

LIVONIA PUBLIC SCHOOLS

FRANKLIN HIGH SCHOOL
POOL FILTRATION PROJECT

LIVONIA, MICHIGAN

PROJECT NO. 2025-042.2

01/08/2026

BIDS



FRENCH

LIST OF DRAWINGS

ARCHITECTURAL

A0.01	ARCHITECTURAL REFERENCE SHEET
A0.02	COMPOSITE CODE PLAN

POOL

AQ0.0	POOL REFERENCE PLAN
AQ0.0.1	UNIT Q POOL MECHANICAL ROOM DEMOLITION PLANS
AQ0.0.2	UNIT Q POOL MECHANICAL ROOM EXISTING CONDITIONS
AQ0.0.3	UNIT Q POOL MECHANICAL ROOM EXISTING CONDITIONS
AQ1.0	POOL MECHANICAL & CHEMICAL ROOM PLANS & SECTION
AQ1.1	POOL MECHANICAL DETAILS
AQ1.2	POOL MECHANICAL DETAILS
AQ1.3	POOL MECHANICAL DETAILS
AQ2.0	POOL SYSTEMS DETAILS

ELECTRICAL

E0.00	ELECTRICAL GENERAL INFORMATION
EPD2.00G	ELECTRICAL POWER DEMOLITION TUNNEL PLAN - UNIT G
EPD2.10G	ELECTRICAL POWER DEMOLITION FIRST FLOOR PLAN - UNIT G
EP2.00G	ELECTRICAL POWER NEW WORK TUNNEL PLAN - UNIT G
EP2.10G	ELECTRICAL POWER NEW WORK FIRST FLOOR PLAN - UNIT G
E5.00	ELECTRICAL DETAILS AND PANEL SCHEDULES

REFERENCE LOCATION MAP



- 1) Design Codes
 - a)2021 MICHIGAN REHABILITATION CODE (EXISTING BUILDING)
 - b)2016 SCHOOL FIRE SAFETY RULES WITH ADOPTION OF NFPA 101 LIFE SAFETY CODE 2012 EDITION
 - c)2008 MICHIGAN PLUMBING CODE
 - d)2021 MICHIGAN MECHANICAL CODE
 - e)2021 MICHIGAN UNIVERSAL ENERGY CODE
 - f)2023 MICHIGAN ELECTRICAL CODE RULES, PART 8
 - g)2023 NATIONAL ELECTRICAL CODE (NFPA 70)
 - h)2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES
- 2) DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (106.6)
 - a)A REPRESENTATIVE OF FRENCH ASSOCIATES WILL BE THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- 3) EXISTING BUILDING INFORMATION
 - a)TOTAL BUILDING = 319,090 SQUARE FEET (NO CHANGE).
 - b)THE BUILDING IS PARTIALLY SPRINKLED - PERFORMING ARTS STAGE ONLY.
 - c)TYPE OF CONSTRUCTION IS IB (II-0000 FROM SCHOOL FIRE SAFETY RULES)
 - d)USE GROUP IS OCCUPANCY E (EDUCATION)
- 4) 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 DEFINED BY THE MICHIGAN REHABILITATION CODE, THE WORK INCLUDES LEVEL 1 ALTERATIONS AND LEVEL 2 ALTERATIONS. THE WORK AREA DOES NOT EXCEEDS 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 POOL AND RELATED ELECTRICAL SYSTEMS. AS A RESULT, THE LEVEL 1 ALTERATION AREAS DO NOT QUALIFY AS REMODELING.
- 6) SECTION 7.4. ALTERATIONS-LEVEL 1
 - a)CHAPTER 702.1- NEW INTERIOR FINISHES WILL COMPLY WITH CHAPTER 8 OF THE MICHIGAN BUILDING CODE
 - i) FROM TABLE 803.9- CORRIDORS ARE CLASS B FINISHES, ROOMS ARE CLASS C FINISHES
 - ii) INTERIOR FLOOR FINISHES SHALL COMPLY WITH SECTION 804 OF MBC.

EXISTING BUILDING AREA: 319,090 SQUARE FEET

STUDENT POPULATION IS NOT CHANGING

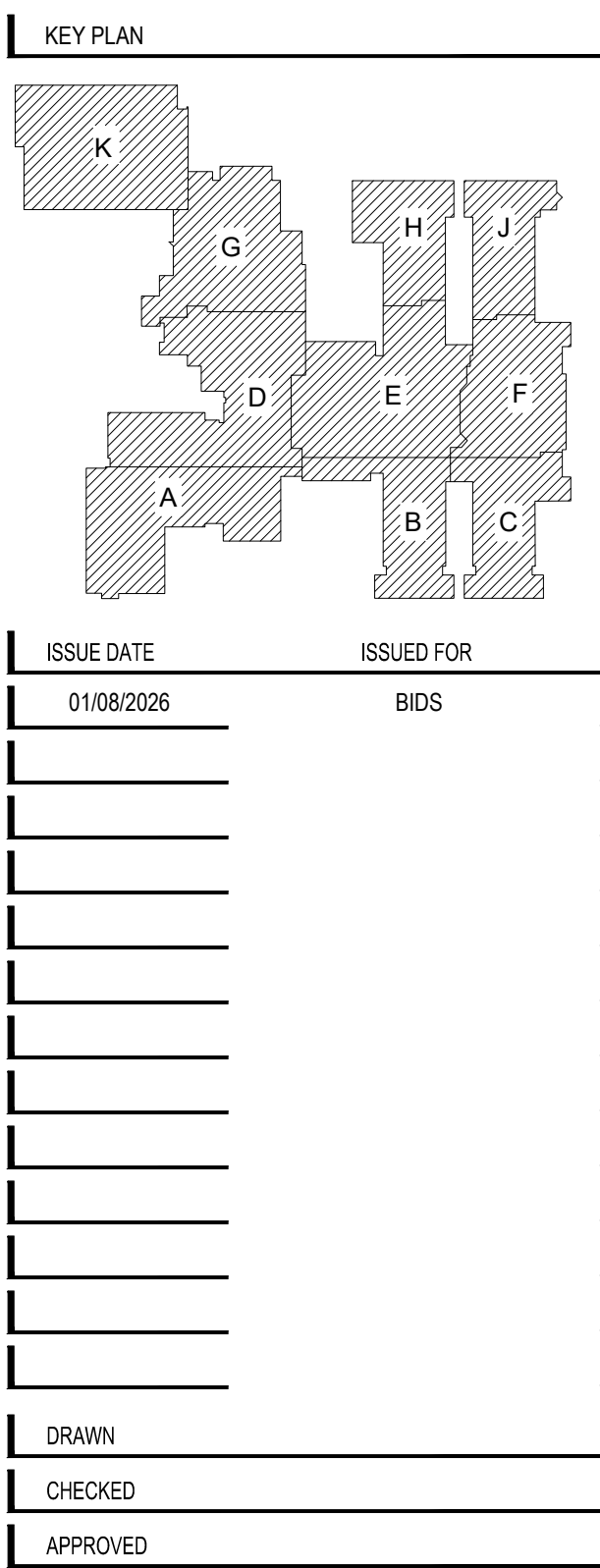
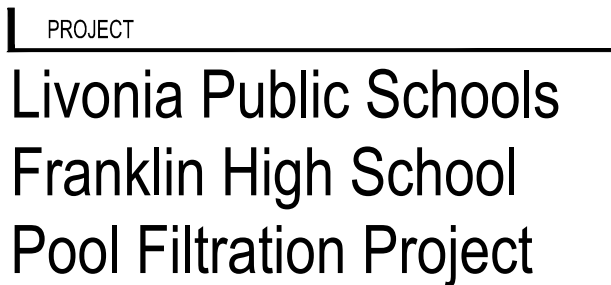
WORK AREA COMPLIANCE METHOD: LEVEL 1 ALTERATIONS

