

LIVONIA PUBLIC SCHOOLS

HAYES ELEMENTARY
HYDRATION STATIONS

LIVONIA MICHIGAN

PROJECT NO. 2025-040

AUGUST 8TH, 2025

BID SET

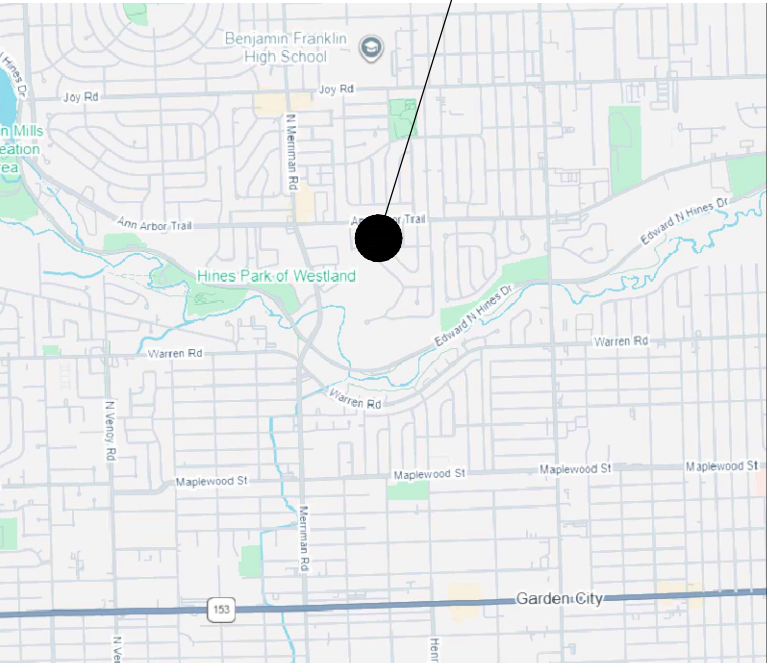


FRENCH

LIST OF DRAWINGS

ARCHITECTURAL		MECHANICAL		ELECTRICAL	
A0.01	ARCHITECTURAL REFERENCE SHEET	P0.00	PLUMBING GENERAL INFORMATION	E0.00	ELECTRICAL GENERAL INFORMATION
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30600 LOUISE CL WESTLAND, MI 48185



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Livonia Public Schools
Hydration Stations
Hayes Elementary

SHEET

Composite Code Plan

2025-040

SHEET NUMBER

A0.02

 REPLACEMENT OR NEW INSTALLATION OF HYDRATION STATION WITH DRINKING FOUNTAIN

 INDICATES EXISTING 1-HOUR FIRE RATED WALLS

NO CHANGE TO EXISTING BUILDING AREA

STUDENT POPULATION IS NOT CHANGING

NO CHANGE OF USE

EXISTING BUILDING IS NOT SPRINKLED.

ALTERATION DESCRIPTION:

- INSTALLATION OF NEW OR REPLACEMENT HYDRATION STATIONS WITH DRINKING FOUNTAINS

1) DESIGN CODES

a) (2021) MICHIGAN REHABILITATION CODE (EXISTING BUILDING)

b) (2016) SCHOOL FIRE SAFETY RULES

c) (NFPA 101 LIFE SAFETY CODE 2011 EDITION)

d) (2021) MICHIGAN PLUMBING CODE

e) (2021) MICHIGAN MECHANICAL CODE

f) (2021) MICHIGAN UNIFORM ENGINEERING CODE

g) (2023) MICHIGAN ELECTRICAL CODE RULES, PART 8

h) (2023) NATIONAL ELECTRICAL CODE (NFPA 70)

i) (2017) ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES

2) DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (106.6)

a) REPRESENTATIVE OF FRENCH ASSOCIATES WILL BE THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

3) COMPLIANCE METHOD (CHAPTER 3)

a) WORK AREA COMPLIANCE METHOD (301.1.2) - THE WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTERS 5 THROUGH 11.

5) CLASSIFICATION OF WORK (CHAPTER 5)

a) AS DETERMINED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, THE WORK INCLUDES LEVEL 1 ALTERATIONS AND LEVEL 2 ALTERATIONS. THE WORK AREA DOES NOT EXCEED 50% OF THE BUILDING AREA.

b) THERE IS NO CHANGE OF OCCUPANCY.

c) THERE IS NO ADDITION.

d) UNDER THE SCHOOL FIRE SAFETY RULES, THE SCOPE OF WORK IN THE LEVEL 1 ALTERATIONS IS THE REPLACEMENT OF EXISTING FINISHES AND SYSTEMS. AS A RESULT OF LEVEL 1 ALTERATION AREAS DO NOT QUALIFY AS REMODELING.

e) THE LEVEL 2 ALTERATION AREAS ARE BEING REMODELED AS DEFINED BY THE SCHOOL FIRE SAFETY RULES. THE LEVEL 2 ALTERATION AREA IS LESS THAN 50% OF THE BUILDING AREA SO WE ARE NOT REQUIRED TO BRING THE WHOLE BUILDING INTO COMPLIANCE.

6) CHAPTER 7 - ALTERATIONS - LEVEL 1

a) SECTION 803.4 - NEW EXISTING FINISHES WILL COMPLY WITH CHAPTER 8 OF THE MICHIGAN BUILDING CODE.

f) FROM TABLE 803.9 - CORRIDORS ARE CLASS B FINISHES, ROOMS ARE CLASS C FINISHES

g) INTERIOR FLOOR FINISHES SHALL COMPLY WITH SECTION 804 OF MBC.

7) CHAPTER 8 - ALTERATIONS - LEVEL 2

a) SECTION 803.4 - NEW EXISTING FINISHES WILL COMPLY WITH CHAPTER 8 OF THE MICHIGAN BUILDING CODE.

f) FROM TABLE 803.9 - CORRIDORS ARE CLASS B FINISHES, ROOMS ARE CLASS C FINISHES

g) 803.4.1 - THE NEW AND EXISTING FINISHES OF CORRIDORS SERVING THE WORK AREA COMPLY WITH SECTION 804 OF MBC.

c) SECTION 804 - FIRE PROTECTION

d) 804.1 - IN WORK AREAS THE FIRE PROTECTION (SPRINKLER) SYSTEM WILL BE MODIFIED AS REQUIRED TO COMPLY WITH THE MICHIGAN BUILDING CODE.

e) 804.1.4 - THE EXISTING BUILDING HAS AN EXISTING, PREVIOUSLY APPROVED FIRE ALARM SYSTEM (EXCEPTION 1)

f) 804.1.4.1 - THE EXISTING FIRE ALARM SYSTEM IS ALREADY IN PLACE IN THE WORK AREAS AND SHALL BE MAINTAINED. MODIFICATIONS SHALL COMPLY WITH SECTION 907 OF THE MBC.

g) SECTION 907 - EXITS

a) 907.1 - THE EXISTING NUMBER OF EXITS BEING MAINTAINED COMPLY WITH MBC CHAPTER 10 REQUIREMENTS FOR QUANTITY AND SIZING.

b) SECTION 905.5 - CORRIDOR DOORS IN THE WORK AREA THAT ARE BEING REPLACED SHALL BE SOLID CORE WOOD OR HOLLOW METAL, AND SHALL NOT CONTAIN LOUVERS.

c) 905.5.1 - CORRIDOR CORRIDOR OPENING - THE EXISTING CORRIDOR WALLS PROVIDE A SMOKE BARRIER SEPARATION. NEW CORRIDOR OPENINGS SHALL MAINTAIN THE SMOKE BARRIER.

d) 905.5.2 - DEAD END CORRIDORS IN THE WORK AREAS DO NOT EXCEED 35'

e) 905.5 - MEANS OF EGRESS AND EMERGENCY LIGHTING ARE PROVIDED AS REQUIRED IN THE LEVEL 1 AND LEVEL 2 ALTERATION AREAS

f) 905.5 - EXIT SIGNS AS PROVIDED AS REQUIRED IN THE LEVEL 1 AND LEVEL 2 ALTERATION AREAS.

