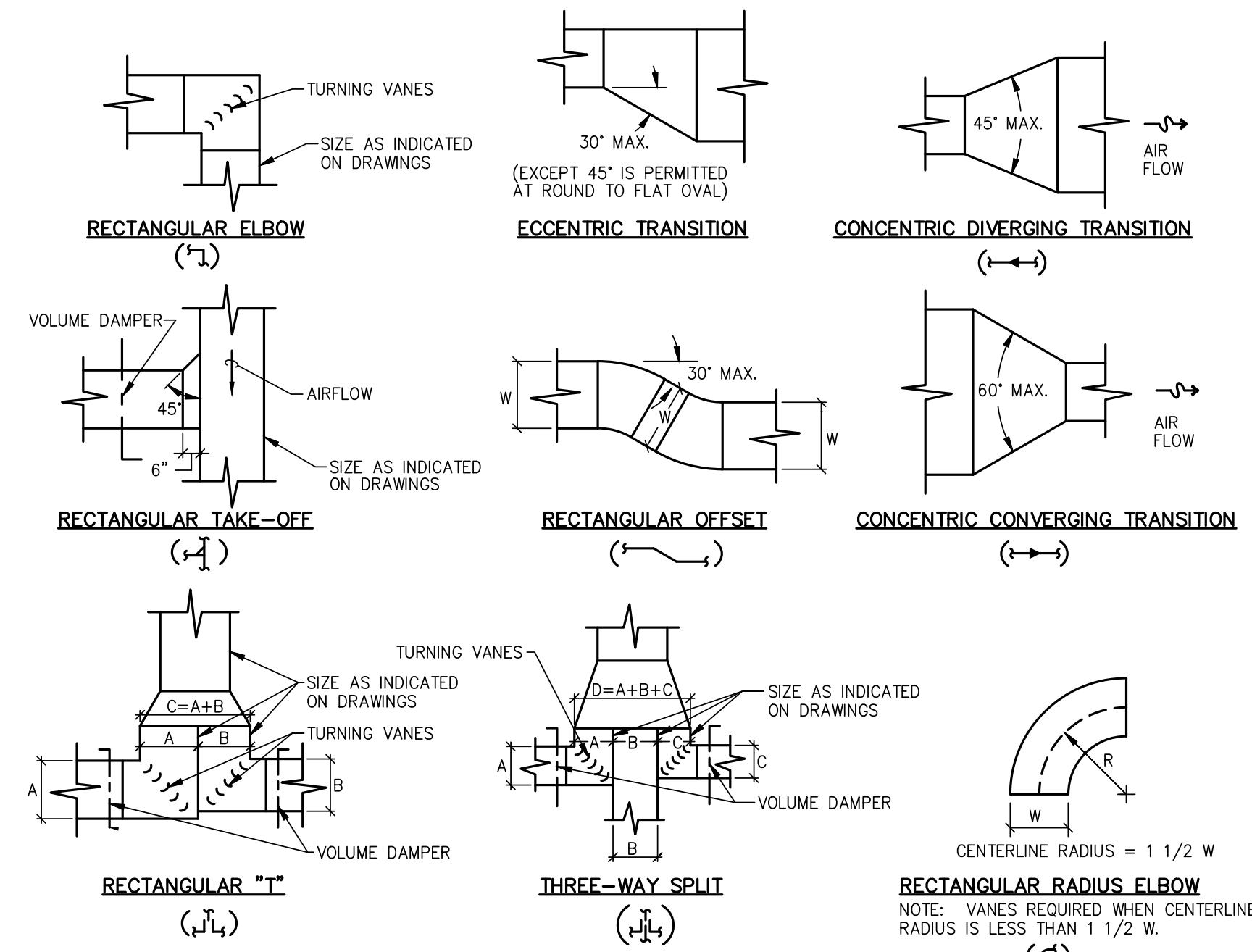
G NATURAL GAS
PRESSURE REGULATOR DETAIL

M.3.01
NO SCALE



H GAS CONNECTION DETAIL

M.3.01
NO SCALE



J DUCTWORK TRANSITION DETAILS

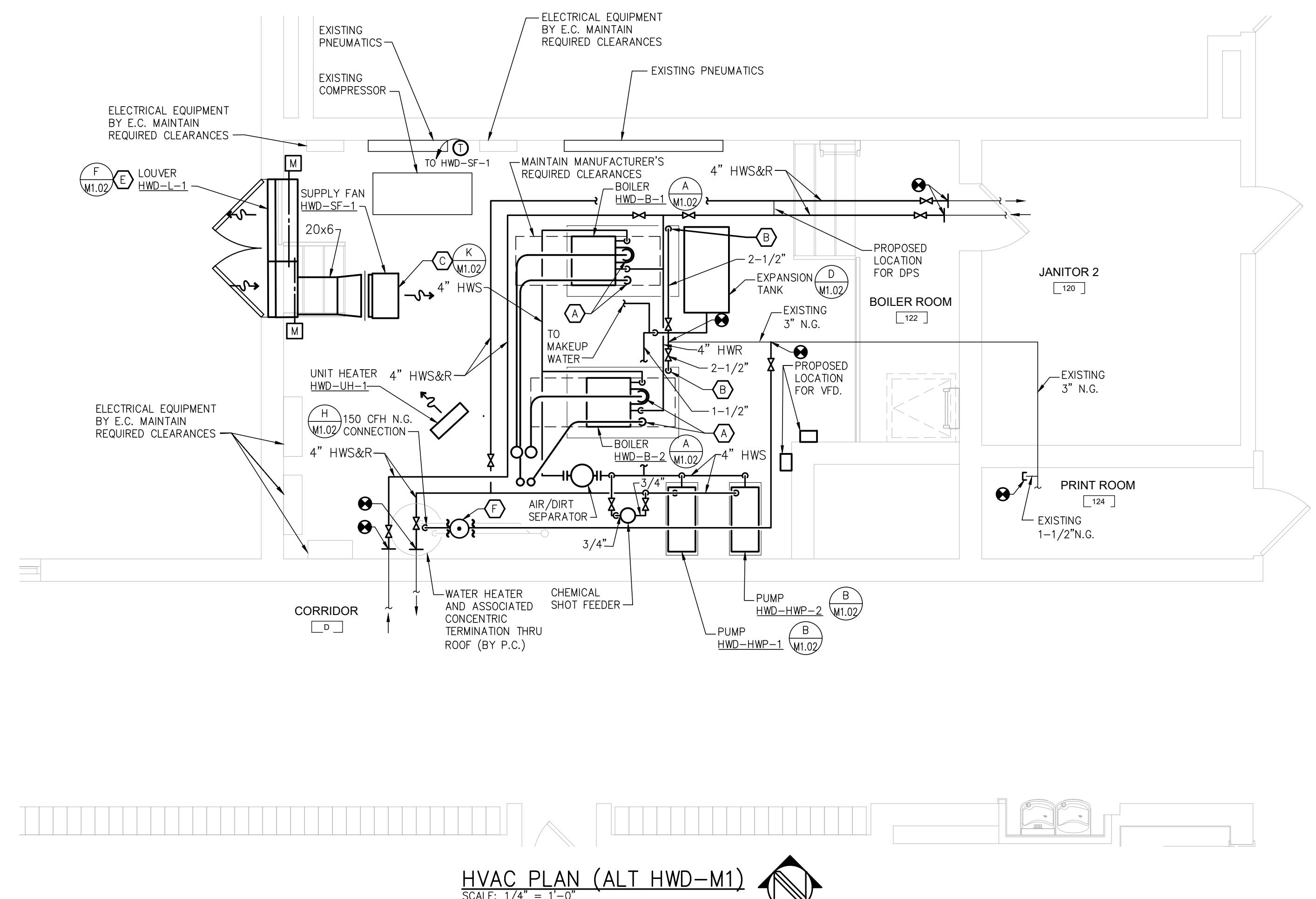
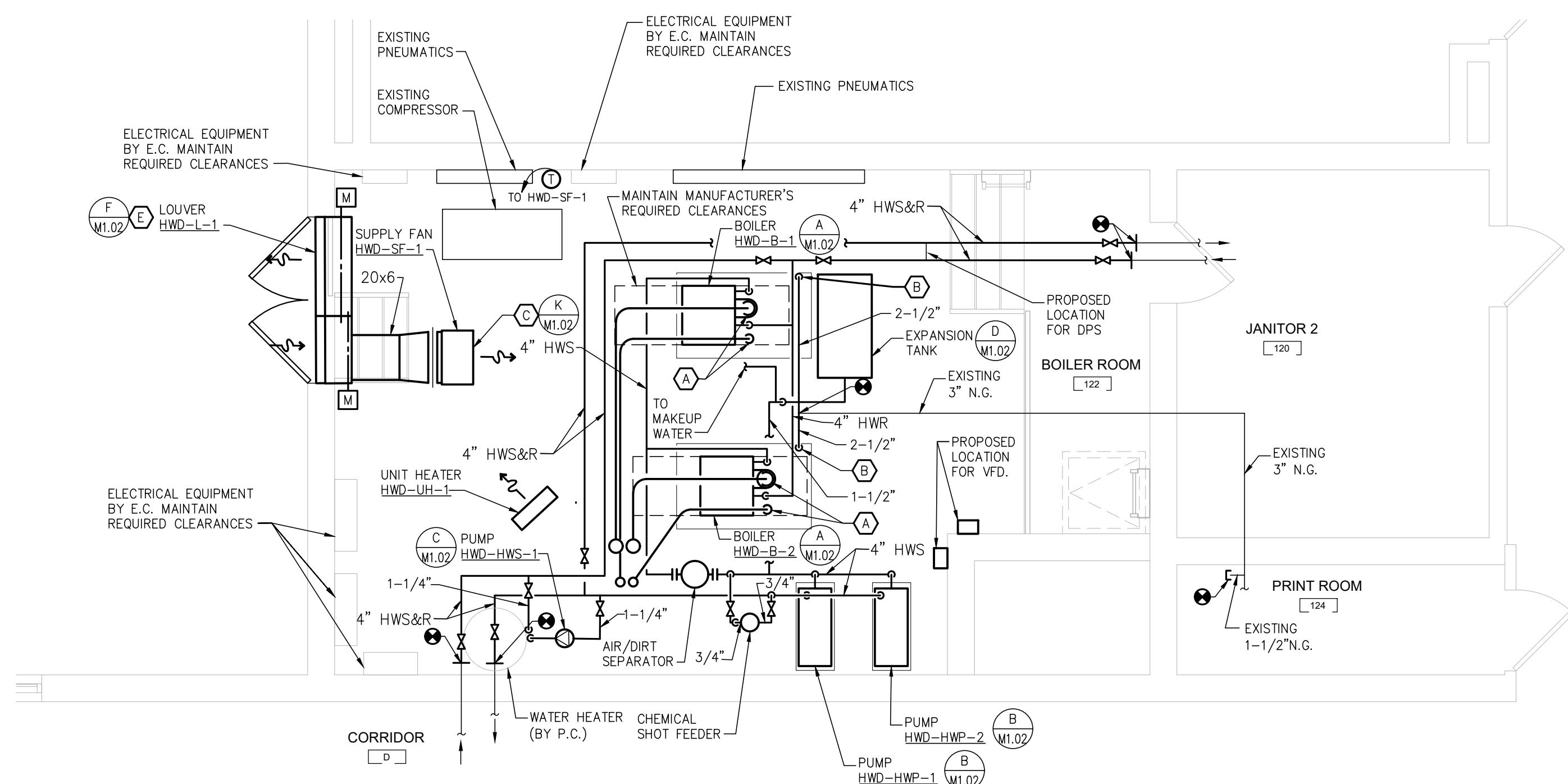
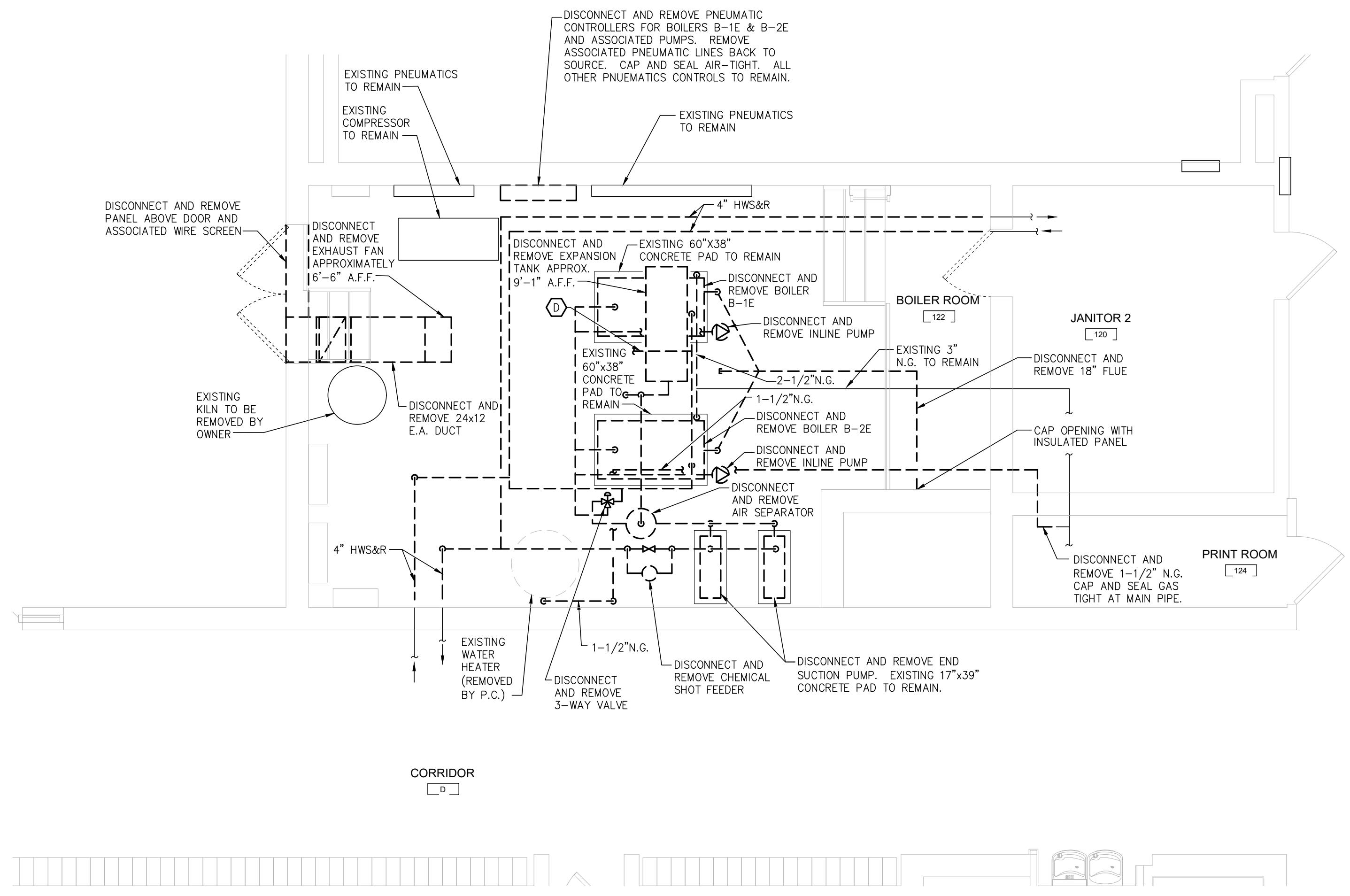
M.3.01
NO SCALE

ALTERNATE

ALTERNATE HWD-M1: STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED
FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT
NECESSARY FOR THE FOLLOWING:

- OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND
CIRCULATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE
CONTROLS.
- INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER
HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE
REGULATOR, AND TEMPERATURE CONTROLS.

