

CHEMKA POOL STORM DAMAGE 2021 RECOVERY

CHEMKA POOL PARK

JUNE 2022

OWNER

VILLAGE OF HASTINGS-ON-HUDSON
DEPARTMENT OF PARKS AND RECREATION

HASTINGS ON HUDSON, NEW YORK 10706

ENGINEER

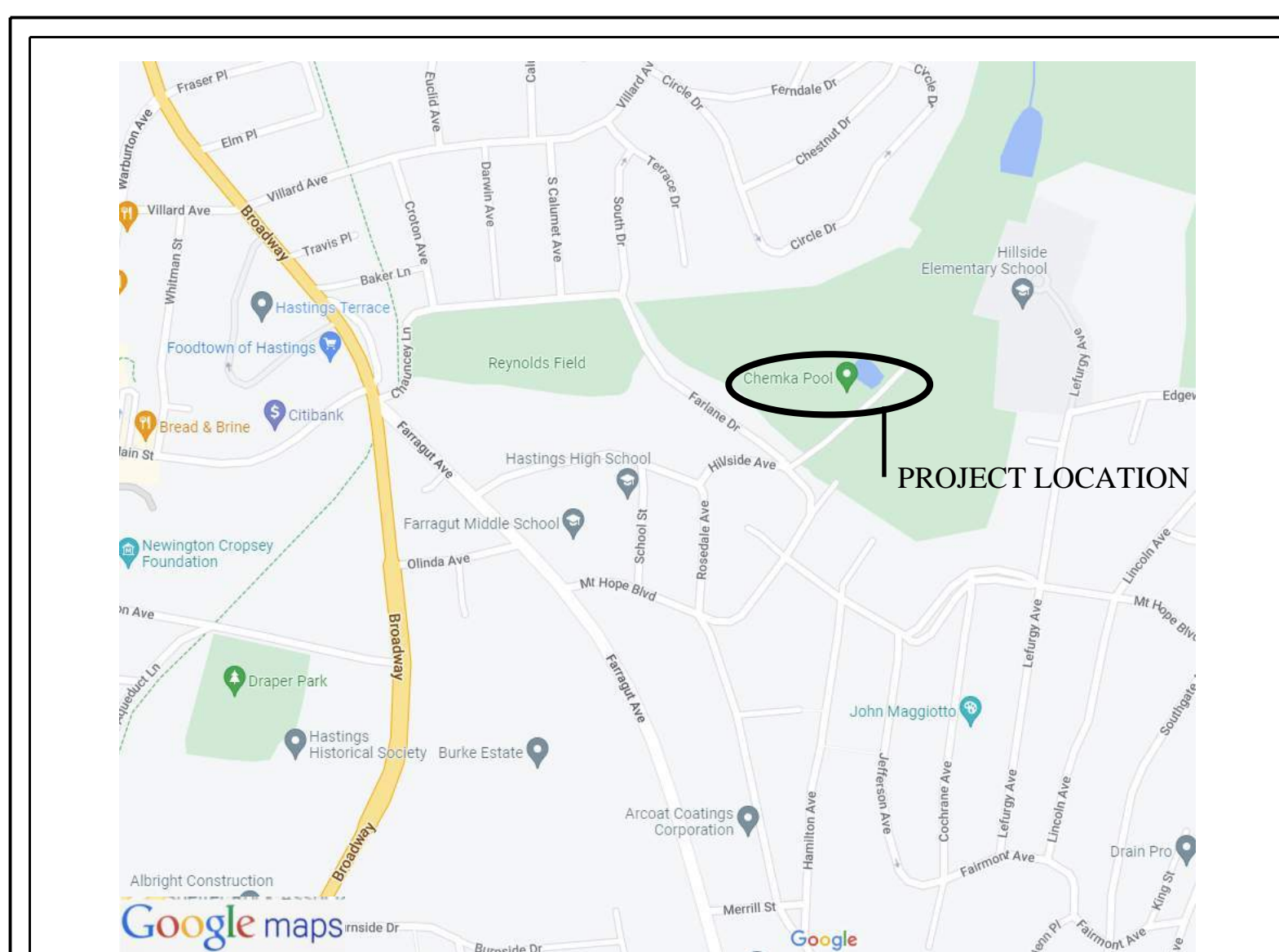
RIMKUNAS ENGINEERING, P.L.L.C.
AQUATIC ENGINEERING AND CONSTRUCTION MANAGEMENT
44 ELM STREET, SUITE 10
HUNTINGTON, NY 11743
631-470-6115

