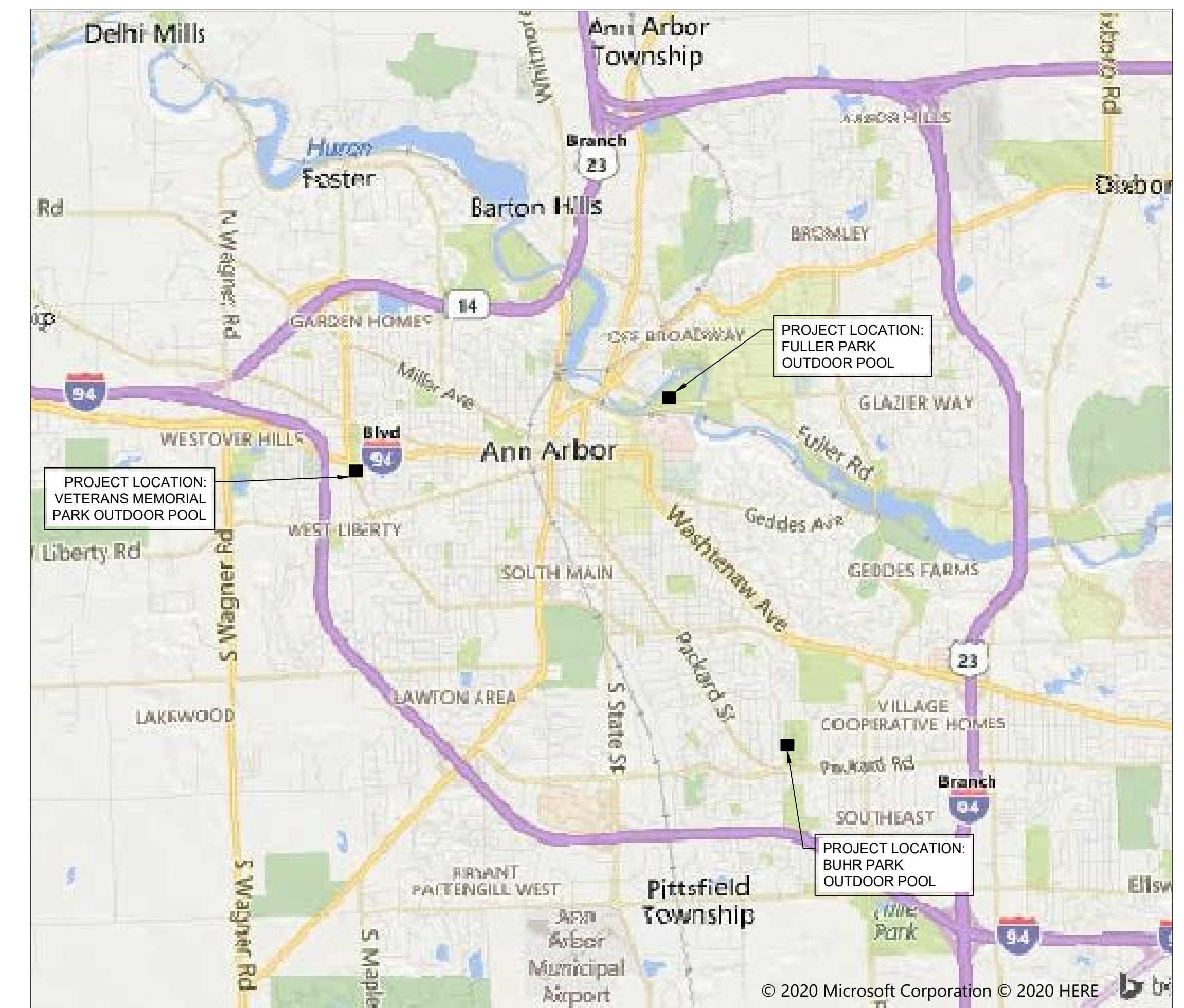


CITY OF ANN ARBOR

OUTDOOR POOL ULTRAVIOLET DISINFECTION IMPROVEMENTS



PROJECT LOCATION MAPS
NOT TO SCALE

DRAWING INDEX		
DRAWING	NUMBER	TITLE
G-001	01	COVER SHEET
G-002	02	GENERAL NOTES
P-101	03	VETERANS MEMORIAL PARK UV DISINFECTION PLAN
P-102	04	BUHR PARK UV DISINFECTION PLAN
P-103	05	FULLER PARK UV DISINFECTION PLAN

ITB NO. 4652

BID SET

NOVEMBER, 2020

PROJECT NUMBER: 2075153700



Stantec Consulting Michigan Inc.
3754 Ranchero Drive
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www.stantec.com

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Consultant

Notes

DEMOLITION NOTES
GENERAL
1. ALL WORK SHALL MEET AND BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CITY, STATE AND FEDERAL CODES.
2. IF CONTRACTOR IS UNSURE IF AN ITEM IS TO BE REMOVED OR NOT, VERIFY WITH OWNER AND/OR ENGINEER BEFORE PROCEEDING. EQUIPMENT REMOVED THAT WAS NOT TO BE, WILL BE REINSTALLED BACK TO ITS ORIGINAL WORKING CONDITION AT THE CONTRACTOR'S OWN EXPENSE.
...
ELECTRICAL
1. THE REMOVAL OF EQUIPMENT SHALL INCLUDE ALL ASSOCIATED WIRING, RACEWAYS, ETC. UNLESS OTHERWISE NOTED.
...
MECHANICAL
1. PIPING AND EQUIPMENT TO BE REMOVED ARE INDICATED ON. REMOVE ITEMS AS INDICATED AND AS REQUIRED TO ACCOMMODATE THE NEW WORK.

ELECTRICAL NOTES
GENERAL
1. ALL NECESSARY NEW ELECTRICAL EQUIPMENT REQUIRED FOR THE WORK PROPOSED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE AS BEING PROVIDED BY THE OWNER. ALL ELECTRICAL DEVICES, THE INTERCONNECTING WIRING AND RACEWAY TO ALL ELECTRICALLY OPERATED DEVICES AND THE ASSOCIATED TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE WITHIN THE PROJECT DOCUMENTS.
...
17. TESTS SHALL BE PERFORMED AND THE SYSTEM REVIEWED BY THE ENGINEER FOR ACCEPTABILITY BEFORE ANY WORK IS COVERED UP OR CONCEALED. IF SUCH WORK IS CONCEALED, IT SHALL BE RE-OPENED SO THAT THE TEST MAY BE PERFORMED.

