



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 15, 2023

Robert Clausi
Executive Director
Environmental Protection Board
City of Stamford
888 Washington Boulevard
Stamford, Connecticut 06901

RE: Improvements to Wire Mill Well
Aquarion Water Company
Stamford, Connecticut

Dear Mr. Clausi,

On behalf of the Aquarion Water Company, enclosed please find an application for a permit to conduct regulated activities for the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford. As depicted in the application, the well is located within the floodway of the Rippowam River.

This project is covered by Connecticut General Statutes Section 16-235 for raw water utilities; therefore, an inland wetland and watercourses permit is not required. The Contract Documents will require that appropriate soil erosion and sediment controls be used and maintained in effective operating condition during construction and until the site is fully restored.

Enclosed please find one original and ten copies of the following documents:

- The application for a Permit to conducted regulated activities;
- Existing and proposed site plans and details;
- GIS aerial image of the property;
- Project narrative and biological narrative;
- Recent photographs of the proposed site;
- A copy of the property deed;
- Letters to the abutters within 250 feet;
- A copy of the notification form submitted to the CT DPH for project located within public water supply watersheds;
- Soil Scientist report.

In addition, I have included two complete sets of drawings for the Project and the application fee of \$260.00.

If you have any questions or would like additional information, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Maureen Crowley".

Maureen Crowley, P.E.
AECOM

Cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM

**Application for a Permit to
Conduct Regulated Activities**

**Wire Mill Well Improvements
Aquarion Water Company**

Prepared for:

**Environmental Planning Board
City of Stamford**

September, 2023

Prepared by:

AECOM

500 Enterprise Drive
Rocky Hill, CT 06067
(860) 263-5800

City of Stamford
Environmental Protection Board
888 Washington Boulevard
Stamford, CT 06904
(203) 977-4028

APPLICATION FOR A PERMIT TO CONDUCT REGULATED ACTIVITIES

1. APPLICANT

Name of Applicant: Aquarion Water Company

Home Address: _____

Telephone: _____ Email address: bdwinells@aquarionwater.com

Business Address: 600 Lindley Street, Bridgeport, CT 06606

Business Phone: (203) 337-5906

Title of Project (if applicable): Wire Mill Well Improvements

Applicant's Interest in the Property (check where appropriate)

Owner: Agent: Lessee: Lessor: Other: _____
(Specify)

2. OWNER

Name of Subject Property Owner: Aquarion Water Company

Home Address: _____

Telephone: _____ Email address: _____

Business Address: same as above

Business Phone: _____

If the applicant is not the owner of record, the owner must provide signed correspondence authorizing the applicant to file this application to conduct regulated activities.

3. LOCATION / DESCRIPTION

a) Address of the subject property: 0 Wire Mill Road, Stamford

b) Geographical location in sufficient detail to allow identification of the subject property on the "Inland Wetlands and Watercourses Map" (include orientation sketch)

Refer to the Map following this application for the location of the Wire Mill Well parcel.

41° 06' 47.53" N, 73° 32' 55.93" W

Lot Number: S 002 9744

List Number: Book/Page 6247/0317

Subdivision #: 1260

T-Map Number: Tax Map 67

Total Acreage: 3.14 Acres

Assessor's Card #: Parcel ID 23373

Zone: RA1

Block Number: 002-2121

c) Is the Property is located within 500 feet of a Municipal Boundary?

Yes: (See Instructions Section III "Special Notification") No: X

c) Is the Property is located within a drinking water supply watershed?

Yes: X (See Instructions Section III "Special Notification") No:

e) The Property is serviced by (check where appropriate)

Septic system: Sewer: / Private well: Municipal water:

4. REGULATED ACTIVITIES

a) License is sought to conduct the following regulated activities (check where appropriate)

Alteration: X Deposition: Construction: X Removal:

Pollution: Obstruction: Other (Specify): Improvements to an existing well

b) The proposed activities will affect the following (check where appropriate)

Wetland soils: Watercourse: Open water:

Floodplain: X Open space/Conservation easement (CE):

Upland Review Area (URA) 1: X Other (Specify):

¹ The Upland Review Area in non-drinking water supply watersheds is 25 feet from the edge of wetlands and watercourses. The Upland Review Area in the drinking water supply watersheds of the Mianus and upper Rippowam Rivers is 50 feet from the edge of wetlands and 100 feet from watercourses.

c) Purpose and brief description of the activities for which authorization is requested:

There is an existing finished water well on this property owned by Aquarion Water Company (AWC). AWC plans to convert this finished well to a raw water well. The existing structure will be removed and a new structure with vents will be placed over the well, the well pump will be replaced, existing chemicals will be removed and the new electrical and instrumentation equipment will be above the 500-year flood elevation.

d) Existing Conditions – Area Totals of Entire Property

- i) Square feet of Wetlands: approx. 91,000 s.f.
- ii) Linear feet of Watercourse: 420 l.f.
- iii) Square feet of Open water: 0 s.f.
- iv) Square feet of Floodplain: entire parcel
- v) Square feet of Open space/CE: 0 s.f.
- vi) Square feet of URA: approx. 42,800 s.f.

e) Proposed Conditions – Total Area Affected

- i) Square feet of Wetlands affected: 0 s.f.
- ii) Linear feet of Watercourses affected: 20 l.f.
- iii) Square feet of Open water affected: 0 s.f.
- iv) Square feet of Floodplain affected: 10,600 s.f.
- v) Square feet of Open space/CE affected: 0 s.f.
- vi) Square feet of URA affected: 5,200 s.f. (Rippowam River)
- vii) Square feet of Wetlands created: 0 s.f.

5. STANDARD NOTIFICATION REQUIREMENT

Names and addresses of individuals notified of this pending application as required by "The Inland Wetland and Watercourses Regulations of the City of Stamford" (*See Instructions Section II for details*)

Name	Address
Gregory and Maureen Shulas	622 Wire Mill Road
William Wilson	614 Wire Mill Road
Cosmo and Joyce Mirizio	612 Wire Mill Road
Adam J. Whittingham	606 Wire Mill Road
Georgette Bateman	598 Wire Mill Road
Roberto Leon, Rev. Trust	578 Wire Mill Road
Gerald Backman	546 Wire Mill Road
Charles Xiao Qing Guo	543 Wire Mill Road
Archa Saran	22 Blackwood Drive
503 Wire Mill Road LLC	0 Studio Road and 503 Studio Road (two properties - same owner)
State of Connecticut	0 High Ridge Road (Lot ID 135-W 122 4050)
City of Stamford	0 High Ridge Road (Lot ID 135-W 122A 4050)

(Attach additional sheets if necessary)

GENERAL CONDITIONS

The undersigned applicant understands that this application is to be considered complete when all information and documents required by the agency have been submitted.

The agency may request additional information to properly evaluate the proposed activities pursuant to Section 5.5 of the "Inland Wetland and Watercourses Regulations of the City of Stamford." The applicant will be notified in writing of any further information required or when the application is deemed complete.

The undersigned warrants the truth of all statements contained herein and in all supporting documents according to the best of his/her knowledge.

The undersigned applicant hereby consents to necessary and proper inspections of the above property by authorized agents of the EPB.

Written signature 

Printed name Maureen Crowley, P.E., AECOM, Agent for AWC

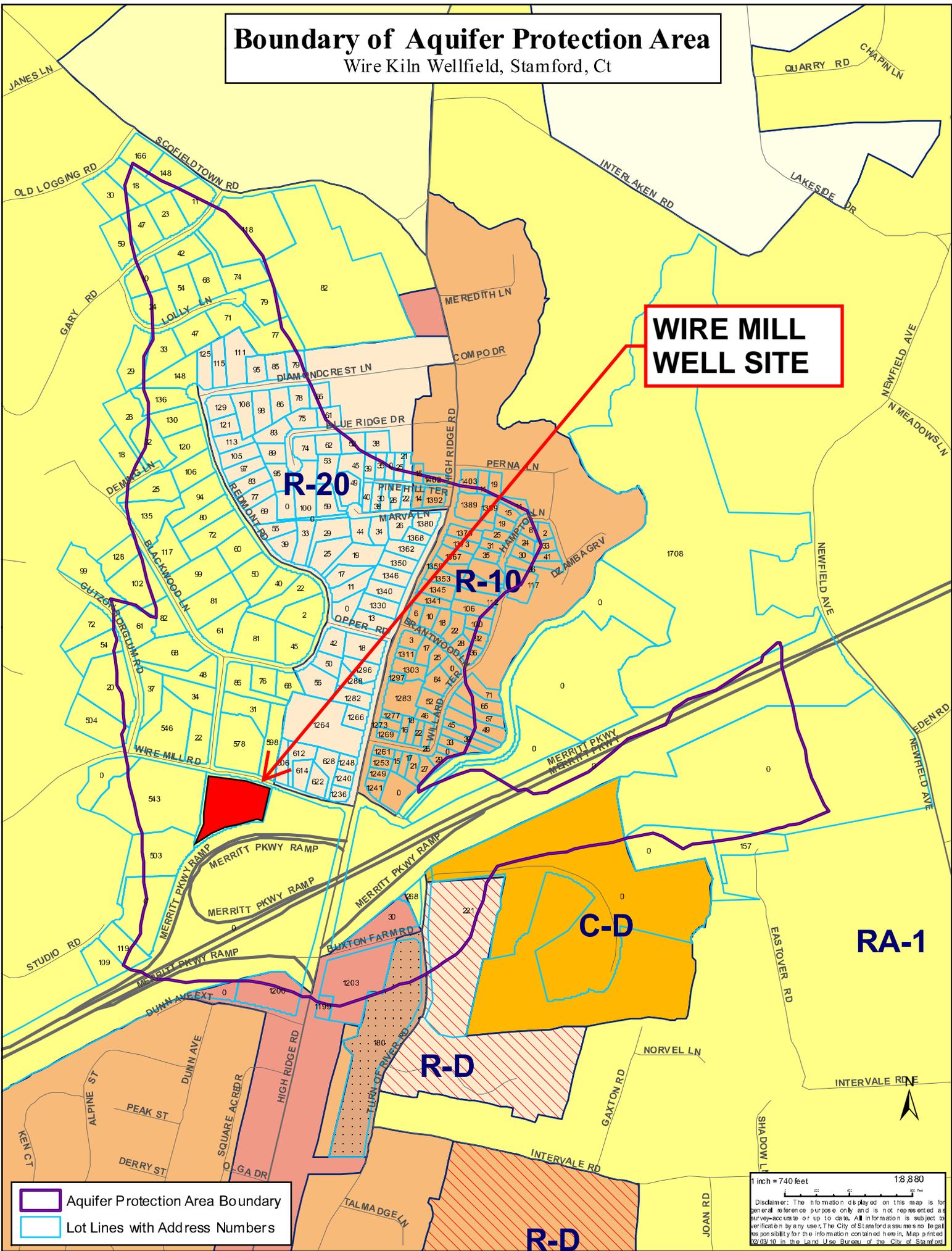
Date September 15, 2023

Location Map

**Wire Mill Well Site
0 Wire Mill Road**

Boundary of Aquifer Protection Area

Wire Kiln Wellfield, Stamford, Ct

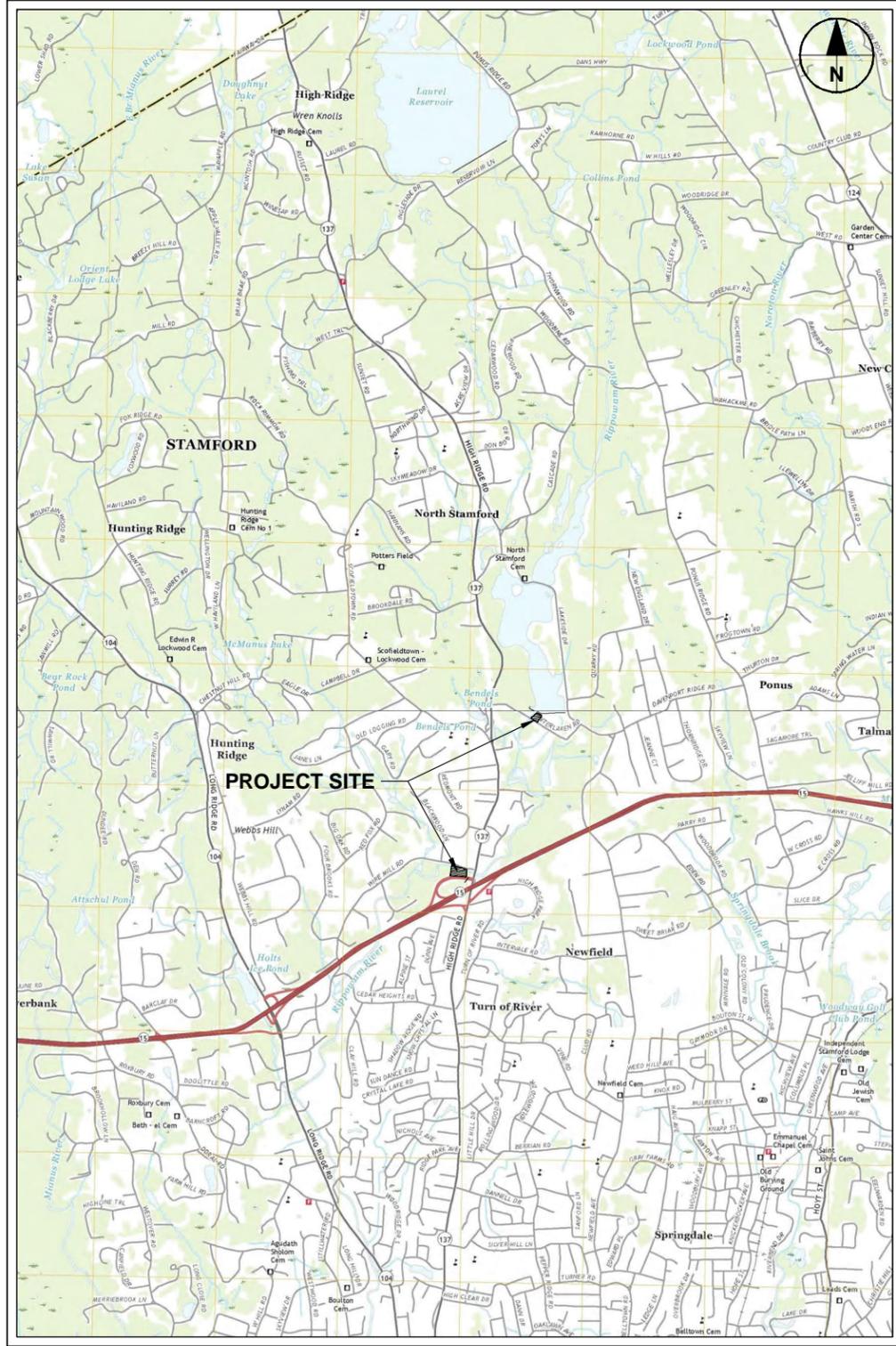


Aquifer Protection Area Boundary
 Lot Lines with Address Numbers

1 inch = 740 feet 18,880
Disclaimer: The information displayed on this map is for general reference purposes only and is not represented as survey-accurate or up to date. All information is subject to verification by any user. The City of Stamford assumes no responsibility for the information contained here in. Map printed 02/09/10 in the Land Use Bureau of the City of Stamford.