NO CHANGE OF USE

EXISTING BUILDING IS NOT SPRINKLED (EXCEPT PERFORMING ARTS AREA).

ALTERATION LEVEL 1 DESCRIPTION:

- REPLACEMENT AND UPGRADING OF EXISTING POOL EQUIPMENT SYSTEMS (INCLUDING RELATED ELECTRICAL).



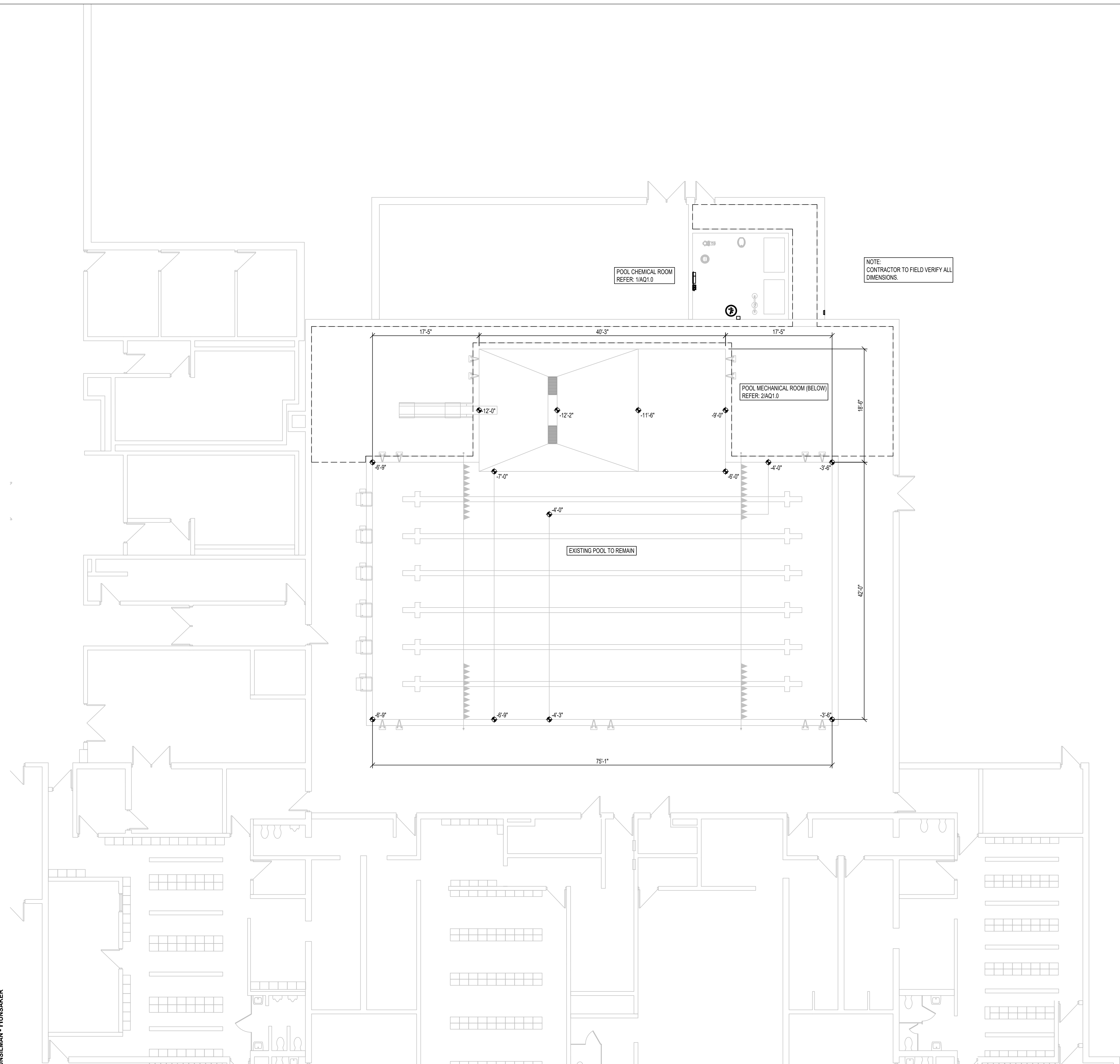
SHEET

COMPOSITE
CODE PLAN

SHEET NUMBER

A0.02





1
AQ0.0
POOL REFERENCE PLAN
1/8" = 1'-0"

DESIGN DATA		
	UNITS	COMPETITION POOL
LENGTH	FT.	VARIES
WIDTH	FT.	VARIES
WATER SURFACE AREA	SQ. FT.	3,847
PERIMETER	FT.	288'-0"
VOLUME	GALLONS	186,000
RECIRCULATION SYSTEM		
POOL TURNOVER RATE	HOURS	6.0
RECIRCULATION RATE	GPM	517
SURGE CAPACITY	GALLONS	EXISTING TO REMAIN
SEWER CAPACITY	GPM	REFER TO PLUMBING
BATHER LOAD	PERSONS	234