NEW WORK GENERAL NOTES
1. ALL NEW WORK SHALL MEET AND BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CITY, STATE AND FEDERAL CODES.
2. ALL NEW MATERIALS INCLUDING FASTENERS, HARDWARE, STRAPS, SUPPORTS, BOLTS, NUTS, INSERTS, HANGERS, ETC. SHALL BE 304 STAINLESS STEEL.
...
8. DRAWINGS ARE SCHEMATIC IN NATURE AND ARE TO CONVEY DESIGN INTENT ONLY. REQUIRED OFFSETS, FITTINGS AND GENERAL INSTALLATION REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

Table with columns for revision number, description, and dates. Includes entries for 'REVISED BID SET' and 'ISSUED'.

Permit/Seal

811 logo with text 'Know what's below. Call before you dig.' and a note about underground utilities.

Client/Project
CITY OF ANN ARBOR

OUTDOOR POOL ULTRAVIOLET
DISINFECTION IMPROVEMENTS

Ann Arbor, Michigan

Title

GENERAL NOTES

Project No. 2075153700 Scale

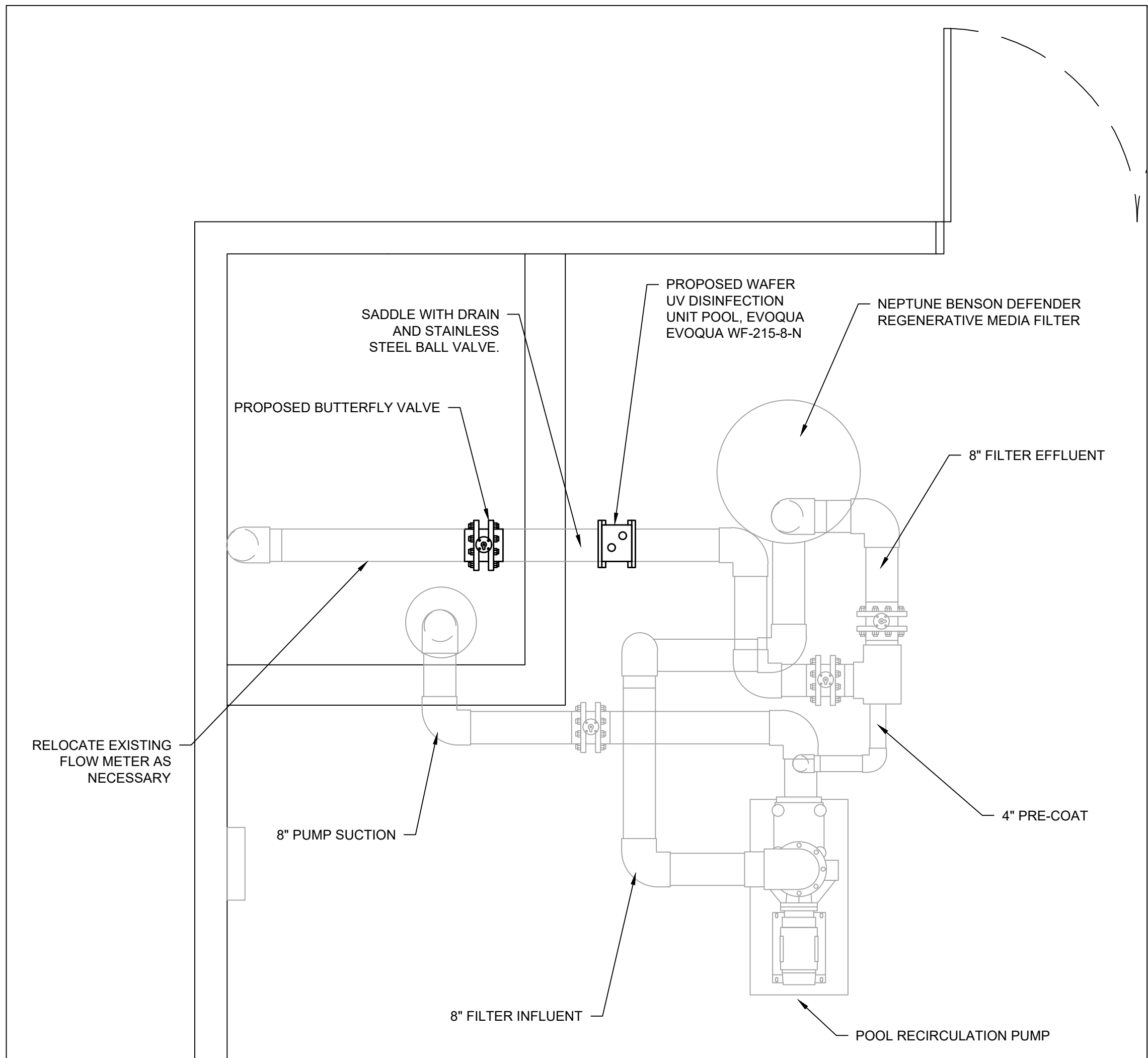
Revision Sheet 0 2 of 5 Drawing No. G-002

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE TO INSTALL NEW PIPING AS NECESSARY TO ACCOMMODATE THE PROPOSED UV CHAMBER AND SHALL INSTALL SUPPORTS FOR THE PIPING AND EQUIPMENT.
2. EXISTING PIPING LAYOUT IS SCHEMATIC AND NOT ALL PIPES, FITTINGS AND VALVES ARE SHOWN FOR CLARITY. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD DIMENSIONS PRIOR TO ORDERING EQUIPMENT.
3. ALL PIPE MATERIALS, VALVE MATERIALS, AIR RELEASE VALVES, AND OTHER MANUFACTURER REQUIRED EQUIPMENT SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. CONTRACTOR SHALL ROUTE DRAIN PIPING FOR POSITIVE DRAINAGE.
5. CONTRACTOR SHALL INSTALL AN EZ STRAINER DOWNSTREAM OF THE PROPOSED UV CHAMBER LOCATION. FINAL LOCATION SHALL BE APPROVED BY THE OWNER.
6. CONTRACTOR REQUIRED TO PERFORM ALL NECESSARY ELECTRICAL WORK FOR THE INSTALLATION OF THE NEW UV DISINFECTION SYSTEM, INCLUDING BUT NOT LIMITED TO:
- INSTALL NEW BREAKER IN LIGHTING PANEL LP-A IN ACCORDANCE WITH THE SPECIFICATIONS.
- INSTALL NEW CONDUIT AND CONDUCTORS FROM THE BREAKER PANEL TO THE CONTROL PANEL.
- INSTALL CONDUIT AND CONDUCTORS FROM THE CONTROL PANEL TO THE UV DISINFECTION UNIT.
7. CONTRACTOR SHALL BOND THE UV DISINFECTION UNIT PER NATIONAL, STATE AND LOCAL ELECTRICAL CODE REQUIREMENTS.