D.O.H. APPROVAL

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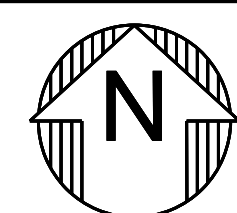
NOTE:
AUTHORIZED PROFESSIONAL ENGINEER
WILL CERTIFY THAT CONSTRUCTION
IS COMPLETED IN ACCORDANCE
WITH APPROVED DRAWINGS.

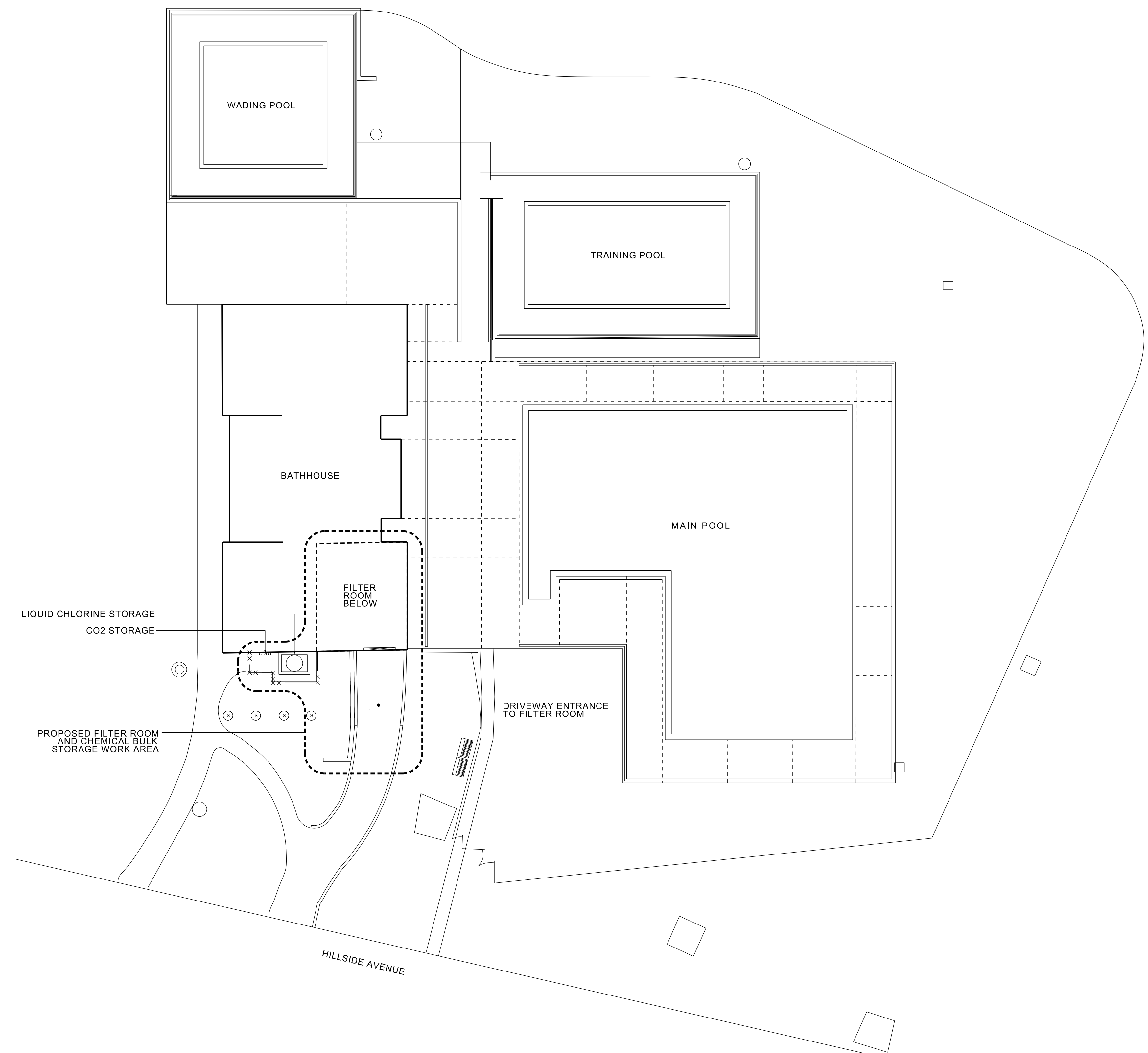
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PROJECT LOCATION: CHEMKA POOL PARK
HILLSIDE AVENUE
HASTINGS ON HUDSON, NY 10706