- GENERAL POOL NOTES
- ◆ DENOTES WATER DEPTH FROM WATER LEVEL.
 - (ALTERNATE #1) POOL FINISH TO RECEIVE ACID WASHING AND REGROUT. REFER TO SPECIFICATION 131100.
 - ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MUST BE SUBMITTED FOR APPROVAL.
 - ALL POOL REINFORCING STEEL, METAL FITTINGS, EQUIPMENT WITHIN 5'-0" OF POOL EDGE, AND ANY METAL PARTS OF POOL MECHANICAL EQUIPMENT IN CONTACT WITH THE POOL RECIRCULATION SYSTEM MUST BE BONDED PER NEC 680. REFER: 1/AQ1.2

CONTRACTOR SUPPLIED POOL CHEMICALS	
DESCRIPTION	AMOUNT
CO2	FULL BULK TANK(S) : 750 LBS

DRAWING INDEX	
SHEET	DESCRIPTION
AQ0.0	POOL REFERENCE PLAN
AQ0.1	POOL MECHANICAL & CHEMICAL ROOM DEMOLITION PLANS
AQ0.2	POOL MECHANICAL ROOM EXISTING CONDITIONS
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AQ1.2	POOL MECHANICAL DETAILS
AQ1.3	POOL MECHANICAL DETAILS
AQ2.0	POOL SYSTEMS SCHEMATIC

POOL ALTERNATES	
ALTERNATE #1 - ACID WASH THE INTERIOR POOL TILE AND RE-GROUT WITH MATERIAL COMPATIBLE WITH EXISTING FINISHES.	

K

G

H

J

D

E

F

A

B

C

ISSUE DATE

1/8/2026

ISSUED FOR

BIDS

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ZRW

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MJM

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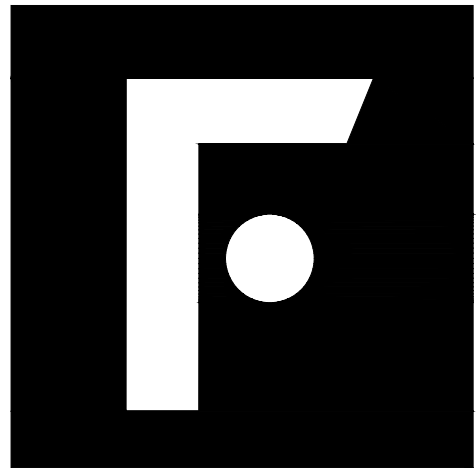
STATE OF MICHIGAN

CARL P. NYLANDER

ENGINEER

NO. 650108629

PROFESSIONAL



FRENCH

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PROJECT
Livonia Public Schools
Franklin High School
Pool Filtration Project

Livonia,
Michigan

SHEET
Unit G
POOL REFERENCE
PLAN

PROJECT NUMBER
2025-042.2

SHEET NUMBER
AQ0.0



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GENERAL POOL DEMOLITION AND RENOVATION NOTES

1.

COORDINATE ALL DEMOLITION PLANS AND WORK WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO THE START OF DEMOLITION.

2.

REVIEW RECORD DOCUMENTS OF EXISTING CONSTRUCTION PROVIDED BY THE OWNER. NEITHER THE OWNER NOR ENGINEER MAKES ANY GUARANTEE THAT THE EXISTING CONDITIONS REFLECT THOSE INDICATED IN THE RECORD DOCUMENTS. CONTRACTOR TO PROVIDE NOTIFICATION OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH DEMOLITION.

3.

CONTRACTOR TO SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR TO RECORD EXISTING CONDITIONS WITH DETAILED PRECONSTRUCTION PHOTOGRAPHS.

4.

UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF THE CONTRACTOR.

5.

EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RECYCLED, REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNERS PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM. OWNER HAS THE FIRST RIGHT OF REFUSAL ON ALL DEMOLITION MATERIALS.

6.

IF HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY THE OWNER AND ENGINEER.

7.

INDICATE RECEIPT AND ACCEPTANCE OF ANY HAZARDOUS WASTES BY A LANDFILL FACILITY LICENSED TO ACCEPT SUCH HAZARDOUS WASTES.

8.

MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. REFER TO OTHER TRADES FOR COORDINATION.

9.

ELECTRICIAN MUST VERIFY EXISTING BOND GRID. ALL NEW EMBEDS AND MECHANICAL EQUIPMENT MUST BE BONDED AND TIED TO EXISTING GRID PER NEC ARTICLE 680. REFER TO ELECTRICAL.

10.

PROTECT ALL EXISTING POOL FINISHES, GUTTERS, MAIN DRAINS, AND ANY OTHER POOL RELATED APPURTENANCES DURING CONSTRUCTION.

11.

THE CONTRACTOR MUST BE RESPONSIBLE FOR CONTINUOUSLY MONITORING GROUNDWATER LEVELS ON THE SITE DURING ANY AND ALL PERIODS WHEN THE SWIMMING POOL IS NOT FULL OF WATER. PROTECTION OF THE EXISTING POOL STRUCTURE FROM DAMAGE DUE TO HYDROSTATIC PRESSURE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

12.

CONTRACTOR TO PROVIDE AND EXECUTE APPROVED DUST CONTROL PLAN.

13.

ALL AREAS OF WORK MUST HAVE DOUBLE CONTAINMENT AND DEDICATED EXHAUST INDEPENDENT OF HVAC.

14.

CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS FOLLOWING DEMOLITION OPERATIONS. CONTRACTOR TO RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE THE START OF DEMOLITION OPERATIONS.

POOL DEMOLITION KEYNOTES

COORDINATE ALL DEMOLITION PLANS WITH ARCHITECT AND CONSTRUCTION DOCUMENTS PRIOR TO DEMOLITION

D1

REMOVE EXISTING SAND FILTERS AND FACE PIPING.
REFER: 2/AQ0.2

D2

REMOVE EXISTING RECIRCULATION PUMPS, VFD, STRAINER AND HOUSEKEEPING PADS. REFER: 1/AQ0.2 & 3/AQ0.2

D3

REMOVE EXISTING FLOW METER SENSOR

D4

REMOVE EXISTING UV CHAMBER AND CABINET.
REFER: 4/AQ0.2

D5

REMOVE EXISTING CHEMICAL CONTROLLER.
REFER: 2/AQ0.3

D6

REMOVE TWO EXISTING FISHER VALVES.
REFER: 5 & 6/AQ0.2

D7

REMOVE EXISTING FLOAT VALVE IN SURGE TANK.