UV DISINFECTION UNIT NOTES:

1. ALL VALVES UPSTREAM AND DOWNSTREAM OF THE UV CHAMBER SHALL HAVE A STAINLESS STEEL DISC AND NOT BE COATED IN A POLYMER MATERIAL.
2. ANY ELBOWS WITHIN 20' OF THE UV CHAMBER SHALL BE STAINLESS STEEL.
3. ALL PIPEWORK WITHIN 40' OF THE UV CHAMBER ON 6" OR LARGER PIPING AND WITHIN 20' OF THE UV CHAMBER ON 4" PIPING SHALL BE UNPLASTICIZED PVC.



DETAILED PLAN VIEW
SCALE: 1/2" = 1'-0"



EXISTING POOL DISCHARGE PIPING

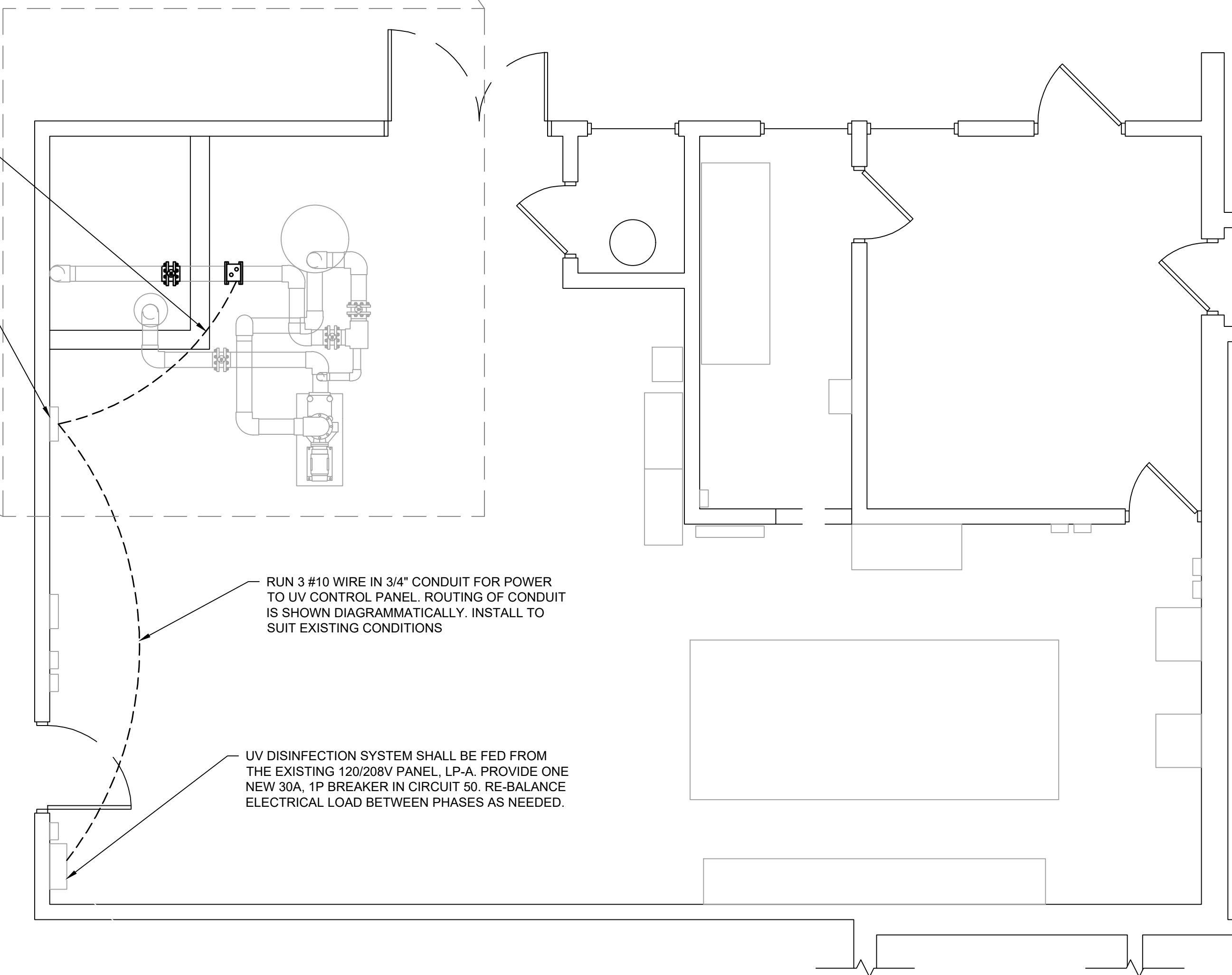


EXISTING POOL FILTER PIPING

REMOVE AND REPLACE PIPING AS NECESSARY TO INSTALL PROPOSED UV CHAMBER

UV DISINFECTION UNIT CABLING PER MANUFACTURERS RECOMMENDATIONS

UV CONTROL PANEL, RELOCATE EXISTING SWITCHES AND OUTLETS AS NECESSARY TO ACCOMMODATE PANEL.



DETAILED PLAN VIEW
SCALE: 1/4" = 1'-0"

2	REVISED BID SET	CE	JE	2020.12.08
1	BID SET	CE	JE	2020.11.24
Issued		By	Appd	YYYY.MM.DD
File Name:	153700P-101	JDA	CJE	CJE
		Dwn.	Dgdn.	Chwd.
				YYYY.MM.DD

Permit/Seal

NOTE:
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS DIG PRIOR TO CONSTRUCTION.

Client/Project
CITY OF ANN ARBOR

OUTDOOR POOL ULTRAVIOLET DISINFECTION IMPROVEMENTS
Ann Arbor, Michigan

Title
VETERANS MEMORIAL PARK
OUTDOOR POOL
UV DISINFECTION PLAN

Project No.	Scale
2075153700	
Revision	Sheet
0	3 of 5
P-101	

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE TO INSTALL NEW PIPING AS NECESSARY TO ACCOMMODATE THE PROPOSED UV CHAMBER AND SHALL INSTALL SUPPORTS FOR THE PIPING AND EQUIPMENT.
- EXISTING PIPING LAYOUT IS SCHEMATIC AND NOT ALL PIPES, FITTINGS AND VALVES ARE SHOWN FOR CLARITY. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD DIMENSIONS PRIOR TO ORDERING EQUIPMENT.
- ALL PIPE MATERIALS, VALVE MATERIALS, AIR RELEASE VALVES, AND OTHER MANUFACTURER REQUIRED EQUIPMENT SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL ROUTE DRAIN PIPING FOR POSITIVE DRAINAGE.
- CONTRACTOR SHALL INSTALL AN EZ STRAINER DOWNSTREAM OF THE PROPOSED UV CHAMBER LOCATION. FINAL LOCATION SHALL BE APPROVED BY THE OWNER.
- CONTRACTOR REQUIRED TO PERFORM ALL NECESSARY ELECTRICAL WORK FOR THE INSTALLATION OF THE NEW UV DISINFECTION SYSTEM, INCLUDING BUT NOT LIMITED TO:
 - INSTALL NEW BREAKER IN LIGHTING PANEL LP-A IN ACCORDANCE WITH THE SPECIFICATIONS.
 - INSTALL NEW CONDUIT AND CONDUCTORS FROM THE BREAKER PANEL TO THE CONTROL PANEL.
 - INSTALL CONDUIT AND CONDUCTORS FROM THE CONTROL PANEL TO THE UV DISINFECTION UNIT.
- CONTRACTOR SHALL BOND THE UV DISINFECTION UNIT PER NATION, STATE AND LOCAL ELECTRICAL CODE REQUIREMENTS.