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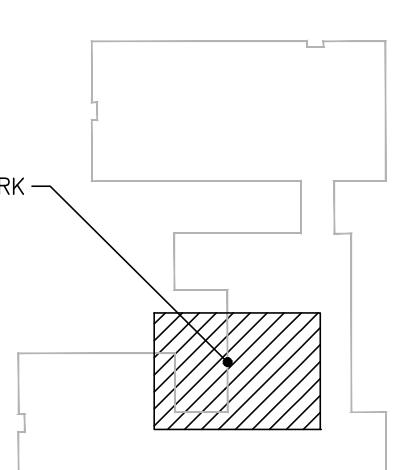
GENERAL NOTES:

1. FRESH AIR INTAKE SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY EXHAUST OUTLET, FLUE, PLUMBING VENT, OR COORDINATE EQUIPMENT AND VENT LOCATIONS WITH PLUMBING CONTRACTOR.
2. ROOF CURBS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CONSTRUCTION.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DUCT/PLUMBING CHASES WITH ALL OTHER TRADES.
4. PIPE PENETRATIONS THRU ALL FIRE RATED WALLS SHALL BE SEALED BY THE MECHANICAL CONTRACTOR, TO PREVENT SPREAD OF FIRE AND SMOKE AND INGRESS OF MOISTURE.
5. PROVIDE ALL HANGERS, SUPPORTS AND MISCELLANEOUS STEEL REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPE, DUCTWORK AND EQUIPMENT.
6. COORDINATE DUCTWORK, PIPING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES.
7. MAINTAIN REQUIRED MANUFACTURERS' CLEARANCES ON ALL EQUIPMENT.
8. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND DETAIL "J" ON DRAWING M1.02.
9. EXISTING PNEUMATIC SYSTEM OPERATION SHALL BE FIELD VERIFIED IMMEDIATELY AFTER DEMOLITION; PNEUMATIC SYSTEM FOR EXISTING EQUIPMENT MUST BE RETAINED.

ALTERNATE

ALTERNATE HWD-M1: STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:

1. OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND CIRCULATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE CONTROLS.
2. INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.



KEY PLAN
NO SCALE

BOILER REPLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL

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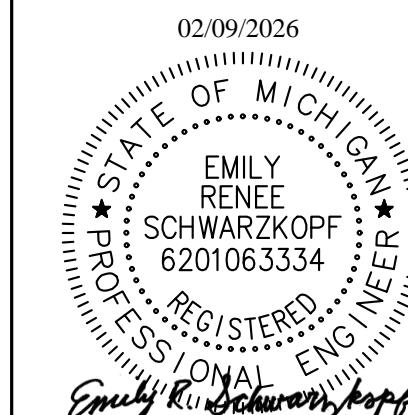
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JOB # 26101

HVAC PLANS

M3.01

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DATE 02.09.2026 DESCRIPTION BIDDING & STATE REVIEW



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5201 Lewis Commons Blvd, Suite 5200
Perryburg, OH 43351 | 419.332.7337



1110 WEST FRONT STREET

MONROE, MICHIGAN 48161

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Temperature Control System Point List										
System Point Description										
Heating Water System	Hardware Points				Software Points				Show on Graphic	
	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	
Boiler HWD-B-1 Hot Water Return Temp	X							X		X
Boiler HWD-B-1 Hot Water Supply Temp	X							X		X
Boiler HWD-B-2 Hot Water Return Temp	X							X		X
Boiler HWD-B-2 Hot Water Supply Temp	X							X		X
Boiler HWD-B-1 & HWD-B-2 Hot Water Supply Temp Setpoint Reset (Qty. 2)		X						X		X
Boiler HWD-B-1 Status			X					X		X
Boiler HWD-B-2 Status			X					X		X
Boiler HWD-B-1 Enable				X						X
Boiler HWD-B-2 Enable				X						X
Boiler HWD-B-1 Failure									X	
Boiler HWD-B-2 Failure									X	
Boiler HWD-B-1 Runtime Exceeded									X	
Boiler HWD-B-2 Runtime Exceeded									X	
Boiler HWD-B-1 High Hot Water Supply Temp									X	
Boiler HWD-B-2 High Hot Water Supply Temp									X	
Boiler HWD-B-1 Low Hot Water Supply Temp									X	
Boiler HWD-B-2 Low Hot Water Supply Temp									X	
Boiler HWD-B-1 Isolation Valve Close		X								
Boiler HWD-B-1 Isolation Valve Open		X								
Boiler HWD-B-1 Isolation Valve Position				X				X		X
Boiler HWD-B-2 Isolation Valve Close		X								
Boiler HWD-B-2 Isolation Valve Open		X								
Boiler HWD-B-2 Isolation Valve Position				X				X		X
Hot Water Differential Pressure	X							X		X
Hot Water Differential Pressure Setpoint				X				X		X
High Hot Water Differential Pressure									X	
Low Hot Water Differential Pressure									X	
Primary Hot Water Return Temp	X							X		X
Primary Hot Water Supply Temp	X							X		X
High Primary Hot Water Supply Temp									X	
Low Primary Hot Water Supply Temp									X	
Hot Water Pump HWD-HWP-1 VFD Speed	X							X		X
Hot Water Pump HWD-HWP-2 VFD Speed	X							X		X
Hot Water Pump HWD-HWP-1 VFD Fault		X							X	X
Hot Water Pump HWD-HWP-2 VFD Fault		X							X	X
Hot Water Pump HWD-HWP-1 Status		X						X		X
Hot Water Pump HWD-HWP-2 Status		X						X		X
Hot Water Pump HWD-HWP-1 Start/Stop			X							X
Hot Water Pump HWD-HWP-2 Start/Stop			X							X
Hot Water Pump HWD-HWP-1 Failure									X	
Hot Water Pump HWD-HWP-2 Failure									X	
Hot Water Pump HWD-HWP-1 Running in Hand										X
Hot Water Pump HWD-HWP-2 Running in Hand										X
Hot Water Pump HWD-HWP-1 Runtime Exceeded									X	
Hot Water Pump HWD-HWP-2 Runtime Exceeded									X	
Makeup Water Fill			X				X		X	X

TEMPERATURE CONTROL SYSTEM SEQUENCE OF OPERATION

GENERAL NOTES:

THE TEMPERATURE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPERATURE CONTROL AND INTERLOCK WIRING REQUIRED FOR THE PROJECT. ALL EXPOSED TO VIEW 24V AND ALL 120V TEMPERATURE CONTROL WIRING SHALL BE ROUTED IN ITS OWN SEPARATE CONDUIT FOR ENTIRE ROUTING; REFER TO THE ELECTRICAL SPECIFICATIONS FOR CONDUIT MATERIAL AND INSTALLATION REQUIREMENTS.

THE INTENT OF THIS SPECIFICATION IS TO VERBALLY DESCRIBE THE DESIRED ACTIONS OF THE HVAC EQUIPMENT SPECIFIED HEREIN FOR THIS FACILITY. EACH TEMPERATURE CONTROL CONTRACTOR (T.C.C.) AND EACH MECHANICAL CONTRACTOR (M.C.) SHALL FAMILIARIZE HIMSELF WITH THESE WRITTEN SEQUENCES. WHETHER OR NOT EXPLICITLY SHOWN ON THE DRAWINGS, ALL DEVICES AND ITEMS REQUIRED FOR THE EXECUTION OF THESE SEQUENCES ARE THE RESPONSIBILITY OF THE BIDDING CONTRACTOR.

ALL ASSOCIATED TEMPERATURE CONTROL EQUIPMENT NOT SPECIFICALLY ASSOCIATED WITH A PIECE OF EQUIPMENT SHALL BE LOCATED IN EASILY ACCESSIBLE SPACE (I.E. STORAGE ROOM, MECHANICAL ROOM, ETC.) AND SHALL BE CLEARLY TAGGED.

TEMPERATURE CONTROL SYSTEM GRAPHICS SCOPE

1. THE TEMPERATURE CONTROL SCOPE SHALL INCLUDE BUT NOT BE LIMITED TO COMPLETE DEMOLITION OF EXISTING PNEUMATIC CONTROLS ASSOCIATED WITH BOILERS, INSTALLATION OF COMPLETE NEW OPEN PROTOCOL DDC CONTROL SYSTEM (TIE INTO DISTRICTS ENERGY MANAGEMENT SYSTEM), GRAPHICS DISPLAY AND ALL ASSOCIATED ACCESSORIES.
2. DISTRICT WIDE BOILER MONITOR PAGE: UPDATE EXISTING BUILDING BOILER AND SYSTEM PAGE FOR ASSOCIATED SCHOOL WITH NEW BOILER AND HEATING WATER SYSTEM.
3. BUILDING PAGE:
 - A. UPDATE BUILDING MAIN PAGE TO INCLUDE NEW BOILER MONITORING POINTS FOR ENABLE, HW PUMP STATUS AND HWS TEMP AND SETPOINT TEMPERATURE. INCLUDE LINK TO HOT WATER SYSTEM PAGE FOR ASSOCIATED BUILDING.
4. ALL ASSOCIATED TEMPERATURE CONTROL EQUIPMENT NOT SPECIFICALLY ASSOCIATED WITH A PIECE OF EQUIPMENT SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION, I.E. STORAGE ROOM, CLOSET, MECHANICAL ROOM, AND BE CLEARLY LABELED.
5. COORDINATE ALL SYSTEM ALARMS WITH APPROPRIATE MONROE PUBLIC SCHOOLS CONTACT. VERIFY WITH OWNER IN WRITING UPON COMPLETION.
6. COORDINATE ALL SYSTEM SET POINTS AND SCHEDULES WITH APPROPRIATE MONROE PUBLIC SCHOOLS CONTACT. VERIFY WITH OWNER IN WRITING UPON COMPLETION.

BOILER ROOM HEATING AND VENTILATION (EXHAUST FAN HWD-EF-1, LOUVER L-E1 DAMPER, AND UNIT HEATER HWD-UH-1):

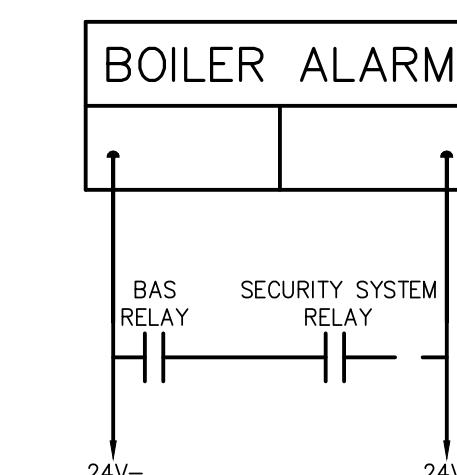
1. SPACE COOLING: SUPPLY FAN HWD-SF-1 SHALL ENERGIZE AND LOUVER HWD-L-1 DAMPER SHALL OPEN WHEN SPACE TEMP EXCEEDS 80 DEGREES F (ADJUSTABLE). WHEN SPACE TEMPERATURE DROPS BELOW SETPOINT, FAN SHALL DE-ENERGIZE AND DAMPERS SHALL CLOSE.
2. SPACE HEATING: UNIT HEATER HWD-UH-1 SHALL ENERGIZE WHEN SPACE TEMPERATURE FALLS BELOW 55 DEGREES F (ADJUSTABLE). WHEN SPACE TEMPERATURE EXCEEDS SETPOINT, UNIT HEATER SHALL DE-ENERGIZE.

HOT WATER SYSTEM (BOILERS HWD-B-1 & 2, HEATING WATER PRIMARY PUMPS HWD-HWP-1 & 2, AND INDIRECT WATER HEATER CIRCULATION PUMP HWD-HWS-3):

1. EACH BOILER IS PROVIDED WITH ALL NECESSARY SAFETY AND OPERATING CONTROLS BY THE BOILER MANUFACTURER. EACH BOILER'S OPERATING TEMPERATURE IS MANUALLY SET TO MAINTAIN 180°F (ADJ.) WATER TEMPERATURE. THE HIGH LIMIT AQUASTAT SUPPLIED WITH THE BOILER SHALL BE SET AT 210°F (ADJ.).
2. THE BOILER SYSTEM SHALL BE INITIATED BELOW 65°F (ADJ.) OUTSIDE AIR TEMPERATURE. THE LEAD BOILER SHALL BE STARTED WITH THE FOLLOWING SEQUENCE:
 - A. UPON A CALL FOR HEAT FROM THE BOILER CONTROLS AND UPON A PROOF OF FLOW FROM A CURRENT SWITCH ON THE LEAD HOT WATER PUMP, THE BOILER ISOLATION VALVE SHALL OPEN, THE BOILER SHALL BE ENABLED.
 - B. SHOULD LEAD HOT WATER PUMP FAIL TO PROVE FLOW, LAG PUMP SHALL ENABLE. IF LAG PUMP FAILS, THE BOILER SHALL BE DISABLED AND AN ALARM SHALL BE GENERATED THROUGH THE DDC SYSTEM.
3. HOT WATER LOOP SHALL BE LINEARLY RESET BASED ON OUTDOOR AIR TEMPERATURE.
4. PROVIDE LEAD/LAG CONTROL TO ALLOW SELECTION OF LEAD/LAG BOILER. BOILERS SHALL ALTERNATE BETWEEN LEAD AND LAG AUTOMATICALLY ON A WEEKLY BASIS (BY TCC).
5. LEAD BOILER'S ASSOCIATED ISOLATION VALVE SHALL OPEN, AND BOILER SHALL FIRE ON LOW FIRE. BOILER SHALL MODULATE AS REQUIRED TO MAINTAIN LOOP TEMPERATURE. IF LEAD BOILER CAN NOT MAINTAIN LOOP TEMPERATURE, LEAD BOILER SHALL RAMP DOWN TO LOW FIRE, AND ISOLATION VALVE FOR SECOND BOILER SHALL OPEN AND SECOND BOILER SHALL FIRE ON LOW FIRE. BOTH BOILERS SHALL MODULATE TO MAINTAIN LOOP TEMPERATURE. ONCE LOOP IS SATISFIED LAG BOILER SHALL DE-ENERGIZE. AFTER FIVE MINUTES ISOLATION VALVE SHALL CLOSE.
6. PROVIDE LEAD/LAG CONTROL TO ALLOW SELECTION OF LEAD/LAG PUMP. PUMPS SHALL ALTERNATE BETWEEN LEAD AND LAG AUTOMATICALLY ON A WEEKLY BASIS (BY TCC).