D8

REMOVE MECHANICAL ROOM PIPING, VALVES, HANGERS AND SUPPORTS.

D9

REMOVE EXISTING PERISTALTIC FEED PUMP AND ANY ASSOCIATED PIPING.

FRENCH

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PROJECT

Livonia Public Schools
Franklin High School
Pool Filtration Project

Livonia,
Michigan

SHEET

Unit Q
POOL MECHANICAL
& CHEMICAL ROOM
DEMOLITION PLANS

PROJECT NUMBER

2025-042.2

SHEET NUMBER

AQ0.1

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1
AQ0.1
3/8" = 1'-0"

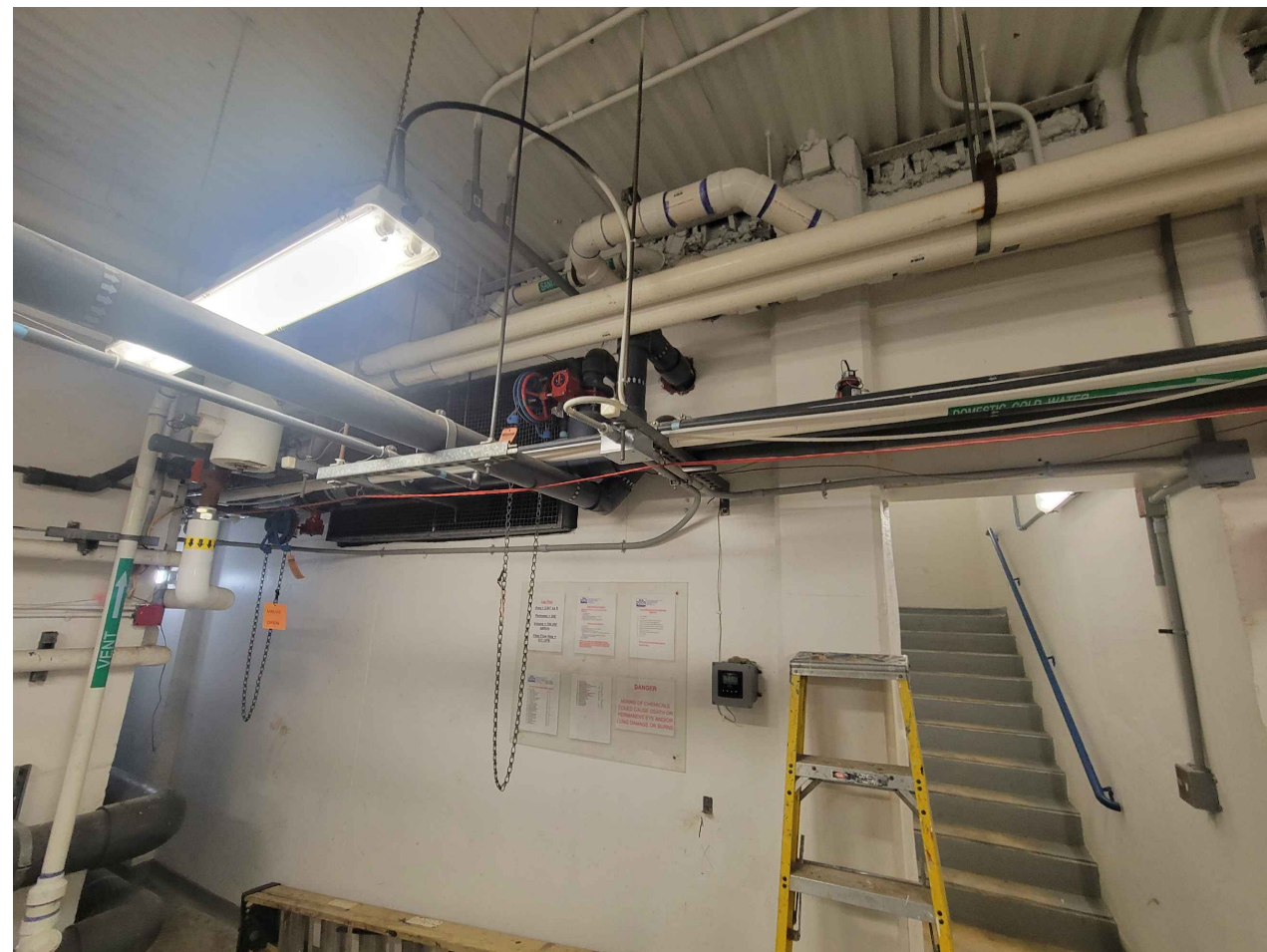
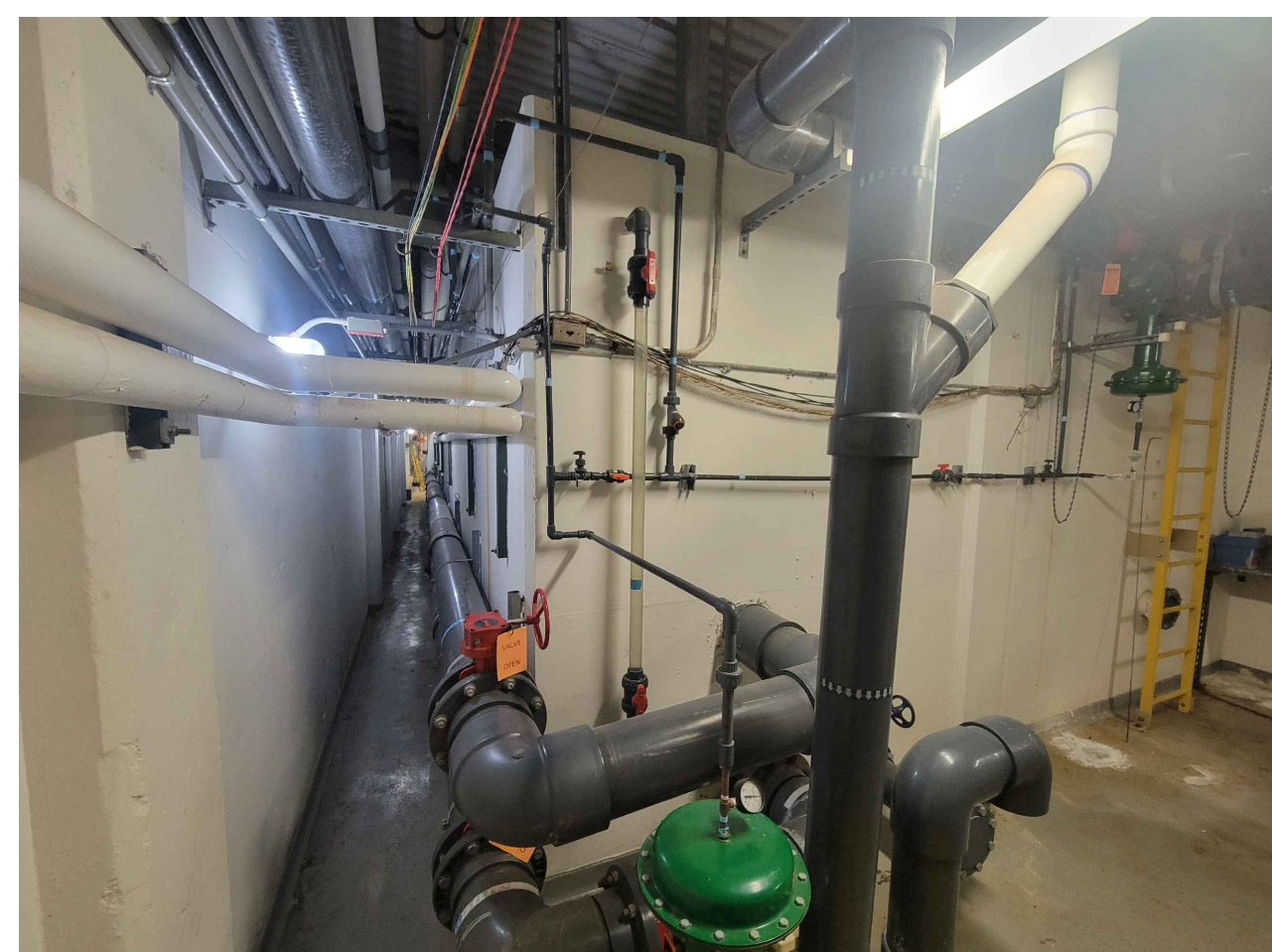
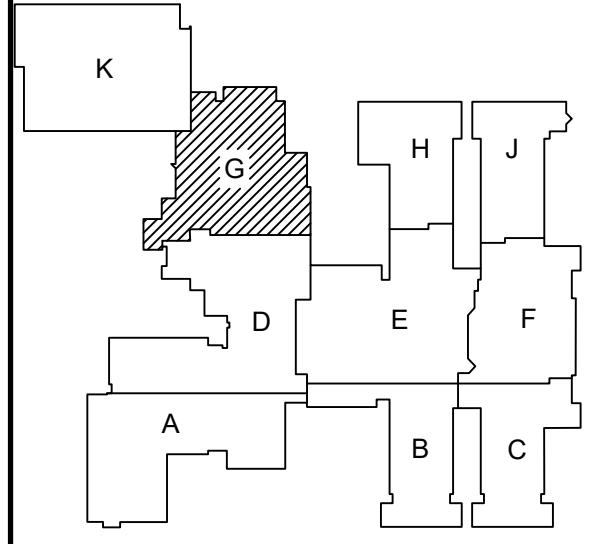
POOL CHEMICAL ROOM DEMOLITION PLAN (MAIN FLOOR)