LOCATION PLAN
N.T.S.





PROJECT ENGINEER:
Rimkunas Engineering, P.L.L.C.
Aquatic Engineering & Construction Management
 Rimkunas Engineering, P.L.L.C.
 44 Elm Street, 10th Huntington • New York • 11743
 631.470.6115

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NO.	REVISIONS	DATE

OWNER:
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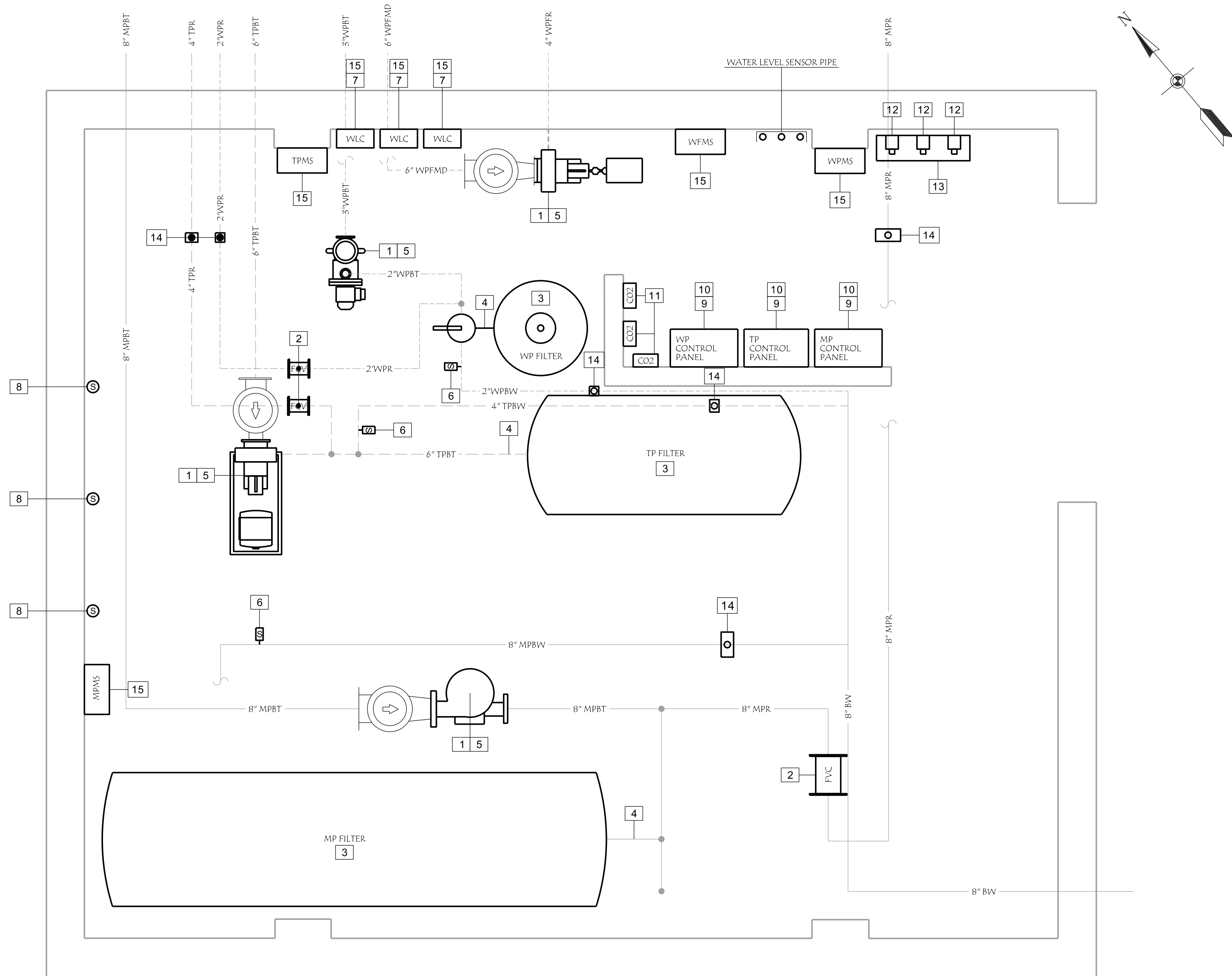
 DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
**CHEMKA POOL
 STORM DAMAGE 2021 RECOVERY**

