OWNER
VILLAGE ON HASTINGS
DEPARTMENT OF PARKS AND RECREATION
HASTINGS ON HUDSON, NEW YORK 10706

ENGINEER
RIMKUNAS ENGINEERING, P.L.L.C.
AQUATIC ENGINEERING AND CONSTRUCTION MANAGEMENT
44 ELM STREET, SUITE 10
HUNTINGTON, NY 11743
631-470-6115

MARCH 2022

D.O.H. APPROVAL

NOTE:
1036 G-001 TITLE SHEET
LOCATION PLAN

LOCATION PLAN
N.T.S.
GENERAL NOTES:

- NOT ALL POOL PIPING AND ACCESSORIES SHOWN FOR CLARITY
- PREVIOUS VERSION IS NOT CURRENT
- SOLENOID VALVE SHOWN FOR CLARITY
- LEGEND SHOWN FOR CLARITY

EQUIPMENT TO BE CLEANED OF ALL MUD AND DEBRIS. FILTER ROOM AND WALLS, CEILING, FLOOR, PIPES, FILTERS AND REMAINING CONTROL BOXES. FILTER ROOM AND WALLS, CEILING, FLOOR, PIPES, FILTERS AND REMAINING CONTROL BOXES. FILTER ROOM AND WALLS, CEILING, FLOOR, PIPES, FILTERS AND REMAINING CONTROL BOXES.

FILTER ROOM DEMOLITION PLAN

SCALE: 1/2" = 1'-0"

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GENERAL NOTES:

1. ALL PIPING TO BE FULLY SUPPORTED PROPERLY. PROVIDE MODERN FITTINGS AND STRUCTURES AS NEEDED.
2. PIPE SUPPORTS AND UNIONS TO BE STAINLESS STEEL.
3. COMPONENTS TO INCLUDE EQUIPMENT AND RELATED GASKETS, BOLTS,washers, and related hardware. Connection Parts to include valves, strainers, and accessories. Recommended equipment to include pumps, valves, and accessories.
4. PIPING TO BE INSULATED IN INCIDENT LENGTHS OF PIPE AS SPECIFIED BY MANUFACTURER.
5. PROVIDE DRAIN VALVES AT LOW POINTS OF SYSTEM.
6. INSTALL NEW AIR TANKS IN AUTOMATIC CLEANINGユニット.
7. INSTALL NEW SIGHT GLASS.
8. INSTALL MOTOR STARTER.
9. INSTALL RELAY AT CHEMICAL CONTROLLER.
10. INSTALL NEW SOLENOID VALVE IN AUTOMATIC CLEANINGユニット.
11. INSTALL CONTAINMENT SHELF FOR CHLORINE PUMPS ON MAIN POOL.
12. INSTALL FILTER MEDIA. (TYP. 3)
13. INSTALL PVC BOARD ON KINDORF SUPPORT STRUCTURE.
14. INSTALL VFD FOR RECIRCULATION PUMPS. (TYP. 3 PUMPS)
15. INSTALL VACUUM AND PRESSURE GAUGES AT FILTER PANEL. CONNECT TO EXISTING TUBING AND CONFIRM PROPER PERFORMANCE.
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17. INSTALL FLEXIBLE SUPPLY AND DISCHARGE RAMP UP/DOWN AT A SLOW RATE.
18. INSTALL NEW PADDLE WHEEL FLOW SENSOR (TYP. 6)
19. INSTALL CHEMICAL CONTROLLER, FLOWCELL, AND RESET PROBES TO PROPER LEVELS.
20. INSTALL PERISTATIC PUMP WITH NEW FLEXIBLE SUPPLY AND DISCHARGE.
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123. INSTALL CONTAINMENT SHELF FOR CHLORINE PUMPS ON MAIN POOL.
124. INSTALL FILTER MEDIA. (TYP. 3)
1. SIGNET 9900 TO BE MOUNTED AT POOL CONTROL PANEL.