9) NFPA 101 LIFE SAFETY CODE, CHAPTER 11, EXISTING EDUCATIONAL OCCUPANCIES

a) 101.1.5.1 - EXITS ARE BEING REMODELED (LEVEL 2 ALTERATIONS) ARE DESIGNED TO COMPLY WITH THE REQUIREMENTS OF CHAPTER 11, EXISTING EDUCATIONAL OCCUPANCIES.

b) 11-2.2.7 THROUGH 11-2.5.2 - EXISTING MEANS OF EGRESS COMPONENTS COMPLY.

c) 11-2.6 TRAVEL DISTANCE TO EXITS - EXISTING EXIT TRAVEL DISTANCES ARE BEING MAINTAINED IN LOCATIONS WHERE THE TRAVEL DISTANCE TO AN EXIT IS BEING CHANGED BY THE ADDITION, THE ROOMS HAVE AN EXIT TRAVEL DISTANCE OF LESS THAN 200'.

d) 11-2.6.3 THROUGH 11-2.10 - NEW LIGHT FIXTURES, EMERGENCY LIGHTING AND EXIT SIGNS ARE PART OF THE WORK AND WILL COMPLY.

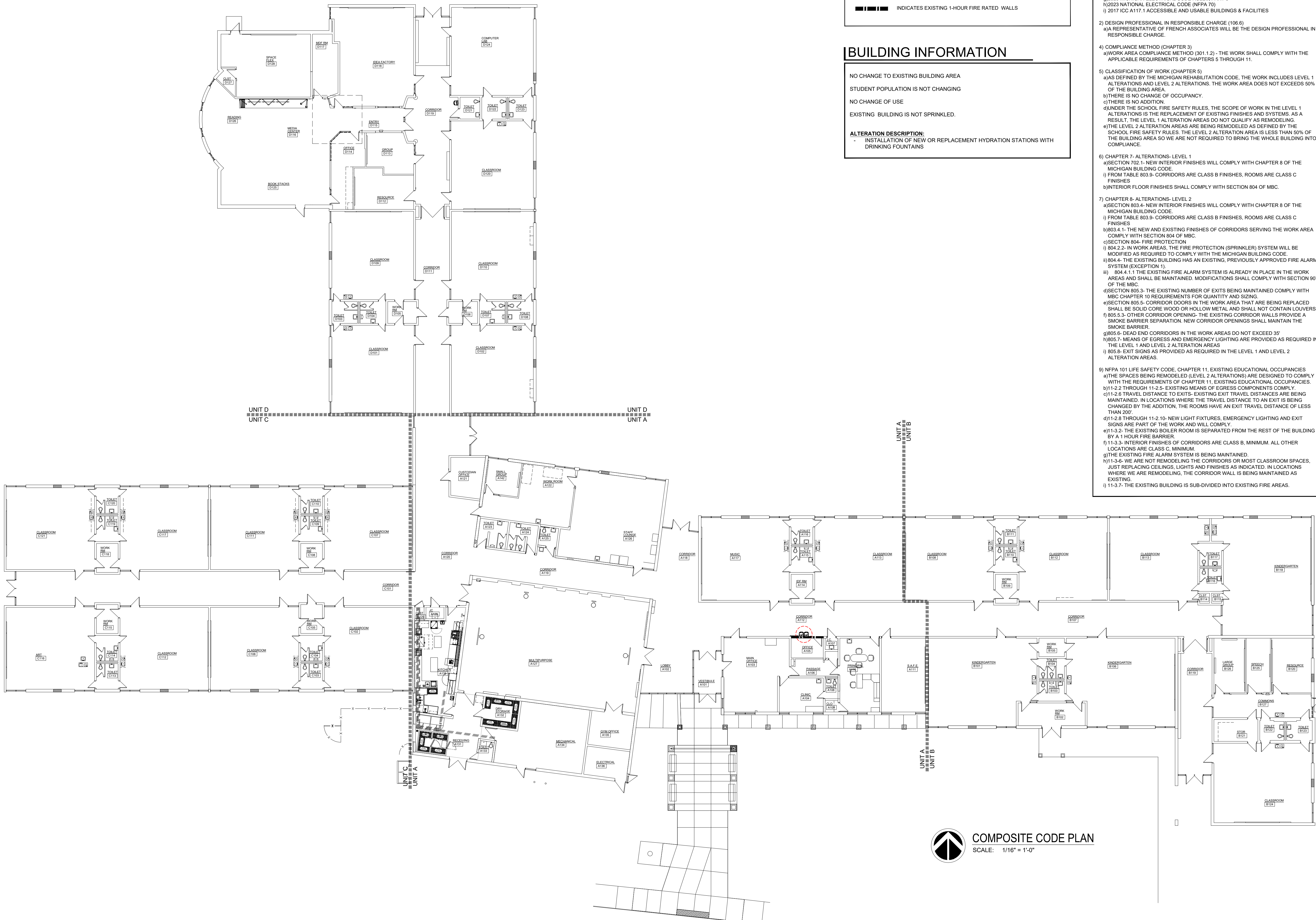
e) 11-3.2.2 - THE EXISTING BOLLER ROOM IS SEPARATED FROM THE REST OF THE BUILDING BY A 1 HOUR FIRE BARRIER.

f) 11-3.3.3 - INTERIOR FINISHES OF CORRIDORS ARE CLASS B, MINIMUM, ALL OTHER LOCATIONS ARE CLASS C, MINIMUM.

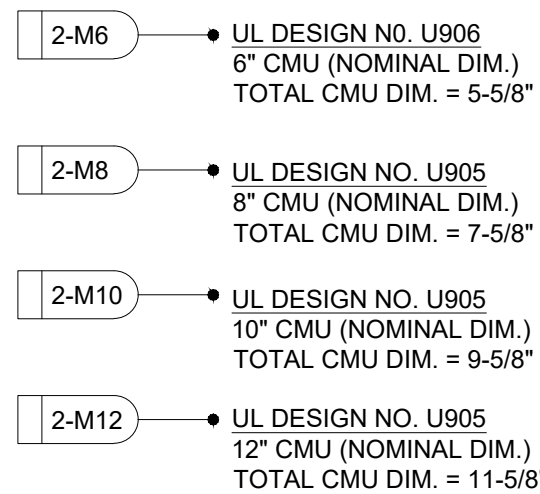
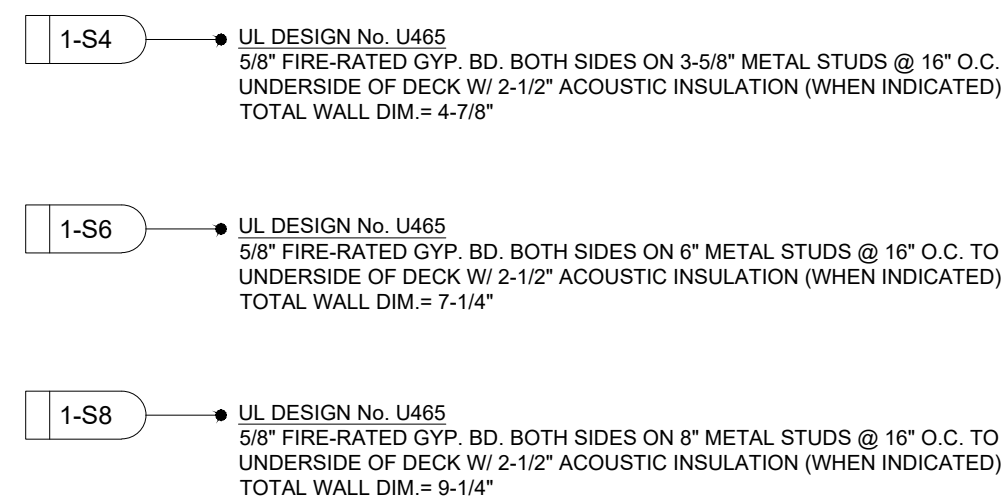
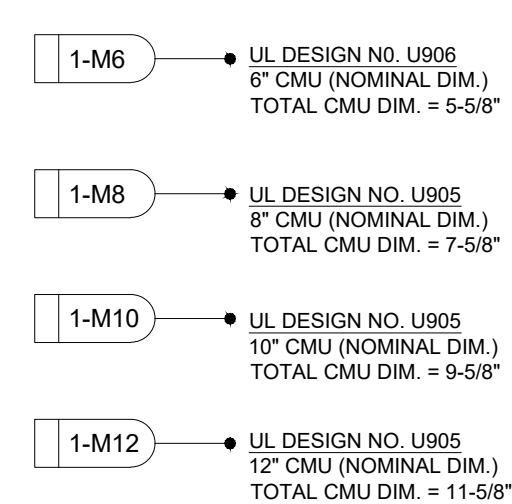
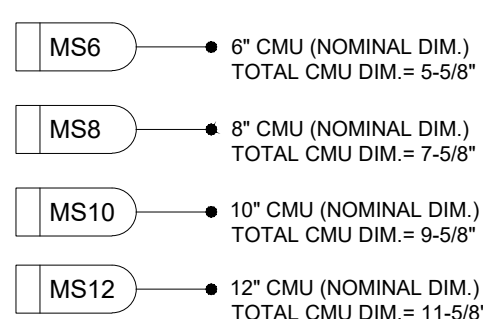
g) THE EXISTING FIRE ALARM SYSTEM IS BEING MAINTAINED.

h) 11-3.3.6 - WE ARE NOT REMODELING THE CORRIDORS OR MOST CLASSROOM SPACES, JUST REPLACING CEILINGS, LIGHTS AND FINISHES AS INDICATED. IN LOCATIONS WHERE WE ARE REMODELING THE CORRIDOR WALL IS BEING MAINTAINED AS EXISTING.

i) 11-3.7.1 - THE EXISTING BUILDING IS SUB-DIVIDED INTO EXISTING FIRE AREAS.