2
AQ0.1
3/16" = 1'-0"

POOL MECHANICAL ROOM DEMOLITION PLAN (LEVEL BELOW)

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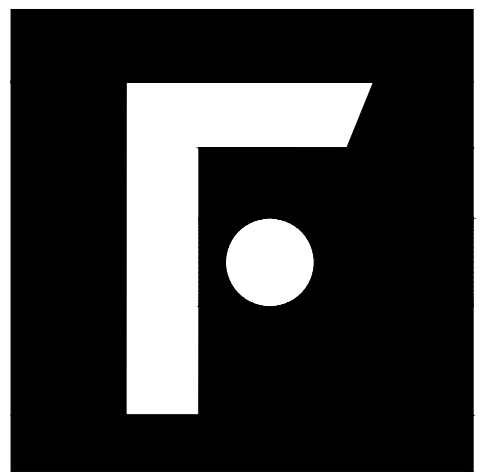


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1/8/2026	BIDS



DRAWN ZRW

APPROVED	CPN
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Franklin High School
Pool Filtration Project

Livonia,
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SHEET

Unit Q
POOL MECHANICAL
ROOM EXISTING
CONDITIONS

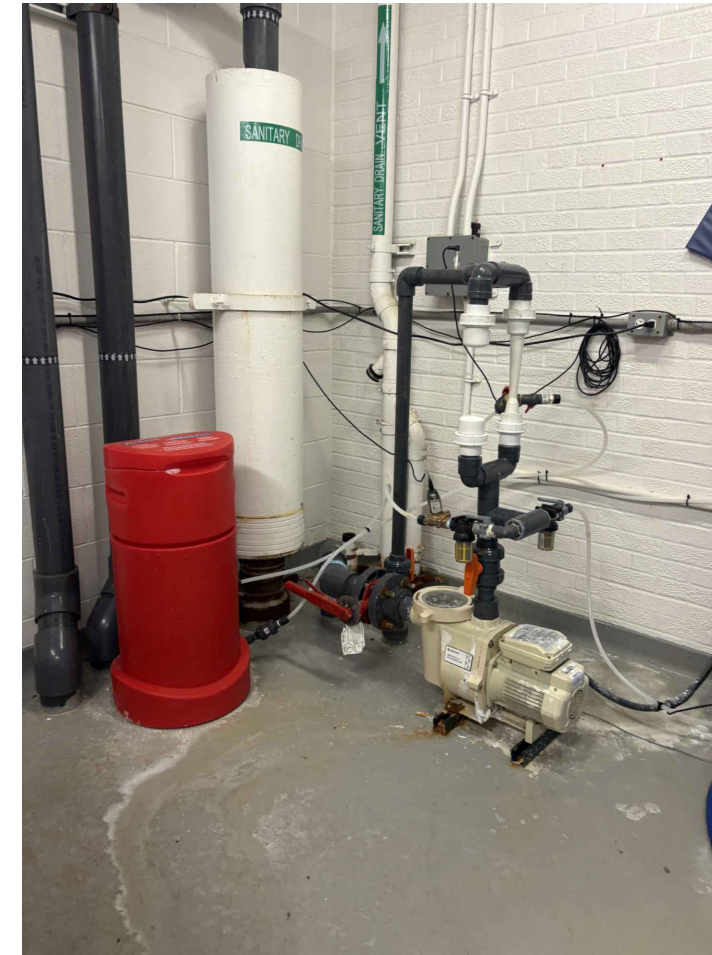
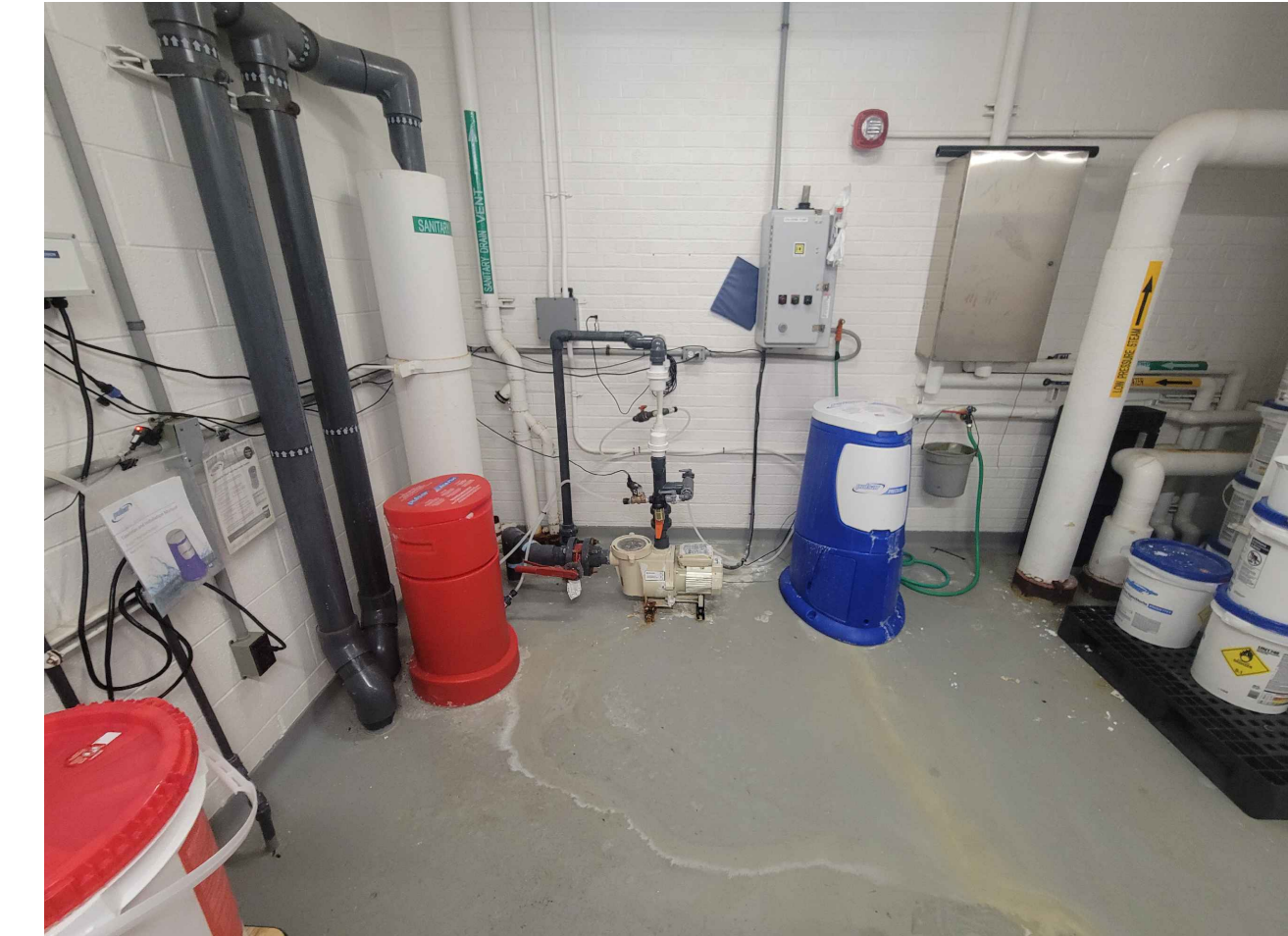
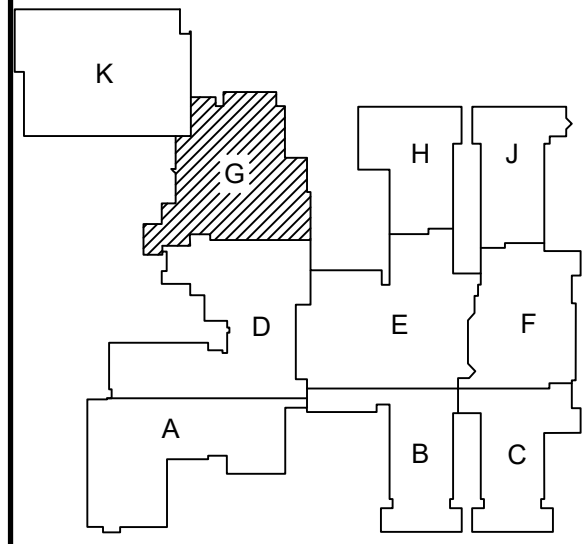
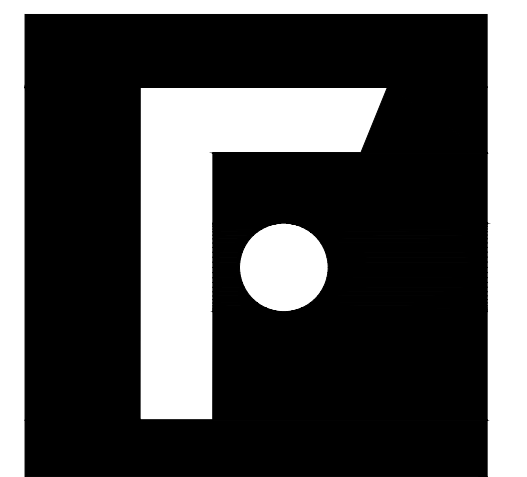
PROJECT NUMBER

2025-042.2

SHEET NUMBER

AQ0.2





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Livonia Public Schools
Franklin High School
Pool Filtration Project