DRAWING TITLE:
SITE LOCATION PLAN

SCALE:
16 8 0 16 32
 SCALE IN FEET

DRAWN BY: BC	
CHECKED BY: SR	
FILE NO. -	
PROJECT NO. 1148	DRAWING NO. G-01
DATE: 06/03/2022	



- LEGEND**
- MP MAIN POOL
 - TP TRAINING POOL
 - WP WADING POOL
 - WF WATER FEATURE

 - LLC LIQUID LEVEL CONTROL
 - WL WATER LEVEL
 - BT BALANCE TANK
 - BW BACKWASH
 - FMD FEATURE MAIN DRAIN PIPE
 - FR FEATURE RETURN PIPE
 - R FILTER RETURN
 - ST SURGE TRENCH
 - CO2 CO2 FEEDER
 - CC CHEMICAL CONTROLLER
 - FM FLOW METER

 - FLOW CONTROL VALVE
 - FLOW SENSOR
 - LIQUID CHEMICAL FEEDER
 - SIGHT GLASS
 - SOLENOID VALVE

GENERAL NOTES:

NOT ALL POOL PIPING AND ACCESSORIES SHOWN FOR CLARITY.

PRESERVE BONDING WIRE DURING DEMOLITION.

STRUCTURAL STEEL FRAMING NOT SHOWN.

THE DRAWINGS SHOW LOCATION OF ALL PIPING AND EQUIPMENT AND INDICATE THE REQUIRED SIZE AND POINTS OF TERMINATION OF THE PIPING AND SUGGEST PROPER ROUTING OF SAME. HOWEVER IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS, OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST WHILE MEETING MANUFACTURER'S RECOMMENDED INSTALLATIONS AND PRESERVING THE INTENT OF THE DESIGN.

ALL STRAINERS PROTECTING RECIRCULATION PUMPS ARE TO REMAIN AND BE REUSED, EXCEPT FOR THE INTEGRAL STRAINER FOR THE WADING POOL RECIRCULATION PUMP.