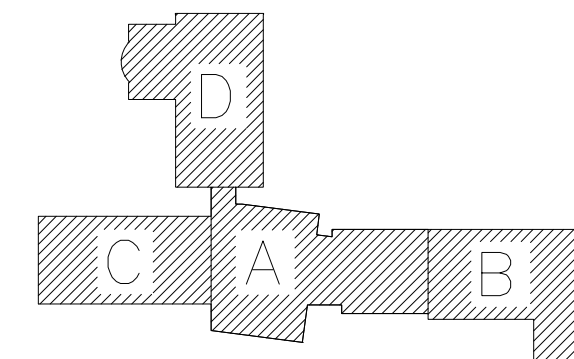
COMPOSITE CODE PLAN
SCALE: 1/16" = 1'-0"



- ## GENERAL NOTES
1. NOT ALL DETAILS ON THIS SHEET WILL BE USED ON THIS PROJECT. DETAILS ARE TYPICAL AND SHALL APPLY WHEN CONSTRUCTION CONDITION EXISTS.
 2. REFER TO STANDARD CONSTRUCTION DETAIL SHEET AD03.03 FOR TYPICAL INTERIOR PARTITION CONSTRUCTION INFORMATION AND RATED TOP OF WALL CONSTRUCTION. REFER TO DETAIL PLANS AND PLAN DETAILS FOR SPECIAL PARTITION CONSTRUCTION INFORMATION.
 3. REFER TO DETAILS AND ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION REGARDING PARTITION CONSTRUCTION AND WILL FINISH INFORMATION.

- | | |
|-----|-------------------------|
| C - | METAL STUD (CHASE WALL) |
| H - | METAL STUD (SHAFT STUD) |
| M - | MASONRY (CMU) |
| S - | METAL STUD |

-  **X-X** → INTERIOR WALL PARTITION CONSTRUCTION THAT EXTENDS TO U/S OF ROOF DECK PER WALL SECTIONS.
-  **X-X** → INTERIOR WALL PARTITION CONSTRUCTION THAT DOES NOT EXTEND TO DECK.
- GENERAL NOTE:**
- A. PROVIDE / INSTALL SEALANT UNDER PARTITION FLOOR TRACK ALONG BOTH EDGES WHEN ACOUSTIC INSULATION IS INDICATED AND AT ALL FIRE-RATED PARTITIONS.
- B. ACOUSTIC INSULATION IS TO HAVE A MIN. STC RATING OF 50.



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08/08/2025	BID SET
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APPROVED	DCJ



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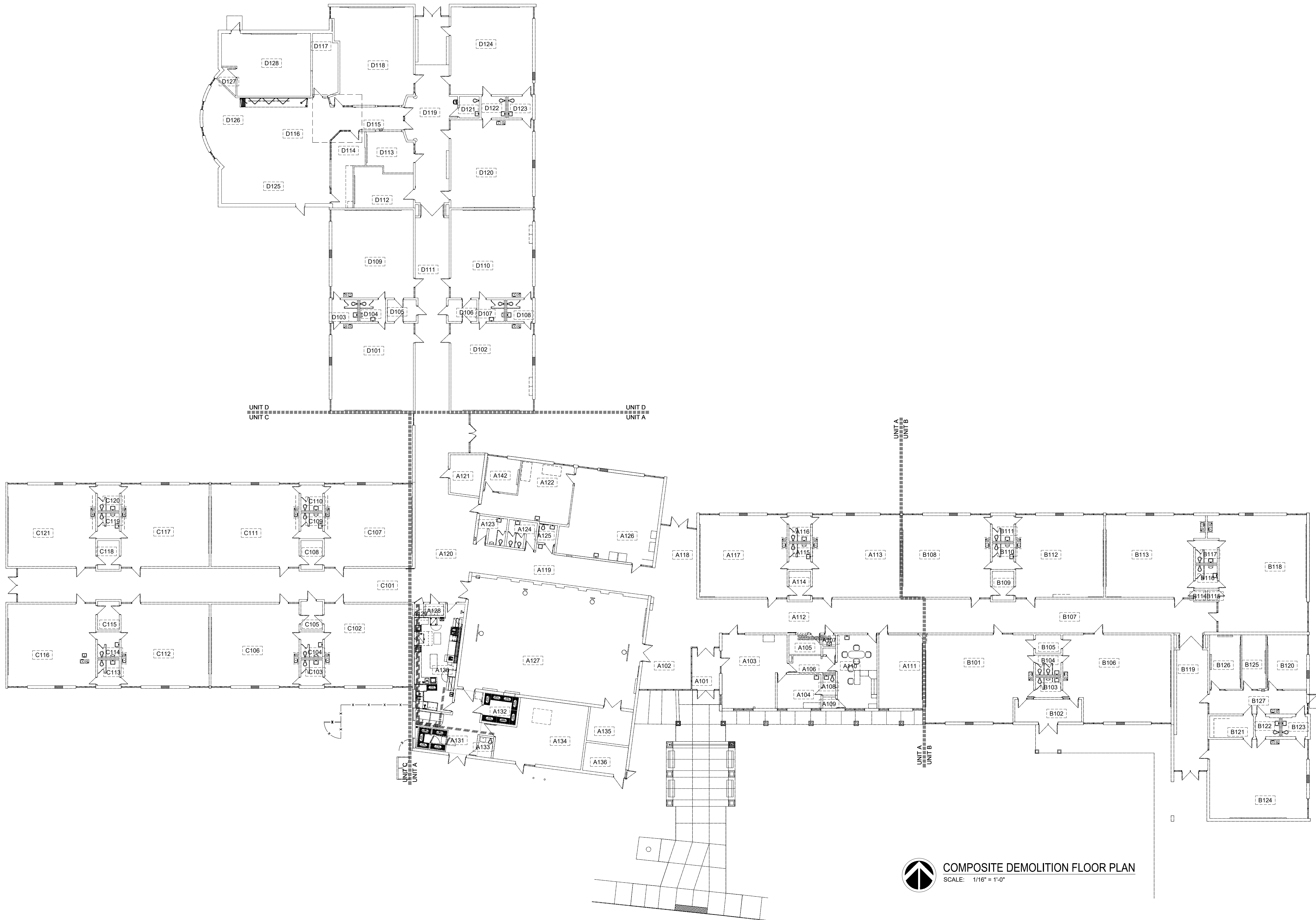
Livonia Public Schools
Hydration Stations
Hayes Elementary

LIVONIA,
MICHIGAN

Composite
Demolition Floor Plan

2025-040

AD2.01



COMPOSITE DEMOLITION FLOOR PLAN
SCALE: 1/16" = 1'-0"

MATERIAL AND COLOR SCHEDULE

[illegible]

ROOM FINISH SCHEDULE

UNIT A	RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								DOOR FRAME	CEILING			MILLWORK/ CASEWORK		REMARKS
			MAT.	FINISH	MAT.	FINISH	NORTH		EAST		SOUTH		WEST			MAT.	FINISH	HGT.	M/C	FINISH	
							MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH							
	A105	OFFICE	CPT	C2	RB	B1	EX/CMU	P1SG-A	-	-	-	-	-	-	-	-	-	-	-	1	
	A107	J.C.	-	-	EX/RB	EX/B1	-	-	-	-	-	-	-	EX	P1SG-A	-	-	-	-	1	
	A112	CORRIDOR	-	-	EX/RB	EX/B1	-	-	-	-	EX/CMU	P1SG-A	-	-	-	-	-	-	-	1	