DOMESTIC HOT WATER:

1. BASE BID ONLY: ASSOCIATED DOMESTIC INDIRECT WATER HEATER TANK CIRCULATION PUMP HWD-HWS-1 SHALL ENERGIZE TO MAINTAIN INDIRECT HOT WATER STORAGE TANKS WATER TEMPERATURE. WHEN STORAGE TANK SET POINT IS MET, CIRCULATION PUMP SHALL DE-ENERGIZE. DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 SHALL OPERATE AS REQUIRED TO MEET DOMESTIC HOT WATER LOOP SETPOINTS.
2. ALTERNATE HWD-M1 ONLY: ASSOCIATED DOMESTIC GAS-FIRED WATER HEATER SHALL MODULATE TO MAINTAIN HOT WATER TANK WATER TEMPERATURE SETPOINT. DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 SHALL OPERATE AS REQUIRED TO MEET DOMESTIC HOT WATER LOOP SETPOINTS.



BOILER ALARM BAS AND SECURITY INTERFACE DIAGRAM

- I. TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE ALL NECESSARY ITEMS TO ALLOW OWNERS SECURITY SYSTEM TO TIE INTO BOILER ALARM.
2. TEMPERATURE CONTROL CONTRACTOR SHALL HIRE DIRECT OWNERS SECURITY CONTRACTOR TO PROVIDE FINAL INTERLOCK FROM RELAY TO THEIR CONTROL SYSTEM PANEL.
3. SECURITY CONTRACTOR CONTACT IS: NICK WERT AT HABITECH 419-205-1147

ALTERNATE

ALTERNATE HWD-M1: STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:

1. OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND CIRCULATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE CONTROLS..
2. INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.

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TEMPERATURE CONTROLS

M6.01

BOILER REFLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL
1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162

MONROE PUBLIC SCHOOLS

MONROE PUBLIC SCHOOLS

FOR

KOHLER ARCHITECTURE

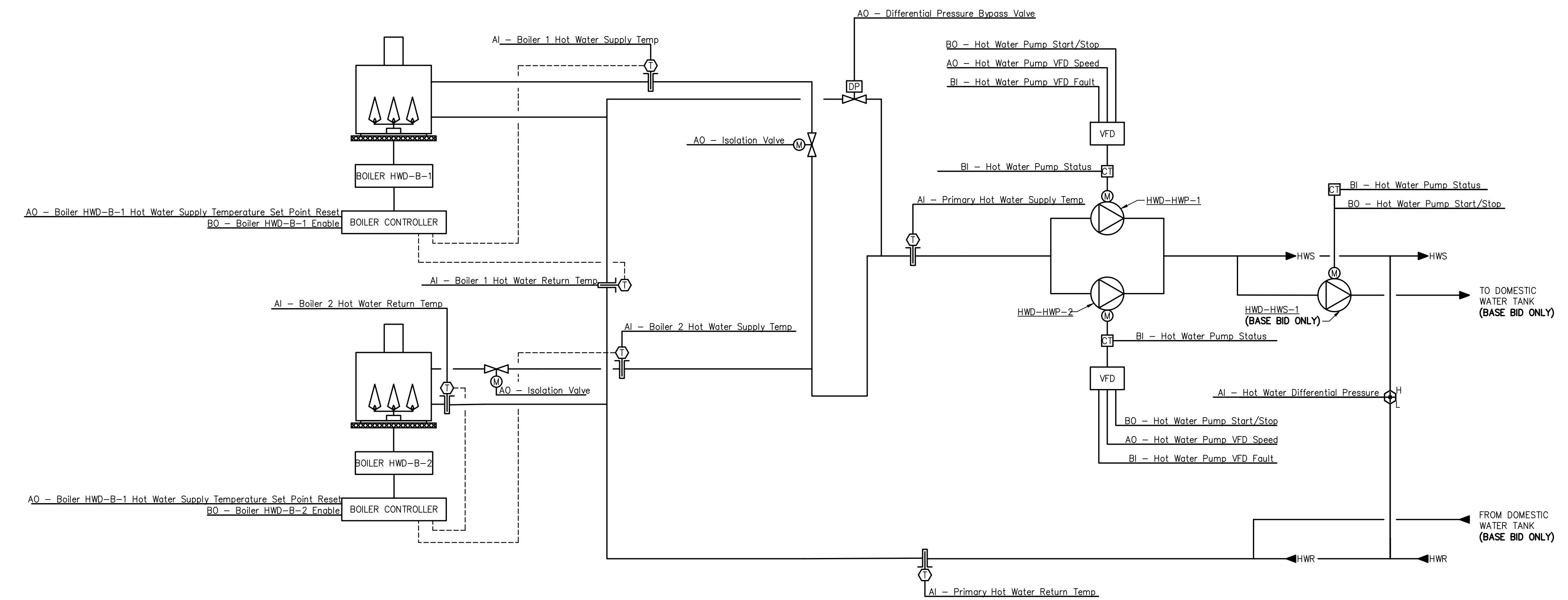
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Perrysburg, OH 43551 | 419.352.7537

A circular seal for the State of Michigan. The outer ring contains the text "STATE OF MICHIGAN" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by a five-pointed star on each side. The inner circle contains "EMILY RENEE SCHWARZKOPF" at the top and "6201063334" at the bottom. The bottom portion of the seal features the signature "Emily R. Schwarzkopf" in cursive script.

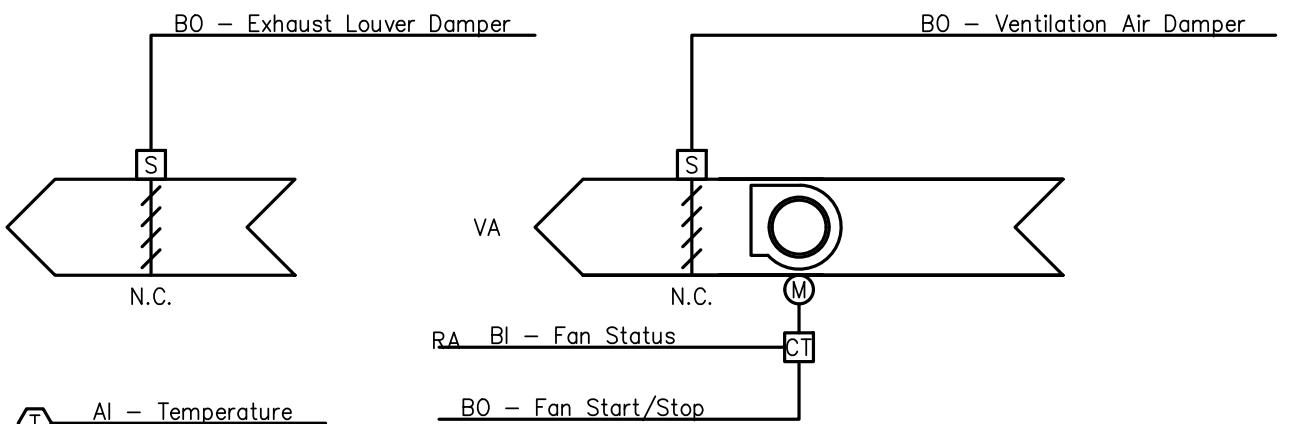
DATE **DESCRIPTION**
2.09.2026 BIDDING & STATE



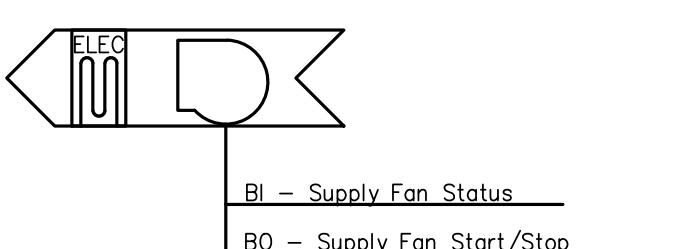
HEATING WATER SYSTEM
 NO SCALE

TEMPERATURE CONTROL SYSTEM POINT LIST									
SYSTEM POINT DESCRIPTION									
UNIT HEATER (HWD-UH-1)	HARDWARE POINTS				SOFTWARE POINTS				
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND
ZONE SETPOINT ADJUST	X								
FAN STATUS			X					X	X
FAN START/STOP				X				X	X
ZONE TEMPERATURE					X			X	X
HEATING SETPOINT				X				X	X
SCHEDULE						X			
LOW ZONE TEMPERATURE								X	X
FAN FAILURE								X	
FAN IN HAND								X	
FAN RUNTIME EXCEEDED								X	

TEMPERATURE CONTROL SYSTEM POINT LIST									
SYSTEM POINT DESCRIPTION									
BOILER ROOM VENTILATION	HARDWARE POINTS				SOFTWARE POINTS				
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND
EXHAUST FAN HWD-SF-1 STATUS			X					X	X
EXHAUST FAN HWD-SF-1 START/STOP				X				X	X
RELISF HOOD HWD-L-1 LOUVER INTAKE DAMPER				X				X	X
EXHAUST FAN HWD-SF-1 DAMPER				X				X	X
COOLING SETPOINT					X			X	X
ZONE TEMPERATURE				X				X	X
HIGH ZONE TEMPERATURE								X	
FAN FAILURE								X	
FAN IN HAND								X	
FAN RUNTIME EXCEEDED								X	



BOILER ROOM VENTILATION (HWD-SF-1 & HWD-L-1 DAMPER)
 NO SCALE



UNIT HEATERS (HWD-UH-1)
 SCALE: NONE

ALTERNATE

ALTERNATE HWD-M1: STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:

1. OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND CIRCULATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE CONTROLS.
2. INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.

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TEMP CONTROLS SCHEMATICS
 M6.02

BOILER REPLACEMENT & RELATED WORK
 HOLLYWOOD ELEMENTARY SCHOOL
 1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162
 MONROE PUBLIC SCHOOLS
 1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

ATT FOR

JOB # 26101

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M6.02

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 02/09/2026
 EMILY RENEE SCHWARZKOPF 6201063334
 REGISTERED PROFESSIONAL ENGINEER
 Emily.R.Schwarzko...@kohlerarchitect.net
 DATE 02.09.2026 DESCRIPTION BIDDING & STATE REVIEW

PLUMBING GENERAL NOTES

PART 1 GENERAL

1.01 PURPOSE
THESE OUTLINE SPECIFICATIONS ARE NOT INTENDED TO COVER ALL NECESSARY ITEMS, BUT TO SERVE AS A GUIDE TO FURNISH AND INSTALL A COMPLETE PLUMBING SYSTEM AS DESCRIBED HEREIN.

1.02 SCOPE OF WORK

FURNISH AND INSTALL THE PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- A. EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF THE PLUMBING SYSTEMS.
- B. CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE PLUMBING SYSTEMS.
- C. REMOVALS AS REQUIRED AND/OR AS INDICATED.
- D. DRAINAGE SYSTEM INCLUDING PIPING TO ALL FIXTURES, EQUIPMENT, VALVES, WATER HEATER, CIRCULATING PUMPS, ETC.
- E. INSULATION FOR PIPING.
- F. SANITARY WASTE AND VENT PIPING SYSTEM INCLUDING PIPING TO ALL FIXTURES AS EQUIPMENT AS INDICATED.
- G. FIRE STOP INCLUDING SLEEVES THRU RATED WALLS AND FLOORS.
- H. ALL PLUMBING FITTINGS, HANGERS, SLEEVES, ESCUTCHEON PLATES, ANCHORS, GUIDES, ETC., REQUIRED FOR THE PLUMBING SYSTEM INSTALLATION.
- I. CHLORINATION, TESTING, ADJUSTMENT AND CLEANING OF ALL SYSTEMS AND EQUIPMENT.
- J. TEST THE SANITARY PIPING SYSTEM HYDROSTATICALLY AFTER INSTALLATION TO 10 FT. OF HEAD (4.3 PSI MAXIMUM). TESTING WITH COMPRESSED AIR OR GAS MAY RESULT IN INJURY OR DEATH.
- K. INSTRUCTION OF OWNERS' PERSONNEL AND OPERATING MANUALS FOR ALL EQUIPMENT.
- L. PERMITS, APPLICATIONS, TESTS AND ANY OTHER FEES RELATED TO THIS WORK.

1.03 CONTRACT DRAWINGS

IN GENERAL, THE SPECIFIC SCHEMATIC IN NATURE AND ARE INTENDED AS GUIDE TO THE CONTRACTOR, BUT DO NOT NECESSARILY SHOW ALL DETAILS, OFFSETS, ETC. ALL DRAWINGS ARE TO BE THOROUGHLY INSPECTED. THE CONTRACTOR'S WORK SHALL CONFORM TO THE INFORMATION CONTAINED IN THIS SPECIFICATION AND/OR AS INDICATED IN THE LATEST REVISION OF THE DRAWINGS REFERRED TO THEREIN. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER REGARDING ALL QUESTIONS ON WHICH HE MAY BE IN DOUBT BEFORE PROCEEDING WITH FABRICATION OF ITEMS AFFECTED. THE CONTRACTOR SHALL PREPARE ALL ADDITIONAL DETAIL FIVE (5) INSTALLATION DRAWINGS NECESSARY AT HIS OWN EXPENSE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS INDICATED ON THE ENGINEER'S LAYOUT DRAWINGS AND DETERMINE IF ANY CHANGES ARE REQUIRED IN PIPING RUNS, DRAINS, ETC., TO AVOID INTERFERENCE. MAJOR CHANGES SHALL NOT BE MADE WITHOUT THE APPROVAL OF THE ENGINEER. WHILE THE DRAWINGS ARE TO BE ADHERE TO AS CLOSELY AS POSSIBLE, THE CONTRACTOR HAS THE RIGHT TO VARY THE RUNS, DRAINS, PIPING AND/OR DUCTS DURING PROCESS OF THE WORK AS MAY BE FOUND NECESSARY OR DESIRABLE TO AVOID INTERFERENCES. MAJOR REVISIONS SHALL BE VERIFIED WITH THE ENGINEER.