Drawings

Improvements to Wire Mill Well Site



PROJECT LOCATION MAP
SCALE: 1" = 2,000'

LIST OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
00 C-001	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
00 C-101	EXISTING SITE PLAN
00 C-102	PROPOSED SITE PLAN
00 C-103	NORTH STAMFORD PUMP STATION PROPOSED SITE PLAN
99 C-301	FLOODWAY CROSS SECTION
99 C-501	SITE DETAILS I
99 C-502	SITE DETAILS II
00 GD-101	EXISTING WELL HOUSE DEMOLITION PLAN
00 D-001	PROCESS NOTES AND ABBREVIATIONS
00 D-002	PROCESS LEGEND
00 D-003	SCHEDULES
01 D-101	WELL VAULT PLANS AND SECTION
99 D-501	PROCESS DETAILS I

AQUARION WATER COMPANY OF CONNECTICUT
Wire Mill Well Improvements
Wire Mill Road, Stamford, CT 06903



SEPTEMBER 2023

60687711

PERMIT DRAWINGS

GENERAL NOTES:

- THIS SURVEY HAS BEEN PREPARED BY NAFIS & YOUNG ENGINEERS, INC. IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.. IT IS A PROPERTY SURVEY AND DATA ACCUMULATION PLAN BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL AND TOPOGRAPHICAL ACCURACY CLASS A-2 AND T-2 RESPECTIVELY.
- COORDINATES DEPICTED HEREIN REFER TO THE CONNECTICUT COORDINATE SYSTEM OF 1983 AS REALIZED FROM OBSERVATIONS REFERENCED TO NAD83. ELEVATIONS DEPICTED HEREIN ARE BASED UPON NAVD88.
- NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. CALL BEFORE YOU DIG (800-922-4455).
- EXISTING UTILITIES IN THE STREETS WITHIN THE LIMITS OF THE WORK ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.
- UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY BE PRESENT. THE CONTRACTOR SHALL DETERMINE THE ACCURATE LOCATIONS OF THE UTILITIES SHOWN AND THE POSSIBLE EXISTENCE OF OTHER UNDERGROUND UTILITIES BY PROVIDING OBSERVATION TEST PITS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN WRITING AT LEAST 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS) BEFORE EXCAVATING IN ANY PUBLIC WAY. CONTRACTOR SHALL ALSO NOTIFY CONNECTICUT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO START OF THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ANCHORING, SUPPORTING AND/OR RELOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICES AND IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL REPAIRS.
- EXISTING UTILITIES INTERFERING WITH THE WORK SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE EXISTING FEATURES AND STRUCTURES WITHIN AND ADJACENT TO THE WORK. IN THE EVENT OF DAMAGE, THE REPAIRS OR REPLACEMENT SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR SEQUENCING OF ALL WORK TO AVOID CONFLICTS BETWEEN ALL PROPOSED WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK AS INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER IN CONFORMANCE WITH ALL APPLICABLE CODES AND IN A PROPER AND WORKMANLIKE MANNER.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE TRENCH SHORING AND BRACING AT ALL TIMES IN ACCORDANCE WITH REQUIRED SAFETY STANDARDS.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WASTE MATERIAL, CONCRETE, MASONRY, TREES, SHRUBS, DEBRIS AND OTHER MATERIALS NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK AND AS REQUIRED BY THE OWNER. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AT NO ADDITIONAL COST TO THE OWNER.
- ALL EROSION CONTROL MEASURES FOR THE CONSTRUCTION ZONE SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. REMOVE SEDIMENTATION AND EROSION CONTROLS AFTER WORK IS COMPLETED AND SITE IS STABILIZED.
- CONTRACTOR TO PROVIDE AND MAINTAIN SEDIMENTATION AND EROSION CONTROL MEASURES TO PROTECT ALL CATCH BASINS, DRAINAGE INLETS AND SWALES IN THE CONSTRUCTION ZONE.
- WHERE WATER MAINS ARE SHOWN TO CROSS EXISTING STORM DRAINS, THE NEW WATER MAIN SHALL BE INSTALLED SO THAT A FULL LENGTH OF WATER MAIN CROSSES THE STORM DRAIN MIDWAY BETWEEN THE JOINTS OF THE WATER MAIN.
- STOCKPILING OF CONSTRUCTION MATERIALS WITHIN 100 FT. OF WATERWAYS IS PROHIBITED.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING FIRE HYDRANTS AT ALL TIMES. SHOULD AN EXISTING HYDRANT NEED TO BE TAKEN OUT OF SERVICE, THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT 24 HOURS PRIOR TO TAKING IT OUT OF SERVICE.
- THE CONTRACTOR SHALL EXERCISE CARE TO PREVENT DAMAGE TO ROOT SYSTEMS OF EXISTING TREES OR SHRUBS IN LOCATIONS OF PROPOSED UTILITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL COORDINATE ALL WORK AS NECESSARY WITH THE AQUARIUM WATER COMPANY.
- ALL EXTERIOR DUCTILE IRON PIPE SHALL BE RESTRAINED JOINT DOUBLE THICKNESS CEMENT LINED AND THICKNESS CLASS 52 AND SHALL CONFORM TO THE LATEST ANSI/AWWA SPECIFICATION C151/A21.51 DUCTILE IRON PIPE.
- WHENEVER POSSIBLE, PRESSURIZED WATER MAINS AND BUILDING SEWER LINES SHALL BE LOCATED IN SEPARATE TRENCHES AT LEAST 10 FEET APART. WHERE LAID IN THE SAME TRENCH, THE WATER PIPE SHALL BE LAID ON A BENCH AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER PIPE AND AT LEAST 12 INCHES (PREFERABLY 18 INCHES) FROM THE SIDE OF THE SEWER TRENCH.
- CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN ESTABLISHED STREET LINES, RIGHTS OF WAY, OR CONSTRUCTION LIMIT LINES.
- CONTRACTOR SHALL NOT PERFORM CONSTRUCTION FUELING OPERATIONS WITHIN 200 FEET OF THE EXISTING WIRE MILL WELL.
- NO PETROLEUM PRODUCTS, SOLVENTS, OR CONSTRUCTION CHEMICALS SHALL BE STORED ON THE PROJECT SITE.
- CONTRACTOR SHALL PROPERLY SECURE THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL POLICE AND CLEAN UP THE CONSTRUCTION SITE DAILY AND SHALL LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS AND LITTER.

LEGENDS

EXISTING	PROPOSED
IRON PIPE	CHAIN LINK METAL FENCE
TREE	BUTTERFLY VALVE
APPROXIMATED WATER LINE	GATE VALVE
STORM DRAINAGE PIPE	EROSION CONTROL
1' CONTOUR INTERVAL	TREE AND STUMP TO BE REMOVED
CHAIN LINK FENCE	CONCRETE SIDEWALK
	CONCRETE ENTRANCE PAD
	BITUMINOUS CONCRETE DRIVEWAY
	STONE STRIP
	B1 BORING
	FLUSH SURFACE TRANSITION SYMBOL
	X 401.3 SPOT GRADE
	GATE VALVE
	199 1' CONTOUR INTERVAL
	PROPOSED DRAIN PIPE
	W PROPOSED WATER PIPE
	REDUCER
	TYPE C-L CATCH BASIN
	WORK AREA LIMIT

ABBREIVATIONS

AW	ABANDONED WATER
BCLC	BITUMINOUS CONCRETE LIP CURB
BIT.	BITUMINOUS CONCRETE
BM	BENCHMARK
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
C.I.	CAST IRON
CLDI	CEMENT LINED DUCTILE IRON
C.L.F.	CHAIN LINK FENCE
C.M.P.	CORRUGATED METAL PIPE
CONC.	CONCRETE
CP	CONTROL POINT
DIA. or Ø	DIAMETER
D.I.	DUCTILE IRON
DMH	DRAIN MANHOLE
E	EAST
EL	ELEVATION
EOB	END OF BORING
EXIST. or EX.	EXISTING
EXT.	EXTENTION
FIELD	FIELD MEASURED
F.F.	FINISHED FLOOR
F.L.	FLOW LINE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
I.R.F.	IRON ROD FOUND
INV	INVERT
LAT CONN	LATERAL CONNECTION
LF	LINEAR FEET
MH	MANHOLE
MIN.	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH
PROP.	PROPOSED
PK	PK NAIL
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
RCCE	REINFORCED CONCRETE CULVERT END
R.C.P.	REINFORCED CONCRETE PIPE
R.S.	RESILIENT SEAT
S	SOUTH
SAN.	SANITARY
SMH	SANITARY SEWER MANHOLE
SNET	SOUTHERN NEW ENGLAND TELEPHONE (FRONT)
ST	STEEL
STM.	STORM
TBD	TO BE DETERMINED
TELE	TELEPHONE
TF	TOP OF FRAME
TYP.	TYPICAL
V.A. TEE	VALVE ANCHORING TEE
VERT.	VERTICAL
W/	WITH
W	WATER
W	WEST
W.V.	WATER VALVE



PROJECT

Wire Mill Well Improvements

Wire Mill Road
Stamford, CT 06903

CLIENT

Aquarion Water Company of Connecticut

600 Lindley Street
Bridgeport, CT 06606-5044
T: 203.337.5991 F: 203.337.5938

CONSULTANT

AECOM TECHNICAL SERVICES, INC.
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
www.aecom.com

SUBCONSULTANTS

SURVEY
Nafis & Young Engineers, Inc.
1355 Middletown Avenue
Northford, CT 06472
Tel. (203) 484-2793

REGISTRATION

PERMIT DRAWINGS

ISSUE/REVISION

IR	DATE	DESCRIPTION

PROJECT NUMBER

60687711

Designed By:	R. BERLANDY
Drawn By:	R. BERLANDY
Dept Check:	G. SIMARD
Proj Check:	P. SAMMIS
Date:	SEPTEMBER 2023
Scale:	AS INDICATED

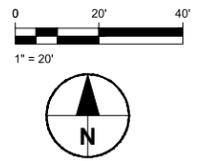
DISCIPLINE

SHEET TITLE

GENERAL NOTES, LEGENDS AND ABBREVIATIONS

SHEET NUMBER

00 C-001



PROJECT
 Wire Mill Well
 Improvements
 Wire Mill Road
 Stamford, CT 06903

CLIENT
 Aquarion Water Company
 of Connecticut
 600 Lindley Street
 Bridgeport, CT 06606-5044
 T: 203.337.5991 F: 203.337.5938

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DISCIPLINE
 CIVIL
SHEET TITLE

EXISTING SITE PLAN

SHEET NUMBER
 00 C-101



PROJECT
Wire Mill Well
Improvements
Wire Mill Road
Stamford, CT 06903

CLIENT
Aquarion Water Company
of Connecticut
600 Lindley Street
Bridgeport, CT 06606-5044
T: 203.337.5991 F: 203.337.5938

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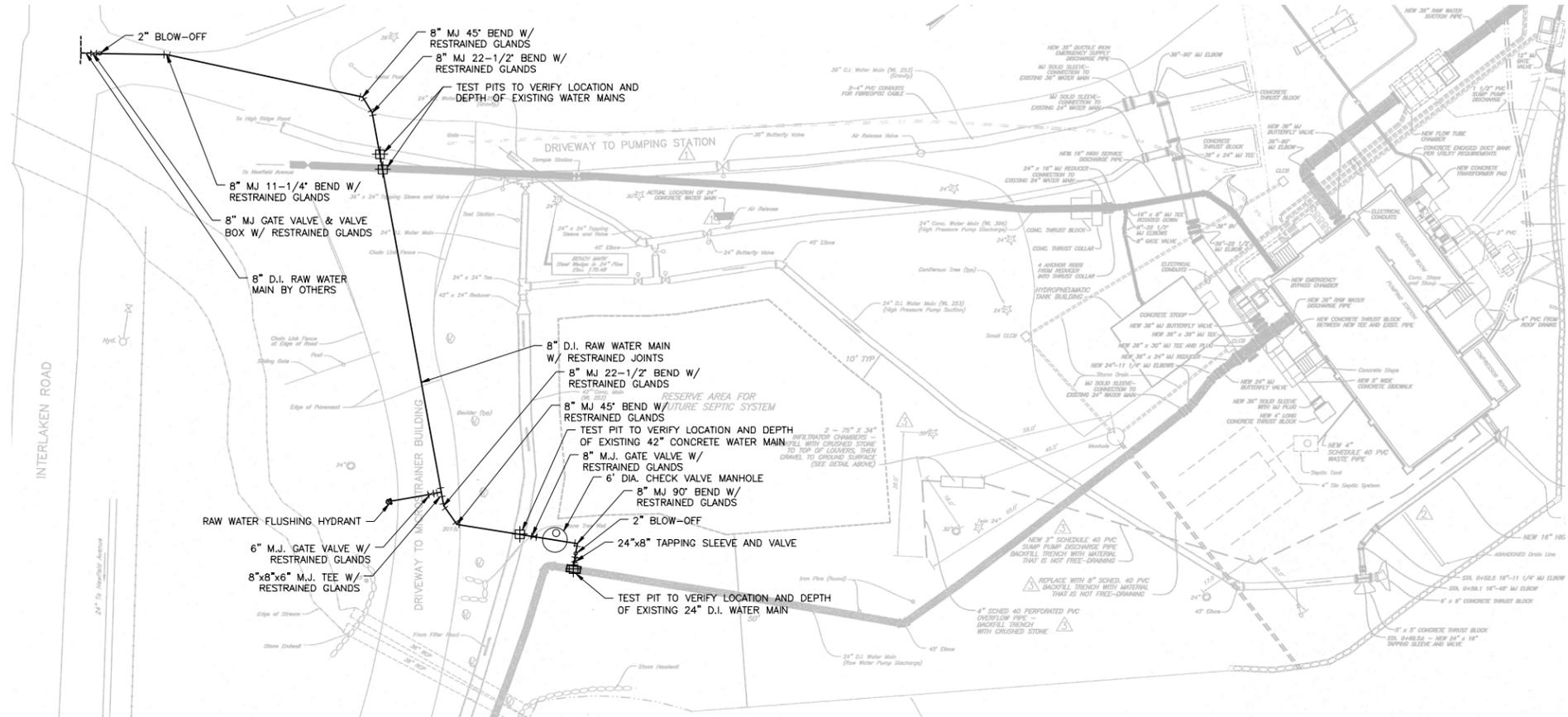
REGISTRATION

PERMIT DRAWINGS

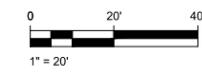
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DISCIPLINE
CIVIL
SHEET TITLE
NORTH STAMFORD PUMP
STATION PROPOSED
SITE PLAN
SHEET NUMBER
00 C-103



D
C
B
A



PROJECT

Wire Mill Well Improvements
 Wire Mill Road
 Stamford, CT 06903

CLIENT

Aquarion Water Company of Connecticut
 600 Lindley Street
 Bridgeport, CT 06606-5044
 T: 203.337.5991 F: 203.337.5938

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DISCIPLINE

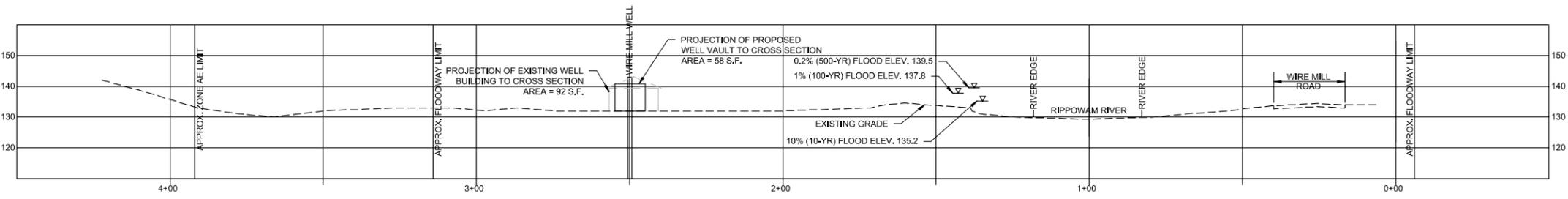
CIVIL

SHEET TITLE

FLOODWAY CROSS SECTION

SHEET NUMBER

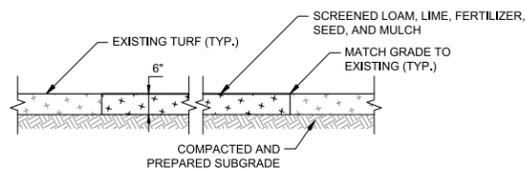
99 C-301



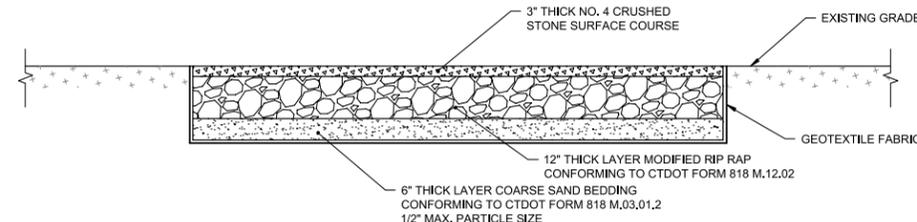
FLOODWAY CROSS SECTION
 SCALE: 1"= 20' HORIZONTAL & VERTICAL