ROOM FINISH SCHEDULE ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	EPXY	EPOXY	PLAM	PLASTIC LAMINATE	SS	STAINLESS STEEL
ANOD	ANODIZED	EX	EXISTING	PLAS	VENEER PLASTER	SSM	SOLID SURFACE MATERIAL
B CMU	BURNISHED CMU	EXPO	EXPOSED	PT	PORCELAIN TILE	SP CMU	SPLIT FACE CMU
BRICK	BRICK	GL	GLASS	PTD	PAINTED	SPI	SURFACES IMPACT
CMU	CONCRETE MASONRY UNIT	GLCMU	GLAZED CMU	QT	QUARRY TILE	SV	SHEET VINYL
CONC	CONCRETE	GYP	GYP SUM BOARD	RBF	RUBBER TILE	TER	TERRAZZO
CPL	CEMENT PLASTER	MP	METAL PANEL	RB	RESILIENT WALL BASE	VCT	VINYL COMPOSITION TILE
CPT	CARPET	PARTN	MOVEABLE PARTITION	SAAC	SPRAY-APPLIED ACOUSTICAL COATING	WP	WATERPROOF
CT	CERAMIC TILE			SEAL	CONCRETE SEALER		

ROOM FINISH SCHEDULE GENERAL NOTES

A.	PAINING OF EXISTING WALLS- REMOVE ALL EXISTING CLOCKS, SPEAKERS, SWITCH PLATE COVERS, OUTLET COVERS, THERMOSTATS, DIFFUSERS, GRILLES, REGISTERS, BLINDS, SHADES, EQUIPMENT, MARKERBOARDS, TACKBOARDS, ARTWORK AND OTHER MATERIALS PRIOR TO PAINTING AND RE-INSTALL IN THE SAME LOCATION AFTER PAINTING IS COMPLETE. PAINT ANY ITEMS THAT ARE CURRENTLY THE SAME COLOR AS THE EXISTING WALL. PAINT EXISTING CONDUIT TO MATCH THE WALL. PROTECT EXISTING FIRE ALARM DEVICES TO REMAIN IN PLACE.
B.	REFER TO AT & A9 SERIES SHEETS FOR PAINT DESIGNATIONS.
C.	REFER TO A9 SERIES SHEETS FOR FLOOR PATTERNS.
D.	PROVIDE RADIUS EDGE AT COUNTERTOPS.
E.	DO NOT PAINT OVER EXISTING MURALS, LETTERS, QUOTES, ETC. UNLESS NOTED OTHERWISE OR DIRECTED BY OWNER.
F.	DO NOT PAINT OVER ANY EXISTING EXPOSED BRICK OR SPLIT FACED CMU UNLESS NOTED OTHERWISE OR DIRECTED BY OWNER.
G.	ALL AREAS OF PEELING PAINT MUST BE REMOVED TO A SOUND SUBSTRATE AND CLEANED REMOVING ANY OILS, GREASE OR OTHER SOLUBLE CONTAMINANTS.
H.	WALL BASE TO BE INSTALLED AROUND ALL NEW CASEWORK.
I.	PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES UNLESS NOTED OTHERWISE.

ROOM FINISH SCHEDULE REMARKS

1.	PATCH AND PAINT WALL AND INSTALL NEW WALL BASE AS REQUIRED FOR NEW HYDRATION STATION.
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KEY PLAN

ISSUE DATE	ISSUED FOR
08/08/2025	BID SET
DRAWN	FA
CHECKED	FA
APPROVED	FA



PROJECT

Livonia Public Schools
Hydration Stations
Hayes Elementary

LIVONIA,
MICHIGAN

SHEET

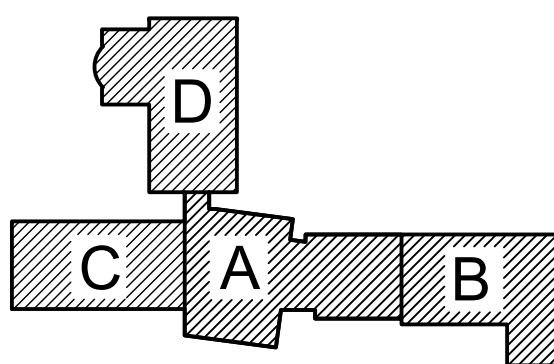
Room Finish Schedule

PROJECT NUMBER

2025-040

SHEET NUMBER

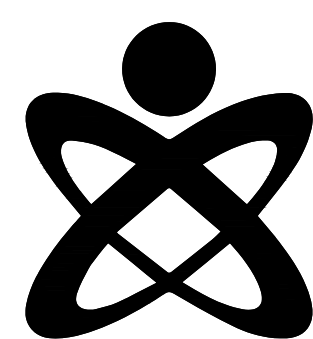
A3.02A



ISSUE DATE	ISSUED FOR
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UNIFIED BUILDING
SYSTEMS ENGINEERING
69 S. GRATIOT AVE.
MT. CLEMENS, MI 48043
UBS PROJECT 029.25.08 - HA