TAG	NOTE	MP	TP	WP	WF
G	ELECTRICAL DEMOLITION TO BE COMPLETED PRIOR TO FILTRATION EQUIPMENT DEMOLITION AND FILTER ROOM CLEAN OUT.				
G	NO ELECTRICAL NEW WORK TO BE COMPLETED PRIOR TO FILTRATION EQUIPMENT DEMOLITION AND FILTER ROOM CLEAN OUT.				
G	REMOVE RECIRCULATION PUMPS AND OPEN HAIR AND LINT STRAINERS, PRIOR TO START OF FILTER ROOM CLEAN OUT.				
G	POWER WASH INTERIOR OF FILTER ROOM TO REMOVE MUD AND DEBRIS FROM SURFACES OF WALLS, CEILING, FLOOR, PIPES, FILTERS AND REMAINING CONTROL BOXES. FILTER ROOM AND EQUIPMENT TO BE CLEANED OF ALL MUD AND DEBRIS.				
G	ALL POOL PIPING SYSTEMS (TYP. 4) ARE TO BE FLUSHED CLEAR INTO THE FILTER ROOM. MUD AND DEBRIS TO BE REMOVED FROM FILTER ROOM. FILTER ROOM TO BE CLEANED OF ALL MUD AND DEBRIS.				
G	ALL EQUIPMENT MARKED TO BE REMOVED SHALL BE REMOVED AND DISPOSED OF OFFSITE IN A LEGAL MANNER.				
1	REMOVE RECIRCULATION PUMP.	x	x	x	x
2	REMOVE GRISWOLD FLOW CONTROL VALVE FROM RECIRCULATION SYSTEM (TYP. 3) SEE PROPOSED PLAN FOR PIPING SPOOL REPLACEMENT.	x	x	x	
3	REMOVE FILTER MEDIA FROM HRS FILTER (TYP. 3)	x	x	x	
4	REMOVE 2 - PRESSURE GAUGES AT EACH FILTER FACE PANEL.	x	x	x	
5	REMOVE VACUUM AND PRESSURE GAUGE AT EACH RECIRCULATION PUMP.	x	x	x	x
6	REMOVE SIGHT GLASS FROM BACKWASH PIPE.				
7	REMOVE MAKE UP WATER CONTROLLER AND WIRING. ENCLOSURE TO REMAIN. (TYP. 3)	x	x	x	
8	REMOVE SOLENOID VALVE FROM AUTOMATIC MAKE-UP WATER SYSTEM LOOP. (TYP. 3)	x	x	x	
9	REMOVE EXISTING CONTROL PANEL INCLUDING ENCLOSURE, AND ALL CONTROLS. (TYP. 3)	x	x	x	
10	REMOVE CHEMICAL CONTROLLER AND FLOW CELL. (TYP. 3)	x	x	x	
11	REMOVE CO2 FEDER. (TYP. 3)	x	x	x	
12	REMOVE LIQUID CHLORINE FEEDER AND FLEXIBLE FEED TUBING SUPPLY AND DISCHARGE. (TYP. 3)	x	x	x	
13	REMOVE SHELF FOR CHLORINE FEEDER	x	x	x	
14	REMOVE ROTARY PADDLE WHEEL FLOW SENSOR AND WIRING	x	x	x	
15	SEE ELECTRICAL DEMOLITION DRAWING	x	x	x	

1 FILTER ROOM DEMOLITION PLAN
SCALE: 1/2" = 1'-0"

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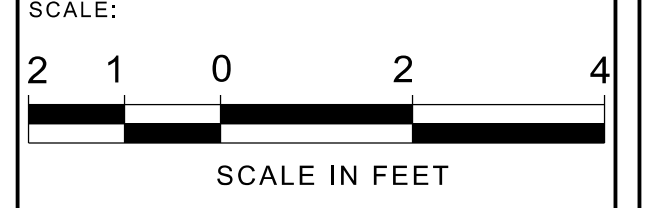
NO.	REVISIONS	DATE

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VILLAGE OF HASTINGS-ON-HUDSON