1.04 VERIFICATION

BEFORE PLACING ANY PIPING, ETC., WITHIN THE BUILDING, THIS CONTRACTOR SHALL ASSURE HIMSELF THAT THEY CAN BE INSTALLED AS CONTEMPLATED WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC. ANY NECESSARY MAJOR DEVIATION SHALL BE REFERRED TO THE ENGINEER FOR ADJUSTMENT BEFORE LINES ARE RUN, AT NO INCREASE IN CONTRACT PRICE. OF NECESSITY,

OPENINGS, SUPPORTING STEEL, FIELD-BUILT CURBS, SPACE REQUIREMENTS, ETC., WERE DESIGNED AROUND SPECIFIC PARAMETERS. WHEN THE CONTRACTOR DETERMINES THE MAKE OF EQUIPMENT TO BE PROVIDED FOR THE PROJECT, HE SHALL BE RESPONSIBLE TO VERTY AND COORDINATE UNIT DIMENSIONS WITH THE GENERAL CONTRACTOR AND ALL OTHER INTERESTED CONTRACTORS ON THE JOB. IT SHALL ALSO BECOME THE CONTRACTOR'S RESPONSIBILITY TO CHANGE AS NECESSARY, THROUGH THE ENGINEER, ALL REQUIRED DIMENSIONS SO THAT OPENINGS, SUPPORTING STEEL, CURBS, ELECTRICAL DATA, ETC., WILL FIT THE EQUIPMENT SUPPLIED. ANY ADDITIONAL COST WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL ELECTRICAL POWER, INTERLOCK AND CONTROL DIAGRAMS AND SPECIFICATIONS WERE DESIGNED AROUND ONE SPECIFIC MANUFACTURER. IF ADDITIONAL WIRING, PIPING CONTROLS, ETC., IS REQUIRED FOR OTHER EQUIPMENT, THIS CONTRACTOR SHALL INCLUDE THE COST OF THE SAME IN HIS PRICE. DIMENSIONS, ELEVATIONS AND RELATIVE LOCATIONS OF EXISTING EQUIPMENT, SEWERS, DRAINS, DUCTS, CONDUITS, ETC., ARE TO PLACE AS SHOWN ON THE DRAWINGS. TAKES FROM AS-BUILT PLANS AND RECORD DRAWINGS AND ARE DEEMED RELIABLE ONLY INsofar AS GENERAL LAYOUT IS CONCERNED. SUCH DIMENSIONS SHALL NOT BE USED FOR LAYOUT DRAWINGS OR DETAILED OF COMPONENTS. THE RESPONSIBILITY FOR CHECKING IN PLACE ITEMS WILL BE THE CONTRACTOR. ALL MEASUREMENTS, AS EXACT DETERMINATION OF RELATIVE ELEVATIONS OR LOCATIONS, AS WELL AS THE ACCURACY OF THE DRAWN ELEVATIONS AND DIMENSIONS AND THE OBTAINMENT OF ALL NECESSARY ADDITIONAL INFORMATION TO INSURE THE PROPER FIT AND COORDINATION OF ALL CONDUIT EQUIPMENT, DUCTS, AND PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1.05 CONNECTIONS TO EXISTING WORK

PLAN THE INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH THE REGULAR OPERATION OF THE EXISTING FACILITIES. SUBMIT TO THE ARCHITECT FOR HIS APPROVAL, A PROGRESS SCHEDULE INDICATING ALL NECESSARY TEMPORARY SHUTDOWNS OF EXISTING SERVICES. ALL SHUTDOWNS SHALL BE MADE AT SUCH TIMES AS WILL NOT INTERFERE WITH REGULAR OPERATION OF THE EXISTING FACILITIES AND ONLY AFTER WRITTEN REVIEW FROM THE ARCHITECT.

1.06 NEW WORK

UNLESS OTHERWISE NOTED, ALL WORK INDICATED THROUGHOUT THESE DRAWINGS SHALL BE CONSIDERED TO BE NEW WORK AND SHALL BE INCLUDED AS AN INTEGRAL PART OF THIS CONTRACT.

1.07 REFERENCED STANDARDS

2021 MICHIGAN PLUMBING CODE
2021 MICHIGAN BUILDING CODE
2021 MICHIGAN ENERGY CODE

1.08 ALTERNATES

- A. REQUIREMENTS:
 1. SUBMIT ALTERNATE WITH A FULL DESCRIPTION OF THE PROPOSED ALTERNATE AND THE EFFECT ON ADJACENT OR RELATED COMPONENTS.
 2. ALTERNATE QUOTED ON BID FORMS WILL BE REVIEWED AND ACCEPTED AT THE OWNER'S OPTION. ACCEPTED ALTERNATE WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
 3. COORDINATE AND MODIFY AS NECESSARY RELATED WORK IN ORDER TO INTEGRATE THE WORK OF EACH ALTERNATE.
- B. ALTERNATE HWD-P-1:
 1. STATE THE AMOUNT TO BE ADDED TO THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF GAS-FIRED DOMESTIC WATER HEATER HWD-DWH-1, IN LIEU OF INTEGRAL DOMESTIC WATER HEATER HWD-IWH-1. REFER TO DETAILS 'A' AND 'B' ON THIS SHEET FOR COMPLETE SCOPE AND ADDITIONAL INFORMATION.

PART 2 EXECUTION

- A. ALL EQUIPMENT INSTALLATION PROCEDURES SHALL BE BASED ON FUNDAMENTAL ENGINEERING AND CONSTRUCTION PRINCIPLES IN CONFORMANCE WITH ALL APPLICABLE CODES, STANDARDS AND ORDINANCES.
- B. THE PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING EQUIPMENT IN CONFORMANCE WITH MANUFACTURER ISSUED INSTRUCTIONS AND RECOMMENDATIONS.
- C. THE PLUMBING CONTRACTOR SHALL NOT KNOWINGLY INSTALL WORK THAT IS NOT IN CONFORMANCE WITH THE CONTRACT.
- D. PROVIDE TWO (2) YEAR WARRANTY ON ALL LABOR AND MATERIALS UNLESS NOTED OTHERWISE.
- E. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES REQUIRED FOR HIS WORK.
- F. THE PLUMBING CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF HIS COMPLETED WORK.
- G. THE CONTRACTOR AGREED IN THESE CONTRACT DOCUMENTS HAVE THE INTENT OF PROVIDING ENERGY-EFFICIENT, SAFETY AND COMFORT FOR THE PROPOSED FACILITY.
- H. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES ON THE PROJECT.
- I. COORDINATE ALL PIPING TO AVOID REQUIRED OVERHEAD CLEARANCES. USE APPROPRIATE CONSTRUCTION PANELS AND EQUIPMENT.
- J. ALL MATERIALS AND EQUIPMENT INSTALLED SHALL FULLY COMPLY WITH THE SAFE DRINKING WATER ACT OF 1974, INCLUDING PUBLIC LAW 111-380, COMMONLY REFERRED TO AS THE "NO LEAD LAW".
- K. PROCEDURES FOR FLUSHING AND DISINFECTION
 1. PROCEDURES SHALL MEET THE REQUIREMENTS OF AWWA C651 AND C652 AS WELL AS ALL APPLICABLE LOCAL REGULATIONS.
 2. DISINFECTION AND FLUSHING SHALL BE COMPLETED WITHIN THREE WEEKS PRIOR TO WHOLE OR PARTIAL BENEFICIAL OCCUPANCY. IF BENEFICIAL OCCUPANCY OF ANY PART OF THE BUILDING IS DELAYED MORE THAN TWO WEEKS BUT LESS THAN FOUR WEEKS AFTER DISINFECTION, FLUSHING OF ALL FIXTURES SHALL AGAIN BE COMPLETED. IF BENEFICIAL OCCUPANCY OF THE PART OF THE BUILDING IS DELAYED FOUR WEEKS OR MORE AFTER DISINFECTION, THE NEED FOR DISINFECTION AND FLUSHING SHALL BE DETERMINED BY A RISK ASSESSMENT CONDUCTED BY THE WATER PROGRAM TEAM / OWNER.
 3. CONFIRMATION THAT THE BUILDING WATER SYSTEM PERFORMANCE MEETS DESIGN PERFORMANCE PARAMETERS INDICATED IN THE CONTRACT DOCUMENTS.
- L. PIPING SHALL BE SUPPORTED AT THE FOLLOWING MAXIMUM INTERVAL SPACING:

MATERIAL	HORIZ. (FT.)	VERT. (FT.)
CAST IRON	5	15
CAST IRON (10 FT. LENGTHS)	10	15
COPPER PIPE	12	10
PVC	4	10
STEEL	12	15

PLUMBING FIXTURE SCHEDULE

DESCRIPTION	SYMBOL	CW	HW	WASTE	VENT	SPECIFICATIONS
FLOOR DRAIN	FD-1	---	---	4"	---	ZURN #Z550, COATED CAST IRON BODY, BOTTOM OUTLET, 9" MEDIUM DUTY, DURA-COATED CAST IRON SLOTTED GRATE. PROVIDE ZURN #Z1072 BARRIER TYPE TRAP SEALING DEVICE.
FLOOR DRAIN STRAINER ONLY	FD-2	---	---	---	---	REPLACE EXISTING FLOOR DRAIN STRAINER WITH DURA-COATED CAST IRON SLOTTED GRATE.

PLUMBING LEGEND

DOMESTIC COLD WATER PIPING (CW)
EXISTING DOMESTIC COLD WATER PIPING
DOMESTIC HOT WATER PIPING (HW)
EXISTING DOMESTIC HOT WATER PIPING
DOMESTIC HOT WATER RETURN PIPING (HWR)
EXISTING DOMESTIC HOT WATER RETURN PIPING
SANITARY VENT PIPING
EXISTING SANITARY VENT PIPING
SANITARY PIPING BELOW FLOOR
SANITARY PIPING ABOVE FLOOR
CONDENSATE DRAIN
EXISTING CONDENSATE DRAIN
FLOW DIRECTION
PIPING DEMOLITION
FLOOR CLEANOUT
CLEANOUT TO GRADE
WALL CLEANOUT
ABOVE FINISHED FLOOR
FINISHED FLOOR ELEVATION
INVERT ELEVATION
P.L.C.
PLUMBING CONTRACTOR
GENERAL CONTRACTOR
CONNECTION OF NEW TO EXISTING
UNION
SHUTOFF VALVE
CHECK VALVE
3-WAY MIXING VALVE
PIPING ELBOW DOWN
PIPING ELBOW UP
PIPING TEE DOWN
PIPING TEE UP

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Hollywood Elementary School
Location: Monroe, Michigan
Climate Zone: Sa
Project Type: Alteration

Construction Site: 1135 Riverview Avenue

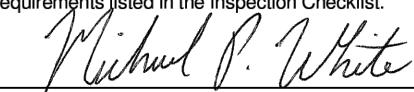
Owner/Agent: Michael White
Designer/Contractor: Kleinfelder, Inc.
Monroe, Michigan 48161
(734) 242-6880
mwhite@kleinfelder.com

Mechanical Systems List

Quantity	Component	Description
Water Heaters		
1	Domestic Water Heater HWD-DWH-1	Gas Storage Water Heater, Capacity: 90 gallons, Input Rating: 150 kBtu/h w/ Circulation Pump Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Michael P. White - Plumbing Designer  02/05/2026

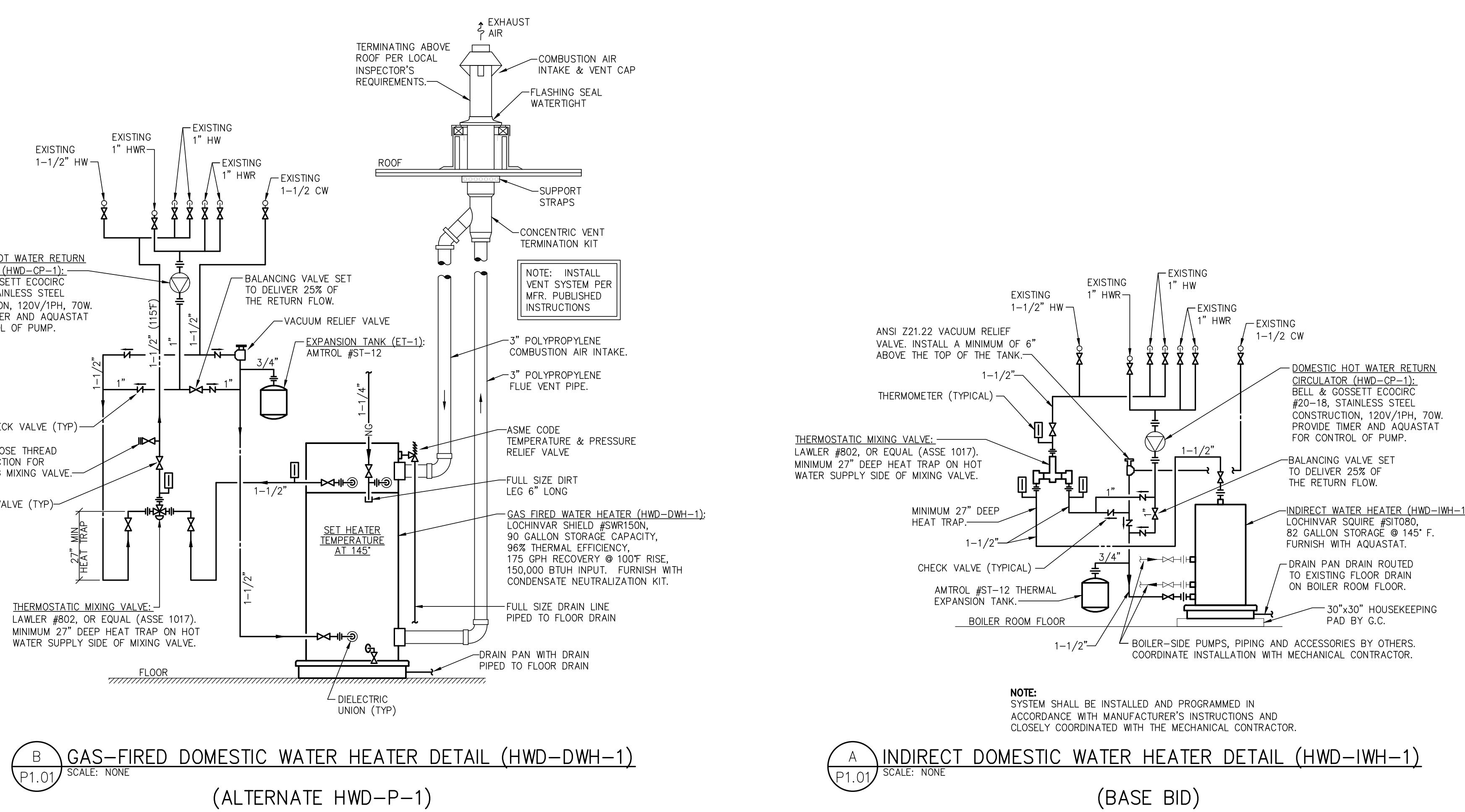
Name - Title Signature Date

BOILER REPLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL
1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162
MONROE PUBLIC SCHOOLS
1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

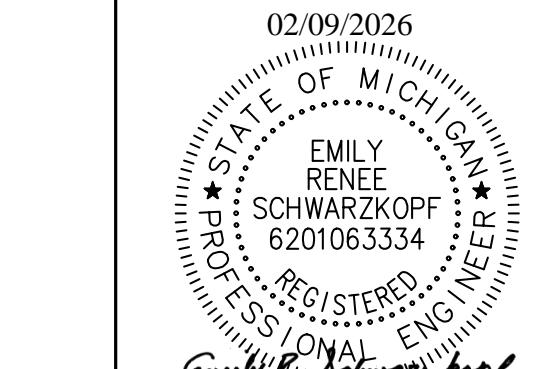
JOB # 26101

PLUMBING SPECIFICATIONS AND DETAILS
P1.01



PLUMBING DRAWING LIST			
DWG NO.	TITLE	FILE NO.	
P1.01	PLUMBING SPECIFICATIONS AND DETAILS	26003132P1.01.dwg	
P2.01	PLUMBING PLANS	26003132P2.01.dwg	

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02/09/2026
EMILY RENEE SCHWARZKOPF
REGISTERED PROFESSIONAL ENGINEER
Emily.R.Schwarzkopf