NOTES:

1. **FILTERED RETURN PIPE** FROM POOL TO FILTER

2. **CHLORINE FEEDER PUMP** CONTAINMENT SHELF

3. **FLOW METER**

4. **FLOW SENSOR**

5. **FLOW SWITCH**

6. **FLOW CONTROL VALVE**

7. **RELAY**

8. **ELEVATION**

9. **PLAN**

10. **CONTAINMENT SHELF**

11. **MOUNTING BOARD**

12. **PERISTALTIC PUMP**

13. **CONCRETE PEDESTAL**

14. **CONCRETE PAD**

15. **STRAINER**

16. **MAIN POOL**

17. **WADING POOL**

18. **TRAINING POOL**

19. **POOL CONTROL PANEL**

20. **ANTI-ALGAE SYSTEM**

21. **CHEMICAL CONTROL UNIT**

22. **PUMP INSTALLATION**

23. **NEW PUMP**

24. **MODIFY EXISTING PIPING AND CONCRETE PEDESTAL AS NEEDED TO INSTALL NEW PUMP.**

25. **PRODUCTS TO BE USED:**

   - Flow Control Valve
   - Chlorine Feeder
   - Chemical Controllers
   - Peristaltic Pumps
   - Elevation Control Valves
   - Relays
   - Elevation Control Units
   - Chemical Feeders
   - Pumps
   - Conduit and Wiring
   - Mounting Boards
   - Panel Sections
   - Unistrut Systems
   - Fasteners

26. **NOT TO SCALE**

27. **NOTES:**

   - Flow Control Valve Removal
   - Chlorine Feeder Pump Containment Shelf
   - Pool Control Panel

28. **PROJECT ENGINEER:**

   - Rimkus Engineers, P.L.L.C.

   - 44 Elm Street, Huntington, New York 11743

   - 631.470.6115

   - P.L.L.C.
The swimming pool facility shall not be utilized until such time that an operation permit has been issued.

Feeders shall be capable of supplying disinfectant to the pool in the range of 10mg/l chlorine or equivalent.

Provide compound pressure/vacuum gauge at suction side of pump and pressure gauge at discharge side of pump.

Multiple pumps or filters shall each have a flow regulating device installed.

Valve tags shall be affixed to valves in the pool area and filter room indicating function and location of numbered valves.

All valves shall be tagged with 2" diameter brass tags labeled with the valve number that corresponds to the label of certification.

Thrust blocks must be installed at all bends and valves in buried piping. Thrust block design shall be based on an assumed soil bearing capacity of 1 ton per square foot.

Label of Certification, Article 680 of the National Electric Code.

Ground Fault Interrupter Circuits shall be provided for all lighting, equipment and electrical circuits in the pool area. All electrical work shall conform to the Uniform Code and the National Electric Code. All electrical work shall be performed by an electrician licensed in the project's jurisdiction.

All electrical work shall conform to the Uniform Code and the National Electric Code. All electrical work shall be performed by an electrician licensed in the project's jurisdiction.

All water introduced to the pool or pool systems shall be supplied through a 6" air gap or other device to prevent backflow. A connection is assumed to be 50 psi.

Chemical Storage

Flow Regulation

Flow Measurement

Pump

Strainer Open Area

Valve Chart

Valve Tags

Thrust Blocks

Unions or Flanged Connections

Pitch

Installation

Color Coding

Velocities

Material

Emptying Pool

Pool Filter Waste

Water Supply / Pressure

Interlocks

Grounding

Bonding

GFIC

Overhead Clearance

Codes

Codes

Health.
# Swimming Pool Equipment List

## Pool Calculations - Head Loss Summary

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>QTY</th>
<th>Size (in)</th>
<th>Velocity</th>
<th>Loss/Unit</th>
<th>FT-Head</th>
</tr>
</thead>
</table>

## Swimming Pool Equipment List

<table>
<thead>
<tr>
<th>Item</th>
<th>Make &amp; Model</th>
<th>Description / Remarks</th>
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</thead>
<tbody>
<tr>
<td>Item 1</td>
<td>Type 1</td>
<td>Details of Item 1</td>
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<tr>
<td>Item 2</td>
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<td>Details of Item 2</td>
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<td>Item 3</td>
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<td>Item 4</td>
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<tr>
<td>Item 5</td>
<td>Type 5</td>
<td>Details of Item 5</td>
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### Notes
- All pipe head losses based on Williams and Hazen formula using constant 130 for a dirty pipe.
- Not to scale.
- Plans and specifications are subject to change.
Panels shall consist of an assembly of molded case circuit breakers and bus assembly installed in a

Multiple pole breakers shall be single handle, common trip.