PROJECT

Livonia Public Schools
Hydration Stations
Hayes Elementary

LIVONIA,
MICHIGAN

SHEET

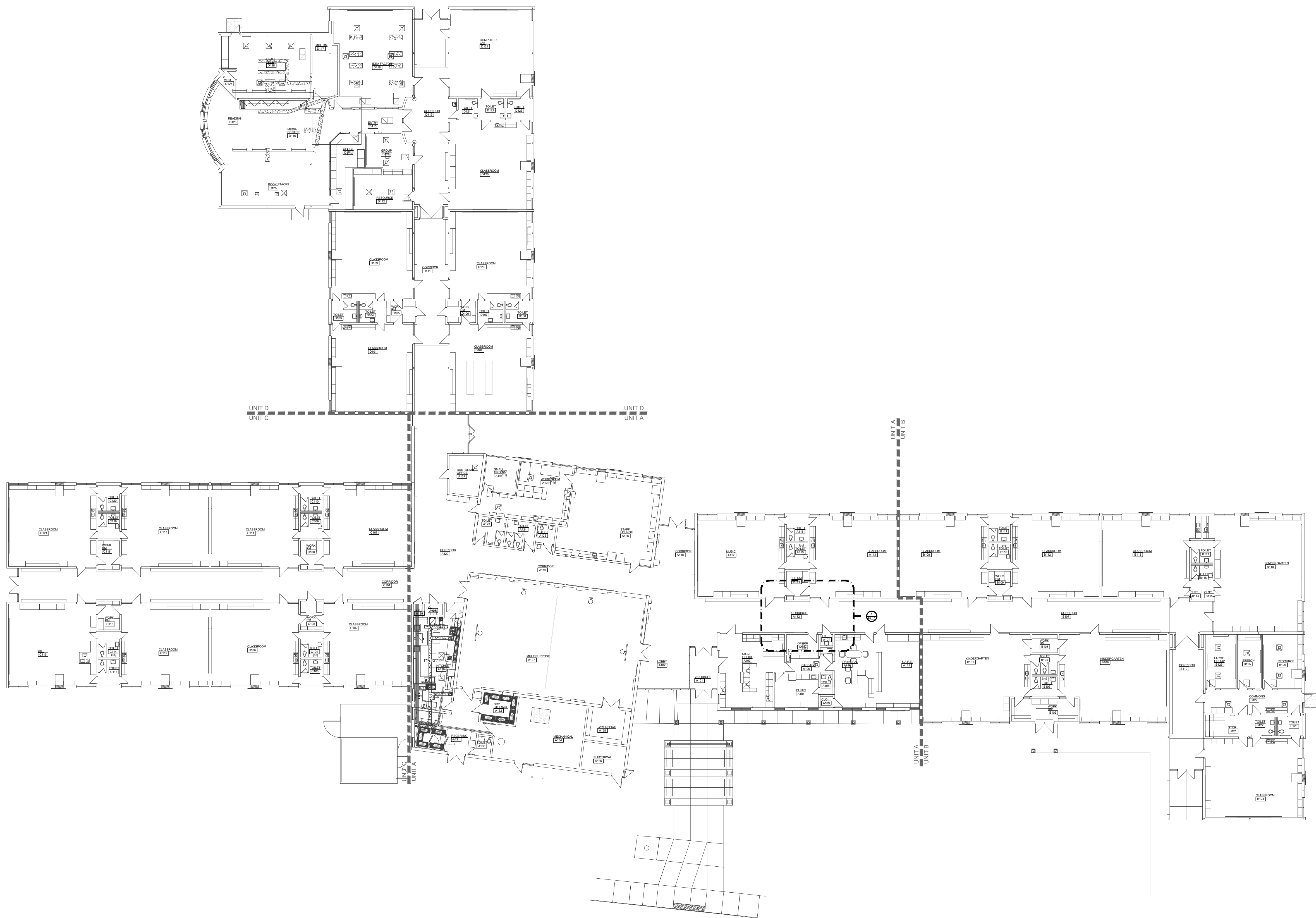
COMPOSITE PLUMBING FLOOR PLAN

PROJECT NUMBER

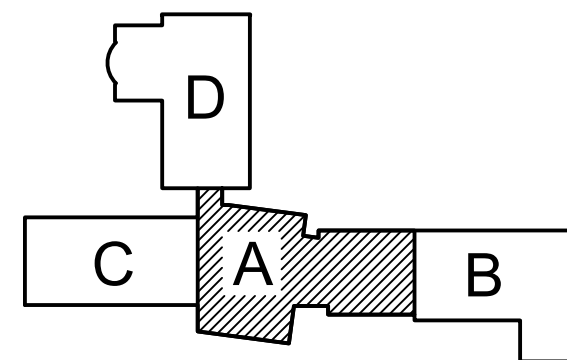
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P1.00



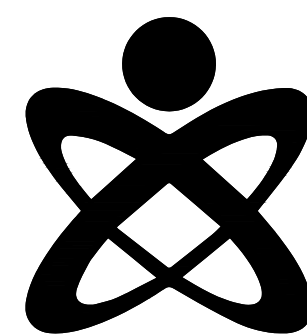
COMPOSITE PLUMBING FLOOR PLAN
SCALE: N.T.S.



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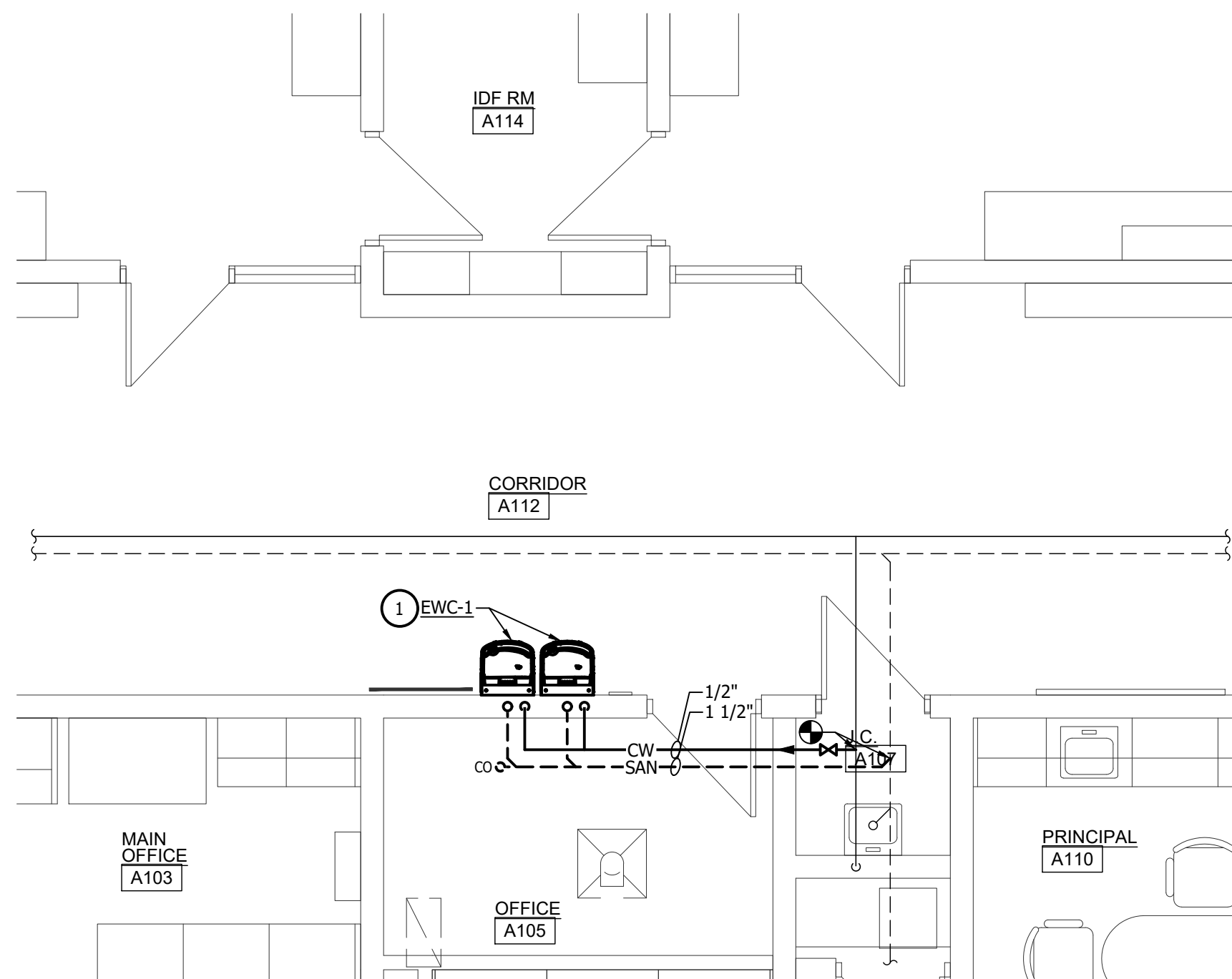
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Hayes Elementary

LIVONIA,
MICHIGAN

ENLARGED PLUMBING NEW WORK PLAN

2025-040

P4.10



ENLARGED PLUMBING
NEW WORK PLAN - A108

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

PLUMBING GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORKER INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
K	PROVIDE "INLINE" WATERLESS PRIMER TRAP SEAL PROTECTION ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG WITH CAP.
M	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. SHALL BE USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATED.

NEW WORK KEYED NOTES	
1	EXTEND 1/2" CW, 1 1/2" V, AND 1 1/2" SAN FROM PIPING IN WALL AND CONNECT TO TWO ELECTRIC WATER COOLERS. TERMINATE WITH STOPS. REMOVE BLOCK WALL AND SAW CUT FLOOR AS REQUIRED FOR INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

PLUMBING FIXTURE SCHEDULE								
TAG	BARRIER FREE	ITEM	PIPE CONNECTION SIZES				MANUFACTURER & MODEL NO.	ACCESSORIES
			WASTE	VENT	CW	HW		
EW-C-1	Y	FILTERED ELECTRIC WATER COOLER WITH BOTTLE FILLER	1 1/2"	1 1/2"	1/2"	-	ELKAY: LZSBSWSP	FIXTURE TO BE PROVIDED BY OWNER. CONTRACTOR TO PROVIDE CANE APRON ELKAY: LKAPREZL

NOTES

1. PROVIDE ALL ACCESSORIES NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
2. ALL FIXTURES SHALL MEET MICHIGAN DEPT. OF PUBLIC HEALTH REQUIREMENTS, AND SHALL BE SUITABLE FOR FOOD PREPARATION AREAS