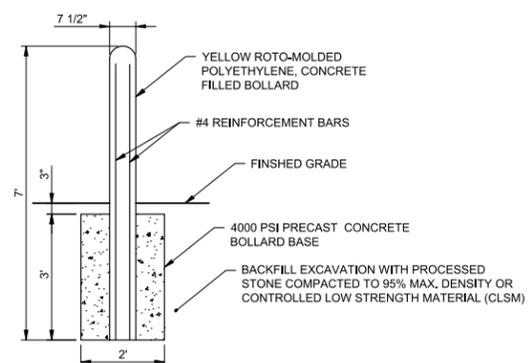
NOMINAL SIGN DIMENSIONS: 14" X 20"
CONSTRUCTION ENTRANCE SIGN DETAILS
NOT TO SCALE



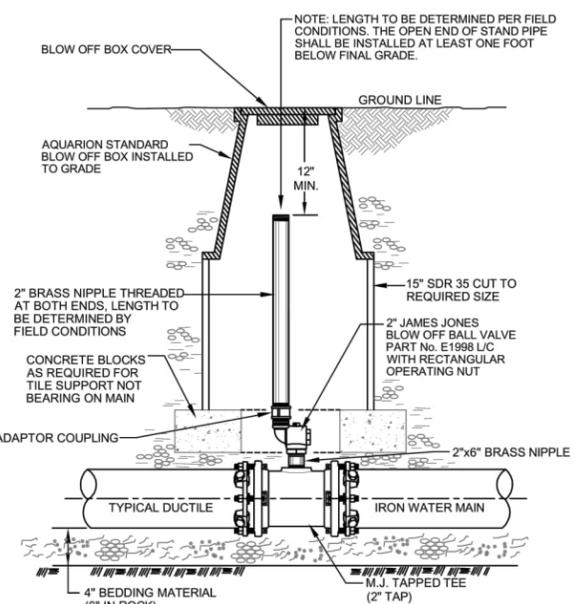
TURF RESTORATION DETAIL
NOT TO SCALE



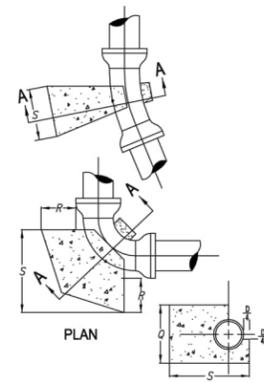
SCOUR PROTECTION DETAIL
NOT TO SCALE



PRECAST CONCRETE BOLLARD DETAIL
NOT TO SCALE



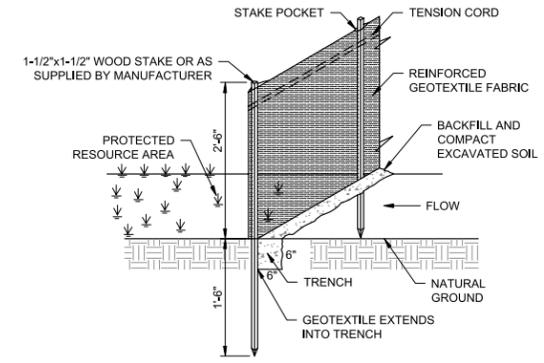
ON LINE AIR VENT / BLOW-OFF DETAIL
NOT TO SCALE



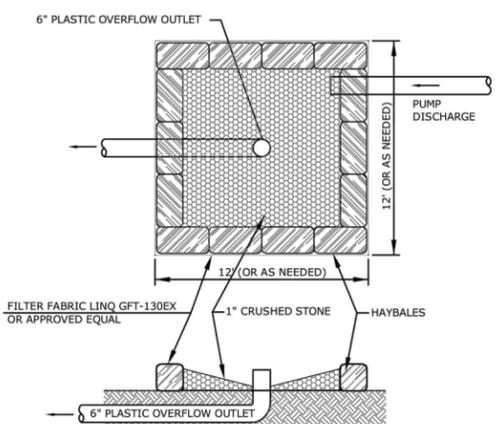
THRUST BLOCKS AT HORIZONTAL BENDS DETAIL
NOT TO SCALE

PIPE DIA. IN	BLOCK DIMENSIONS				CONCRETE VOLUME CU. FT.
	80	48	48	48	
15	45	48	34	20	0.70
22 1/2	42	20	18	12	0.32
11 1/4	30	36	36	30	1.00
12	22 1/2	28	18	12	0.33
10	22 1/2	22	18	12	0.23
8	22 1/2	18	12	12	0.11
6	18	18	18	18	0.25
6	12	12	12	12	0.07

NOTES:
 1. 2500 PSI CONCRETE TO BE USED
 2. BLOCK DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 2000 PSI AND WATER PRESSURE OF 150 PSI. WHERE SOIL BEARING IS LESS OR WATER PRESSURE IS GREATER, A SPECIAL DESIGN WILL BE REQUIRED.
 3. SEE SAG VERTICAL (ABOVE)

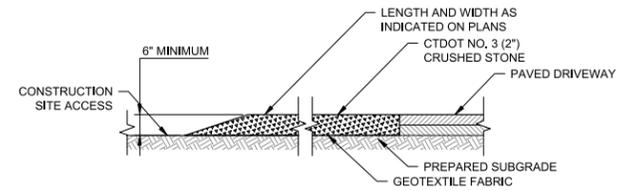


SEDIMENT CONTROL FENCE DETAIL
NOT TO SCALE



NOTES:
 1. 12' x 12' ARE APPROXIMATE DIMENSIONS FOR DEWATERING BASIN. DEPENDING UPON DISCHARGE TO THE BASIN THE DIMENSIONS MAY BE ADJUSTED BY THE OWNERS REPRESENTATIVE.
 2. ALTERNATE DESIGNS SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO IMPLEMENTATION.

TEMPORARY DEWATERING PUMP DISCHARGE DETAIL
NOT TO SCALE



CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

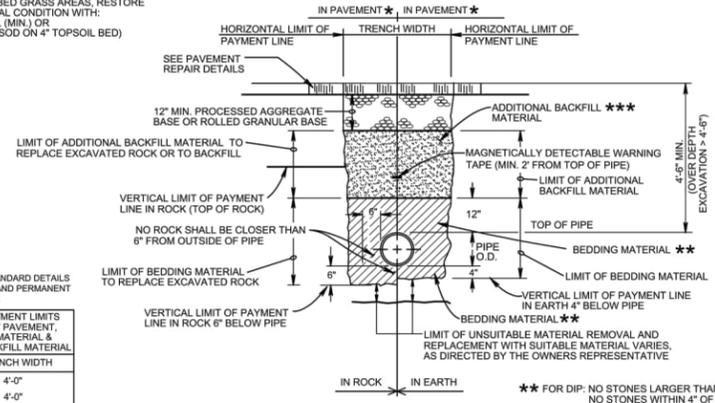
EROSION AND SEDIMENTATION CONTROL NOTES:

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", AS AMENDED.
- EROSION AND SEDIMENTATION MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A PRECIPITATION EVENT OF 0.5 INCHES OF RAIN OR GREATER TO ASSESS MAINTENANCE NEEDS. ANY MAINTENANCE NEEDS FOUND SHALL BE IMMEDIATELY ADDRESSED.
- THE CONTRACTOR SHALL MONITOR FOR AND CONTROL AIRBORNE CONTAMINANTS AND DUST DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL PROVIDE INTERIM EROSION AND SEDIMENTATION CONTROL MEASURES AT ACTIVE WORK ZONES.
- ALL DISTURBED AREAS THAT WILL BE EXPOSED FOR A PERIOD GREATER THAN ONE MONTH SHALL HAVE TEMPORARY VEGETATION ESTABLISHED.
- ALL MATERIAL STOCKPILE AREAS SHALL BE PROTECTED WITH SEDIMENT CONTROL FENCE OR HAY BALES.
- VEHICLE OR CONSTRUCTION EQUIPMENT REFUELING IS PROHIBITED WITHIN 100 FEET OF ANY WETLAND, WATERCOURSE, OR WATER BODY.
- DISCHARGE OF DEWATERING DISCHARGES DIRECTLY TO DRAINAGE SYSTEMS, WETLANDS, WATERCOURSES, OR WATER BODIES IS PROHIBITED.

* IN DISTURBED GRASS AREAS, RESTORE TO ORIGINAL CONDITION WITH:
 2" TOPSOIL (MIN) OR
 SOD (LIVE SOD ON 4" TOPSOIL BED)

REFER TO THE STANDARD DETAILS FOR TEMPORARY AND PERMANENT PAVEMENT REPAIR

PIPE SIZE	TRENCH WIDTH
6"	4'-0"
8"	4'-0"
12"	4'-0"
18"	4'-0"
20"	5'-0"
24"	5'-0"
30"	6'-0"
36"	6'-0"



TYPICAL TRENCH DETAIL
NOT TO SCALE

** FOR DIP: NO STONES LARGER THAN NO STONES WITHIN 4" OF P THOROUGHLY COMPACTED FOR HDPE: NO STONES LARGER THAN NO STONES WITHIN 4" OF P THOROUGHLY COMPACTED

*** (NO STONES LARGER THAN 12") (COMPACTED IN 12" LIFTS)



PROJECT
 Wire Mill Well
 Improvements
 Wire Mill Road
 Stamford, CT 06903

CLIENT
 Aquarion Water Company
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REGISTRATION

PERMIT DRAWINGS

ISSUE/REVISION

IR	DATE	DESCRIPTION

PROJECT NUMBER

60687711

Designed By: R. BERLANDY
 Drawn By: R. BERLANDY
 Dept Check: G. SIMARD
 Proj Check: P. SAMMIS
 Date: SEPTEMBER 2023
 Scale: AS INDICATED

DISCIPLINE

PROCESS SHEET TITLE

SITE DETAILS I

SHEET NUMBER

99 C-501

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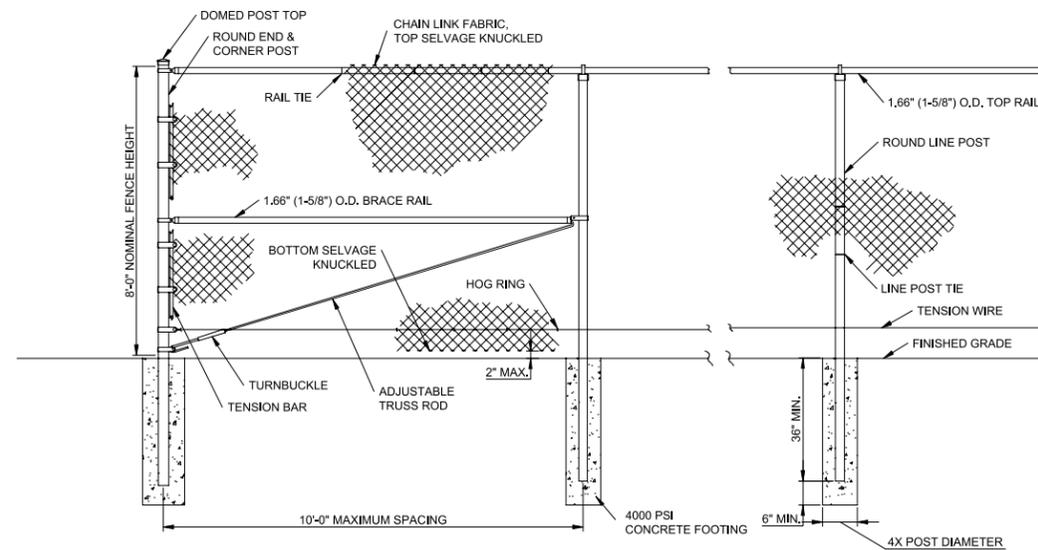
DISCIPLINE

PROCESS SHEET TITLE

SITE DETAILS II

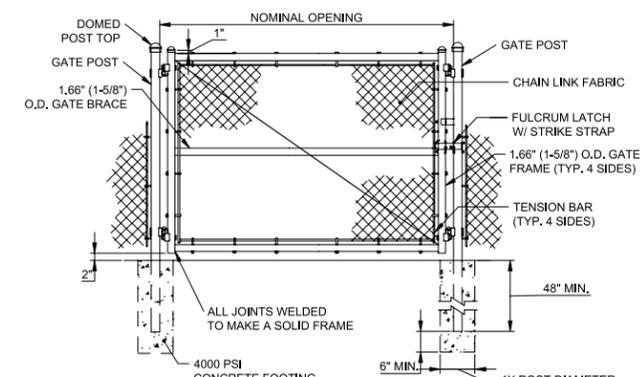
SHEET NUMBER

99 C-502



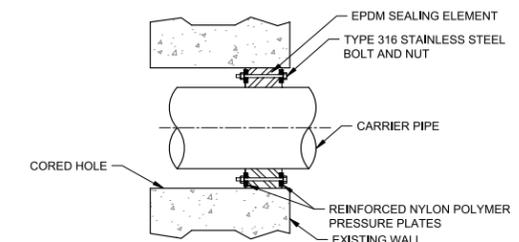
CHAIN LINK FENCE DETAIL

NOT TO SCALE



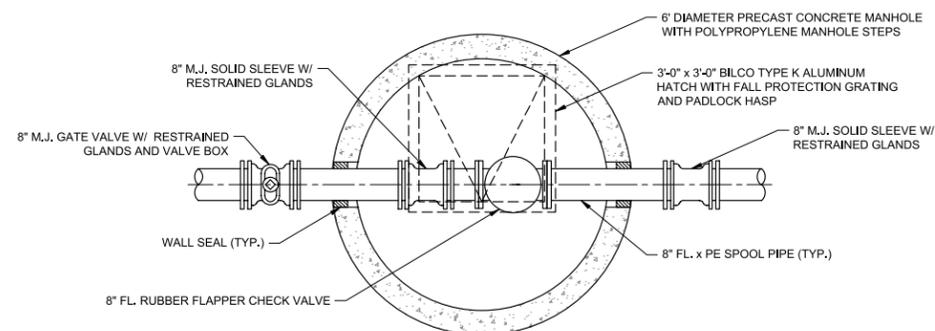
CHAIN LINK FENCE SINGLE LEAF GATE DETAIL

NOT TO SCALE



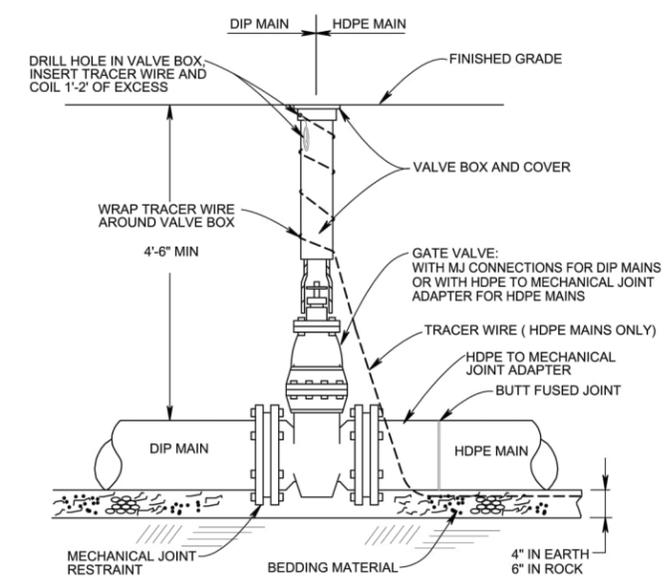
WALL PENETRATION SEAL DETAIL

NOT TO SCALE



CHECK VALVE MANHOLE DETAIL

NOT TO SCALE



GATE VALVE DETAIL

NOT TO SCALE

NOTE: ONLY INSTALLED ON MAINS 8\"/>

NOTE: FOR CONTINUOUS HDPE MAINS, INSTALL TRACER WIRE UNDER ALL VALVES AND FITTINGS. FOR TERMINATION POINTS, INSTALL TRACER WIRE AROUND VALVE BOXES AS SHOWN ABOVE.