DATE 02.09.2026 DESCRIPTION BIDDING & STATE REVIEW

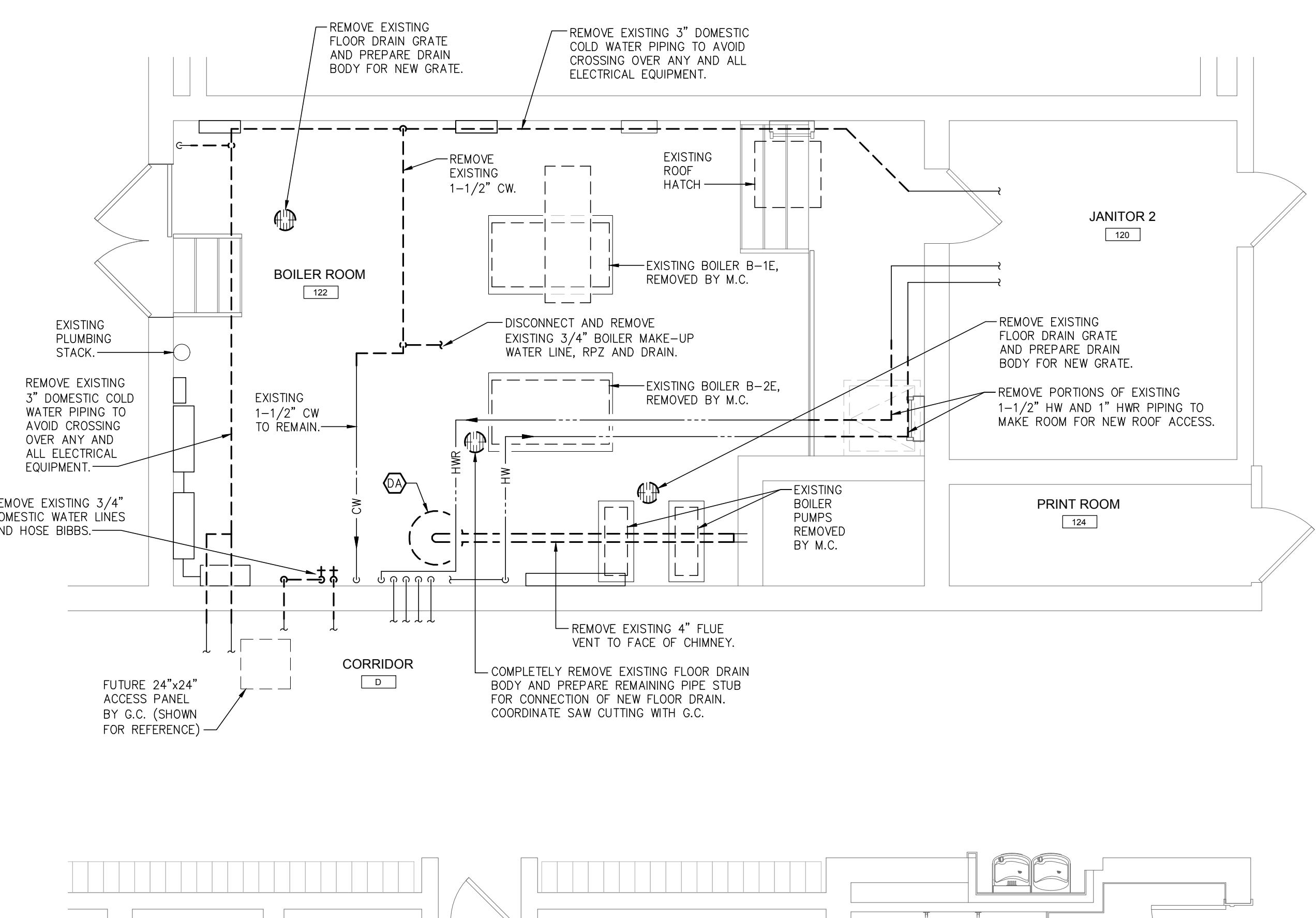
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PLUMBING PLANS

P2.01

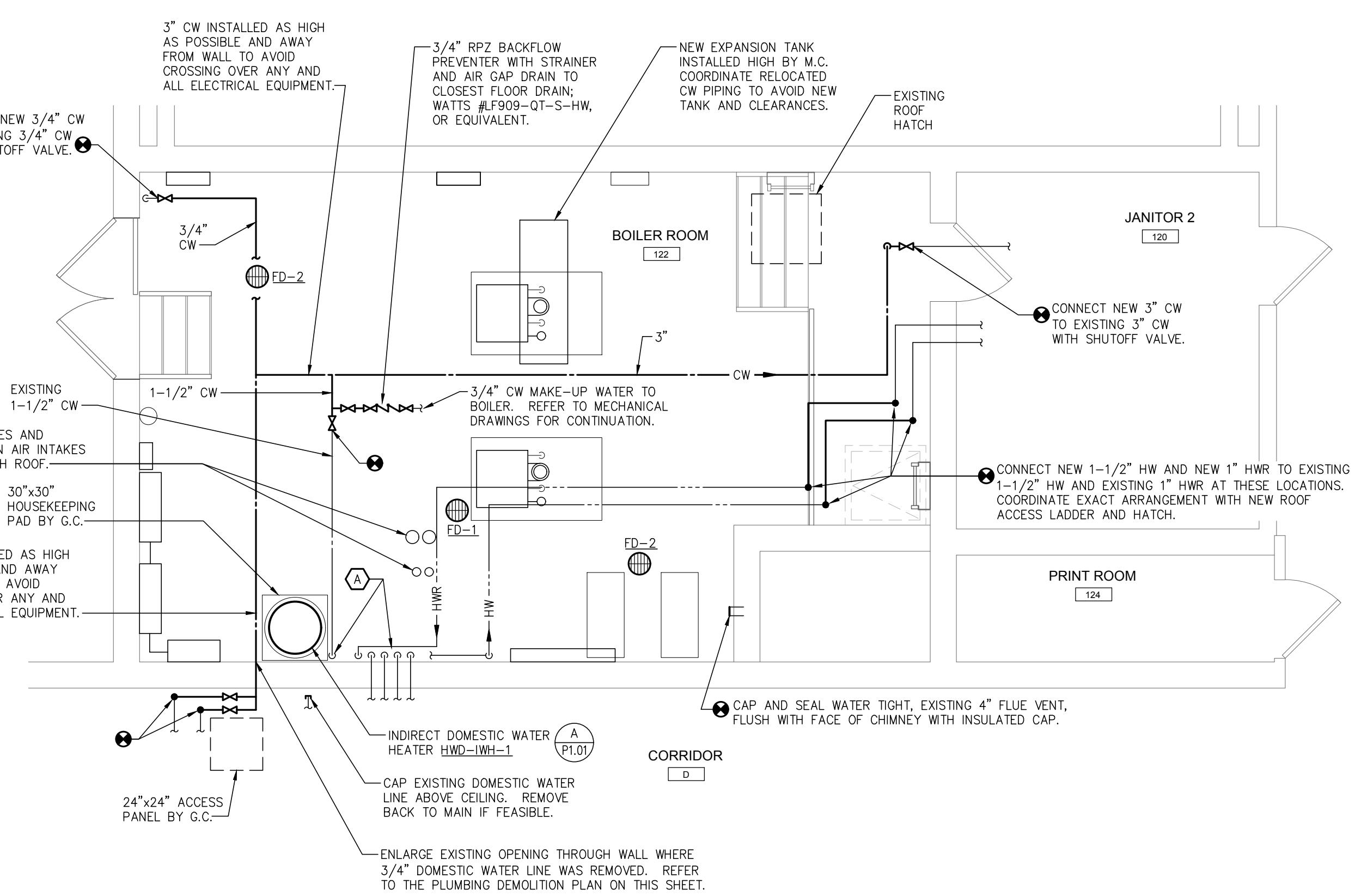


PLUMBING DEMOLITION PLAN

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

DEMOLITION PLAN NOTES:

DISCONNECT AND REMOVE EXISTING GAS-FIRED, ATMOSPHERICALLY VENTED WATER HEATER.

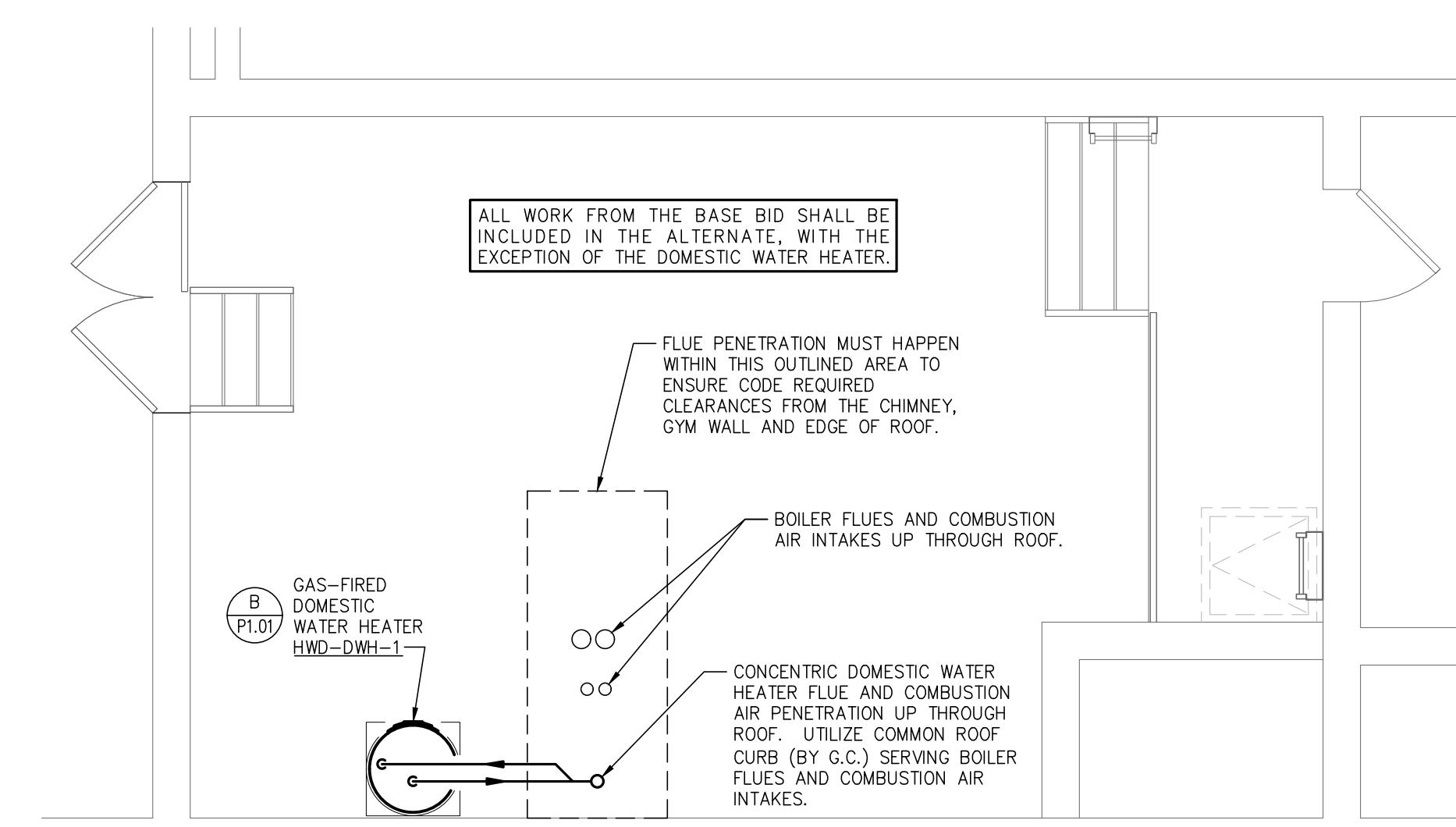


PLUMBING NEW WORK PLAN (BASE BID)

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

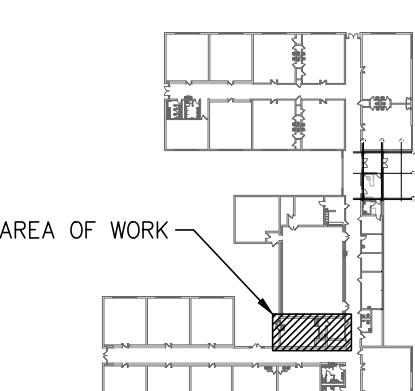
NEW WORK PLAN NOTES:

RECONNECT CW, HW AND HWR PIPING PER DETAIL 'A' ON THIS SHEET.



PLUMBING NEW WORK PLAN (ALTERNATE HWD-P-1)

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



KEY PLAN

NO SCALE

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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
 Project Title: BOILER REPLACEMENT - HOLLYWOOD ELEM.
 Project Type: Alteration

Construction Site: 1135 RIVERVIEW AVE.
 Monroe, Michigan 48152
 Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Common Space Types:Electrical/Mechanical	527	0.43	227
Total Allowed Watts =			227
Proposed Interior Lighting Power			
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)
Common Space Types: Electrical/Mechanical (527 sq.ft.) LED: TYPE 'A': 4FT. STRIP FIXTURE: Other:	1	6	28 168
Total Proposed Watts =			168

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Nicolas Bruno - Electrical Designer *Nicolas Bruno* 02/04/2026

Name - Title Signature Date

Project Title: BOILER REPLACEMENT - HOLLYWOOD ELEM. Report date: 02/04/26
 Data filename: Page 1 of 5

Fixture Schedule						
MARK	LAMP CATEGORY	LAMP QTY/TYPE	VOLTS	DESCRIPTION	MFR. AND CATALOG SERIES	VA
A	LED	28W 4,014 LUMENS 4000K	120	4' LED STRIP, CHAIN MOUNTED, ROUND SEMI-FROSTED LENS, WHITE STEEL HOUSING, ELECTRIC DRIVER, 0-10V DIMMING. E.C. SHALL CHAIN MOUNT AT A MINIMUM OF 8'-0". A.F.F..	COOPER #4SNLED-LD5-40SL-LN-UNV-L840-C0-1-AYC-CHAIN/SET REV OR APPROVED EQUAL BY LITHONIA, CREE, ETC.	35
DA	FLUOR.	2-40W-R5	120	DISCONNECT AND REMOVE EXISTING 4' SUSPENDED STRIP FIXTURE AND BALLAST. EXISTING BRANCH CIRCUITS SHALL BE REMOVED BACK TO SOURCE.		100
E	LED	INCLUDED	120	COMBINATION EXIT/ESCAPE LIGHT, WALL OR CEILING MOUNTED, SINGLE OR DOUBLE FACE AS REQUIRED, 6-INCH GREEN LETTERS IN WHITE STENCIL FACE, POLYCARBONATE HOUSING, ARROWS AS SHOWN, WITH TWO HI-INTENSITY ADJUSTABLE FLOOD LIGHT HEADS, UNIVERSAL MOUNTING CANOPY WITH BUILT-IN 90 MINUTE EXTRA CAPACITY BATTERY BACKUP AND OUTDOOR WEATHER PROOF REMOTE FLUOLIGHT HEAD WHERE SHOWN ON PLAN. M.H. 8'0" UNO	LITHONIA #LHM LED-G-HO-M6-REV REMOTE HEAD ERE-W-T-SD-SQ-M12 OR APPROVED EQUAL BY PHILLIPS, CREE, ETC.	10
EM	LED	2-5.3W INCLUDED	120	EMERGENCY EGRESS LIGHT, THERMOPLASTIC HOUSING, WHITE FINISH, LITHIUM IRON PHOSPHATE BATTERY, 90 MIN. BATTERY BACK-UP, M.H. 8'0" UNO	LITHONIA #ELMRE-SP1100L-T-REV OR APPROVED EQUAL BY PHILLIPS, CREE, ETC.	10