POWER SYMBOL LIST		ELECTRICAL ABBREVIATIONS	
SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION
	CONDUIT DOWN	AFF	ABOVE FINISHED FLOOR
	CONDUIT UP	A	AMPERE
	CONTACTOR	AF	AMPERE FUSE/AMPERE FRAME
	DISCONNECT SWITCH - NON FUSED	AWG	AMERICAN WIRE GAUGE
	DISCONNECT SWITCH - FUSED	AT	AMPERE TRIP
	DISCONNECT SWITCH - COMB. MOTOR STARTER	ATS	AUTOMATIC TRANSFER SWITCH
	ELECTRICAL PANEL - 208/240 VOLTS	AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
	ELECTRICAL PANEL - 480 VOLTS	C	CONDUIT OR CEILING MOUNTED
	GROUNDING ROD	CB	CIRCUIT BREAKER
	GROUND	CU	COPPER
	GROUNDING BAR	CT	CURRENT TRANSFORMER
	JUNCTION BOX	DIA	DIAMETER
	JUNCTION BOX WITH HARDWIRED CONNECTION	DISC	DISCONNECT
	METER	EMT	ELECTRICAL METALLIC TUBING
	MOTOR - SINGLE PHASE	EWC	ELECTRIC WATER COOLER
	MOTOR - THREE PHASE	EPO	EMERGENCY POWER OFF
	MOTOR RATED SWITCH	(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
	POWER RECEPTACLE - SIMPLEX TYPE	FA	FIRE ALARM
	POWER RECEPTACLE - DUPLEX TYPE	FACP	FIRE ALARM CONTROL PANEL
	POWER RECEPTACLE - DUPLEX 6" ABOVE COUNTER	FLA	FULL LOAD AMPS
	POWER RECEPTACLE - USB/DUPLEX COMBO. DEVICE	F	FUSE
	POWER RECEPTACLE - QUADRUPLUX TYPE	G/GRD	GROUND
	POWER RECEPTACLE - RECESSED FLOOR TYPE	GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
	POWER RECEPTACLE - SPECIALTY TYPE	HOA	HAND-OFF-AUTO
	SURGE PROTECTION DEVICE	HP	HORSEPOWER
	TIME CLOCK	IG	ISOLATED GROUND
	TRANSFORMER (REFER TO SCHEDULES FOR INFO)	KV	KILOVOLT
	VARIABLE SPEED DRIVE	KVA	KILOVOLT AMPERE

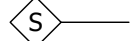
NOTES:

1. ALL DEVICE RATINGS/SIZES SHALL BE COORDINATED WITH PLANS AND SCHEDULES.

AUXILIARY SYST. SYMBOL LIST		MAIN DISTRIBUTION PANEL	
SYMBOL	DESCRIPTION		
	CAMERA	MLO	MAIN LUG ONLY
	CARD READER	MAX	MAXIMUM
	COMMUNICATIONS DEVICE - 6" ABOVE COUNTER	MIN	MINIMUM
	COMMUNICATIONS DEVICE - FLOOR	NEC	NATIONAL ELECTRICAL CODE
	COMMUNICATIONS DEVICE - WALL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
	MAGNETIC DOOR HOLDER	N/NEU	NEUTRAL
	PUSH BUTTON	NF	NON-FUSIBLE
	SPEAKER	NC	NORMALLY CLOSED
	WALL CLOCK - SINGLE FACE	NO	NORMALLY OPEN
	WALL CLOCK - DOUBLE FACE	NIC	NOT IN CONTRACT
	WALL CLOCK AND SPEAKER UNIT	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
		OF/OI	OWNER FURNISHED / OWNER INSTALLED
		PH	PHASE

NOTES:

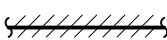
1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONDUIT FOR ALL DEVICES INDICATED.
2. LOW VOLTAGE CONTRACTOR SHALL PROVIDE EXACT SPECIFICATIONS AND LOCATIONS OF ALL DEVICES.

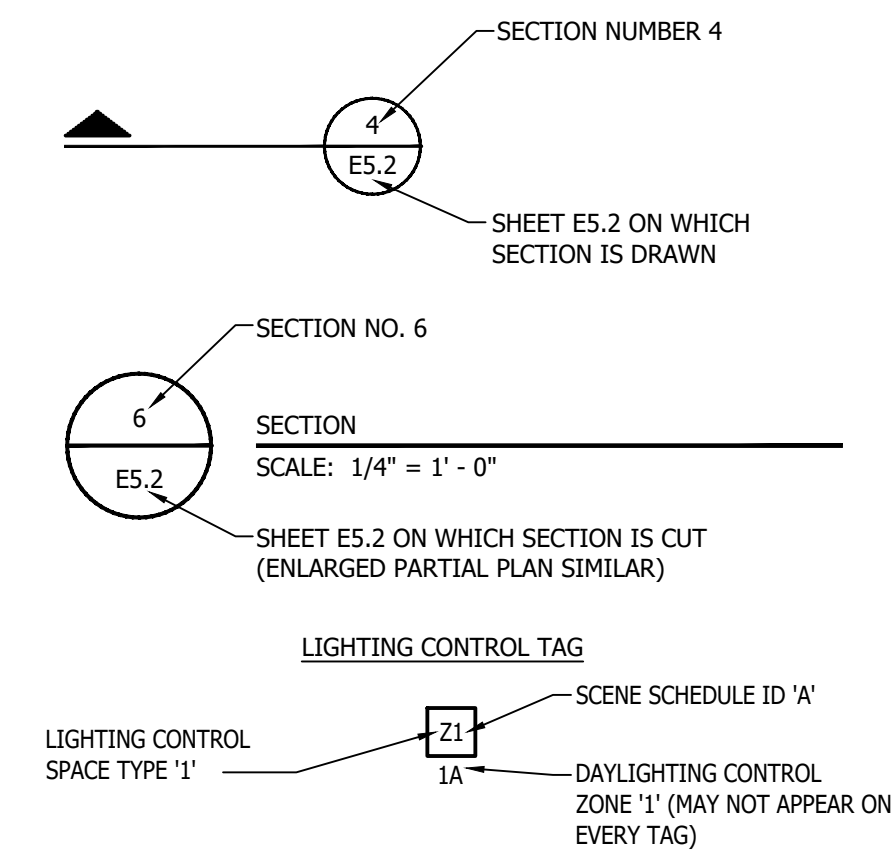
FIRE ALARM SYMBOL LIST		(RR)	REMOVE AND REINSTALL
SYMBOL	DESCRIPTION	RMC	RIGID METALLIC CONDUIT
	DETECTION DEVICE	RP	RECEPTACLE PANEL
	DETECTION DEVICE - DUCT MOUNTED	SPEC/SPECS	SPECIFICATIONS
	DETECTION DEVICE - FLOW SWITCH	TBB	TELEPHONE BACKBOARD
	DETECTION DEVICE - TAMPER SWITCH	TYP.	TYPICAL
	FIRE ALARM ANNUNCIATOR PANEL	UC	UNDER COUNTER
	FIRE ALARM CONTROL PANEL	UL	UNDERWRITERS LABORATORIES
	FIRE DEPARTMENT COMMUNICATION OUTLET	UPS	UNINTERRUPTIBLE POWER SUPPLY
	MANUAL DEVICE - PULL STATION	USB	UNIVERSAL SERIAL BUS
	NOTIFICATION DEVICE - WALL MOUNTED	V	VOLT
	NOTIFICATION DEVICE - CEILING MOUNTED	VA	VOLT AMPERE
	VISUAL NOTIFICATION DEVICE - WALL MOUNTED	W	WATT
	COMBINATION NOTIFICATION DEVICE - CEILING MOUNTED	WG	WIRE GUARD
		WP	WEATHERPROOF
NOTES:		XMR	TRANSFORMER
1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND			

NOTES:

1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

DRAWING INDEX	
SHT NO	DESCRIPTION
E0.00	ELECTRICAL GENERAL INFORMATION
E1.00	COMPOSITE ELECTRICAL FLOOR PLAN
E4.10	ENLARGED ELECTRICAL POWER NEW WORK PLAN
E5.00	ELECTRICAL DETAILS

SYMBOL	DESCRIPTION
LA	LIGHTING FIXTURE TAG
	CONSTRUCTION KEY NOTE NUMBER 1
	DEMOLITION KEY NOTE NUMBER 1
	FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE ON THIS SHEET)
EF-1	EQUIPMENT DESIGNATION, (I.E. EXHAUST FAN NUMBER 1)
—————	EXISTING DEVICES OR EQUIPMENT
—————	NEW OR MODIFIED DEVICES OR EQUIPMENT
-----	NEW OR MODIFIED UNDERGROUND WIRING
	EXISTING SYSTEM COMPONENT TO BE REMOVED



APPLICABLE CODES AND REGULATIONS	
YEAR	CODE
2021	MICHIGAN BUILDING CODE
2019	MICHIGAN ENERGY CODE
2023	MICHIGAN ELECTRICAL CODE RULES, PART 8
2023	NATIONAL ELECTRICAL CODE (NFPA 70)
2013	NATIONAL FIRE ALARM AND SIGNALING CODE, NFPA 72
2012	LIFE SAFETY CODE, NFPA 101
2013	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, NFPA 110
2009	ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES