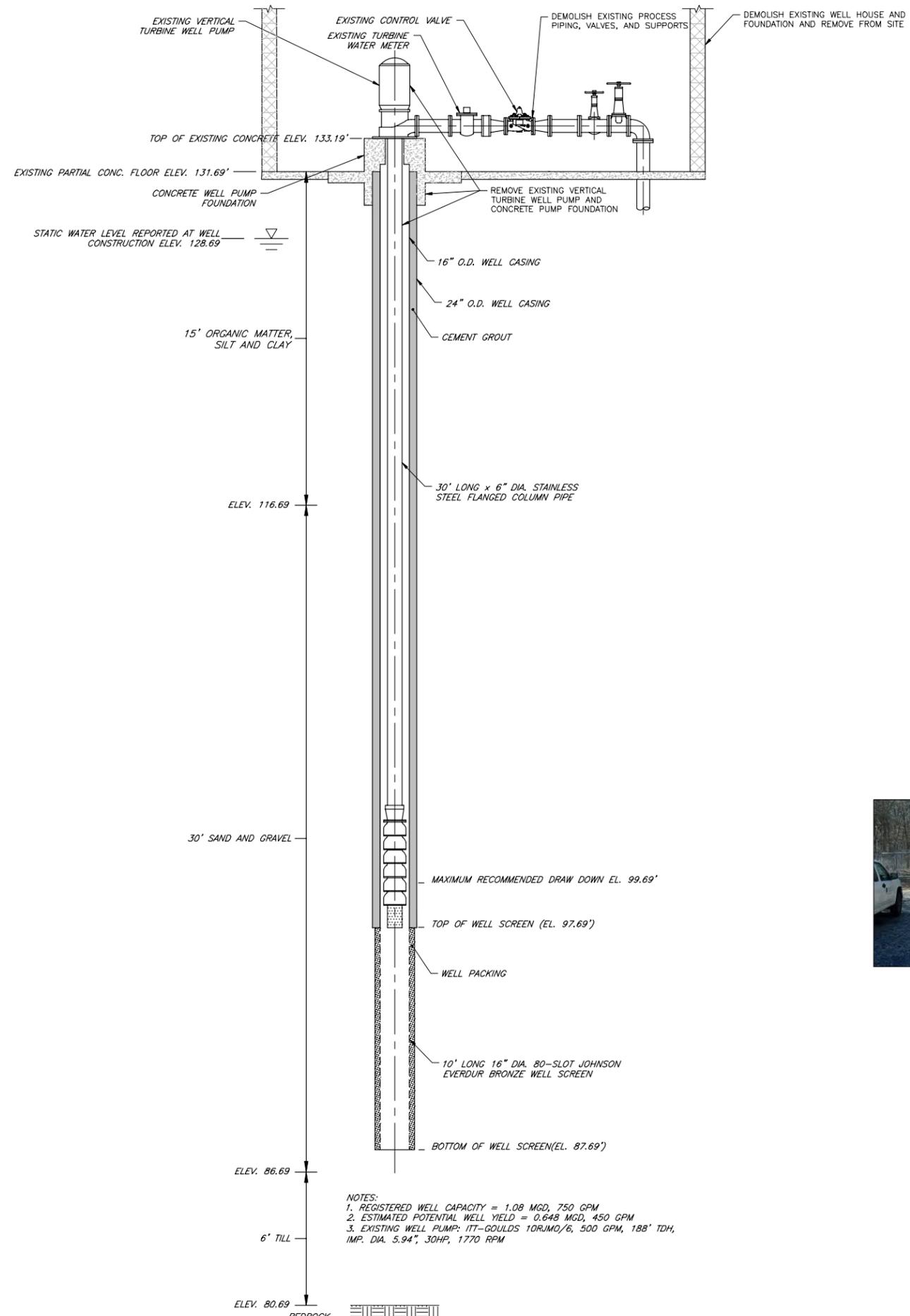
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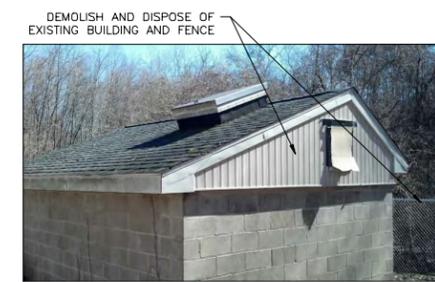
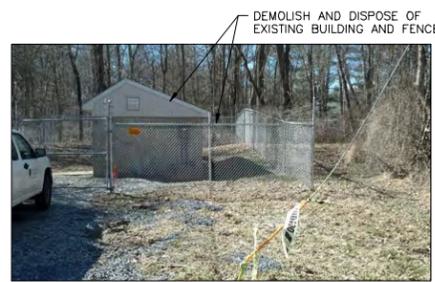
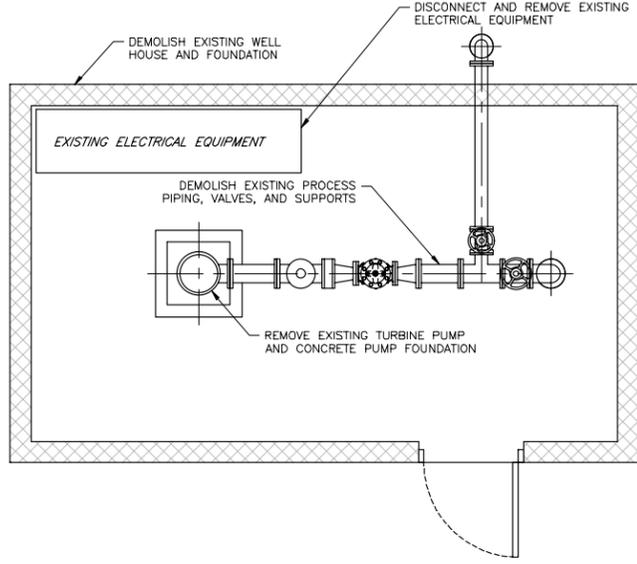
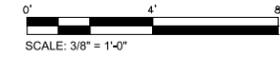
3

2

1



NOTES:
 1. REGISTERED WELL CAPACITY = 1.08 MGD, 750 GPM
 2. ESTIMATED POTENTIAL WELL YIELD = 0.648 MGD, 450 GPM
 3. EXISTING WELL PUMP: ITT-GOULD'S 10RJM0/6, 500 GPM, 188' TDH, IMP. DIA. 5.94", 30HP, 1770 RPM



- NOTES:
1. VERIFY ALL ELEVATIONS AND DIMENSIONS.
 2. WELL SHALL REMAIN SEALED AND IN SANITARY CONDITION AT ALL TIMES.
 3. ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT A LICENSED DISPOSAL FACILITY.
 4. SALVAGE, REMOVE AND DELIVER CHEMICAL FEED TANKS, PUMPS, AND VALVES TO OWNER AT DESIGNATED LOCATION.
 5. REMOVE AND DELIVER WELL INSTRUMENTATION EQUIPMENT TO OWNER AT DESIGNATED LOCATION.



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DISCIPLINE
 PROCESS
 SHEET TITLE

EXISTING WELL HOUSE DEMOLITION PLAN

SHEET NUMBER
00 GD-101

5

4

3

2

1

GENERAL NOTES:

- EQUIPMENT AND SYSTEMS DIMENSIONS, LOCATIONS AND PIPING SYSTEM LAYOUTS ARE BASED ON EQUIPMENT SELECTED BY THE ENGINEER. IF CONTRACTOR PROPOSES TO PROVIDE EQUIPMENT THAT REQUIRES AN ARRANGEMENT OR SPACING DIFFERING FROM THAT INDICATED OR SPECIFIED, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW DETAILED ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, INSTRUMENTATION HVAC AND ELECTRICAL DRAWINGS AND EQUIPMENT LISTS SHOWING ALL NECESSARY CHANGES AND EMBODYING ALL FEATURES OF THE EQUIPMENT AND/OR PROCESS SYSTEMS PROPOSED. THIS INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO PLANS, SECTIONS DETAILS AND SCHEMATICS OF ALL PIPING SYSTEMS AND APPURTENANCES REQUIRED, ELECTRICAL CONTROLS, CHEMICAL FEED SYSTEMS ETC., SUCH CHANGES IF APPROVED BY THE ENGINEER SHALL BE AT NO ADDITIONAL COST TO THE OWNER AND NO TIME EXTENSION TO THE CONTRACT TIME TO COMPLETION. THE CONTRACTOR SHALL ASSUME THE COST OF AND THE RESPONSIBILITY FOR ACCOMPLISHING ALL THE NECESSARY CHANGES CORRESPONDING TO THE DIMENSIONS AND CHARACTERISTICS OF THE EQUIPMENT SUBMITTED AND APPROVED BY THE ENGINEER. REFER TO SPECIFICATIONS FOR FURTHER DETAILS.
- THE CONTRACTOR SHALL MAKE ALL REQUIRED FIELD MEASUREMENTS TO VERIFY EXISTING AND CONTRACT INTERFACE DIMENSIONS, LOCATIONS, AND OTHER CONDITIONS.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR COVER PLATES, HATCHES, GRATING, AND RAILING DETAILS.
- ALL PIPING UNDER CONCRETE SLABS OR STRUCTURES SHALL BE ENCASED IN CONCRETE, UNLESS OTHERWISE NOTED, REFER TO STRUCTURAL DRAWINGS.
- ALL PIPING ENCASED IN CONCRETE SHALL HAVE PUSH-ON JOINTS AT ALL STRUCTURAL EXPANSION JOINTS.
- PROVIDE EXPANSION JOINTS WITH CONTROL RODS FOR ALL EXPOSED PIPING CROSSING STRUCTURAL EXPANSION JOINTS.
- ALL DIMENSIONS LOCATING EQUIPMENT ARE FROM FINISHED WALL SURFACES OR COLUMN CENTERLINES.
- REFER TO INSTRUMENTATION DRAWINGS FOR INSTRUMENTATION AND CONTROL SYSTEMS. INSTRUMENT LOCATIONS ARE INDICATED ON MECHANICAL-PROCESS DRAWINGS IN APPROXIMATE LOCATION ONLY.
- IN-LINE INSTRUMENTATION SHALL BE PROVIDED WITH ISOLATED PRESSURE TAPS, SEE INSTRUMENTATION DRAWINGS.
- FOR CONTINUATION OF PIPING OUTSIDE STRUCTURES, SEE CIVIL DRAWINGS.
- WALL AND FLOOR SLEEVES SHALL BE LARGE ENOUGH TO ACCOMMODATE FLANGES IF REQUIRED. FLOOR SLEEVES SHALL PROJECT AT LEAST 4-IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE SHOWN, REFER TO DETAILS. IF SLEEVES ARE TO BE SEALED, PROVIDE GROOVED COUPLING PIPING CONNECTION TO FACILITATE INSTALLATION AND REMOVAL OF PIPING.
- PROVIDE WALL CASTINGS WITH WATERSTOP FOR ALL BURIED AND SUBMERGED PIPELINES AND FOR PIPING LOCATED WITHIN 2 FT. OF MAXIMUM WATER SURFACE. WALL CASTINGS 4-IN AND LARGER - DUCTILE IRON, 3-IN AND SMALLER - SCH. 40 316L STAINLESS STEEL.
- ALL PIPE PENETRATIONS THROUGH INTERIOR AND EXTERIOR WALLS AND FLOORS SHALL BE SEALED WATERTIGHT. ROOF PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH ARCHITECTURAL DETAILS.
- SLEEVE OR GROOVED COUPLINGS MAY BE USED WHERE NECESSARY, AND AS APPROVED, TO FACILITATE PIPING INSTALLATION.
- FOR FLANGED SYSTEMS PROVIDE FLEXIBLE CONNECTORS WHERE NECESSARY, AND AS APPROVED TO FACILITATE PIPING INSTALLATION AND VALVE AND EQUIPMENT REMOVAL.
- ALL FLEXIBLE CONNECTORS, INCLUDING EXPANSION JOINTS AND SLEEVE COUPLINGS SHALL BE RESTRAINED AS INDICATED OR AS REQUIRED FOR EXPANSION AND FOR FLEXIBILITY.
- PROVIDE ALL LIQUID PIPING 24" AND SMALLER WITH 3/4" LOW POINT DRAINS AND 3/4" HIGH POINT VENTS. PROVIDE ALL LIQUID PIPING 30" AND LARGER WITH 1 1/2" LOW POINT DRAINS AND 1 1/2" HIGH POINT VENTS. DRAINS AND VENTS TO INCLUDE BALL VALVE AND CAP, UNLESS OTHERWISE SPECIFIED OR INDICATED.
- PROVIDE 1-1/4" HG AT INVERT OF ALL BLIND FLANGES.
- ALL HOSE GATES SHALL BE CLEARLY LABELED INDICATING TYPE OF SERVICE (SW, ETC.). SEE SPECIFICATIONS.
- SMALL PIPING (SAMPLE, SEAL WATER, ETC.) IS SHOWN DIAGRAMMATICALLY: FIELD-ROUTING SUBJECT TO APPROVAL OF THE ENGINEER. SMALL PIPE ROUTING MUST NOT INTERFERE WITH ACCESS TO OR OPERATION OF ANY OTHER PIPE, VALVE, OR EQUIPMENT.
- PORTIONS OF NON-PROCESS PIPING (PLUMBING, HVAC, CIVIL) ARE SHOWN FOR CLARITY OF DESIGN ONLY; REFER TO APPROPRIATE DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.
- ALL PROCESS EQUIPMENT, INCLUDING PUMPS, SHALL BE ISOLATED FROM PIPING LOADS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND AS SPECIFIED.
- BASE ELBOWS AND PIPE BRACES ARE SHOWN FOR PURPOSES OF ILLUSTRATION ONLY.
- PROVIDE WALL MOUNTED SIGNS, IN ACCORDANCE WITH SPECIFIED ARCHITECTURAL REQUIREMENTS FOR ALL EXTERIOR WALL PENETRATIONS, INDICATING PIPE ORIGIN OR DESTINATION AND PIPE LABEL.
- FOR PUMP SEAL WATER, VENT, DRAIN, PRESSURE GAUGE, VALVING AND PIPING SEE DETAILS.
- PROVIDE CONCRETE PADS FOR ALL FLOOR MOUNTED PROCESS EQUIPMENT, REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- VENTS AND DRAINS:
 - INSTALL VENT AND DRAIN PIPING AND VALVES SO THERE IS NO INTERFERENCE WITH ACCESS TO OR OPERATION OF ANY EQUIPMENT, VALVES, PIPING OR PANELS.
 - PROVIDE ISOLATION VALVES FOR ALL VENTS AND DRAINS AS SPECIFIED AND INDICATED.
 - LOCATE VALVES SO THAT THEY ARE ACCESSIBLE AND OPERABLE.
 - PIPE ALL VENTS AND DRAINS SLOPED TO DRAIN TO THE NEAREST GUTTER, SUMP, TRENCH OR DRAIN OR AS INDICATED.
 - WHERE PIPING RUNS ACROSS A FLOOR, INSTALL 2 INCHES MAXIMUM ABOVE FLOOR.