2	REVISED BID SET	CE	JE	2020.12.08
1	BID SET	CE	JE	2020.11.24
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File Name:	153700P-102	JDA	CJE	CJE
		Dwn.	Dgri.	Chkd.
				YYYY.MM.DD

Permit/Seal

Client/Project
CITY OF ANN ARBOR

OUTDOOR POOL ULTRAVIOLET
DISINFECTION IMPROVEMENTS

Ann Arbor, Michigan

Title

BUHR PARK
OUTDOOR POOL
UV DISINFECTION PLAN

Project No. 2075153700

Revision Sheet 0

Drawing No. P-102

Scale

4 of 5

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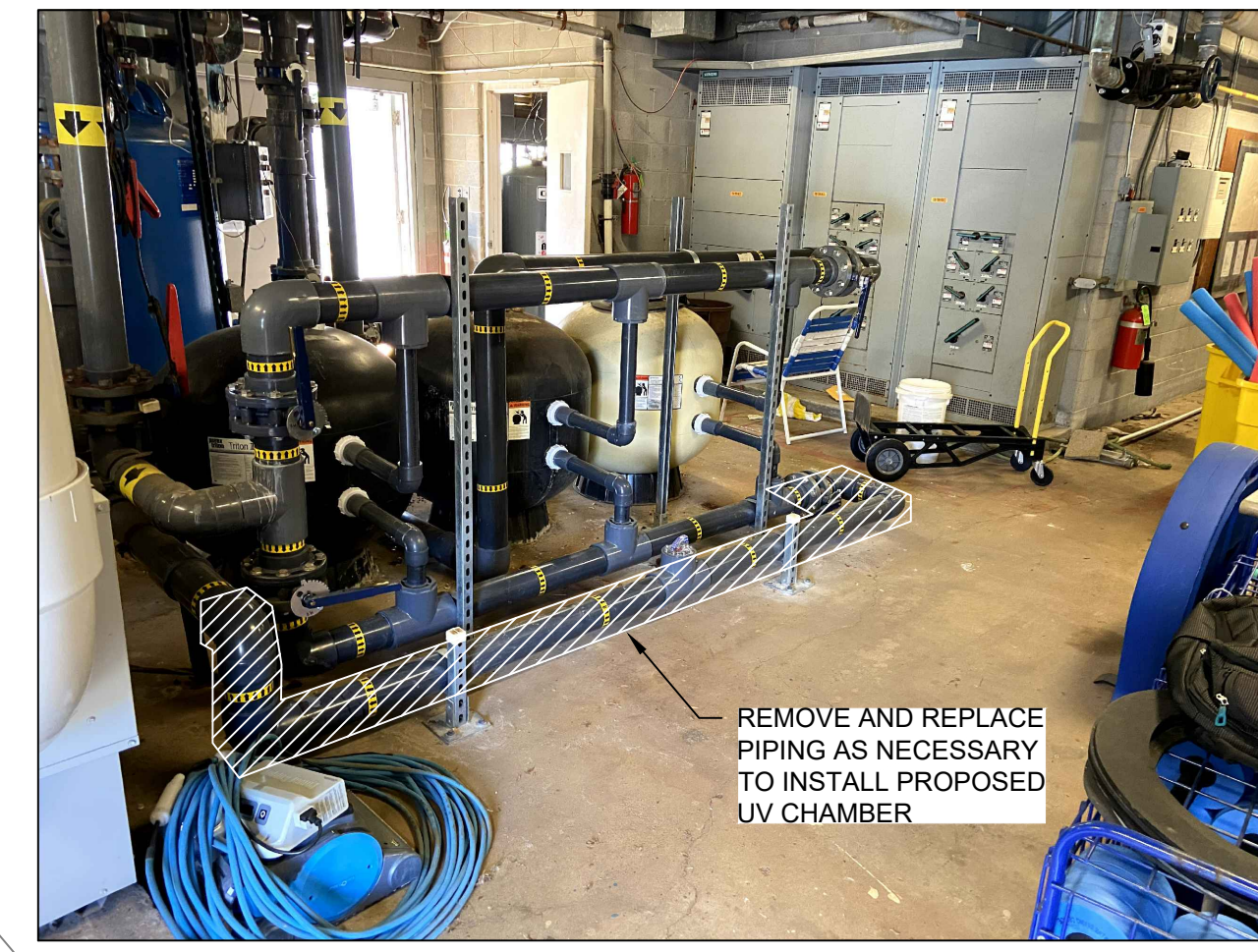
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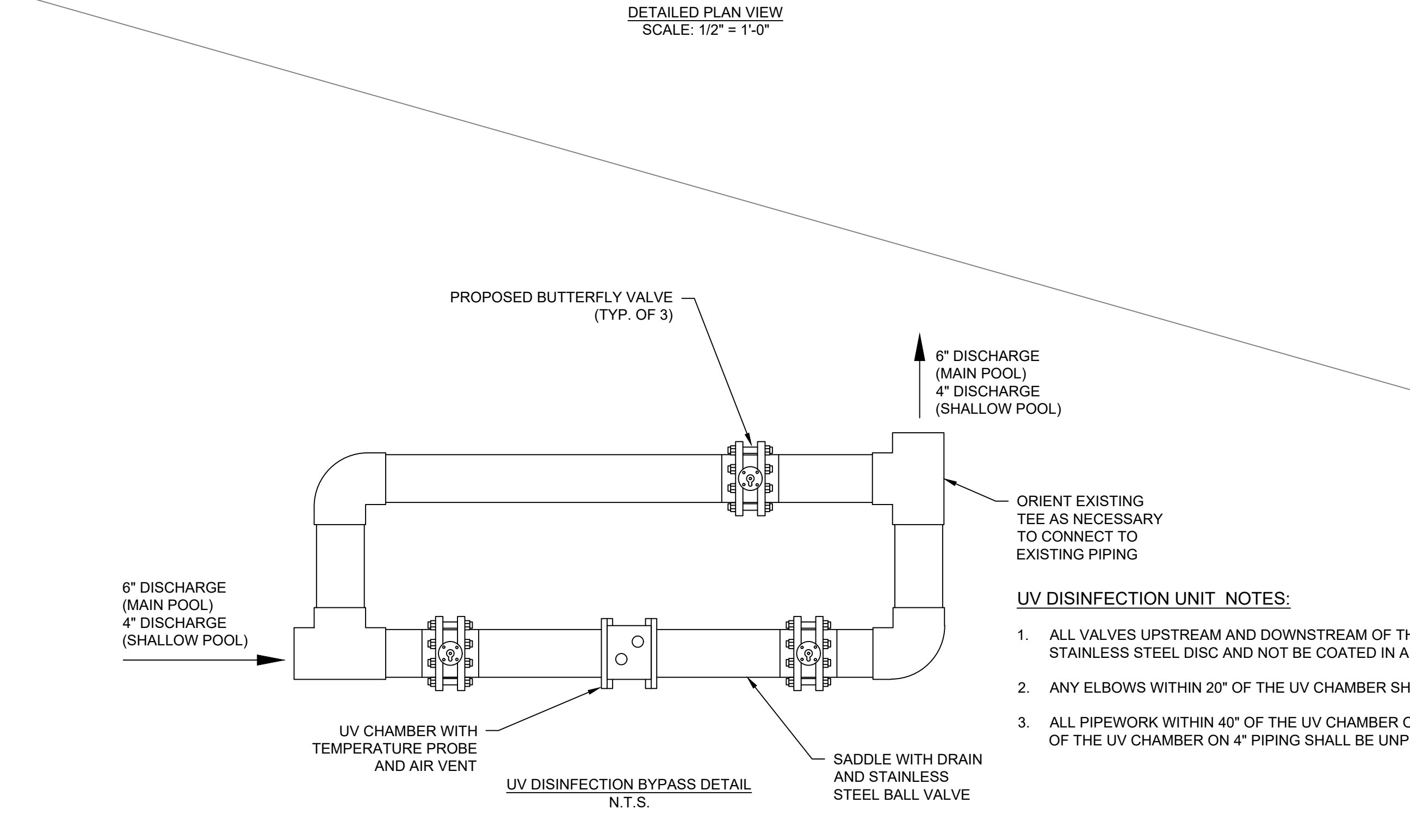
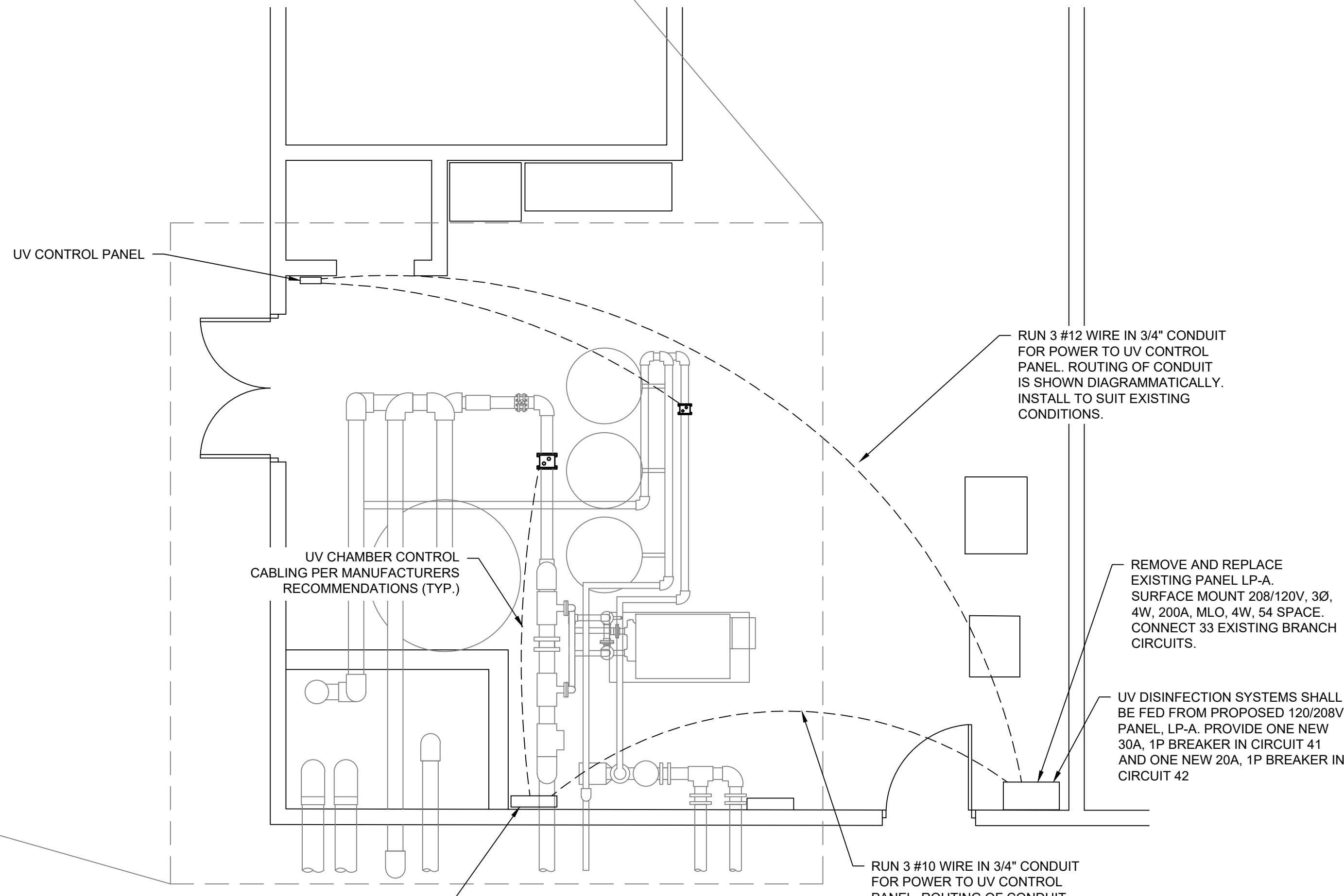
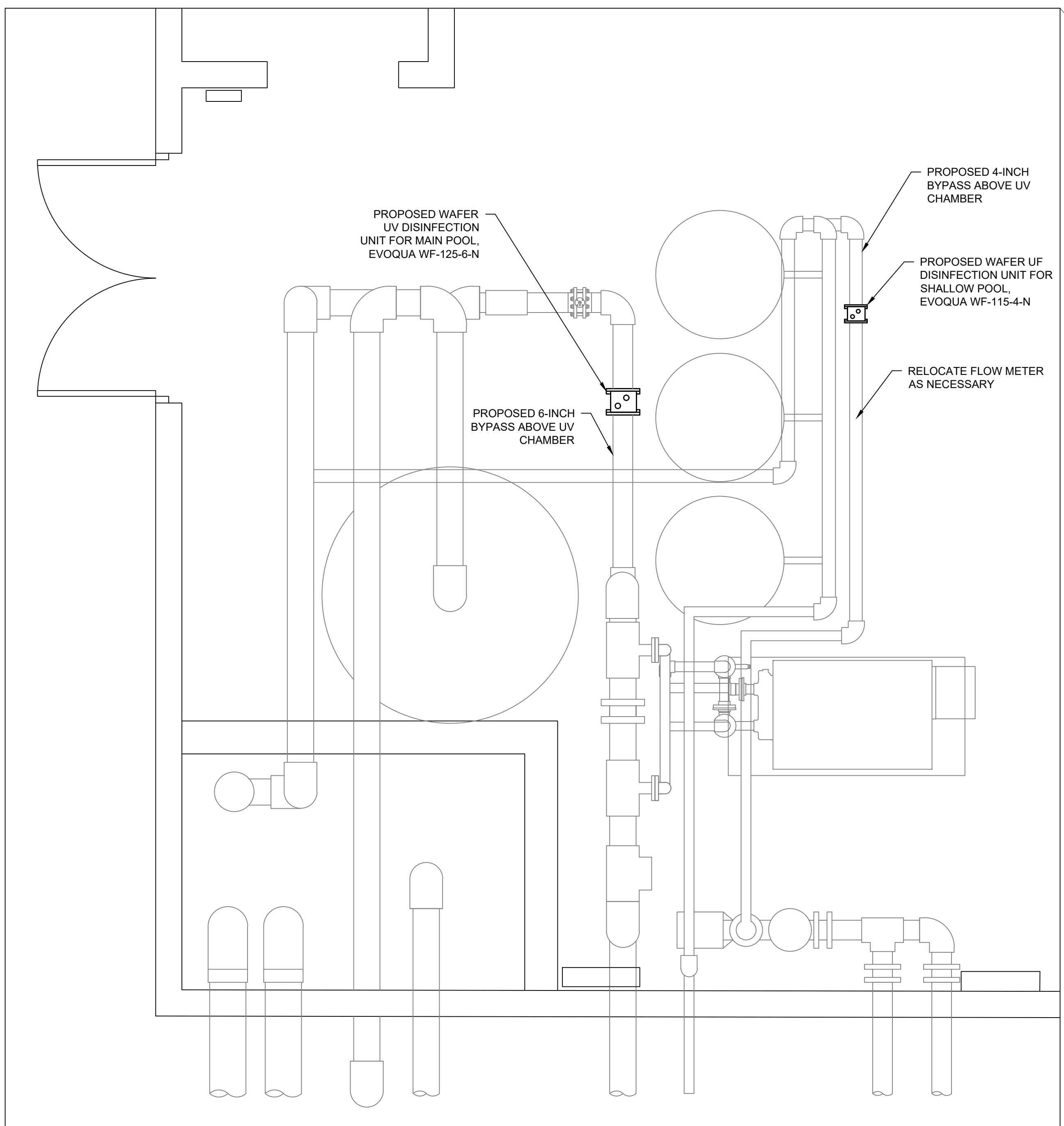
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EXISTING SHALLOW POOL DISCHARGE PIPING