The panel sections shall be mounted away from the back of the cabinet trim and framed.

DATE

The gutter space on sides, top and bottom shall be of sufficient size to prevent overcrowding

Cabinets shall be complete with door in door, hinged doors with cylinder lock, directory frame

WORK INCLUDED

ELECTRICAL SPECIFICATION

3.FEES

2.CODES, REGULATIONS AND STANDARDS

1.Work under the electrical contract shall include all labor, materials, equipment, plant services and

a. Remove all construction debris resulting from the work.

b. Guarantee shall include complete maintenance of the system, including replacement parts, conformance to the specified codes and standards. Defective or damaged materials shall be treated by the contractor, and every part and system shall be in good working order.

c. Materials and equipment provided shall be new and approved for the application and shall be of the best practices of their trade, and under continuous, competent supervision. The work shall be performed in strict conformance to the plans and specifications.

f. The routing of conduits indicated on the drawings is diagrammatic. Before installing any conduit, the installer shall note the size, location, and spacing of all conduits and make sure they are in the correct place. The installer shall be familiar with the NEC and all local authorities having jurisdiction.

h. Provision to automatically disconnect any separate source control voltage.

t. Grounding of electrical systems and equipment and pool equipment per Articles 250 and

o. Motor starters, control wiring and contactors, relays and control panels as described in control sequence.

l. Complete wiring systems for power installations and branch circuits to equipment including

m. A sound electrical grounding system shall be installed as required for the motor served. Starters shall be furnished with the following:

b. Magnetic, on-off control contactor with overload protection and under-voltage protection or

c. Twist lock plugs shall be yellow corrosion resistant, NEMA L5-20P, 120/208 volts, four wire plus

d. Where hard-drawn, stranded (ASTM B8) copper.  The minimum size nameplates shall be three inches long with 1/4 inch lettering.

i. Hard-drawn, stranded (ASTM B8) copper.

j. The characteristics of the secondary electric service and distribution system are

k. Properly test the phase rotation of feeder and branch circuits, and make such

f. Arrange a green insulated ground conductor with all feeders and branch circuits.

e. The resistance to ground of any part or system specified to be grounded shall not exceed 25

d. All metallic conduits shall be bonded to the building metal framework, including conduit

e. Grounding of electrical systems and equipment and pool equipment per Articles 250 and

h. Use of a green or yellow-insulated conductor is required for ground faults. All metallic

g. No extra will be allowed for failure to notify the owner in writing of any

i. Upon completion of the work, furnish to the owner in AutoCAD, "AS-BUILT" drawings.

j. Upon completion of the work, furnish to the owner in AutoCAD, "AS-BUILT" drawings.

k. Coordinate nameplates with actual equipment installed.

l. Drawings shall be executed in accordance with the following:

m. Conductors and Connections:

n. Devices shall be marked and identified with permanent nameplates securely fastened with stainless steel screws.

o. Potential transformers shall be yellow corrosion resistant, NEMA L5-20P, 120/208 volts, four wire plus

p. Conductors shall be of the best practices of their trade, and under continuous, competent supervision. The work shall be performed in strict conformance to the plans and specifications.

q. Provide a green insulated ground conductor with all feeders and branch circuits.

r. Provide a green insulated ground conductor with all feeders and branch circuits.

s. Provide a green insulated ground conductor with all feeders and branch circuits.

t. Provide a green insulated ground conductor with all feeders and branch circuits.

u. Complete wiring systems for power installations and branch circuits to equipment including

v. Motors and equipment shall be of the best practices of their trade, and under continuous, competent supervision. The work shall be performed in strict conformance to the plans and specifications.

w. Luminaries shall be new and approved for the application and shall be of the best practices of their trade, and under continuous, competent supervision. The work shall be performed in strict conformance to the plans and specifications.

x. Electric service shall be of the best practices of their trade, and under continuous, competent supervision. The work shall be performed in strict conformance to the plans and specifications.

y. Grounding of electrical systems and equipment and pool equipment per Articles 250 and

z. Motors and equipment shall be of the best practices of their trade, and under continuous, competent supervision. The work shall be performed in strict conformance to the plans and specifications.

aa. Provide a green insulated ground conductor with all feeders and branch circuits.

bb. Provide a green insulated ground conductor with all feeders and branch circuits.

cc. Provide a green insulated ground conductor with all feeders and branch circuits.