MECHANICAL PROCESS ABBREVIATIONS

ACFM	ACTUAL CUBIC FEET PER MINUTE	LG.	LONG
AFF	ABOVE FINISHED FLOOR	L.P.	LOW POINT
ANCH.	ANCHOR	L.R.	LONG RADIUS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	L/S	LITERS PER SECOND
APPROX.	APPROXIMATE	LSH	PRESSURE SWITCH LOW
ARCH.	ARCHITECTURAL	LSP	LIQUID SAMPLE PORT
ARV	AIR RELEASE VALVE	LXW	LENGTH X WIDTH
AW	AIR VACUUM VALVE	L.W.L.	LOW WATER LEVEL
B.O.D.	BOTTOM OF DUCT	M	METER
CFM	CUBIC FEET PER MINUTE	MAX.	MAXIMUM
CHEM.	CHEMICAL	MATL.	MATERIAL
CI	CAST IRON	MCC	MOTOR CONTROL CENTER
¢	CENTERLINE	MECH.	MECHANICAL
CL	CLASS	MGD	MILLION GALLONS PER DAY
CMU	CONCRETE MASONARY UNIT	MH	MANHOLE
C.O.	CLEANOUT	MIN.	MINIMUM
CONC.	CONCRETE	MM	MILLIMETERS
CONN.	CONNECTION	NAVJ	NORTH AMERICAN VERTICAL DATUM
CONT.	CONTINUATION	N.C.	NORMALLY CLOSED
CPVC	CHLORINATED POLYVINYLCHLORIDE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CS	CARBON STEEL	N.O.	NORMALLY OPEN
CV	CONTROL VALVE	NO.	NUMBER
DEG. C.	DEGREES CELSIUS	NOM.	NOMINAL
DEG. F.	DEGREES FAHRENHEIT	NPSH	NET POSITIVE SUCTION HEAD
DET.	DETAIL	NPSHR	NET POSITIVE HEAD REQUIRED
D.I.	DUCTILE IRON	NPT	NATIONAL PIPE THREAD
DIA.	DIAMETER	NRS	NON-RISING STEM
DISCH.	DISCHARGE	NTS	NOT TO SCALE
DN	DOWN	O.C.	ON CENTER
DWG'S.	DRAWINGS	O.D.	OUTSIDE DIAMETER
EXE	FLEXIBLE COUPLING (EXPANSION x EXPANSION)	ODP	OPEN DRIP PROOF
ECC. RED.	ECCENTRIC REDUCER	OPER.	OPERATING
EFF.	EFFLUENT	P	PUMP
EFF. %	% EFFICIENCY	PE	PLAIN END
ELEC.	ELECTRICAL	PI	PRESSURE INDICATOR
ELL.	ELEVATION	PIT	PRESSURE INDICATOR TRANSMITTER
ELL.	ELBOW	PLMB.	PLUMBING
ENCL.	ENCLOSURE	PRI.	PRIMARY
EQUIP.	EQUIPMENT	PS	PRESSURE SWITCH
EXIST.	EXISTING	PSH	PRESSURE SWITCH HIGH
FXE	EXPANSION COUPLING (FIXED x EXPANSION)	PSI	POUNDS PER SQUARE INCH
FXF	RESTRAINED COUPLING (FIXED x FIXED)	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
FE	FLOW ELEMENT	PSIG	POUNDS PER SQUARE INCH GAGE
F.F.	FLAT FACE	PSV	PRESSURE SAFETY SWITCH
FHMB	FLAT HEAD MACHINE BOLT	PVC	POLYVINYLCHLORIDE
FIN. FL.	FINISHED FLOOR	PVDF	POLYVINYLIDENE FLOURIDE
FIN. GR.	FINISHED GRADE	R	RADIUS
FIT	FLOW INDICATING TRANSMITTER	RED.	REDUCER / REDUCING
FLEX.	FLEXIBLE	RED. FLG.	REDUCING FLANGE
FLG.	FLANGE	REF.	REFERENCE
F.O.B.	FLAT ON BOTTOM	REINF.	REINFORCING
F.O.S.	FLAT ON SIDE	REQ'D.	REQUIRED
F.O.T.	FLAT ON TOP	RPM	REVOLUTIONS PER MINUTE
FT. / MIN	FEET PER MINUTE	SCH.	SCHEDULE
FPS	FEET PER SECOND	SH.	SHEET
FS	FLOW SWITCH	SPD	SUMP PUMP DISCHARGE
FSI	FORMED SUCTION INTAKE	SPECS.	SPECIFICATIONS
FT.	FEET	SQ.	SQUARE
GAL.	GALLONS	S.R.	SHORT RADIUS
GALV.	GALVANIZED	S.S.	STAINLESS STEEL
GPM	GALLONS PER MINUTE	STD.	STANDARD
HDPE	HIGH DENSITY POLYETHYLENE	STR.	STRUCTURAL
HG	HOSE GATE	TEFC	TOTALLY ENCLOSED FAN COOLED
HHMB	HEXAGONAL HEAD MACHINE BOLT	TEMP.	TEMPERATURE
Hg	MERCURY	TENV	TOTALLY ENCLOSED NON VENTILATED
H.P.	HIGH POINT	THK.	THICK
HP	HORSE POWER	T.O.C.	TOP OF CONCRETE
HPT	HOSE PIPE THREAD	T.O.D.	TOP OF DUCT
HST	HOIST	T.O.S.	TOP OF STEEL
HVAC	HEATING VENTILATION	T.S.H.	TEMPERATURE SWITCH HIGH
H.W.L.	HIGH WATER LEVEL	TYP.	TYPICAL
I.D.	INSIDE DIAMETER	VD	VOLUME DAMPER
IN.	INCHES	W/	WITH
INSUL.	INSULATION	WXH	WIDTH x HEIGHT
INV.	INVERT	WC	WATER COLUMN
IPT	IRON PIPE THREAD	WORK.	WORKING
KG	KILOGRAM	WP	WEATHER PROTECTED
KW	KILOWATT	WPI	WEATHER PROTECTED TYPE I
LB.	POUND	WPII	WEATHER PROTECTED TYPE II
		W.S.	WATER SURFACE
		XPROOF	EXPLOSION PROOF



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PROCESS SHEET TITLE

PROCESS NOTES AND ABBREVIATIONS

SHEET NUMBER

00 D-001

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PROCESS

SHEET TITLE

PROCESS LEGEND

SHEET NUMBER

00 D-002

DWG. ABBREV.	ITEM	SYMBOL
	GATE VALVE	
	KNIFE VALVE	
	PLUG VALVE	
	CONE VALVE	
	3-WAY PLUG VALVE	
	BUTTERFLY VALVE	
	BALL VALVE	
	3-WAY BALL VALVE	
	CHECK VALVE	
	COMBINED FUNCTION VALVE	
	WAFER CHECK VALVE	
	SPLIT DISC CHECK VALVE	
	BALL CHECK VALVE	
	DIAPHRAGM VALVE	
HG	HOSE GATE	
	GLOBE VALVE	
	PINCH VALVE	
	NEEDLE VALVE	
	ANGLE VALVE	
	RELIEF VALVE	
	PRESSURE REGULATING VALVE	
	PRESSURE REDUCING VALVE	
	BACK PRESSURE VALVE	
	IRIS VALVE	
	MULTI ORIFICE VALVE	
	DUCK BILL CHECK VALVE	
	SPECTACLE FLANGE	
	UNION	
	FLAP VALVE *	
	MUD VALVE *	
	TELESCOPING VALVE *	
	INSECT SCREEN	
	QUICK DISCONNECT COUPLING	
	FLEXIBLE HOSE	
	PULSATION DAMPENNER	
	CALIBRATION STANDPIPE (COLUMN)	

*FLOW DIAGRAM ONLY

DWG. ABBREV.	ITEM	SYMBOL
	STATIC MIXER	
SG	SLIDE GATE	
SL	STOP LOG	
W	WEIR	
VD	VOLUME DAMPER	
	EXISTING PIPE & FACILITIES	
	PROPOSED PIPE & FACILITIES	
	PIPE: 6" & SMALLER	
	PIPE: 8" & LARGER	
	FLANGE	
BF	BLIND FLANGE	
	WELDED	
PO	MECHANICAL JOINT	
PO	RESTRAINED PUSH ON JOINT	
	GROOVED COUPLING (PIPE 6" & SMALLER)	
	GROOVED COUPLING (PIPE 8" & LARGER)	
	SLEEVE COUPLING	
	RESTRAINED SLEEVE COUPLING	
	FLANGE ADAPTER	
	RESTRAINED FLANGE ADAPTER	
	BOLTED SPLIT SLEEVE COUPLING (PIPE 6" & SMALLER)	
	BOLTED SPLIT SLEEVE COUPLING (PIPE 8" & LARGER)	
	EXPANSION JOINT W/CONTROL RODS	
	CONCENTRIC REDUCER	
	ECCENTRIC REDUCER FLAT ON TOP	
	ECCENTRIC REDUCER FLAT ON BOTTOM	
	WYE STRAINER	
	INSULATION (PIPE 6" & SMALLER)	
	INSULATION (PIPE 8" & LARGER)	
	EXISTING PIPE TO BE REMOVED	

DWG. ABBREV.	ITEM	SYMBOL
FE	FLOW RATE CONTROLLER	
FE	VENTURI FLOW METER	
FE	MAGNETIC FLOW METER	
	ORIFICE PLATE	
	ROTAMETER	
G	GAUGE	
	RUPTURE DISC	
WS	WATER SURFACE	
	DIRECTION OF FLOW	
	END CAP	
	PITCH PIPE DOWN IN DIRECTION OF ARROW	
	LIMITS OF WORK (TRADE, CONTRACT, ETC.)	
	POINT OF CONNECTION NEW WORK TO EXISTING WORK	
	LIMITS (MATERIAL, FURNISHED BY, ETC.)	
	SAMPLE TO LAB	
	CHEMICAL DIFFUSER AT PIPE	
	CHANNEL *	
ACTUATORS		
	MOTOR OPERATED	
	SOLENOID OPERATED	
	DIAPHRAGM	
	CYLINDER - HYDRAULIC	
	CYLINDER - PNEUMATIC	
	ELECTRO - HYDRAULIC	
	EQUIPMENT MOTOR	
WALL / FLOOR CASTINGS		
FLG x PO	FLANGE AND PUSH ON JOINT	
	WATERSTOP	
PO x PO	PUSH ON JOINT AND PUSH ON JOINT	
PO x PE	PUSH ON JOINT AND PLAIN END	
FLG x FLG	FLANGE AND FLANGE	
FLG x PE	FLANGE AND PLAIN END	

*FLOW DIAGRAM ONLY

DWG. ABBREV.	ITEM	SYMBOL
EQUIPMENT		
	POSITIVE DISPLACEMENT BLOWER *	
	CENTRIFUGAL BLOWER *	
	AXIAL FLOW PUMP *	
	VERTICAL WET PIT PUMP *	
	VERTICAL TURBINE CAN PUMP *	
	CENTRIFUGAL PUMP *	
	SUBMERSIBLE CENTRIFUGAL PUMP *	
	DIAPHRAGM PUMP *	
	HOSE OR TUBING PUMP *	
	METERING PUMP *	
	PLUNGER PUMP *	
	ROTARY LOBE PUMP *	
	PROGRESSIVE CAVITY PUMP *	
	GRINDER *	
	SCREW CONVEYOR *	
	HYDROCYCLONE *	
	MECHANICALLY CLEANED SCREEN *	

*FLOW DIAGRAM ONLY

DWG. ABBREV.	ITEM	SYMBOL
EQUIPMENT		
	STATIC INTAKE SCREEN *	
	INLINE STRAINER *	
	DUPLIX BASKET STRAINER *	
	SUBMERSIBLE MIXER *	
	MIXER *	

*FLOW DIAGRAM ONLY

D

C

B

A



PROJECT

Wire Mill Well Improvements

Wire Mill Road
Stamford, CT 06903

CLIENT

Aquarion Water Company of Connecticut

600 Lindley Street
Bridgeport, CT 06606-5044
T: 203.337.5991 F: 203.337.5938

CONSULTANT

AECOM TECHNICAL SERVICES, INC.
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067
www.aecom.com

SUBCONSULTANTS

SURVEY
Nafis & Young Engineers, Inc.
1355 Middletown Avenue
Northford, CT 06472
Tel: (203) 484-2793

REGISTRATION

PERMIT DRAWINGS

ISSUE/REVISION

IR	DATE	DESCRIPTION

PROJECT NUMBER

60687711

Designed By:	R. BERLANDY
Drawn By:	R. BERLANDY
Dept Check:	G. SIMARD
Proj Check:	P. SAMMIS
Date:	SEPTEMBER 2023
Scale:	AS INDICATED

DISCIPLINE

PROCESS SHEET TITLE

SCHEDULES

SHEET NUMBER

00 D-003

PROCESS PIPING SCHEDULE

LEGEND	SYSTEM DESIGN CONDITIONS				PIPING				INSULATION		VALVING			TEST REQUIREMENTS				SPECS. SECTION NUMBER	REMARKS		
	SYSTEM	TEMP. (DEG. F)		PRESSURE (PSI)		MATERIAL	DIAMETER RANGE	SCH./CLASS	LINING/COATING	JOINT TYPE	TYPE	THICKNESS (IN.)	BLOCK	CHECK	THROTTLING	PRESSURE (PSI)	MEDIUM			TEST DURATION (MIN.)	LEAKAGE ALLOWANCE (SEE NOTES)
		OPER.	MAX.	WORK.	MAX.																
D	DRAIN	SEE NOTE 4				DUCTILE IRON PVC	4" AND LARGER 3" AND SMALLER	SEE SPECS.	CEMENT ---	FLANGED / MECHANICAL JOINT / PUSH-ON SOCKET WELDED	---	---	---	---	---	SEE NOTE 4	WATER	60	NONE	02615 15370	
RW	RAW WATER	50	80	105	115	DUCTILE IRON	3" AND LARGER	SEE SPECS.	CEMENT	EXPOSED: FLANGED BURIED: RESTRAINED MECHANICAL JOINT	FIBERGLASS	2	GATE VALVE	RUBBER FLAPPER	---	170	WATER	60	NONE	02615	
SAM	SAMPLE	50	80	105	115	PVC	3" AND SMALLER	SEE SPECS.	---	SOCKET WELD	---	---	BALL	BALL	---	170	WATER	60	NONE	15370	

PROCESS PIPING NOTES:

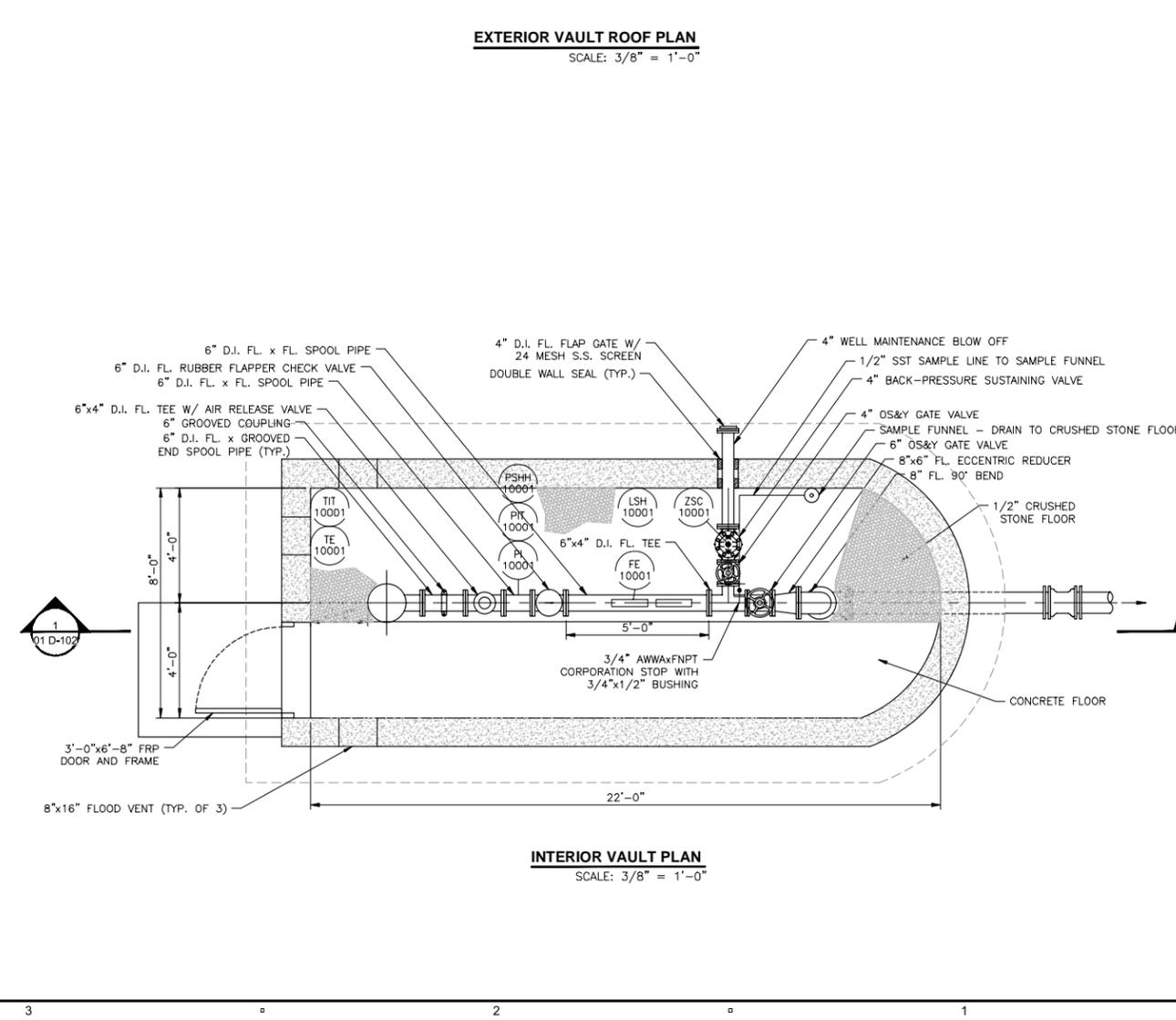
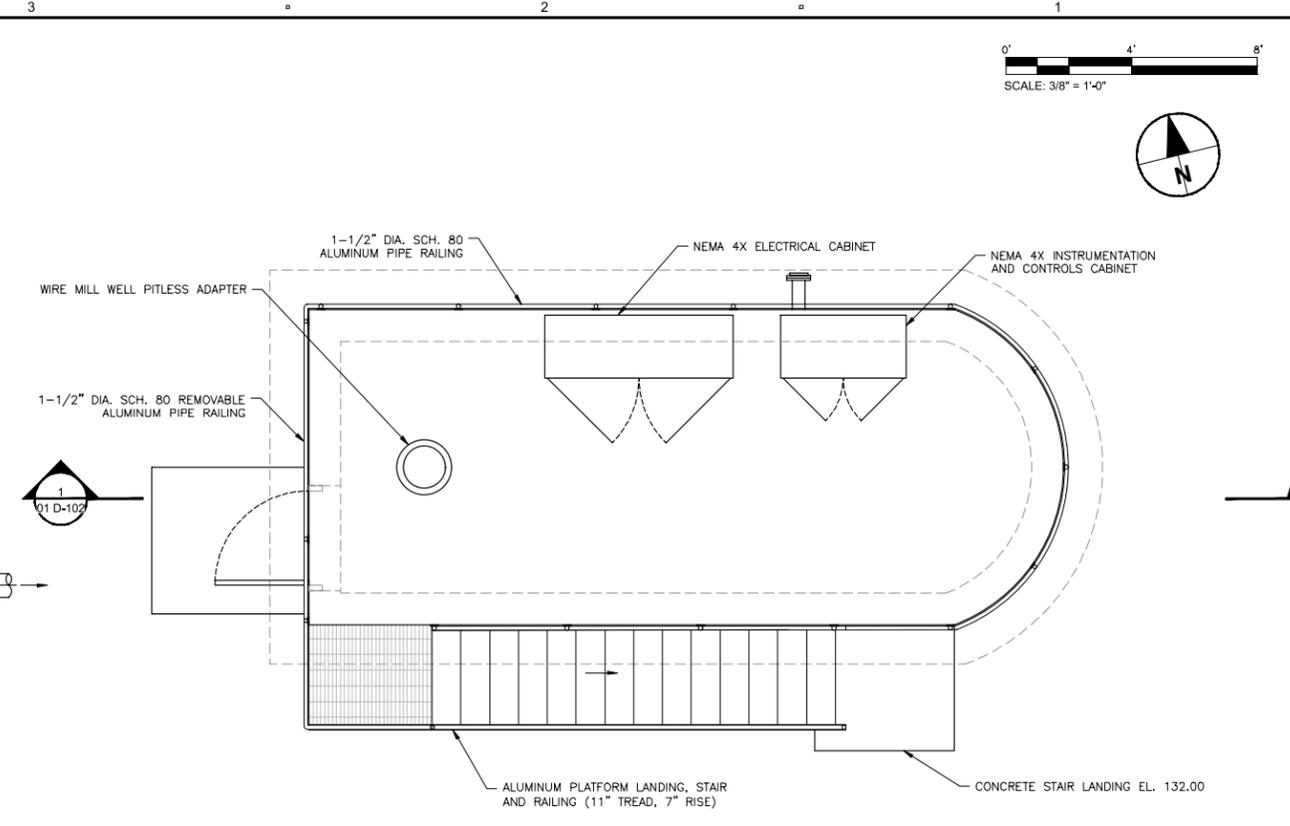
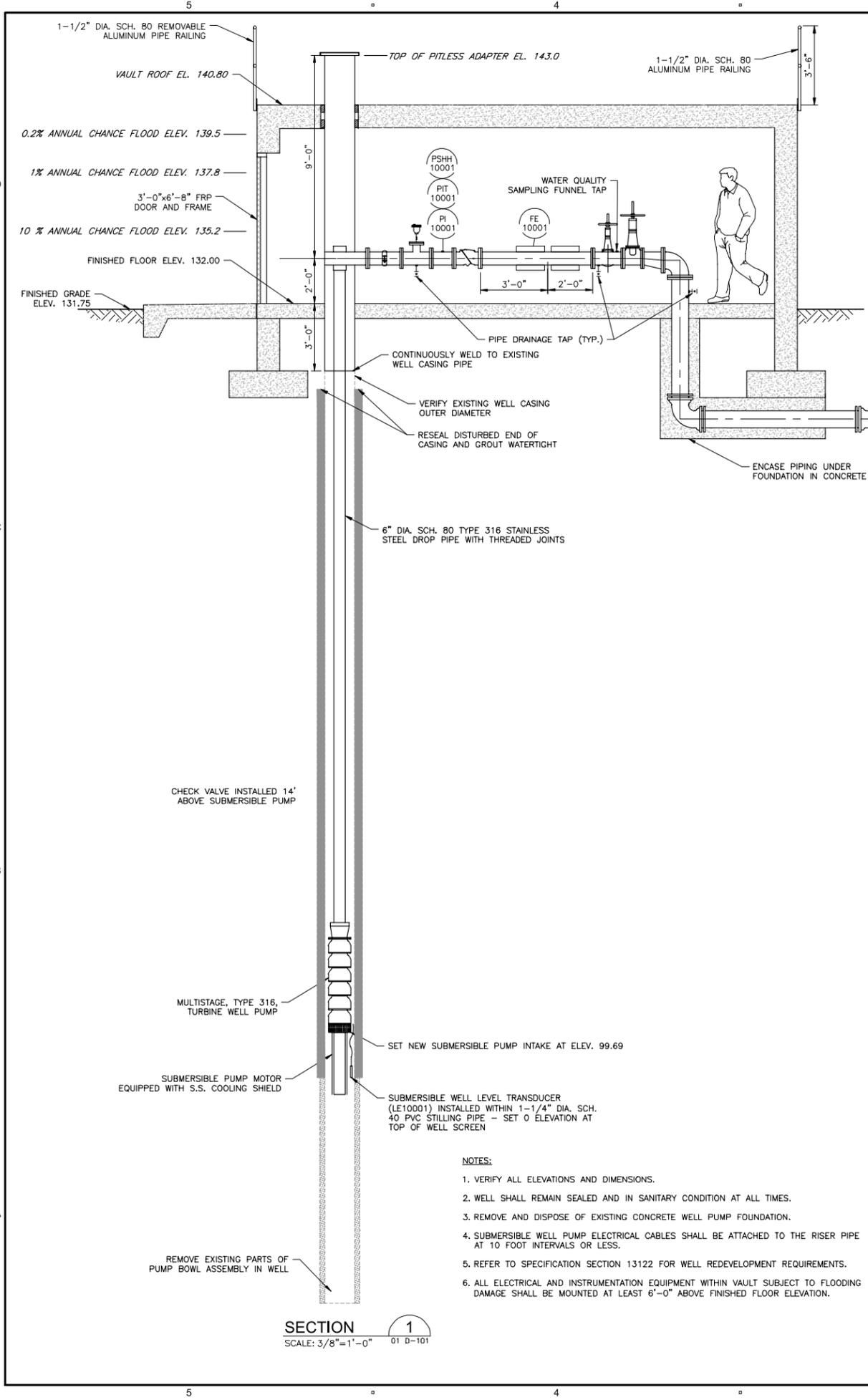
1. PIPING SCHEDULE ABOVE REFERS TO MECHANICAL PROCESS PIPING ONLY. REFER TO OTHER DISCIPLINES FOR ANY NON-PROCESS PIPING SHOWN AS BACKGROUND INFORMATION ON THE MECHANICAL DRAWINGS AND FOR CONTINUATION OF PIPING BEYOND MECHANICAL DISCIPLINE LIMITS OF WORK.
2. TEST VENTS AND DRAINS TO SAME PRESSURE AS SYSTEM.
3. FOR OPEN VENTS, FILL VENT WITH WATER AND TEST FOR LEAKS.
4. SAME AS SYSTEM.
5. USE TYPE 316L S.S. PIPE FOR DRAINS FROM DUCTILE IRON SERVICE FOR DRAINS 3" AND SMALLER.

PROCESS PIPING NOTES CONT.

5. PROVIDE FLANGES AT EQUIPMENT, VALVES AND AS INDICATED ON THE DRAWINGS.
6. ALL PIPING THAT IS NOT BURIED SHALL BE CONSIDERED EXPOSED.
7. PROVIDE INSULATION AND PROTECTIVE INSULATION JACKET AS SPECIFIED FOR ALL EXTERIOR INSULATED PIPING.

PROCESS PUMP SCHEDULE

TAG NO.	NUMBER OF UNITS	NAME	LOCATION	TYPE	RATING POINT				MIN. SUCTION/DISCHARGE SIZE (IN.)	PUMP RPM MAX.	SEAL TYPE	MOTOR DATA			DRIVE TYPE	SPEC. SECTION	GAUGE ASSEMBLY TYPE		BASIS OF DESIGN	REMARKS
					CAPACITY (GPM)	HEAD (FEET)	MIN. WIRE-TO-WATER EFF. %	MIN. SHUTOFF HEAD FT.				HP	RPM (MAX.)	ENCL. TYPE			SUCTION	DISCHARGE		
SW.P-1 10001	1	WIRE MILL SUBMERSIBLE WELL PUMP	WIRE MILL WELL	SUBMERSIBLE VERTICAL TURBINE	750	325	--	385	--/6	1730	MECHANICAL SEAL	100	1730	SUBMERSIBLE	DIRECT	13122	---	---	---	

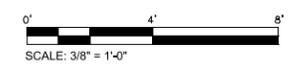


- NOTES:**
1. VERIFY ALL ELEVATIONS AND DIMENSIONS.
 2. WELL SHALL REMAIN SEALED AND IN SANITARY CONDITION AT ALL TIMES.
 3. REMOVE AND DISPOSE OF EXISTING CONCRETE WELL PUMP FOUNDATION.
 4. SUBMERSIBLE WELL PUMP ELECTRICAL CABLES SHALL BE ATTACHED TO THE RISER PIPE AT 10 FOOT INTERVALS OR LESS.
 5. REFER TO SPECIFICATION SECTION 13122 FOR WELL REDEVELOPMENT REQUIREMENTS.
 6. ALL ELECTRICAL AND INSTRUMENTATION EQUIPMENT WITHIN VAULT SUBJECT TO FLOODING DAMAGE SHALL BE MOUNTED AT LEAST 6'-0" ABOVE FINISHED FLOOR ELEVATION.

SECTION 1
SCALE: 3/8" = 1'-0"
01 D-101

EXTERIOR VAULT ROOF PLAN
SCALE: 3/8" = 1'-0"

INTERIOR VAULT PLAN
SCALE: 3/8" = 1'-0"



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Wire Mill Road
Stamford, CT 06903

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REGISTRATION

PERMIT DRAWINGS

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 Drawn By: R. BERLANDY
 Dept Check: G. SIMARD
 Proj Check: P. SAMMIS
 Date: SEPTEMBER 2023
 Scale: AS INDICATED

DISCIPLINE
PROCESS
SHEET TITLE

WELL VAULT PLANS AND SECTION

SHEET NUMBER

01 D-101

PROJECT

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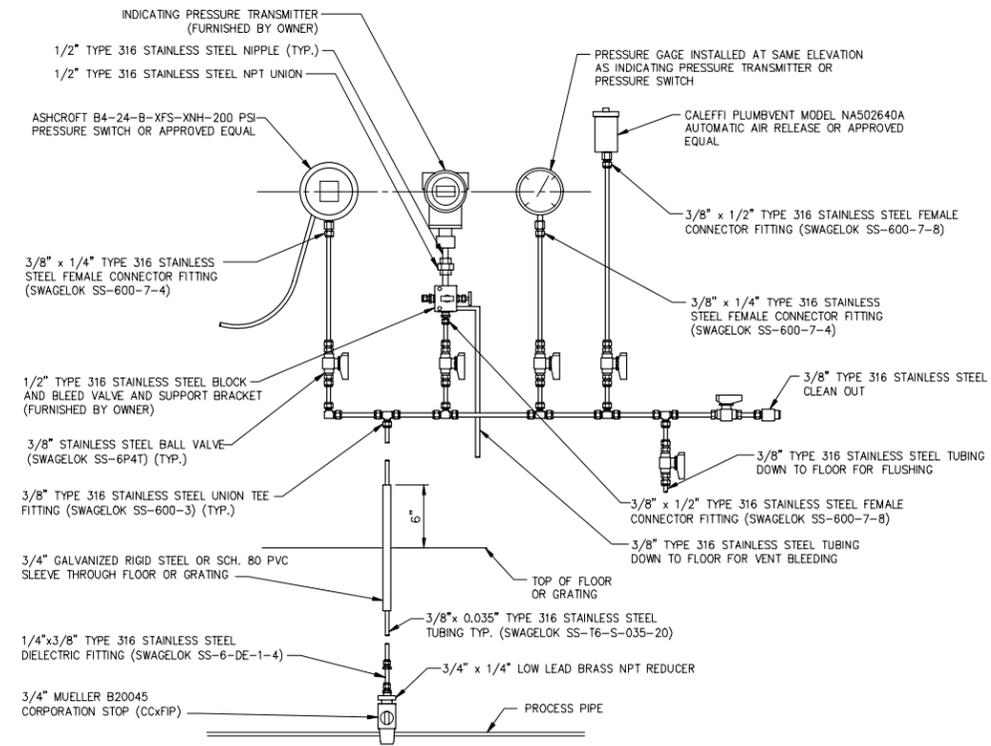
DISCIPLINE

PROCESS SHEET TITLE

PROCESS DETAILS I

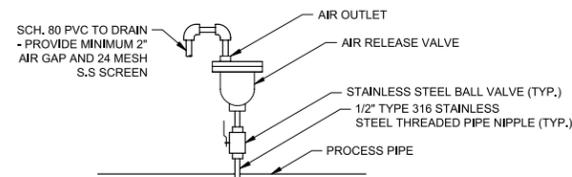
SHEET NUMBER

99 D-501

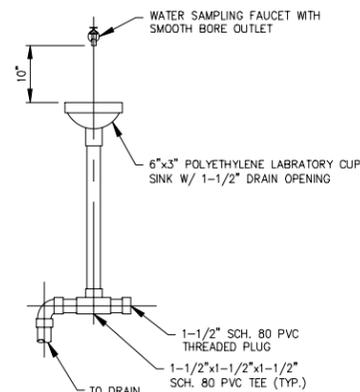


- NOTES:**
1. FURNISH AND INSTALL TYPE 316 STAINLESS STEEL PIPING SUPPORTS AND ANCHORS.
 2. EACH PRESSURE INSTRUMENT SHALL HAVE IT'S OWN DEDICATED PROCESS PIPING TAP CONNECTION.

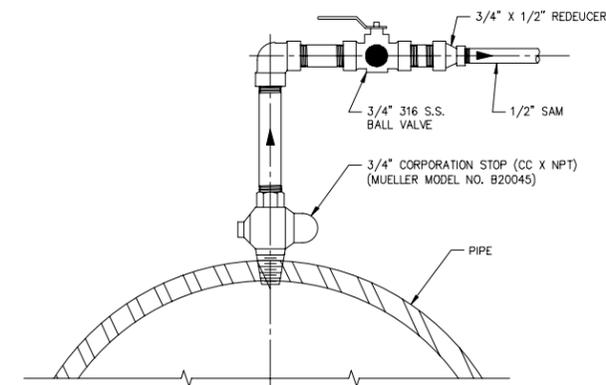
PRESSURE INDICATING TRANSMITTER / PRESSURE SWITCH IMPULSE PIPING DETAIL
NOT TO SCALE



AIR RELEASE VALVE ASSEMBLY DETAIL
NOT TO SCALE

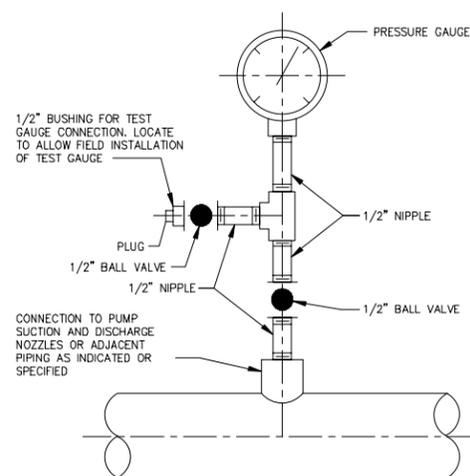


WATER QUALITY SAMPLING FUNNEL DETAIL
NOT TO SCALE



- NOTES:**
1. ALL COMPONENTS AND MATERIALS SHALL BE NFS 61 APPROVED.