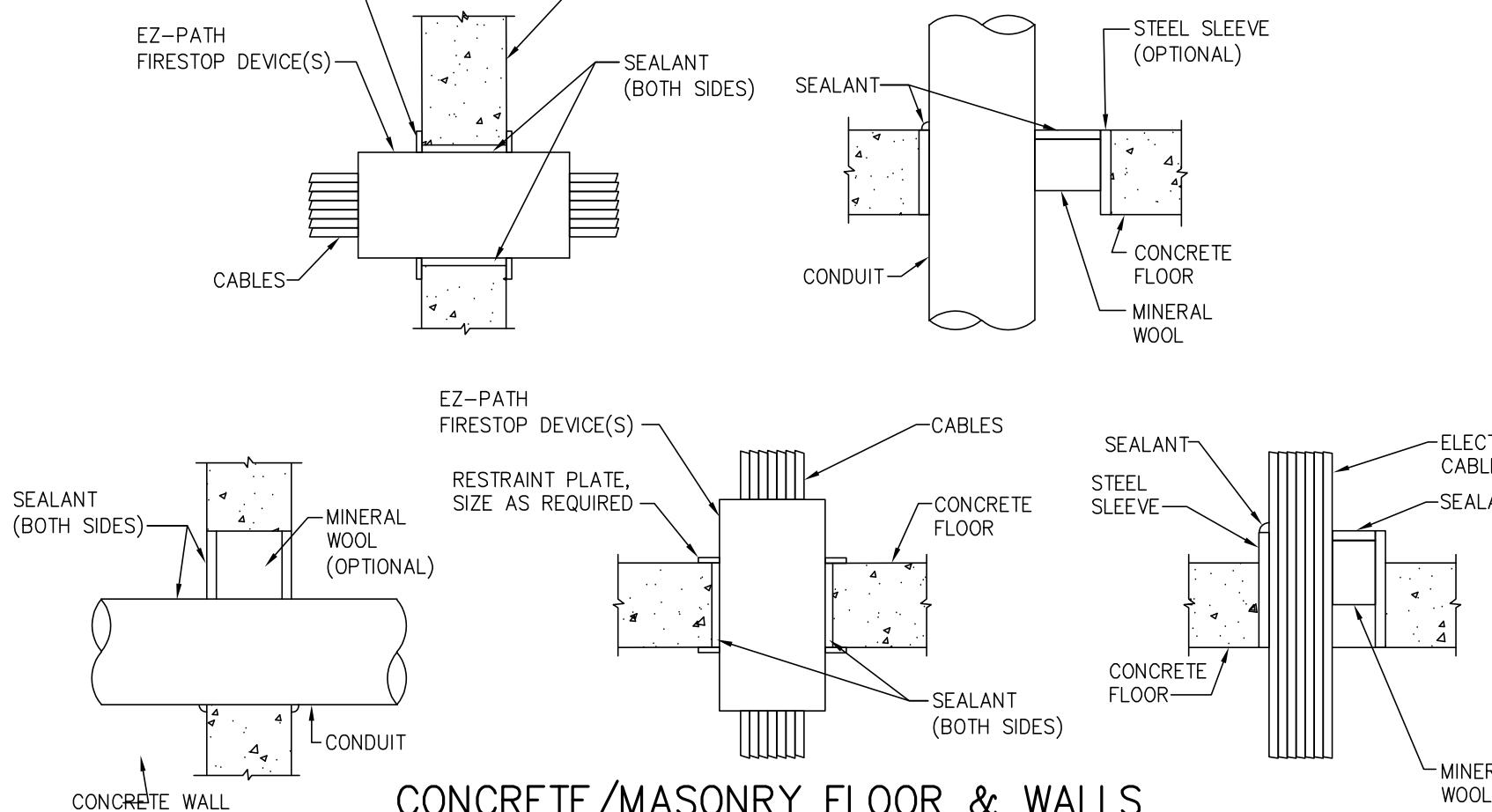
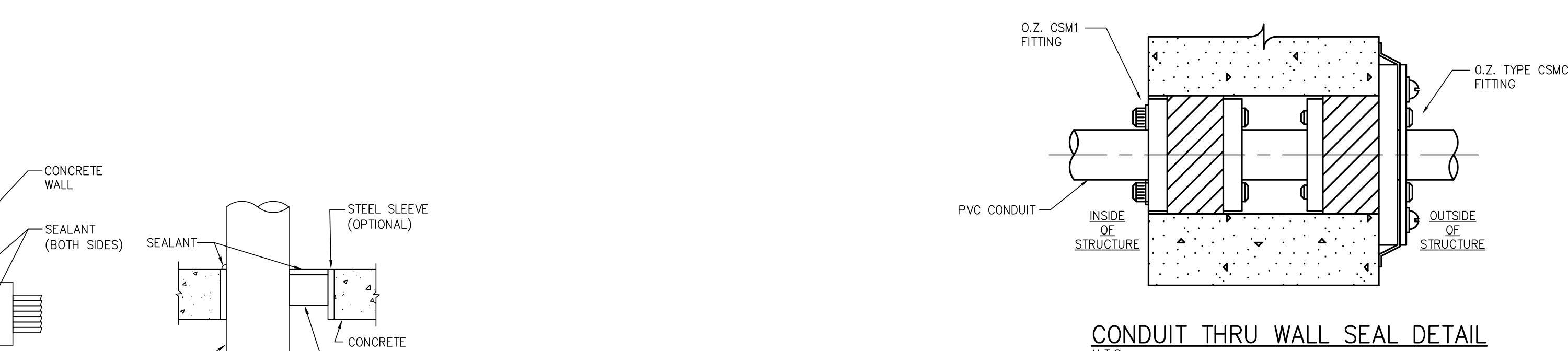
PROJECT COORDINATION SCOPE:

1. FULL COORDINATION BETWEEN ALL TRADES IS REQUIRED TO ENSURE UNINTERRUPTED SYSTEM OPERATION AND CODE COMPLIANCE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FIRE ALARM, SECURITY, AND LOW-VOLTAGE SYSTEM INTERFACES AND SHALL CONTACT AND HIRE THE FOLLOWING VENDORS FOR ALL SYSTEM TIE-INS, TESTING, PROGRAMMING, AND COORDINATION.
2. GENERAL TRADES SHALL BE RESPONSIBLE FOR ALL PATCHING, REPAIR, AND RESTORATION OF WALLS, CEILINGS, FLOORS, AND FINISHES IMPACTED BY THE BOILER PROJECT. THIS INCLUDES CUTTING, PATCHING, PAINTING, AND SURFACE RESTORATION NECESSARY TO RETURN AFFECTED AREAS TO EXISTING CONDITIONS. GENERAL TRADES SHALL ALSO PROVIDE CEILING ACCESS POINTS AND ANY OTHER MISCELLANEOUS CONSTRUCTION ITEMS REQUIRED TO SUPPORT THE WORK.
3. START UP TESTS, INITIAL SYSTEM PROGRAMMING AND DATA BASE ENTRIES SHALL BE PROVIDED BY RED LETTER & HABITEC SECURITY THROUGH THE ELECTRICAL CONTRACTOR. ALL FUNCTIONS SHALL BE DEMONSTRATED TO THE SATISFACTION OF THE OWNER'S DESIGNATED SYSTEM ADMINISTRATOR. AT PROJECT COMPLETION, RED LETTER & HABITEC SECURITY SHALL PROVIDE A LETTER INDICATING THAT ALL PARTS AND FUNCTIONS ARE OPERATING PROPERLY, TURN OVER TO OWNER ALL SOFTWARE LICENSING, PROVIDE RECOMMENDED MAINTENANCE AND INSPECTION SCHEDULES FOR EACH YEAR OF OPERATION, AND PROVIDE WRITTEN WARRANTY FOR EQUIPMENT AND SYSTEM FUNCTIONALITY FOR A PERIOD OF TWO YEARS. DOOR ACCESS SYSTEM TRAINING FOR THE OWNER SHALL BE PROVIDED.
4. CONTACT INFORMATION: CONTACT AND HIRE RED LETTER (888) 564-5488. CONTACT AND HIRE HABITEC SECURITY, NICK WERT (419) 205-1147.

ACCESS CONTROLS SYSTEM SCOPE:

REFERENCE LEGEND FOR MORE INFORMATION TO ACCOMMODATE THE INSTALLATION OF NEW COMPONENTS TO CONNECT TO EXISTING SYSTEMS WITHOUT DISRUPTING THE NEW BUILDING FINISHES. COORDINATE THE EXACT LOCATION OF ITEMS WITH THE OWNER PRIOR TO ROUGH-IN. COMPONENTS SHALL MATCH EXISTING MANUFACTURER.

1. ELECTRICAL CONTRACTOR: COORDINATE WITH OWNER'S ACCESS CONTROLS CONTRACTOR (RED LETTER) AND OWNER'S SECURITY CONTRACTOR (HABITEC SECURITY) BEFORE DISCONNECTION OF EXISTING ITEMS NOTED ON PLANS, BOXES, CONDUITS, SURFACE MOUNTED RACEWAY, INSTALL POWER SUPPLIES/ACCESS CONTROLLER, ACCESS HARDWARE, A.D.A. HARDWARE, AND CONNECT TO 120V POWER. **ELECTRICAL CONTRACTOR TO HIRE RED LETTER** TO FURNISH AND INSTALL CARD READERS, FURNISH POWER SUPPLIES/ACCESS CONTROLLER, LOW-VOLTAGE ACCESS CABLEING TO ALL ITEMS, CONNECTION TO EXISTING ACCESS CONTROL SYSTEMS AND FIRE ALARM PANEL OUTPUT FOR AUTOMATIC DOOR UNLOCK CONTROL TO DEDICATED DOORS, AND TESTING/PROGRAMMING. **ELECTRICAL CONTRACTOR TO HIRE HABITEC SECURITY** FOR TIE-IN WITH THE EXISTING INTRUSION SYSTEM AND COORDINATION ON CONNECTION TO EXISTING ACCESS CONTROL SYSTEMS AND TESTING/PROGRAMMING.
2. GENERAL TRADES: RESPONSIBLE FOR DOORS/FRAMES, FURNISH DOOR/ACCESS HARDWARE, A.D.A. HARDWARE, CEILING ACCESS POINTS, CONSTRUCTION ITEMS, ETC. AND COORDINATION WITH RED LETTER FOR A.D.A. OPERATOR FUNCTION SETTINGS.
3. START UP TESTS, INITIAL SYSTEM PROGRAMMING AND DATA BASE ENTRIES SHALL BE PROVIDED BY RED LETTER & HABITEC SECURITY THROUGH THE ELECTRICAL CONTRACTOR. ALL FUNCTIONS SHALL BE DEMONSTRATED TO THE SATISFACTION OF THE OWNER'S DESIGNATED SYSTEM ADMINISTRATOR. AT PROJECT COMPLETION, RED LETTER & HABITEC SECURITY SHALL PROVIDE A LETTER INDICATING THAT ALL PARTS AND FUNCTIONS ARE OPERATING PROPERLY, TURN OVER TO OWNER ALL SOFTWARE LICENSING, PROVIDE RECOMMENDED MAINTENANCE AND INSPECTION SCHEDULES FOR EACH YEAR OF OPERATION, AND PROVIDE WRITTEN WARRANTY FOR EQUIPMENT AND SYSTEM FUNCTIONALITY FOR A PERIOD OF TWO YEARS. DOOR ACCESS SYSTEM TRAINING FOR THE OWNER SHALL BE PROVIDED.
4. CONTACT INFORMATION: CONTACT AND HIRE RED LETTER (888) 564-5488. CONTACT AND HIRE HABITEC SECURITY, NICK WERT (419) 205-1147.



GENERAL NOTES

- 1 CABLE AND CONDUIT PENETRATION DETAILS ARE BASED ON A U.L. LISTED FIRE RATED ASSEMBLY (MINIMUM) UTILIZING STI FIRE STOP PRODUCTS. MANUFACTURERS SHALL BE STI, HILTI, 3M OR APPROVED EQUAL. REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION DETAILS FOR EXACT INSTALLATION METHODS.
- 2 PACKING AND SEALANT DEPTHS SHALL BE PER MANUFACTURER'S SPECIFICATIONS FOR U.L. ASSEMBLY RATING COMPLIANCE.
- 3 ALL FIRE STOP LOCATIONS SHALL BE LABELED AT POINT OF PENETRATION. LABEL SHALL IDENTIFY FIRE STOPPING MATERIAL, U.L. LISTING NUMBER AND HOUR RATING OF WALL/FLOOR.