ISSUE DATE	ISSUED FOR
08/08/2025	BIDS
DRAWN	RDL
CHECKED	RDL
APPROVED	MPH



PROJECT

Livonia Public Schools
Hydration Stations
Hayes Elementary

LIVONIA,
MICHIGAN

1 SHEET

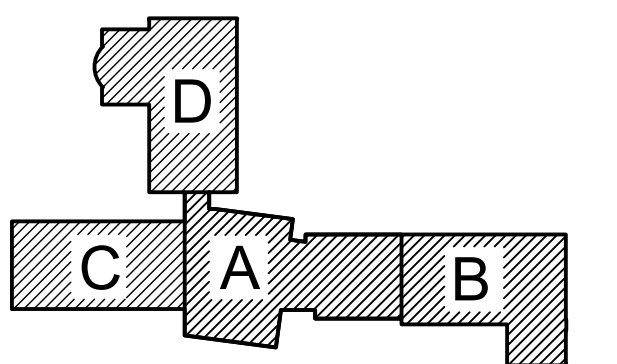
ELECTRICAL GENERAL INFORMATION

PROJECT NUMBER

2025-040

SHEET NUMBER

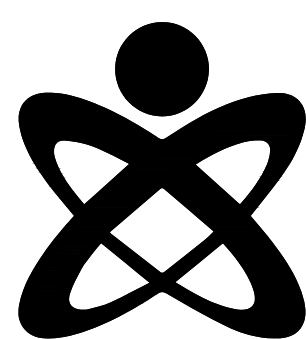
E0.00



ISSUE DATE	ISSUED FOR
08/08/2025	BIDS
DRAWN	RDL
CHECKED	RDL
APPROVED	MPH



FRENCH
2851 High Meadow Circle | Suite 100
Auburn Hills | MI 48326
248.656.1377



UNIFIED BUILDING
SYSTEMS ENGINEERING
69 S. GRATIOT AVE.
MT. CLEMENS, MI 48043
UBS PROJECT 029.25.08 - HA

PROJECT

Livonia Public Schools
Hydration Stations
Hayes Elementary

LIVONIA,
MICHIGAN

SHEET _____

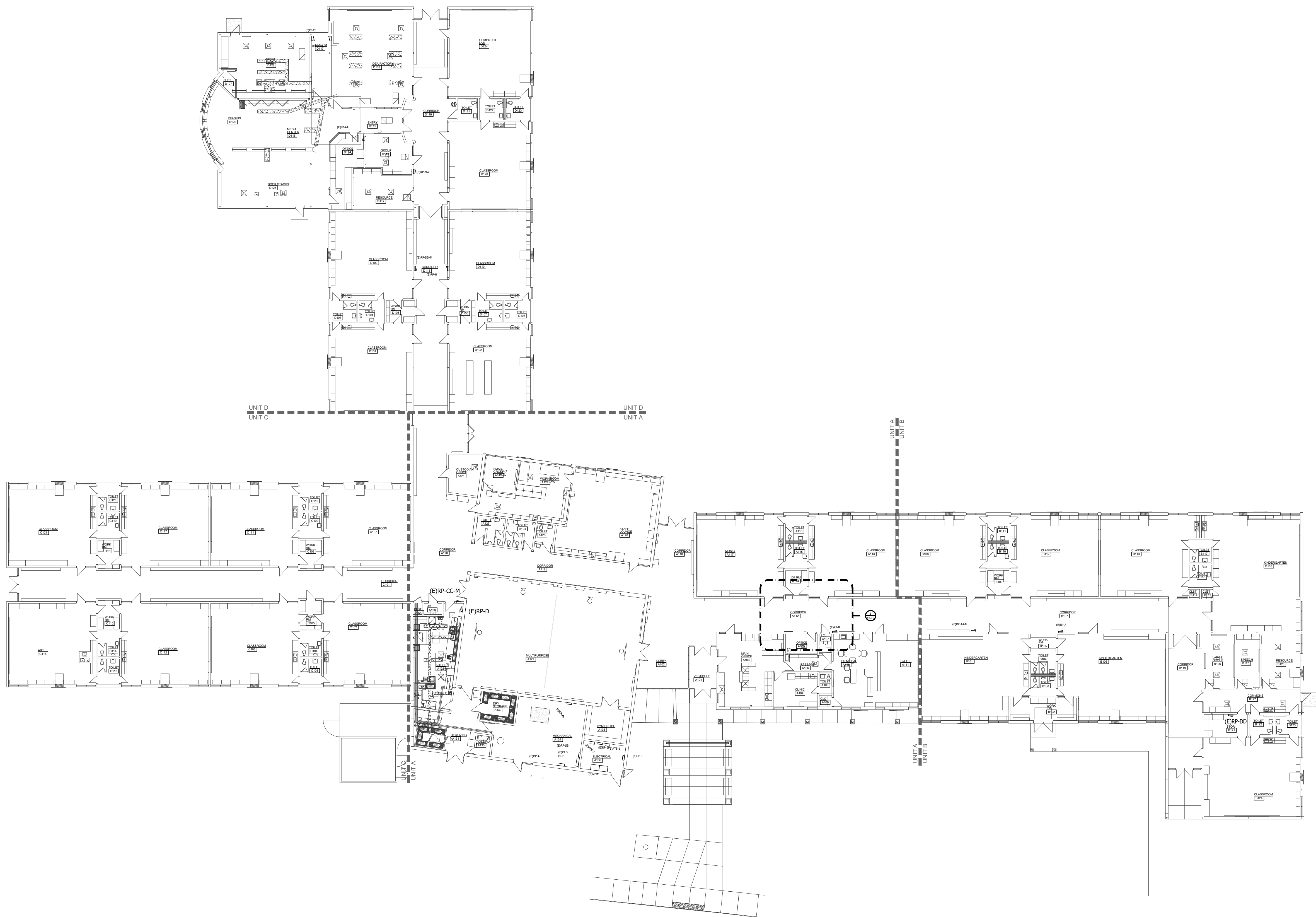
COMPOSITE ELECTRICAL FLOOR PLAN

PROJECT NUMBER

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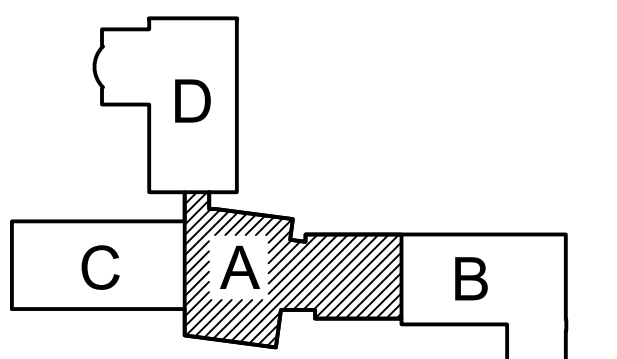
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COMPOSITE ELECTRICAL FLOOR PLAN