SAMPLE TAP DETAIL
NOT TO SCALE



PRESSURE GAUGE ASSEMBLY DETAIL
NOT TO SCALE

GIS Aerial Image

0 Wire Mill Road

Wire Mill Well Site



WestCOG Region Information

ID 135-S 002 9744
Site Address 0 WIRE MILL ROAD
Owner AQUARION WATER CO OF CT
Co-Owner -
Owner Address 600 LINDLEY ST



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

Regional Map Viewer makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 05/25/2023
Data updated 05/25/2023

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

Project Narrative

Wire Mill Well Improvements Project Narrative

A. Project Background

The Wire Mill Well is a finished water well within Aquarion Water Company's (AWC) system and represents a small percentage of the overall supply capacity for the Stamford System. The well is used on an as-needed basis and it was returned to active service during the fall of 2016 to address area-wide drought concerns and need for additional supply. Since that time, it has not been used on a regular basis.

The site consists of approximately three acres and is wooded except for the area adjacent to the well and the Rippowam River which traverses the site from east to west. The well is located within a small concrete block building approximately 200 feet south of Wire Mill Road and 120 feet from the Rippowam River.

The primary access to the well requires crossing of the Rippowam River via a gravel driveway. Since this well is only used during drought concerns, the river is typically at its lowest during those times and the well is accessible. However, the well is located within the floodway (refer to the FEMA firmette included) and is also subject to flooding during moderate to extreme rainfall events.

B. Purpose

A "Wire Mill Well Alternatives Analysis" was prepared by AECOM in December, 2017 and many alternatives were evaluated. The purpose of this project is to implement the recommended alternative which is to convert the existing finished water well to a raw water supply and provide improvements to the site to minimize the impacts to the floodway. Some key features of the project are as follows:

- The existing concrete block building will be removed and a new D-shaped structure will be installed. There will be no increase in the base flood elevation. The proposed structure has a smaller footprint and will have vents to allow water to flow through it and equalize the pressure around the structure during periods of moving water. Refer to Drawing 99 C-301 for a cross section of the floodway.
- The well water is currently treated with caustic for pH adjustment and sodium hypochlorite for disinfection. Chemicals are stored in containers in the building as depicted in the photos provided in this application. The chemicals will no longer be required when the well is converted to raw water and will be removed from the site out of the floodway.
- The electrical and instrumentation panels are currently located inside the existing building. The new panels will be installed on top of the proposed structure above the 500-year flood elevation as shown on the plan and section drawing provided. Refer to Drawing 01 D-102.

- Since the volume of water this well can provide is small, this well is expected to be used only when necessary during drought-like conditions.
- This project falls under Connecticut General Statutes Section 16-235 for raw water utilities and a local inland wetlands and watercourses permit is not required; However, as shown on Drawing 01 D-102, the proposed improvements were located out of the inland wetland area. Activities shall be constructed to avoid and minimize adverse effects, both temporary and permanent, to the site.

Construction is tentatively planned for the Summer of 2024 to work in a period of typically dry weather and low stream flow periods. The construction period is expected to take 4 to 6 months from the notice to proceed to the restoration of the site. The site shall be restored to the pre-construction conditions at the end of the construction period.

C. Erosion and Sedimentation Controls

All erosion and sedimentation controls shall be installed in accordance with the plans and details. Refer to the erosion and sedimentation Control notes on the drawings and Aquarion Water Company's details SD-23 through SD-30 (attached) that are also included in the contract documents. The Contractor shall be responsible for the installation, inspection, maintenance and removal of all sedimentation and erosion control measures. All measures shall be inspected by the contractor regularly during dry weather and after each period of rainfall. Repair or replacement of damaged sedimentation or erosion control measures shall be done immediately. There shall be no stockpiling or disposal of surplus material within or immediately adjacent to the wetlands or watercourses or the upland review areas.

Where necessary, construction/timber mats shall be used to support the equipment in such a way as to minimize disturbance of the site. Construction mats can be placed to cross the Rippowam River and its upland review area. Construction mats should be managed in accordance with best management practices (BMPs) including the following:

- Mats should be in good condition to ensure proper installation, use and removal;
- Erosion and sedimentation controls shall be installed at approaches to mats to promote a smooth transition to and minimize sediment tracking onto the mats.

D. Dewatering during Construction

Any water that is pumped and discharged from the excavation as part of the Contractor's water handling shall be filtered by an approved method prior to its discharge into a receiving water or drainage system.

Under no circumstances shall the Contractor discharge water to the areas designated as wetlands. The Contractor shall discharge water from dewatering operations directly to the nearest drainage system, stream, or waterway after filtering by an approved method.

The pumped water shall be filtered through a geotextile dewatering bag or filter fabric and baled hay/straw to trap sediment occurring as a result of the construction operations. Accumulated sediment shall be cleared periodically.

E. Drainage

The existing drainage patterns will remain on the site. The site will be restored to its original grade and there are no proposed paved areas. AWC shall inspect the chain link fence after each flooding event and remove and dispose of any accumulated debris.

The existing structure was an impervious concrete block structure. The new "D-shaped" structure will have vents to allow water to flow through it when the water elevation rises.

F. Biological Impact

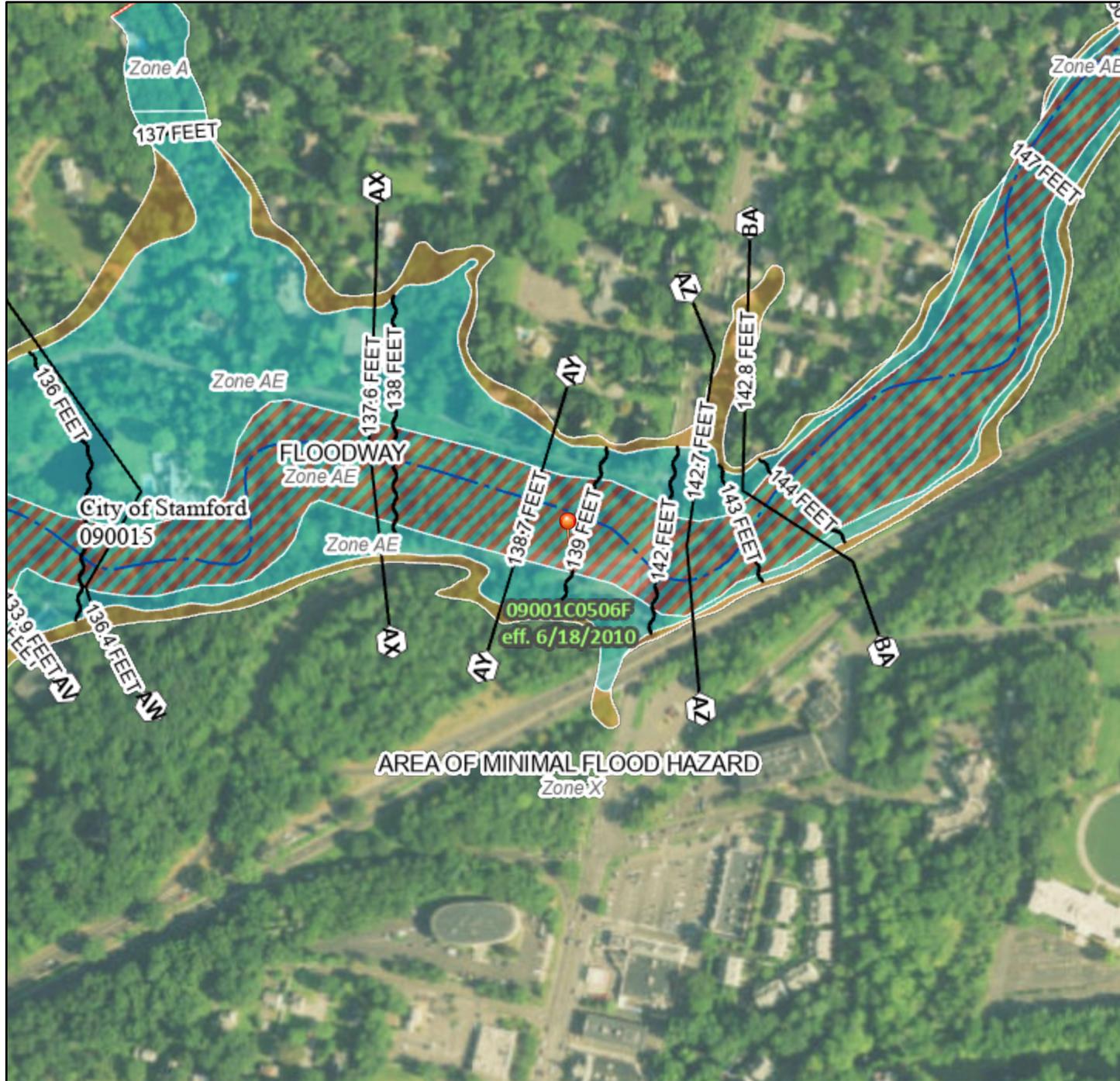
A review of the biological conditions at the site was conducted. The following is a summary of what was found. No impacts are anticipated.

- U.S. Fish and Wildlife Service Threatened and Endangered Species Consultation: The project was reviewed for the presence of federally listed or proposed, threatened, or endangered species or critical habitat, which is required for projects with federal involvement according to the procedure identified by the US Fish and Wildlife Service (USFWS). According to the CT NDDDB map dated June, 2023, the parcel is not identified as critical habitat for threatened & endangered species by the USFWS under the Endangered Species Act.
- The NDDDB Northern Long-eared Bat Map was reviewed and the bat is not found in this area.
- There is a recent DEEP requirement to review freshwater mussel areas. The Rippowam River is not shown as a location for freshwater mussels on the website.

National Flood Hazard Layer FIRMMette



73°33'8"W 41°7'N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **4/13/2023 at 1:44 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

73°32'31"W 41°6'33"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Recent Photographs of Wire Mill Well Site

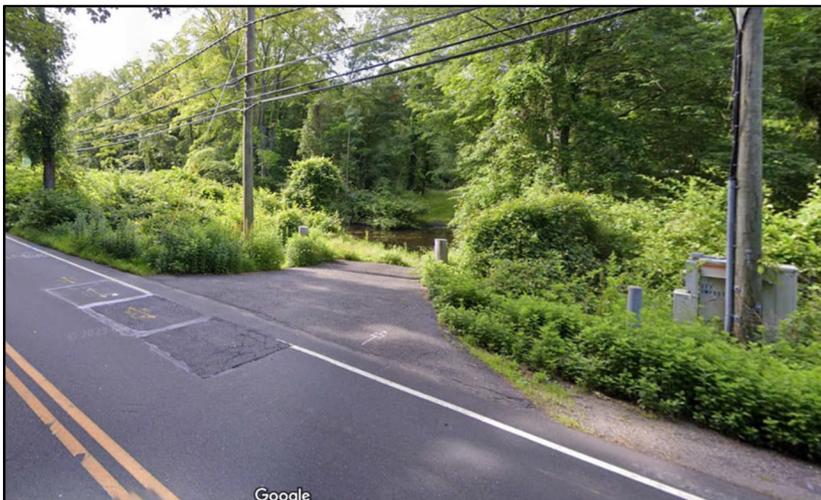
Recent Photographs of the Wire Mill Well Site



*Existing Structure and Site
looking South*



*Existing Structure and Site
looking North*



*Driveway off
Wire Mill Road*

Recent Photographs of the Wire Mill Well Site



*Chemicals will be Removed
when Well is Converted*



*Existing Enclosures will be removed
and New Enclosures will be installed
above the 500-year Floodplain*



Existing Driveway looking North

Property Deed

0 Wire Mill Road

EXHIBIT A

Beacon Falls
Bethel
Bridgeport
Canaan
Cornwall
Danbury
Darien
East Granby
Easton
Fairfield
Goshen
Granby
Kent
Litchfield
Monroe
New Canaan
New Fairfield
Newtown
Norfolk
North Canaan
Oxford
Redding
Ridgefield
Salisbury
Seymour
Sharon
Shelton
Sherman
Simsbury
Southbury
Stamford
Stratford
Torrington
Trumbull
Weston
Westport
Wilton
Woodbridge

THE LAND AFFECTED HEREBY LIES IN BLOCK
____ OF THE STAMFORD BLOCK MAP;
RECEIVED FOR RECORD AT STAMFORD, CT
ON 5-21-02 AT 10:42 AM
ATTEST: DONNA M. LOGLIOSI, CITY & TOWN CLERK

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING:

KNOW YE, That the State of Connecticut, acting herein by Howard S. Ives, its Highway Commissioner, hereunto duly authorized under authority granted by Public Act #226, Section 80, of the 1963 January Session of the General Assembly of the State of Connecticut, and with the advice and consent of the Commissioner of Finance and Control of the State of Connecticut, for the consideration of One Dollar and other valuable considerations received to its full satisfaction of The Stamford Water Company, a corporation specially chartered by the General Assembly of the State of Connecticut, located in the City of Stamford, County of Fairfield and State of Connecticut, does remise, release and forever Quit-Claim unto the said The Stamford Water Company, its successors and assigns forever, all the right, title, interest, claim and demand whatsoever as it, the said Releasor, has or ought to have in or to that certain parcel of land, situated in the City of Stamford, County of Fairfield and State of Connecticut, on the southerly side of Wire Mill Road, and containing 3.00 acres, more or less, bounded and described as follows:

Beginning at a point in the southerly highway line of Wire Mill Road at the division line between lands now or formerly of John T. Ostheimer et al. and of the Releasor herein;

- THENCE - easterly, along said southerly highway line, 424.81 feet, to a point 27 feet westerly, measured along said southerly highway line, from a Connecticut Highway Department Monument;
- THENCE - along land of the Releasor herein, along the northerly highway line of the Merritt Parkway right of way, as established by this instrument, south $16^{\circ}-04'-59''$, west, 213.27 feet, to a point 90 feet northerly from and measured radially to the base line of Ramp "B" of the Merritt Parkway; and westerly and southwesterly, along a line which is 90 feet northerly and northwesterly from and concentric with said base line, 479.28 feet, to land of aforesaid John T. Ostheimer et al.;
- THENCE - northerly, along land of said John T. Ostheimer et al., 485.60 feet, to the point of beginning.

The premises herein described consist of a portion of Parcel "D" of the premises acquired from Catherine Dunn, by a Warranty Deed, dated September 11, 1936 and recorded in the Stamford Land Records in Volume 458 at Page 26.

It is expressly understood and agreed that all rights of Ingress and Egress are specifically denied, directly to and from the right of way location of the Merritt Parkway, from and to the land herein conveyed.

The Releasor herein hereby reserves the right to discharge surface water upon and over the above described premises from a culvert shown on map herein referred to.

The above described premises are conveyed subject to such rights and easements as may appear of record and to any state of facts which an inspection of the premises may show.

It is expressly understood and agreed that this deed does not convey title in fee simple in and to the roadway lying between the premises herein described and the center line of the Merritt Parkway or of any of its ramps.

It is a condition of this deed, and the Releasee herein, for itself, its successors and assigns, hereby agrees that no building, structure or sign will be erected or placed upon the premises herein described within the area thereof which is southerly and southeasterly of a line which is 120 feet northerly and northwesterly from and concentric with the base line of Ramp "B" aforesaid.

For a more particular description of the above described premises, reference is made to a map to be filed in the Stamford Town Clerk's Office, entitled: "Town of Stamford, Map showing land to be released to Stamford Water Company by The State of Connecticut, Merritt Parkway, Scale 1"=40', September 1963, Howard S. Ives, Highway Commissioner."

TO HAVE AND TO HOLD the premises, with all the appurtenances, unto the said Releasee, its successors and assigns forever, so that neither it, the said Releasor, nor its successors, nor any other person or persons under it or them shall hereafter have any claim, right or title in or to the premises, or any part thereof, but therefrom it is and they are by these presents forever barred and excluded.

IN WITNESS WHEREOF, the State of Connecticut, acting herein by Howard S. Ives, its Highway Commissioner, has caused its seal to be hereunto affixed, and this instrument to be executed in its behalf, this 4th day of October A.D. 1963.

Signed, Sealed and Delivered in the presence of

Nicholas N. Turley
NICHOLAS N. TURLEY
MAE I. DALY

STATE OF CONNECTICUT
By Howard S. Ives (S.S.)
State Highway Commissioner

STATE OF CONNECTICUT } ss. Wethersfield, Ct. A.D. 1963.
COUNTY OF HARTFORD }

Personally appeared for the State of Connecticut, Howard S. Ives, its Highway Commissioner, signer and sealer of the foregoing instrument, and acknowledged the same to be the free act and deed of the State of Connecticut, and his free act and deed in the aforesaid capacity, before me,

Nicholas N. Turley
Notary Public
NICHOLAS N. TURLEY

1069 410

-3-

This conveyance is made with the advice and consent of the undersigned, in conformity with Public Act #226, Section 80, of the 1963 January Session of the General Assembly of the State of Connecticut.