REFERENCE DRAWINGS ES-1.

LOCATED APPROXIMATELY 55' NORTH OF THE BATHHOUSE AND THE FILTER ROOM. SEE

5. THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM THE SITE ALL ELECTRICAL OR ARE OTHERWISE DAMAGED.

WITH CON EDISON FOR ANY SHUTDOWNS AND DISCONNECTION OF THE SERVICE 3. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE THE TWO SETS OF

THE EXTENT OF THE DEMOLITION WORK.

2. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT THE POOL RECIRCULATION

THE TRAINING POOL

THE MAIN POOL

THE WADING POOL

THE CHEMICAL PUMP

THE LEAK DETECTION PANEL

THE PUMPS

THE ELECTRICAL CONTRACTOR SHALL REMOVE THE TWO SETS OF

THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL METERING AND SERVICE PANELS, CONTROL PANELS, CONTROL CORDS, PANEL AND BOXES USED TO CONTROL ANY EQUIPMENT ON THE CONSTRUCTION SITE.

THE CONTRACTOR SHALL REMOVE THE EXISTING METERING AND SERVICE PANELS, CONTROL PANELS, CONTROL CORDS, PANEL AND BOXES USED TO CONTROL ANY EQUIPMENT ON THE CONSTRUCTION SITE.

THE CONSTRUCTION SHALL REMOVE THE EXISTING METERING AND SERVICE PANELS, CONTROL PANELS, CONTROL CORDS, PANEL AND BOXES USED TO CONTROL ANY EQUIPMENT ON THE CONSTRUCTION SITE.

THE CONSTRUCTION SHALL REMOVE ALL ELECTRICAL MATERIALS AND EQUIPMENT FROM THE SITE AND HAND IT OVER TO THE VILLAGE OF HASTINGS-ON-HUDSON.

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FILTER ROOM LIGHTING PLAN

SCALE: N.T.S.

ONE LINE DIAGRAM

SCALE: N.T.S.

POOL OUTDOOR LIGHTING CONTROL DIAGRAM

SCALE: N.T.S.
**Demolition Notes:**

1. Sawcut Top of Driveway at Location Shown.
2. Remove Existing Asphalt Driveway from Sawcut Down to Concrete Floor of Filter Room.
3. Remove Trench Drain; Protect Existing Pipe, Existing Trench for New Connection.
4. Protect Existing Concrete Curb and Retaining Wall.
6. Tank Fill Port to Remain in Place.
7. Sand Pour Existing Concrete Slab (Refer to Filter Room Sand Pour Drawings) Provided to Prevent Entrapment of Filter Sand During Demolition.
PROPOSED NOTES:

1. Pour new concrete transfer pad to match existing driveway.
2. Pour new concrete base to match existing concrete.
3. Install 2" cast iron trench drain over concrete and existing concrete curb.
4. Furnish and install 8" buried gate valve at end of existing trench drain discharge pipe.
5. Furnish and install new chainlink gates over concrete and existing concrete curb.
6. Provide new warning sign directing valve to be closed during chemical transfer.
7. Install new chainlink fence gates to transfer pad.
8. Pour new concrete pad adjacent to filter room floor to match existing driveway.
9. Provide new warning sign directing filter room sump to remain.

CONSTRUCTION NOTES AND WARNING SIGN:

- Provide new chainlink fence gates to be closed during chemical transfer.
- Provide new warning sign directing valve to be closed during chemical transfer.
- Install new chainlink fence gates to transfer pad.
- Pour new concrete pad adjacent to filter room floor to match existing driveway.
- Provide new warning sign directing filter room sump to remain.