Livonia,
Michigan

SHEET

Unit Q
POOL CHEMICAL
ROOM EXISTING
CONDITIONS

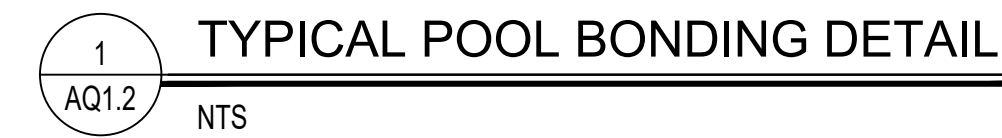
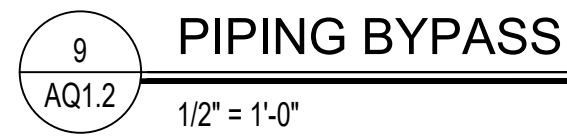
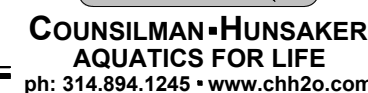
PROJECT NUMBER

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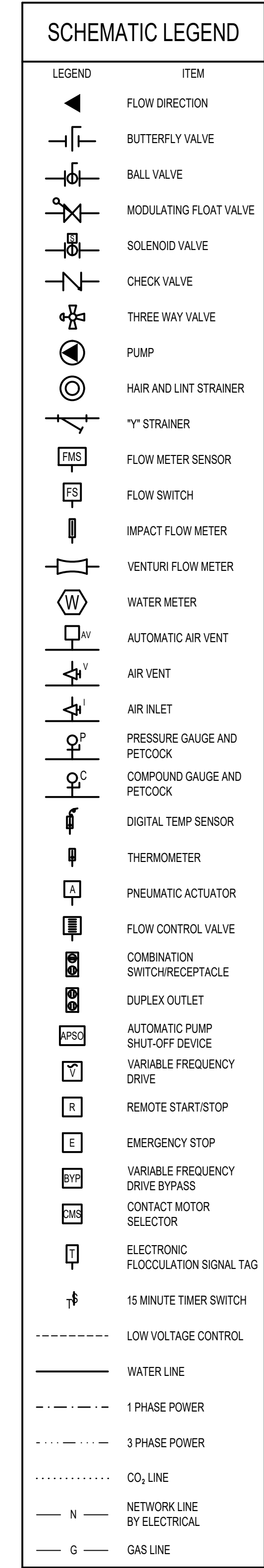
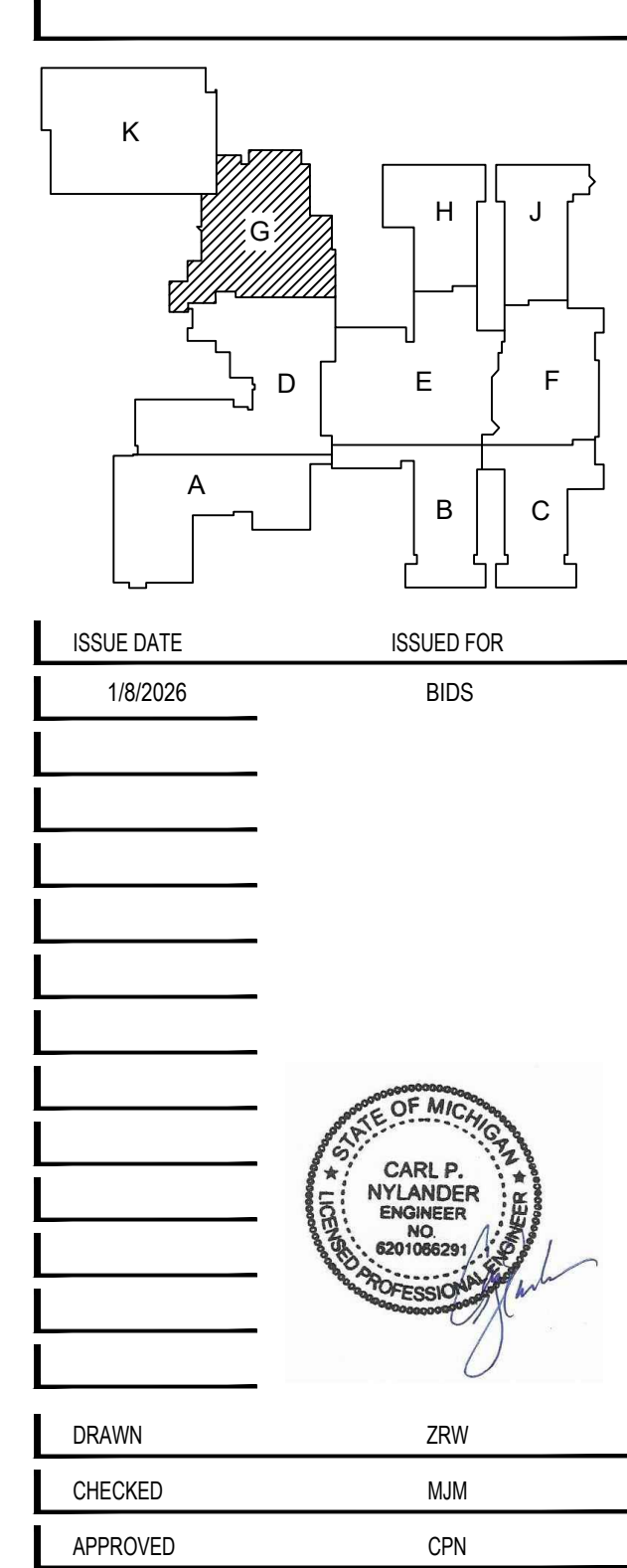
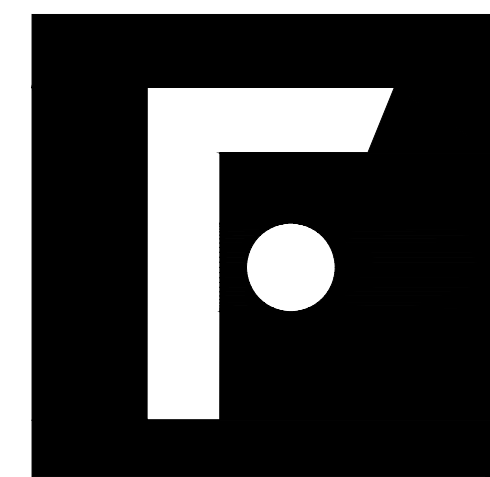
SHEET NUMBER

AQ0.3





AQ1.2



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PROJECT

Livonia Public Schools Franklin High School Pool Filtration Project

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Unit Q POOL SYSTEMS SCHEMATIC