George J. Conkling
George J. Conkling
Commissioner of Finance & Control
of the State of Connecticut

APPROVED
AS TO FORM

Louis A. Clapes
L. A. Clapes
CITY AND TOWN CLERK

The land affected hereby lies in Block 378 of the Stamford Block Map. Received for record on Jan. 21, 1966 at 11:40 A.M. and recorded by

Louis A. Clapes, City and Town Clerk

**Names and Mailing Addresses of Property Owners
advised of the filing of the application including:**

- **USPS Certificate of Mailing**
- **Copies of the Letters**

Names and Addresses of Property Owners within 250' of 0 Wire Mill Road

Owner	Owner Address	City	Zip
Gregory and Maureen Shulas	622 Wire Mill Road	Stamford, CT	06903-4708
William Wilson	614 Wire Mill Road	Stamford, CT	06903-4708
Cosmo and Joyce Mirizio	612 Wire Mill Road	Stamford, CT	06903-4708
Adam J. Whittingham	606 Wire Mill Road	Stamford, CT	06903-4708
Georgette Bateman	598 Wire Mill Road	Stamford, CT	06903-4708
Leon Roberto Rev Trust	21 Blackwood Lane	Stamford, CT	06903-4734
Gerald Backman Rev. Trust	6120 SW 102nd Street	Miami, FL	33156-1919
Guo Charles Xiao Qing & Zhou Weiou Sur	86-15 Broadway #2A	Elmhurst, NY	11373
Archa Saran	22 Blackwood Lane	Stamford, CT	06903-4731
503 Wire Mill Road LLC	503 Wire Mill Road	Stamford, CT	06903
503 Wire Mill Road LLC	503 Studio Road	Stamford, CT	06905
State of Connecticut	450 Capitol Avenue	Hartford, CT	06106
City of Stamford	888 Washington Boulevard	Stamford, CT	06901

Source: <https://westcoct.mapgeo.io>



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Maureen and Gregory Shulas
622 Wire Mill Road
Stamford, Connecticut 06903-4708

RE: Aquarion Water Transmission Main project

Dear Mr. and Mrs. Shulas,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

William Wilson
614 Wire Mill Road
Stamford, Connecticut 06903-4708

RE: Aquarion Water Transmission Main project

Dear Mr. Wilson,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Cosmo and Joyce Mirizio
612 Wire Mill Road
Stamford, Connecticut 06903-4708

RE: Aquarion Water Transmission Main project

Dear Mr. and Mrs. Mirizio,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Adam J. Whittingham
606 Wire Mill Road
Stamford, Connecticut 06903-4708

RE: Aquarion Water Transmission Main project

Dear Mr. Whittingham,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Georgette Bateman
598 Wire Mill Road
Stamford, Connecticut 06903-4708

RE: Aquarion Water Transmission Main project

Dear Ms. Bateman,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Roberto Leon, Rev. Trust
21 Blackwood Lane
Stamford, Connecticut 06903-4734

RE: Aquarion Water Transmission Main project near 578 Wire Mill Road

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Gerald Backman, Rev. Trust
6120 SW 102nd Street
Miami, FL 33156-1919

RE: Aquarion Water Transmission Main project near 546 Wire Mill Road

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Guo Charles Xiao Qing & Zhou Weiou
86-15 Broadway 2A
Elmhurst, NY 11373

RE: Aquarion Water Transmission Main project near 543 Wire Mill Road

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

Archa Saran
22 Blackwood Lane
Stamford, CT 06903-4731

RE: Aquarion Water Transmission Main project

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

503 Wire Mill Road LLC
0 Studio Road
Stamford, CT 06903

RE: Aquarion Water Transmission Main project near 503 Wire Mill Road

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

503 Wire Mill Road LLC
503 Studio Road
Stamford, CT 06905

RE: Aquarion Water Transmission Main project near 503 Studio Road

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

State of Connecticut
450 Capitol Avenue
Hartford, CT 06106

RE: Aquarion Water Transmission Main project near 0 High Ridge Road

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM



AECOM
500 Enterprise Drive, Suite 1A
Rocky Hill, CT 06062

(860) 263-5800 tel
(860) 263-5777 fax

September 14, 2023

City of Stamford
888 Washington Boulevard
Stamford, CT 06901

RE: Aquarion Water Transmission Main project near 0 High Ridge Road

To Whom it May Concern,

On behalf of the Aquarion Water Company, this correspondence serves as the required notification pursuant to the Inland Wetlands and Watercourse Regulations of the City of Stamford that an application to conduct regulated activities has been filed with the Stamford Environmental Protection Board (EPB).

Aquarion Water Company is seeking to make improvements to an existing well located approximately 220' south of Wire Mill Road in Stamford.

The application procedures of the EPB require that this notice be provided to surrounding property owners. Any questions may be directed to Bill Dwinells at 203-337-5906 or bdwinells@aquarionwater.com.

Sincerely,

Maureen Crowley, P.E.

AECOM

cc: Bill Dwinells, Aquarion Water Company
Peter Sammis, AECOM

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 5978 30

503 Wire Mill Road LLC
503 Wire Mill Rd
Stamford CT 06903-4716

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443192

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 5932 83

Archa Saran
22 Blackwood Ln
Stamford CT 06903-4731

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443241

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 5722 19

Guo Charles Xiao Qing
Zhou Weiou Sur
8615 Broadway Apt 2a
Elmhurst NY 11373-5822

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443236

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 5894 16

503 Wire Mill Road LLC
503 Studio Road
Stamford CT 06905

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001455004

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3018 6425 26

Gerald Backman Rev. Trust
6120 Sw 102nd St
Pinecrest FL 33156-1919

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443211

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 2069 54

Leon Roberto Rev Trust
21 Blackwood Ln
Stamford CT 06903-4734

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



06250014980426

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 2860 24

Georgette Bateman
598 Wire Mill Rd
Stamford CT 06903-4708

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443337

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 2562 87

Adam J. Whittingham
606 Wire Mill Rd
Stamford CT 06903-4708

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



06250014980422

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 2279 11

Cosmo and Joyce Mirizio
612 Wire Mill Rd
Stamford CT 06903-4708

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



06250014360462

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 2929 71

William Wilson
614 Wire Mill Rd
Stamford CT 06903-4708

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443337

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 2314 82

Gregory and Maureen Shulas
622 Wire Mill Rd
Stamford CT 06903

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443340

Maureen Crowley
AECOM
500 Enterprise Dr Ste 1a
Rocky Hill CT 06067-3913

CERTIFIED MAIL®



9414 8112 0620 3016 5245 84

State of Connecticut
450 Capitol Ave
Hartford CT 06106-1365

\$7.180
US POSTAGE
FIRST-CLASS
FROM 06067
09/14/2023
stamps
endicia



0625001443337

**Acknowledgement of Electronic Submission
To CT Department of Public Health
For Projects Located within Aquifer Protection Area**

Crowley, Maureen

From: Microsoft Power Apps and Power Automate <microsoft@powerapps.com>
Sent: Thursday, September 14, 2023 4:10 PM
To: Crowley, Maureen
Subject: Acknowledgement of Submission to CTDPH

This Message Is From an External Sender

This message came from outside your organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Report Suspicious

This email is being sent automatically to confirm your submission of a project notification form to the Connecticut Department of Public Health pursuant to Connecticut General Statutes Section 8-3i and/or 22a-42f.

A project notification form is required to be completed and submitted to the Department of Public Health when an application, petition, request or plan is located in a Drinking Water Source Watershed or Aquifer Protection Area.

Thank you for your submission. If you have any questions, please send an email to dph.sourceprotection@ct.gov.

Aquarion Water Company plans to convert a finished water well to a raw water well and make improvements to it at the Wire Mill Well site located at 0 Wire Mill Road.

It is a water supply well for Aquarion Water Company. The next question (#12) doesn't apply - no domestic waste service.

Onsite septic system (existing)

Maureen Crowley, AECOM on behalf of Aquarion Water Company

The well is not used on a regular basis. It is used when there are drought-like conditions. By converting the well to a raw water well, all chemicals will be removed from the structure and the electrical and instrumentation panels will be raised to be above the 500-year flood elevation.

No

less than 5 acres

0 Wire Mill Road, Stamford. Near the intersection with High Ridge Road.

Yes

41.1132

-73.5489

maureen.crowley@aecom.com

No

Yes

Institutional (school, hospital, nursing home, etc.)

2023-09-15

["Inland Wetlands Commission"]

No

anonymous

If you want to unsubscribe from these emails, please use this [form](#).

Soils Scientist Report

Soil Resource Consultants

P.O. Box 752

Meriden, CT 06450

June 16, 2023

SRC Job No. 23-16

David Nafis
Nafis & Young Engineers, Inc.
1355 Middletown Avenue
Northford, CT 06472

Dear Mr. Nafis:

Re: Wetland Delineation – Property Along Wire Mill Road – Stamford, CT

At your request, I have completed an onsite investigation of this site. The purpose of my investigation was to identify and delineate the onsite inland wetlands and watercourse boundaries. The field work was completed on June 5, 2023.

The wetland and watercourse boundaries were marked with blue plastic flagging numbered **WF -1** through **WF-30**. Please refer to the enclosed sketch for the approximate location of the inland wetland and watercourse boundaries and selected wetland flag numbers. The sketch is not drawn to scale but is a field drawn representation of wetland and watercourse configurations. Flag numbers at property lines and other readily identifiable landmarks can be used to locate wetland lines in the field..

The wetland soil map prepared for this site is a refinement of data found in the **Soil Survey of Fairfield County**. Each map unit is composed of a unique combination of soils. Areas with the same symbol have a similar soil composition.

The map units described below are based on data collected at this particular site. Soil surveys in Connecticut were originally conducted for primarily agricultural purposes and do not provide site specific information. The minimum area delineated on a soil survey map sheet is approximately 2-3 acres in size. For this reason there may be some differences between the following information and that published in the Soil Survey.

INLAND WETLAND SOILS

The identification of inland wetland areas on this site is based on my field observations of test borings and the guidelines of the **National Cooperative Soil Survey Program**. Test borings were done using a shovel and or hand auger.

In Connecticut inland wetland soil categories include poorly drained soils, very poorly drained soils, alluvial and flood plain soils.

Wetland Delineations Wetland Impact Evaluations Environmental Planning

Aq

The **Aq** map unit consists primarily of disturbed soil materials with poorly drained characteristics generally less than 20 inches down from the existing soil surface. The natural soil profile has been disturbed by previous filling and or grading activities. Classification into natural soil map units is not possible. This map unit is referred to taxonomically as - Aquents.

Lc (4)

The **Lc** map unit is composed primarily of Leicester extremely stony soils on 0 to 5 percent slopes. Leicester soils are very deep, poorly drained soils which formed in loamy glacial till derived from gneiss and schist. Typically they have fine sandy loam textures to a depth of 60 inches or more.

W\C

The **W\C** designation refers to the existence of a watercourse on the subject property. The watercourse is a well defined channel or ditch area that conveys excess surface water runoff from its drainage area as well as groundwater seepage areas and or inland wetland soil areas. Wetland soils may not occur in all locations along the watercourse channel.

NON-WETLAND SOILS

The non-wetland soils were not studied or mapped in detail. Some observations were made of these soils during the process of identifying the inland wetland areas. Random soil borings in upland areas were marked with pink and black stripped plastic flagging. The following map unit descriptions do not constitute a detailed soil investigation of these upland areas, but may be used as a guide in site planning.

Hk (38)

The **Hk** map unit consists primarily of Hinckley soils on 3 to 15 percent slopes. Hinckley soils are very deep and excessively drained. These soils formed in glacial outwash materials. Typically Hinckley soils have gravelly sandy loam surface and subsoil layers overlying stratified sand and gravel to a depth of 60 inches or more.

Ud (306)

The **Ud** map unit consists of moderately well to well drained disturbed soils. It is composed of filled areas and areas consisting of both cut and fill. Soils in this map unit have been extensively disturbed by grading and excavation/extraction activities associated with the existing developed\altered portions of this site.

Classification into natural soil units is impossible. This map unit is referred to taxonomically as Udorthents. Original diagnostic soil horizons are not present. Soils in this map unit have a wide range of characteristics. Textures are predominantly gravelly sandy loams. Permeability can be variable due to the lack of soil profile structure caused by the grading activities.

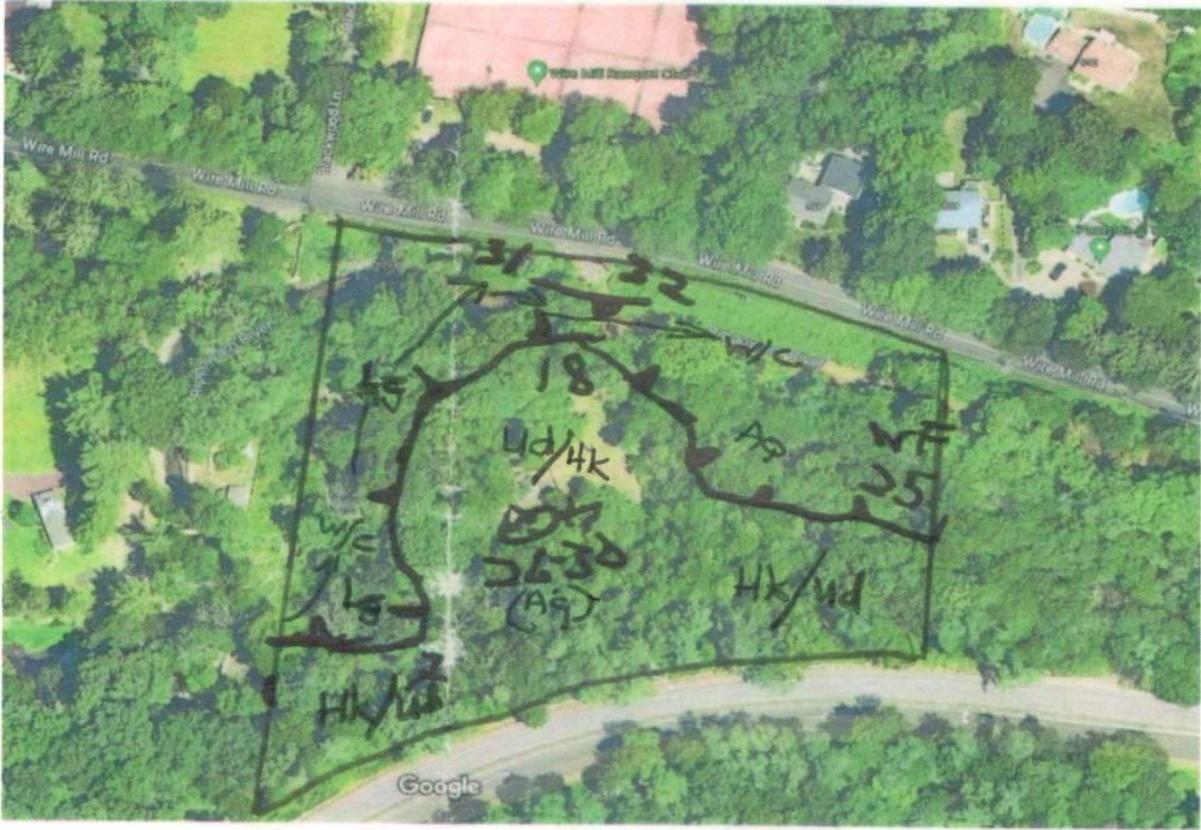
If you have any questions regarding this report, or need additional assistance with this site, please contact me. Environmental planning and wetland impact evaluation services are also available upon request. I am available to attend Inland Wetland Commission meetings and site walks.

Sincerely,

A handwritten signature in blue ink that reads "David H. Lord". The signature is written in a cursive style with a large initial "D" and "L".

David H. Lord
Certified Soil Scientist
& Environmental Consultant

Wire Mill Rd Stamford, CT



Imagery ©2023 CNES / Airbus, Maxar Technologies, New York GIS, Map data ©2023 G

Soil Resource Consultants
P. O. Box 752 Meriden, CT 06450
Inland Wetlands Not to Scale
26-5-23/F1-32