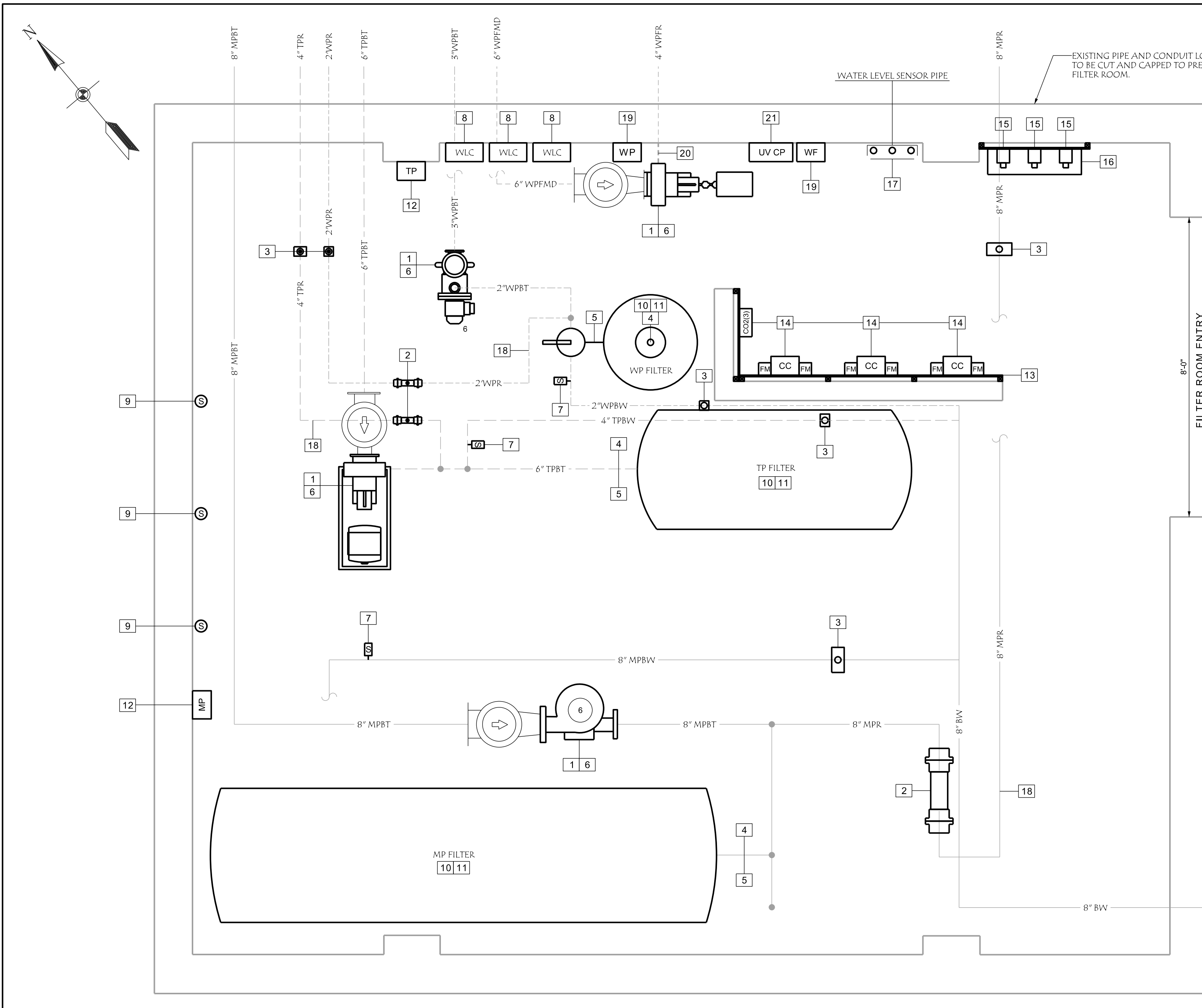
 DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