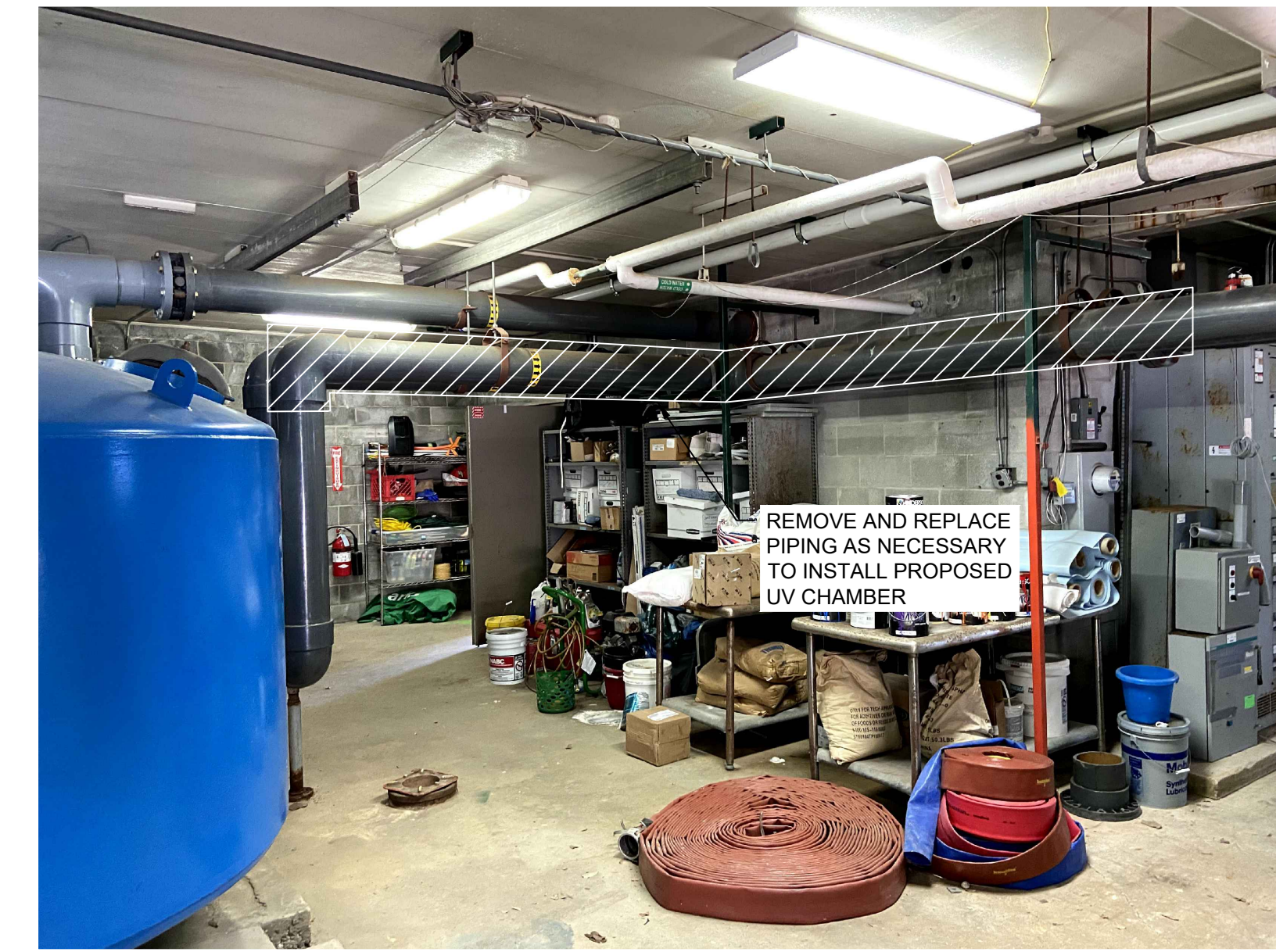
EXISTING MAIN POOL DISCHARGE PIPING



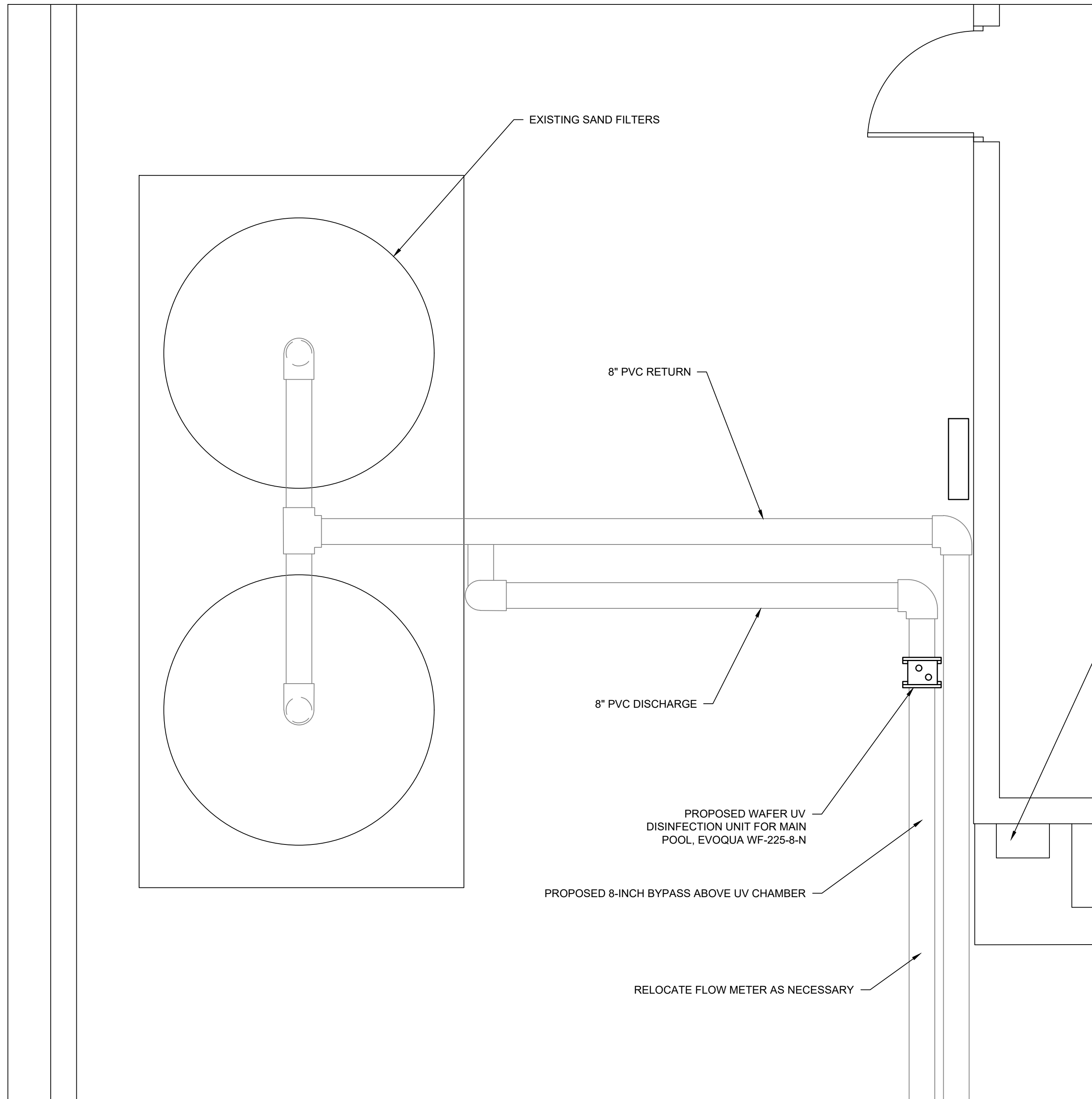