Digitally signed by Nicole L. Winhoven-Kamm
 DN: C=US, E=nkamm@kleinfelder.com, O=Kleinfelder, OU=Kleinfelder, CN=Nicole L. Winhoven-Kamm
 Date: 2026.02.05 11:29:45-05'00'

ELECTRICAL DRAWING LIST		
DWG NO.	TITLE	FILE NO.
E1.01	ELECTRICAL FIXTURE SCHEDULE, DETAILS AND CODE COMPLIANCE	26003132E1.01.dwg
E1.02	ELECTRICAL LEGEND AND SINGLE-LINE	26003132E1.02.dwg
E1.03	ELECTRICAL PANEL SCHEDULES	26003132E1.03.dwg
E3.01	BOILER ROOM LIGHTING AND POWER PLANS	26003132E3.01.dwg

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JOB # 26101

ELECTRICAL FIXTURE SCHEDULE, DETAILS AND CODE COMPLIANCE

E1.01

AT

FOR

BOILER REPLACEMENT & RELATED WORK

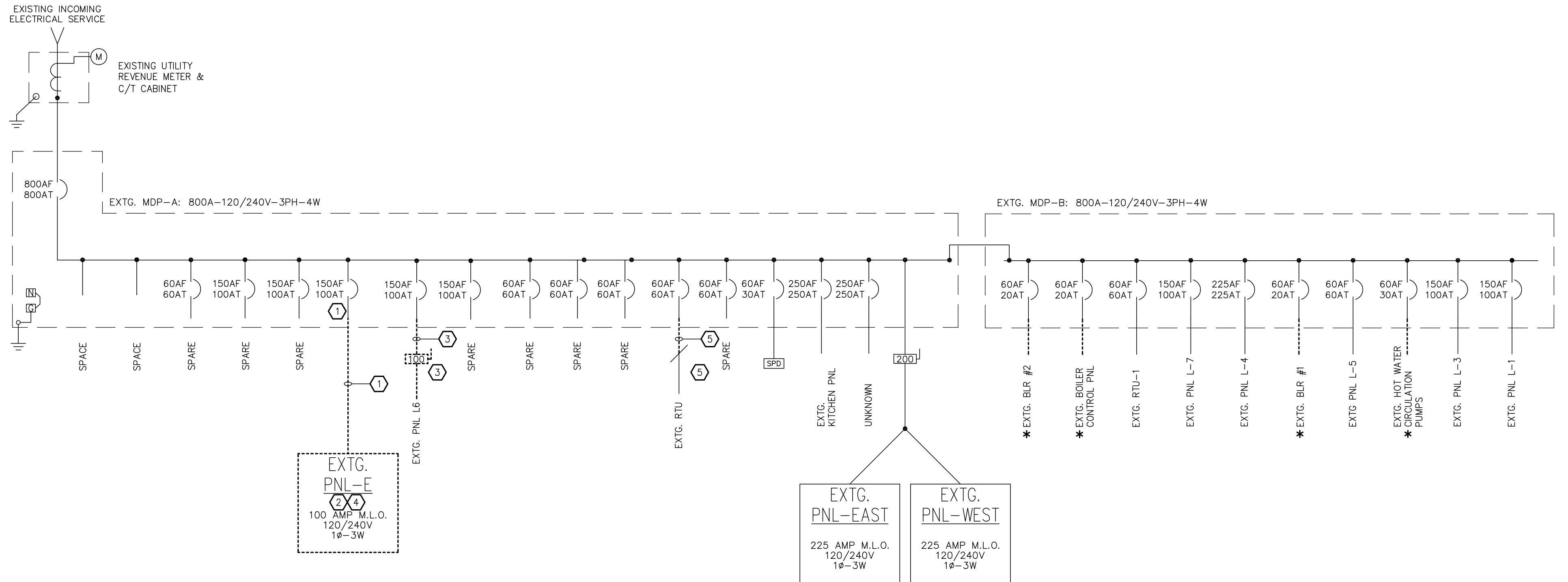
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02/05/2026
 STATE OF MICHIGAN
 Nicole L. Winhoven-Kamm
 License No. 6201315796
 AND PROFESSIONAL ENGINEER
 DATE 02.09.2026
 DESCRIPTION BIDDING & STATE REVIEW



"EXTG. 800A SERVICE" LOAD SUMMARY			
LOAD TYPE	CONNECTED VA	DEMAND FACTOR	DEMAND VA
EXISTING LOAD **	NEC 220.87	54167	125.00% 67709
REMOVED LOADS		-8730	100% -8730
HVAC EQUIPMENT	NEC 220.60	18339	100% 18339
DEDICATED LOADS	NEC 220.14A	456	100% 456
LIGHTING LOAD	NEC 230.42	240	100% 240
TOTAL LOAD IN VA		64472	78014
TOTAL AMPS @ 240VOLT-3PHASE		155	188

** EXISTING LOAD CONSIST OF HIGHEST ELECTRICAL DEMAND RECORDED IN FEBRUARY 2025 PLUS NEC 220.87 OF 125%.

BRANCH CIRCUIT CONDUCTOR SIZING CHART		
MAX. CIRCUIT LENGTH TO FARDEST OUTLET	CIRCUIT VOLTAGE	MINIMUM BRANCH CIRCUIT SIZE
100 FEET	120	#12 AWG
165 FEET	120	#10 AWG
265 FEET	120	#8 AWG
400 FEET	120	#6 AWG
250 FEET	277	#12 AWG
400 FEET	277	#10 AWG
550 FEET	277	#8 AWG
750 FEET	277	#6 AWG

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02/05/2026
STATE OF MICHIGAN
Nicole L. Winhoven-Kamm
* License No. 6201315796
SEALED PROFESSIONAL ENGINEER
Yousef M. Kamm

DATE 02.09.2026
DESCRIPTION BIDDING & STATE REVIEW

ELECTRICAL LEGEND	
CCT	CIRCUIT
E.C.	ELECTRICAL (SUB) CONTRACTOR
EXTG.	EXISTING
F.B.O.	FURNISHED BY OTHERS, INSTALLED AND/OR WIRED BY ELECTRICAL CONTRACTOR
G.C.	GENERAL (SUB) CONTRACTOR
HP.	HORSEPOWER
L.D.	LOCATE AS DIRECTED
M.C.	MAXIMUM
M.H.	MECHANICAL (HVAC, PLBG, FP, OR TC) (SUB) CONTRACTOR
M.I.	MINIMUM
N/L	NIGHT LIGHT, UNSWITCHED CIRCUIT
O/EQ	OR EQUAL
REV	REVIEW
R/M	REMOVE
R/L	RELOCATE/RELOCATED
UNO	UNLESS NOTED OTHERWISE
W/	COMPLETE WITH
WG	WITH WIRE GUARD
WP	WEATHERPROOF DEVICE, ENCLOSURE OR COVER PLATE.
XX,XXX	INDICATES MAXIMUM RMS SHORT CIRCUIT FAULT AT NOTED BUS PER ENGINEER'S CALCULATIONS VIA ASSUMPTIONS ON UTILITY FAULT INFORMATION.
②	INDICATES NOTE-SEE TABULATION ON SAME SHEET
①	SINGLE LAMP STRIP-SEE SCHEDULE-SHOWN TO SCALE (APPROX.)
④	EMERGENCY EGGS OR COMBINATION EXIT EGGS LIGHT-SEE SCHEDULE
⑤	LOCAL SWITCH-1 POLE-20A-120/277V-W/STAINLESS STEEL C.P. - M.H. 44" HUBBELL #CSB120W OEQ.
⑥	DUPLEX GFCI AND TAMPER RESISTANCE RECEPT-15A-125V-NEMA 5-15R W/STAINLESS STEEL C.P. - M.H. 16" IN READILY ACCESSIBLE LOCATION. HUBBELL #GFRST15BK OEQ.
⑦	VARIABLE SPEED DRIVE W/DISCONNECT AND FUSES-FURNISHED AND INSTALLED BY OTHERS. POWER WIRING BY E.C. PER SUPPLIERS WIRING DIAGRAMS. VFD LINE AND LOAD CONDUCTORS SHALL NOT BE ROUTED IN THE SAME RACEWAY. PROVIDE NEW ENGRAVED LABEL AT VFD TO MATCH MOTOR AND PANEL LABELING. COORDINATE FINAL VFD LOCATION IN FIELD.
⑧	FUSED SAFETY SWITCH-AMP SIZE AS NOTED-VOLTAGE AS RECD-NEMA 1 ENCLOSURE U.N.O.-MH 6" TO TOP UNO (IF NON-FUSED); JR-NEMA 3R ENC; GK-NEMA 12 GASKETED ENC; 4X-NEMA 4X STAINLESS STEEL ENC.
⑨	DISCONNECT SWITCH-AMP RATED-TOGGLE TYPE-20 AMP-1 TO 3 POLES AS REQUIRED FOR EOPT-600 VOLT-1 UNO ENCLOSURE U.N.O.-LOCATE ADJACENT TO EQUIPMENT SERVED. (WP=WEATHERPROOF ENCLOSURE) SQUARE D CLASS 2510 SERIES OEQ
⑩	MOTOR-FRACTIONAL H.P.-120 VOLT (EF=EXH. FAN; UH=UNIT HEATER; MD=MOTORIZED DAMPER)
⑪	MOTOR-SIZE AND FUNCTION AS NOTED-3 PHASE
⑫	PRE-WIRED CONTROL PANEL WITH MAGNETIC STARTERS, CONTACTORS, ETC., PROVIDED WITH EQUIPMENT, WITH OR WITHOUT DISCONNECT AS SHOWN. POWER FEE WIRING BY E.C.
⑬	SECURITY SYSTEM CARD/TOP READER/KEYPAD OR ENTRY CONTROL STATION-SHALL BE FURNISHED BY GENERAL TRADES. ONE GANG BOX, MH 44" UNO ON PLANS, WITH 3/4" CONDUIT STUB TO ABOVE ACCESSIBLE CEILING OR TO STRUCTURE BY ELECTRICAL CONTRACTOR. HARDWARE INSTALLATION AND WIRING SHALL BE BY ACCESS CONTROL SUPPLIER.
⑭	ELECTRIC DOOR LOCK OR LATCH RELEASE-FLUSH IN DOOR FRAME-SHALL BE FURNISHED BY GENERAL TRADES. 3/4" CONDUIT STUB TO ABOVE ACCESSIBLE CEILING OR TO STRUCTURE BY ELECTRICAL CONTRACTOR. HARDWARE INSTALLATION AND WIRING SHALL BE BY ACCESS CONTROL SUPPLIER.
⑮	SECURITY SYSTEM MAGNETIC DOOR CONTACT/SWITCH-FLUSH MOUNTED IN DOOR FRAME-SHALL BE FURNISHED BY GENERAL TRADES. 3/4" CONDUIT STUB TO ABOVE ACCESSIBLE CEILING OR TO STRUCTURE BY ELECTRICAL CONTRACTOR. HARDWARE INSTALLATION AND WIRING SHALL BE BY ACCESS CONTROL SUPPLIER.
⑯	WIRE TICKS INDICATE BRANCH CIRCUIT PHASE, NEUTRAL, & GROUND WIRES, RESPECTIVELY CONDUIT-CONCEALED IN CEILING, WALL OR FLOOR OF NEW CONSTRUCTION. CONCEALED WHEREVER POSSIBLE IN EXISTING CONSTRUCTION (1/2" DIA. MIN.)
⑰	HOMERUN TO PANEL OR LOCATION NOTED
⑱	INDICATES CONCEALED CONDUIT UNDERGROUND/UNDERFLOOR - 3/4" MIN.
⑲	SURFACE MOUNTED RACEWAY-W/MATCHING FITTINGS, BOXES, ACCESSORIES, ETC. WIREMOLD #V700 SERIES, HUBBELL #BL75010W SERIES OEQ
⑳	INDICATES LOW VOLT CABLING ROUTED THRU PLENUM OR CEILING SPACE.
㉑	WORKING CLEARANCE AREA PER NEC 110.26.
㉒	EXISTING CONDUIT & WIRING-TO REMAIN
㉓	EXISTING 120 VOLT MOTOR-TO REMAIN-UNO
㉔	EXISTING ITEMS ARE TO REMAIN-UNO
㉕	ALL EXISTING ITEMS "DASHED" ARE TO BE REMOVED-UNO
㉖	REMOVE EXISTING ITEM INCLUDING ASSOCIATED CONDUIT AND WIRING NO LONGER IN SERVICE BACK TO SOURCE.

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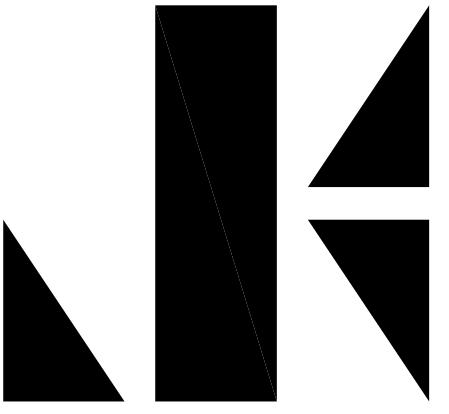
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MONROE PUBLIC SCHOOLS
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AT FOR

JOB # 26101

ELECTRICAL LEGEND AND SINGLE-LINE

E1.02



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02/05/2026

STATE OF MICHIGAN
Nicole L
Winhoven-Kamm
LICENCED PROFESSIONAL ENGINEER
License No. 6201315796

DATE **DESCRIPTION**
2.09.2026 BIDDING & STATE
REVIEW

ALTERNATE

URNATE HWD-E1: STATE THE AMOUNT TO BE ADDED/SUBTRACTED TO THE
BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR
COMPLETE INSTALLATION OF THE FOLLOWING.

ELECTRICAL WORK ASSOCIATED WITH THE GAS-FIRED DOMESTIC WATER HEATER (HWD-DWH-1) WITH THE DETAILS INDICATED ON THE DESIGN DOCUMENTS.

OMISSION OF ALL ELECTRICAL WORK ASSOCIATED WITH THE INLINE PUMP (HWD-HWS-1)

(EXISTING CIRCUITING)

PANELBOARD SCHEDULE

EXISTING PANEL: E		NOTES:										
MAINS: <u>100A M.C.B.</u>		<input type="checkbox"/> <u>1 GFCI BREAKER</u>										
VOLTS: <u>120/240V-1Ø-3W-SN</u>		<input type="checkbox"/> <u>4 ARC FAULT</u>										
MOUNTING: <u>SURFACE</u>		<input type="checkbox"/> <u>5 SWITCHED NEUTRAL</u>										
		<input type="checkbox"/> <u>7 NON-CONSEQUENT LOAD</u>										
		<input type="checkbox"/> <u>8</u>										
LOAD DESCRIPTION		NOTES		VOLT	C.B.	A		C.B.	VOLT	NOTES	LOAD DESCRIPTION	
1	1 SCHOOL EXIT LIGHT			1000	20	1	1800		1	20	800	UNKNOWN
1	2 GYM EXIT LIGHT			1000	20	1		1000	1	20	0	SPARE
1	3 HALL BATTERY PACKS			1000	20	1	1000		1	20	0	SPARE
1	4 FIRE ALARM PANEL			500	20	1		500	1	20	0	SPARE
5	SPARE			0	20	1	0			0	0	SPACE
6	SPARE			0	20	1	0			0	0	SPACE
						2800						
						1500						
						BALANCE						
						130%						
						70%						
TOTAL LOAD:				<u>4300</u>				TOTAL AMPS:				<u>17.9</u>

□ HANDLE TIE
○ HANDLE LOCK

▼
(NEW CIRCUITING)

PANELBOARD SCHEDULE ②														
PANEL: E			NOTES:											
MAINS: 225A M.L.O.			① GFCI BREAKER				④ ARC FAULT				22 KAIC RATING			
VOLTS: 120/240V-3Ø-4W-SN			② 30 MILLIAMP EQUIPMENT GROUND FAULT TRIP				⑤ SWITCHED NEUTRAL				⑦ NON-CONSEQUENT LOAD			
MOUNTING: SURFACE			③ SHUNT TRIP				⑥ MOTOR OPERATED				⑧ RELAY CONTROLLED			
LOAD DESCRIPTION			NOTES	VOLT AMPS	C.B.	A	B	C	C.B.	VOLT AMPS	NOTES	LOAD DESCRIPTION		
1	SCHOOL EXIT LIGHT			1000	20	1	1800		1	20	800		UNKNOWN	2
3	(WILD LEG)			0			0				0		(WILD LEG)	4
5	GYM EXIT LIGHT			1000	20	1			1000	1	20	0	SPARE	6
7	HALL BATTERY PACKS			1000	20	1	1000		1	20	0		SPARE	8
9	(WILD LEG)			0			0				0		(WILD LEG)	10
(11)	FIRE ALARM PANEL			500	20	1			500	1	20	0	SPARE	12
13	BOILER LIGHTS			240	20	1	984		1	15	744		SF-1	14
15	(WILD LEG)			0			0				0		(WILD LEG)	16
17	SPARE			0	20	1			600	1	15	600	B-1	18
19	SPARE			0	20	1	600		1	15	600		B-2	20
21	(WILD LEG)			0			0				0		(WILD LEG)	22
23	SPARE			0	20	1			0	1	20	0	SPARE	24
25	SPARE			0	20	1	0		1	20	0		SPARE	26
27	(WILD LEG)			0			0				0		(WILD LEG)	28
29	SPARE			0	20	1			800	1	15	800	DWH-1	30
31	SPARE			0	20	1	2947		3	30	2947		UH-1	32
33	(WILD LEG)			0			2947		3	30	2947		-	34
35	HWS-1 & CP-1			1020	20	1			3967	3	30	2947	-	36
37	HWP-1			2103	30	3	4206		3	30	2103		HWP-2	38
39	-			2103	30	3			4206	3	30	2103	-	40
41	-			2103	30	3			4206	3	30	2103	-	42
<input type="checkbox"/> HANDLE TIE <input type="radio"/> HANDLE LOCK							11537	7153	11073	BALANCE 116% 72% 112%				
TOTAL LOAD:							2976.3					TOTAL AMPS:		71.7

ALTERNATE HWD-E1

PANEL SCHEDULE NOTES

RECIRCUIT EXISTING BRANCH CIRCUIT TO PANEL AS SHOWN. REFER TO PANEL SCHEDULE ON THIS SHEET. EXISTING BREAKER IN OFF POSITION SHALL BECOME SPARE AND/OR AVAILABLE FOR NEW CIRCUITING. NEW BRANCH CIRCUITS SHALL BE IN DEDICATED RACEWAYS AS PER THE SPECIFICATIONS.