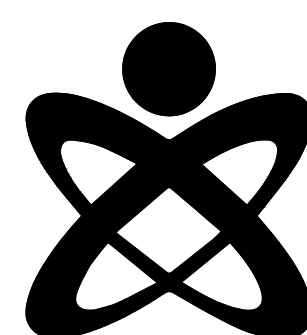
KEY PLAN



ISSUE DATE	ISSUED FOR
08/08/2025	BIDS
DRAWN	RDL
CHECKED	RDL
APPROVED	MPH



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PROJECT _____

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LIVONIA,
MICHIGAN

SHEET

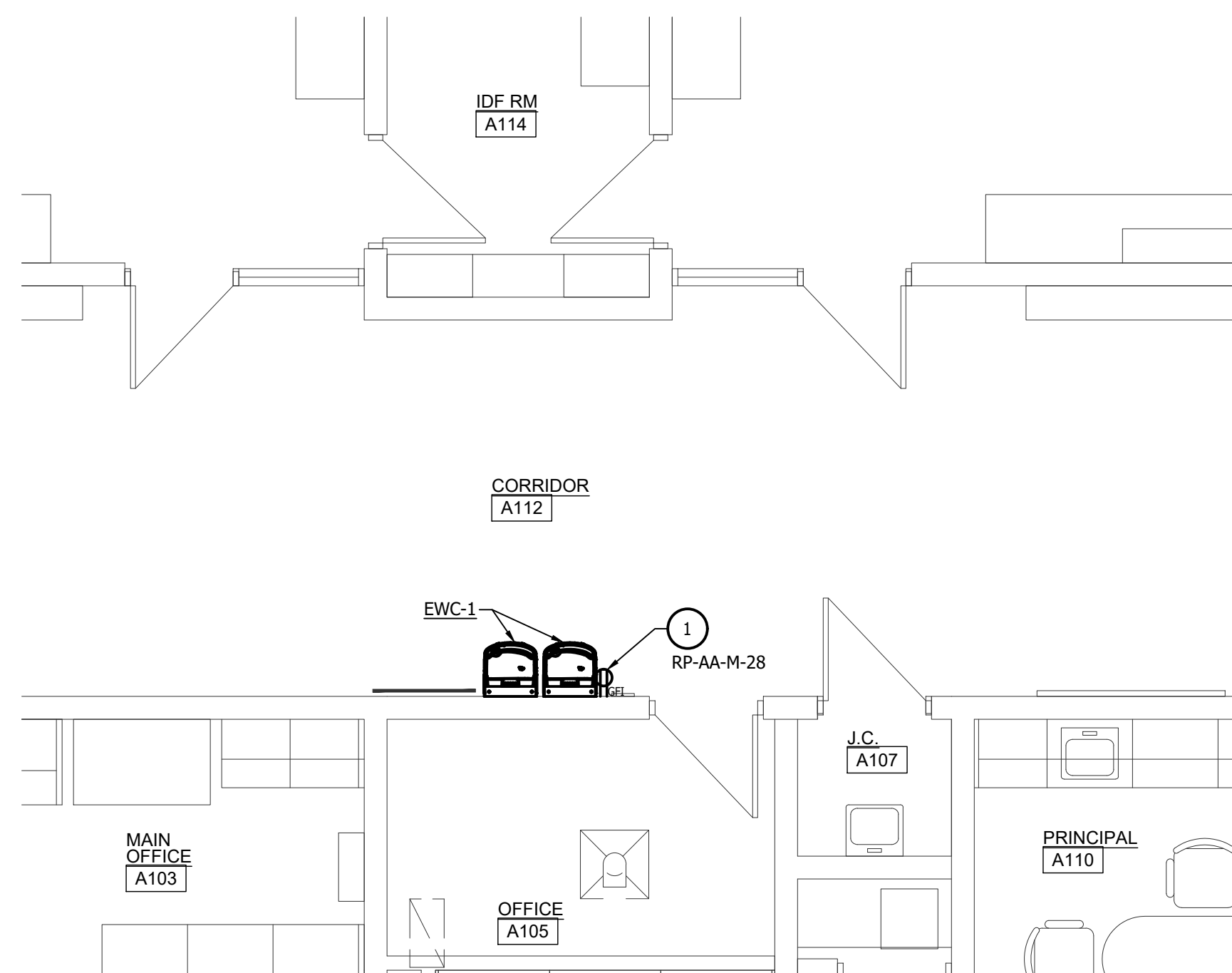
ENLARGED ELECTRICAL POWER NEW WORK PLAN

PROJECT NUMBER _____

2025-040

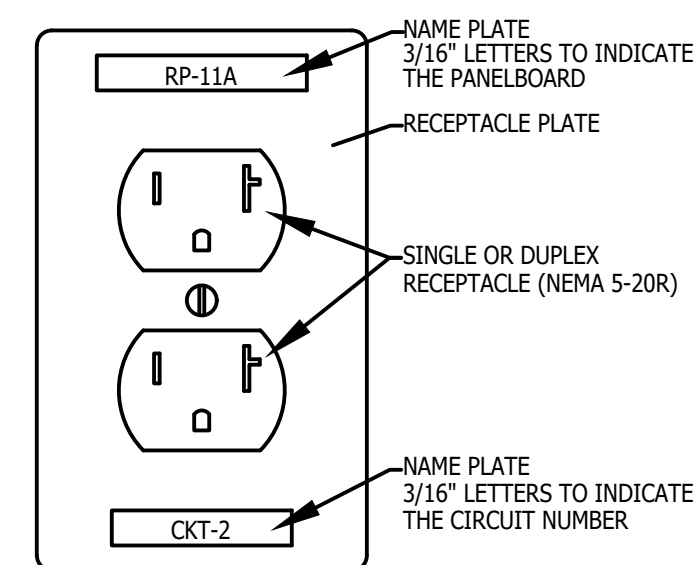
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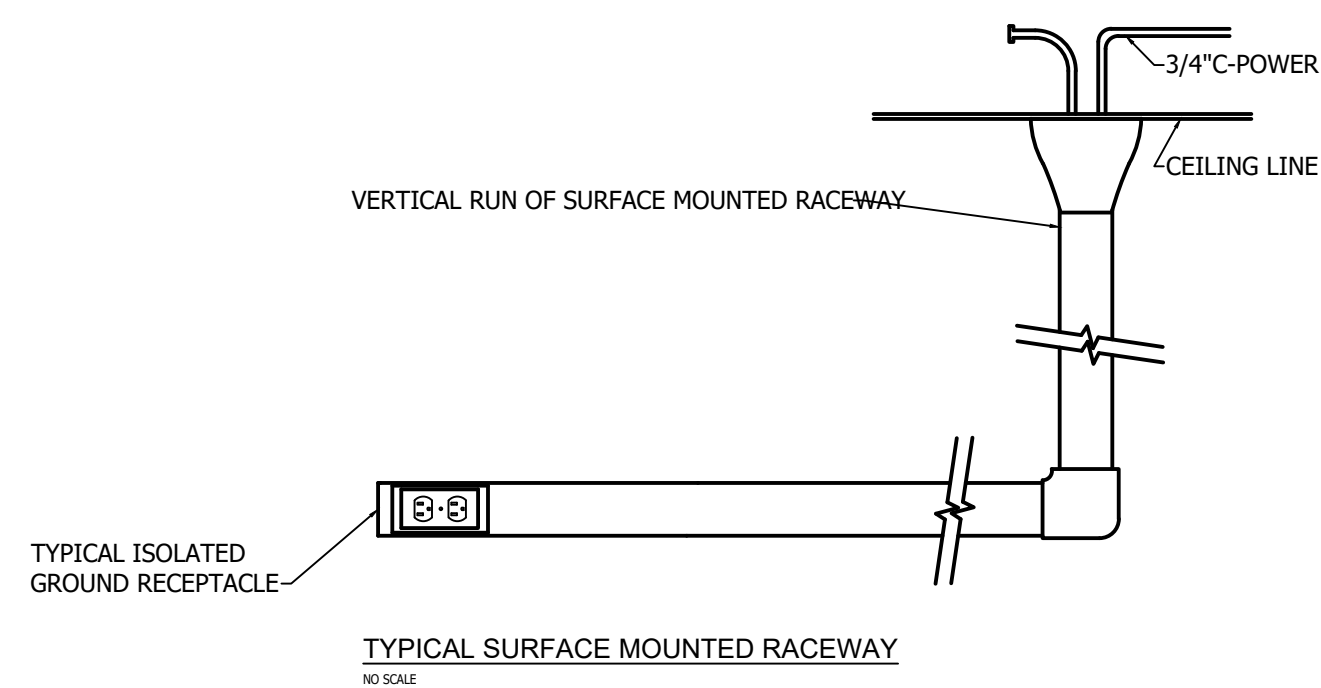


ENLARGED ELECTRICAL POWER NEW WORK PLAN - A108

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



1 DETAIL OF BRANCH CIRCUIT NUMBER
ON RECEPTACLE PLATE
NO SCALE



- NOTES:
1. SURFACE RACEWAY SHALL BE V2000 TYPE
W/ MATCHING BRACKET, COVER, PLATES ETC.
FOR A COMPLETE SYSTEM. (OR EQUAL BY WIREMOLD)
 2. SURFACE RACEWAY EQUIPMENT AND POWER OUTLETS SHALL
BE PROVIDED BY ELECTRICAL CONTRACTOR.
 3. MOUNT SURFACE RACEWAY 24" A.F.F.

2 V2000 SURFACE MOUNTED RACEWAY DETAIL