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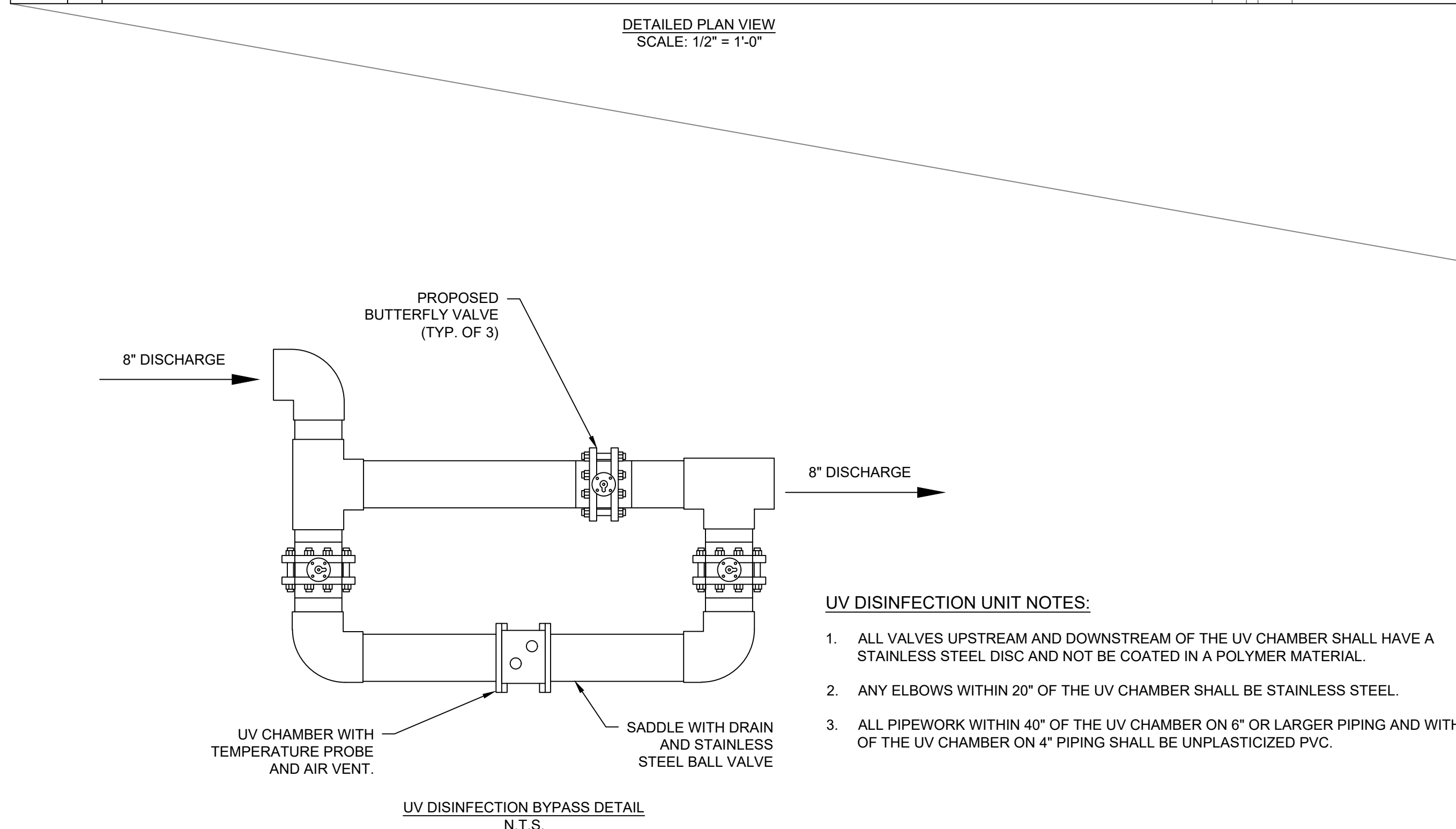
Consultant