PROJECT NUMBER
2025-042.2

SHEET NUMBER

AQ2.0

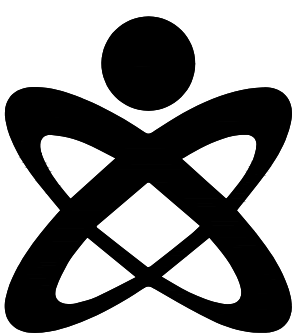




 DEMOLITION KEYED NOTES	
1	POOL CIRCULATION PUMPS REMOVED BY OTHERS. EC TO DISCONNECT AND MAKE SAFE. TAKE CONDUIT AND WIRING BACK TO SWIMMING POOL FILTER PUMP CONTROL PANEL AND PREP CIRCUIT FOR RECONNECTION TO NEW EQUIPMENT. REFER TO NEW WORK PLANS.
2	UV CHAMBER AND CABINET REMOVED BY OTHERS. EC TO DISCONNECT AND MAKE SAFE. TAKE CONDUIT AND WIRING BACK TO SOURCE. MARK SWITCH AS A SPARE.
3	SWIMMING POOL FILTER PUMP CONTROL PANEL TO BE REMOVED BY OTHERS. EC TO DISCONNECT AND MAKE SAFE. TAKE CONDUIT AND WIRING BACK TO SOURCE. PREP CIRCUIT FOR RECONNECTION TO NEW EQUIPMENT. REFER TO NEW WORK PLANS.



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UBS PROJECT 029.25.12

PROJECT

Livonia Public Schools
Franklin High School
Pool Filtration Project

Livonia,
Michigan

SHEET

ELECTRICAL POWER
DEMOLITION TUNNEL
PLAN - UNIT G

PROJECT NUMBER

2025-042.2

SHEET NUMBER

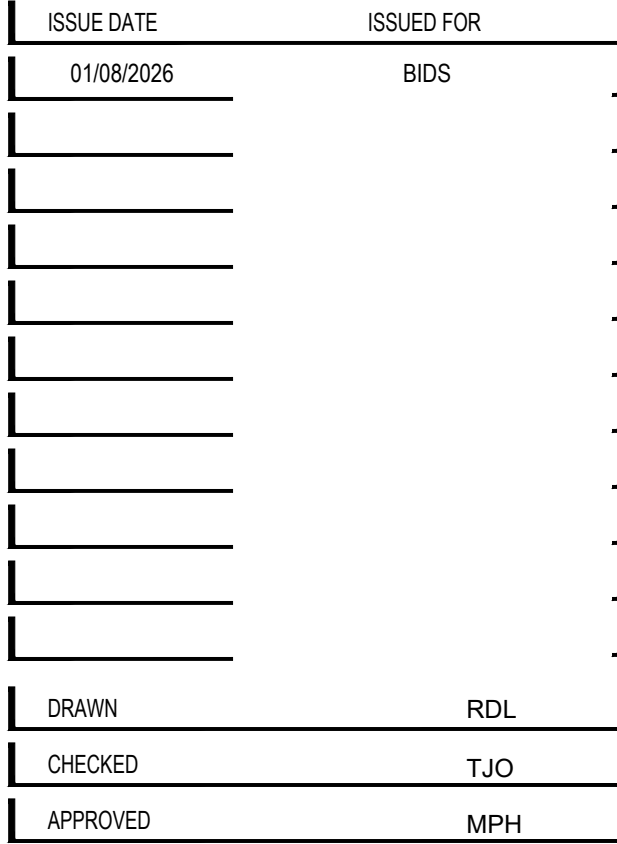
EPD2.00G



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



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1	<p>NEW CIRC PUMPS PROVIDED BY OTHERS. EC TO CONNECT TO EXISTING CIRCUIT KEPT SAFE DURING DEMOLITION. PROVIDE NEW NEMA 4X 60A 3P 480V DISCONNECT SWITCH MOUNTED ON NEW UNISTRUT SYSTEM. RUN #48, 1#10 GND IN 3/4"</p>
2	<p>NEW UV TREATMENT SYSTEM PROVIDED BY OTHERS. EC TO PROVIDE NEW 208V 1P 30A BREAKER IN PANEL R-P-P. RUN #310, 1#10 GND IN 3/4" TO CIRCUIT SHOWN. REFER TO PANEL SCHEDULES ON E5.00</p>
3	<p>ELECTRONIC FLOODLIGHT SYSTEM PROVIDED BY OTHERS. EC TO INSTALL NEW GFCI RECEPTACLE FROM SPARE 120V 20A BREAKER AS SHOWN.</p>
4	<p>ALL CONDUIT AND JUNCTION BOXES SHALL BE PVC.</p>
5	<p>UPDATE FUSES OF EXISTING 60A SWITCH WITH 40A FUSES</p>
6	<p>NEW VFD PROVIDED BY OTHERS. EC TO PROVIDE FINAL CONNECTION. RUN #48, 1#10 GND IN 3/4" FROM EXISTING SWITCH IN PP-POOL.</p>



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SHEET

ELECTRICAL POWER
NEW WORK TUNNEL
PLAN - UNIT G

PROJECT NUMBER

SHEET NUMBER

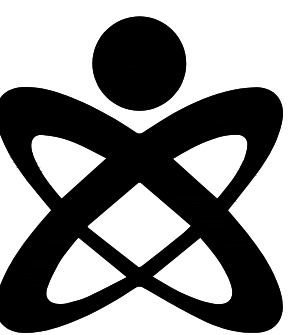
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1	CHEMICAL CONTROLLER PROVIDED BY OTHERS. PROVIDE ALL FINAL CONNECTIONS. RECONNECT TO EXISTING CIRCUIT KEPT SAFE DURING DEMOLITION.



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Livonia,
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SHEET

ELECTRICAL POWER
NEW WORK FIRST
FLOOR PLAN - UNIT G

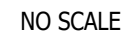
PROJECT NUMBER

2025-042.2

SHEET NUMBER

EP2.10G

PARTS SPECIFIED IN 680(B)(1) - (B)(7)
TO BE BONDED TOGETHER USING:
SOLID COPPER CONDUCTORS, INSULATED COVERED, OR BARE, NOT SMALLER THAN 8 AWG
RIGID METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION-RESISTANT METAL



ISSUE DATE	ISSUED FOR
01/08/2026	BIDS
DRAWN	RDL
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APPROVED	MPH



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E5.00