E.C. SHALL UPDATE PANEL DIRECTORY AT COMPLETION OF PROJECT.

INDICATES EXISTING ITEM SHALL BE REMOVED INCLUDING ASSOCIATED CONDUIT AND WIRING NO LONGER IN SERVICE.

EXISTING BRANCH CIRCUIT SHALL BE RECIRCULATED TO NEW PANEL AS SHOWN.

BUILDER REPLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL

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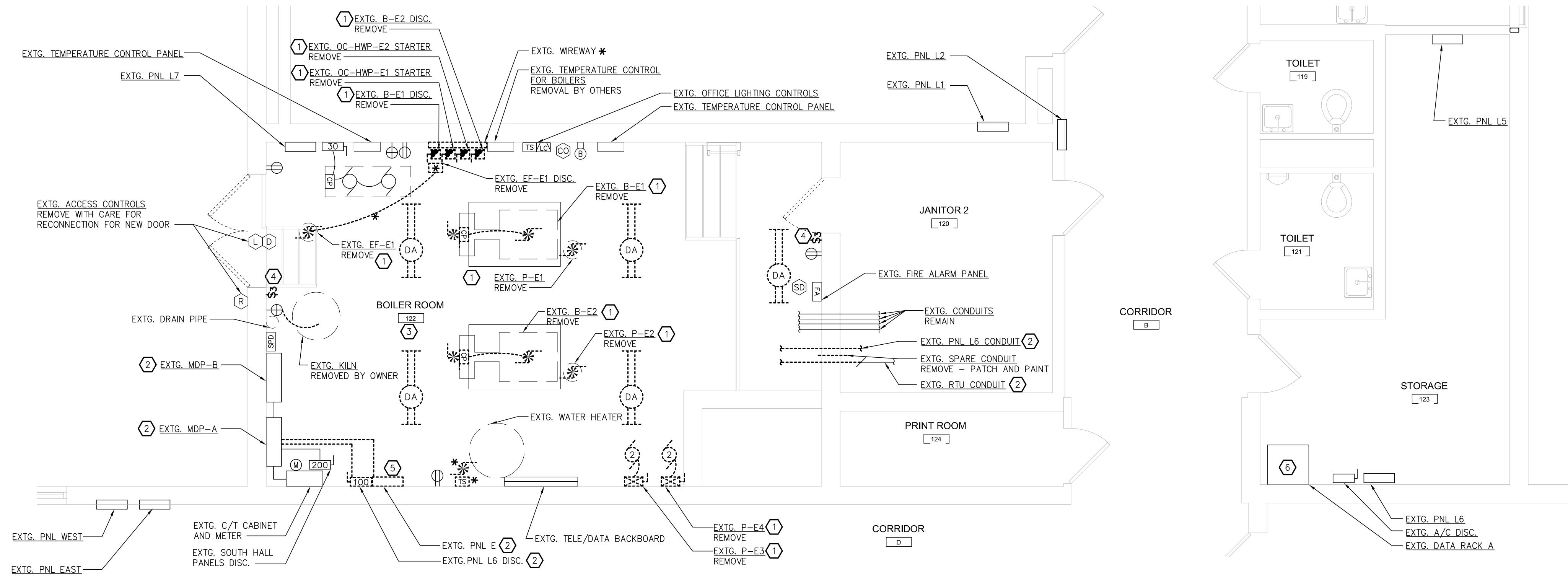
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AT OR

JOB # 26101

ELECTRICAL PANEL SCHEDULES

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BOILER ROOM LIGHTING AND POWER PLAN - DEMOLITION

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

ALTERNATE	
ALTERNATE HWD-E1: STATE THE AMOUNT TO BE ADDED/SUBTRACTED TO THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE FOLLOWING.	
1. ELECTRICAL WORK ASSOCIATED WITH THE GAS-FIRED DOMESTIC WATER HEATER (HWD-DWH-1) WITH THE DETAILS INDICATED ON THE DESIGN DOCUMENTS.	
2. OMISSION OF ALL ELECTRICAL WORK ASSOCIATED WITH THE INLINE PUMP (HWD-HWS-1)	

PLAN NOTES

- ① DISCONNECT EXISTING ELECTRICAL CONNECTIONS TO ACCOMMODATE REMOVAL OF MECHANICAL EQUIPMENT BY OTHERS. COORDINATE WITH M.C. BEFORE COMMENCEMENT OF WORK. EXISTING BRANCH CIRCUITS SHALL BE REMOVED BACK TO SOURCE. ASSUMED SOURCE IS EXISTING PANEL MDP-B.
- ② REFERENCE SHEET E1.02 FOR MORE INFORMATION.
- ③ FIELD VERIFY EXISTING LIGHTING BRANCH CIRCUITS THAT SHALL BE REMOVED BACK TO SOURCE. ASSUMED SOURCE IS EXISTING PANEL LP2.
- ④ DISCONNECT AND REMOVE INDICATED LIGHTING CONTROLS. REMOVE ALL ASSOCIATED CABLING BACK TO SOURCE. EXISTING BACKBOX SHALL REMAIN IN PLACE AND SHALL BE REUSED FOR NEW LIGHTING CONTROLS IN SAME LOCATION.
- ⑤ RE-WORK AND RE-USE ALL EXISTING OVERHEAD BRANCH CONDUCTORS. VERIFYING CONDUCTOR INTEGRITY AND AMPACITY. PROVIDE PROPERLY SIZED JUNCTION BOXES FOR SPLICING, TERMINATION, AND RECONNECTION. CUT AND REMOVE ANY EXPOSED CONDUCT GOING UNDERGROUND AT THE FLOOR. COORDINATE CUTTING, PATCHING AND PAINTING WITH GENERAL TRADES.
- ⑥ PANEL L6 CONTAINS THE DATA RACK "A" CIRCUIT SUPPLYING THE SYSTEM. COORDINATE WITH MPS IT DIRECTOR FOR PROJECT SCOPE AND SEQUENCE OF CONSTRUCTION BEFORE COMMENCING ANY WORK.

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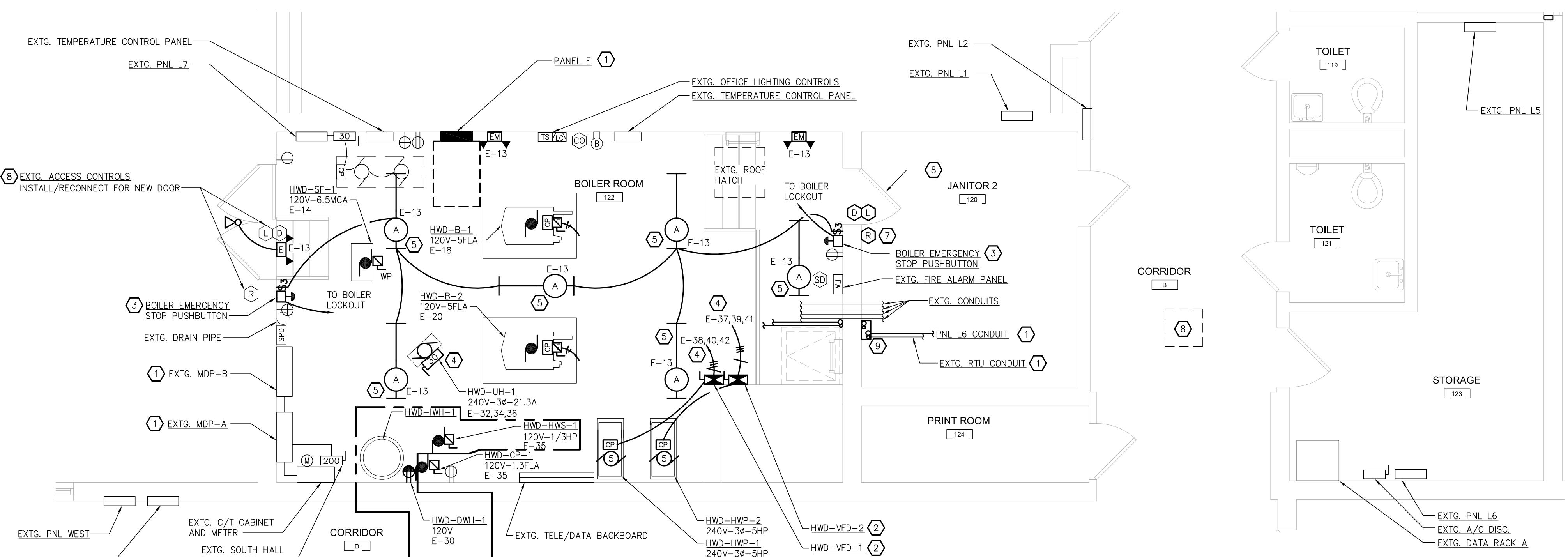
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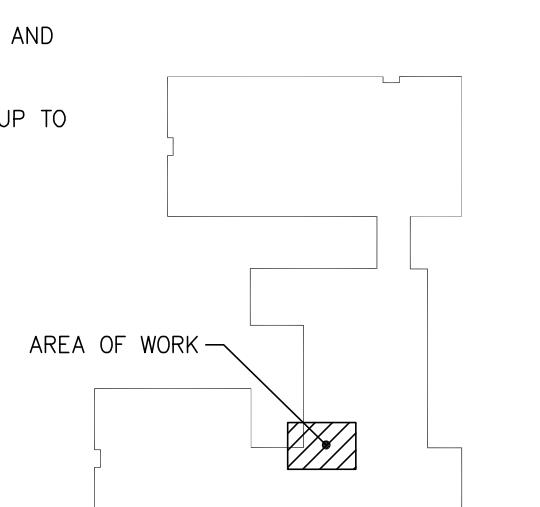
BOILER ROOM LIGHTING AND POWER PLAN

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

GENERAL NOTES	
1. COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR FOR PROJECT SCOPE AND SEQUENCE OF CONSTRUCTION BEFORE COMMENCING ANY WORK.	
2. WHERE ACCESSIBLE CEILINGS ARE PRESENT, WIRING MAY BE RUN IN METAL RACEWAYS ONLY TO ABOVE ACCESSIBLE CEILINGS. WITH OPEN CABLING IN ACCESSIBLE CEILING AND PROPERLY SUPPORTED AS PER THE SPECIFICATIONS. WIRING IN AIR HANDLING PLENUMS SHALL BE PLENUM RATED AS REQUIRED. ALL WIRING RUN IN METAL RACEWAYS, SHALL BE IN RACEWAYS SEPARATE FROM ALL OTHER WIRING, UNLESS NOTED OTHERWISE. COORDINATE LAYOUT AND RACEWAY SIZES WITH FINAL FIRE ALARM VENDOR PRIOR TO INSTALLATION.	
3. SEAL ALL PENETRATIONS THRU FIRE RATED ASSEMBLIES WITH APPROVED FIRE-STOPPING MATERIALS. REFER TO SPECIFICATIONS FOR FURTHER DETAILS AND SEE ARCHITECTURAL SHEET LS1.00 FOR RATED ASSEMBLY LOCATIONS.	
4. PATCH AND PAINT SHALL BE COVERED BY GENERAL TRADES. ALL RACEWAYS SHALL MATCH WALL FINISH. COORDINATE WITH ARCHITECT.	

PLAN NOTES

- ① REFERENCE SHEET E1.02 FOR MORE INFORMATION.
- ② VFD LINE AND LOAD CONDUCTORS SHALL NOT BE ROUTED IN THE SAME RACEWAY. PROVIDE ENGRAVED LABEL AT VFD TO MATCH MOTOR AND PANEL LABELING.
- ③ PER THE REQUIREMENTS OF THE MICHIGAN BOILER CODE, EMERGENCY STOP PUSHBUTTON SHALL BE AT EACH BOILER DOOR (TWO REQUIRED) FOR EMERGENCY POWER SHUT-OFF OF BOTH HO-B-1 AND HO-B-2. PROVIDE AND INSTALL NECESSARY CONDUIT, WIRING AND RELAYS TO EACH PIECE OF EQUIPMENT FOR THE E-STOP PUSHBUTTON (CONNECTED IN SERIES), SO THAT THE PUSHBUTTON OF EACH E-STOP DE-ENERGIZES THE BOILERS. ADD RED NAMEPLATE ON EACH E-STOP PANEL "EMERGENCY BOILER DISCONNECT". DISCONNECT M.H. AT 6'0" AFF TO TOP.
- ④ 3#10 + #10G - 1/2"
- ⑤ MOUNT LIGHTING FIXTURE AT 8'-0" A.F.F. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION TO ENSURE PROPER CLEARANCE WITH REGARDS TO MECHANICAL EQUIPMENT AND NEW DUCTWORK.
- ⑥ DOOR WILL BE LOCKED AT ALL TIMES. CARD READER ACCESS. DOOR SHALL UNLOCK AUTOMATICALLY DURING FIRE ALARM AND POWER LOSS (FAIL-SAFE FROM CONTROLLER). LOCK OUT OF DOORS CAN BE OVERRIDDEN DURING FIRE DRILLS OR OTHER EVENTS. COORDINATE WITH DOOR INSTALLER AND SUPPLIER FOR EXACT ROUGH-IN REQUIREMENTS FOR ALL ELECTRICAL COMPONENTS.
- ⑦ REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATION AND MOUNTING HEIGHT FOR DEVICES NOTED.
- ⑧ CEILING ACCESS POINT - 24"x24" ACCESS PANEL BY G.C. REFERENCE ARCHITECTURAL SET AND SPECIFICATIONS FOR MORE INFORMATION.
- ⑨ PULL BOX (12"x12"x6") NEMA 1, PULL BOX SECURED TO EXISTING WALL. CONDUIT ROUTES UP TO ROOF STRUCTURE.



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JOB # 26101
FOR
BOILER ROOM
LIGHTING & POWER
PLANS
E3.01

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