EXISTING POOL DISCHARGE PIPING

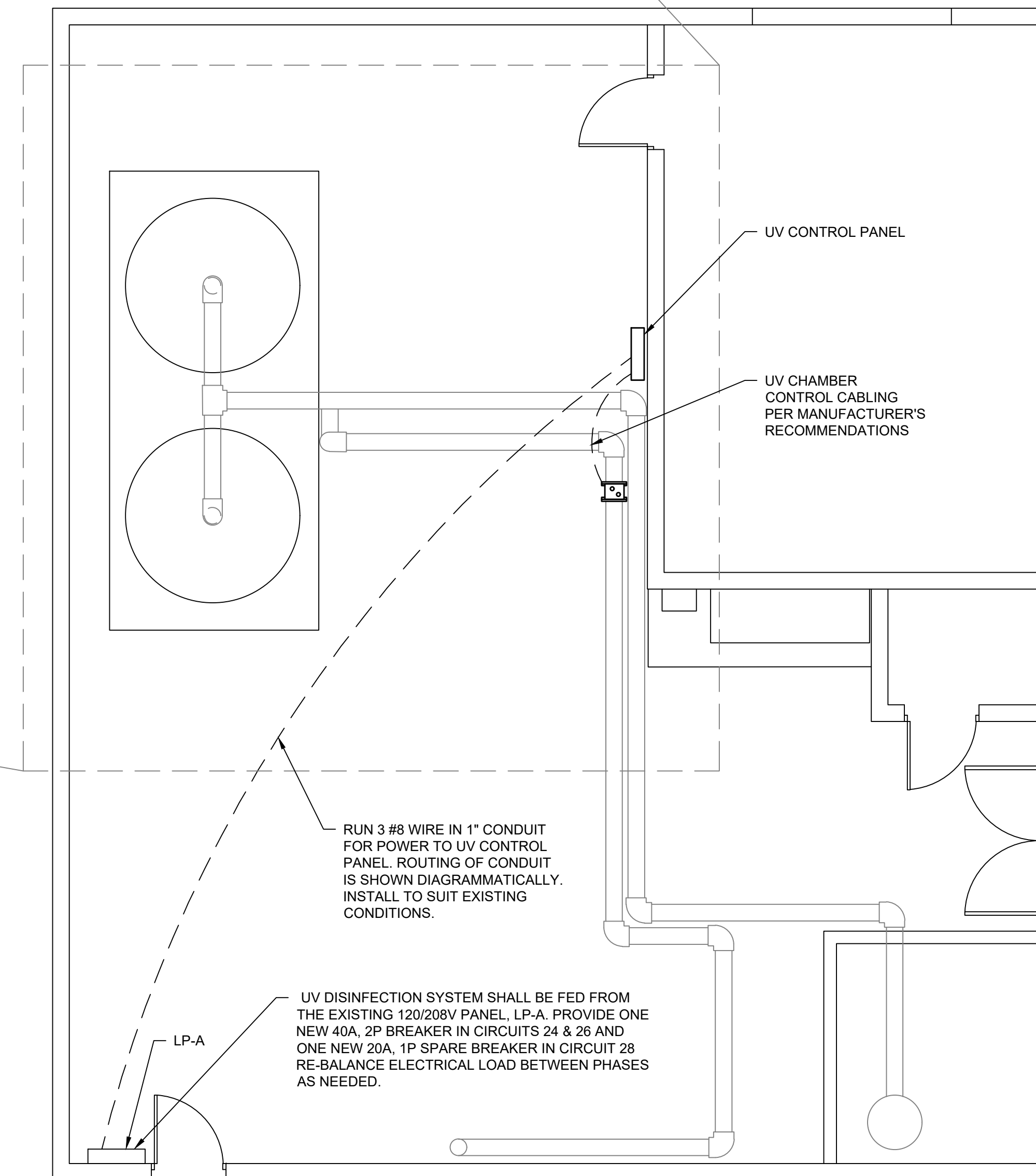


DETAILED PLAN VIEW
SCALE: 1/2" = 1'-0"



UV DISINFECTION UNIT NOTES:

1. ALL VALVES UPSTREAM AND DOWNSTREAM OF THE UV CHAMBER SHALL HAVE A STAINLESS STEEL DISC AND NOT BE COATED IN A POLYMER MATERIAL.
2. ANY ELBOWS WITHIN 20" OF THE UV CHAMBER SHALL BE STAINLESS STEEL.
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DETAILED PLAN VIEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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 - INSTALL CONDUIT AND CONDUCTORS FROM THE CONTROL PANEL TO THE UV DISINFECTION UNIT.
7. CONTRACTOR SHALL BOND UV DISINFECTION UNIT PER NATION, STATE, AND LOCAL ELECTRICAL CODE REQUIREMENTS.

2	REVISED BID SET	CE	JE	2020.12.08
1	BID SET	CE	JE	2020.11.24
Issued		By	Appd	YYYY.MM.DD

File Name:	153700P-103	JDA	CJE	CJE	2020.09.30
		Dwn.	Dgri.	Chkd.	YYYY.MM.DD

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CITY OF ANN ARBOR

OUTDOOR POOL ULTRAVIOLET DISINFECTION IMPROVEMENTS

Ann Arbor, Michigan

Client/Project

CITY OF ANN ARBOR

OUTDOOR POOL ULTRAVIOLET DISINFECTION IMPROVEMENTS

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OUTDOOR POOL ULTRAVIOLET DISINFECTION IMPROVEMENTS

Ann Arbor, Michigan

Project No. 2075153700

Scale

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Drawing No.

P-103