DRAWING TITLE:
FILTER ROOM EQUIPMENT DEMOLITION PLAN



DRAWN BY: BC	DRAWING NO. SP-01
CHECKED BY: SR	
FILE NO. -	
PROJECT NO. 1148	DATE: 06/03/2022



NOTES:

INSTALL FLOOD PREVENTION ENTRY WAY CONTRACTOR TO PROVIDE NSYPE SIGNED AND SEALED SHOP DRAWING FOR SELECTED BID ALTERNATE

ALTERNATE 1:
FURNISH AND INSTALL HINGED WATERTIGHT DOOR FOR FULL HEIGHT AND WIDTH OF EXISTING FILTER ROOM OPENING.

ALTERNATE 2:
FURNISH AND INSTALL STOP LOG FLOOD BARRIER FOR FULL HEIGHT AND WIDTH OF EXISTING FILTER ROOM OPENING.

ALTERNATE 3:
FURNISH AND INSTALL HINGED WATERTIGHT DOOR FOR MANWAY, 48" X 79 1/4". EXISTING FILTER ROOM OPENING TO BE CLOSED OFF WITH POURED CONCRETE FULL PERIMETER WATER STOP AND DRILLED AND EPOXIED DOWELS. NEW WATERTIGHT DOOR TO BE INSTALLED IN NEW WALL. DOOR WIDTH TO ALLOW MP FILTER TO BE REPLACED IN FUTURE.

POOL TURBIDITY NOTES:

ONE INLINE NEPHELOMETER TO BE INSTALLED TO CONTINUOUSLY MEASURE TURBIDITY IN THE POOL BASED ON THE EPA METHOD 180.1.

READINGS SHALL BE TAKEN AND DISPLAYED IN NEPHELOMETRIC TURBIDITY UNITS (NTU).

IN THE EVENT THAT THE NTU READING IS GREATER THAN 3.0, AN AUDIBLE ALARM WILL SOUND AND THE WADING POOL RECIRCULATION AND FEATURE SUPPLY PUMP WILL SHUT DOWN. THE POOL WILL BE SHUT DOWN AND BATHERS ASKED TO LEAVE THE POOL. CORRECTIVE ACTIONS SHALL BE TAKEN TO LOWER THE NTU READINGS BELOW 3.0 BEFORE BATHERS WILL BE ALLOWED BACK IN THE POOL.

- GENERAL NOTES:**
- NOT ALL POOL PIPING AND ACCESSORIES SHOWN FOR CLARITY. STRUCTURAL STEEL FRAMING NOT SHOWN.
- THE DRAWINGS SHOW THE LOCATION OF ALL PIPING AND EQUIPMENT AND INDICATE THE REQUIRED SIZE AND POINTS OF TERMINATION OF THE PIPING AND SUGGEST PROPER ROUTING OF SAME. HOWEVER IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS, OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGeways CLEAR WITHOUT FURTHER CONSTRUCTION OR COST WHILE MEETING MANUFACTURER'S RECOMMENDED INSTALLATIONS AND PRESERVING THE INTENT OF THE DESIGN.
- ALL STRAINERS 6" AND ABOVE TO REMAIN AND TO BE REUSED.
- NOTE:**
AN AUTOMATIC DEVICE SHALL BE PROVIDED TO DEACTIVATE THE FOLLOWING EQUIPMENT WHEN THERE IS NO FLOW IN THE SYSTEM.
1. CHLORINE FEEDER
2. ACID FEEDER
- INSTALL FLOW SENSOR IN UNOBSTRUCTED LENGTH OF PIPE AS RECOMMENDED BY THE MANUFACTURER.
- EXISTING CO2 STORAGE TANK LOCATED OUTSIDE OF BUILDING.
- EXISTING STILLING WELL AND WATER LEVEL SENSOR LOCATED IN WOMEN'S LOCKER ROOM TO REMAIN. NOT SHOWN FOR CLARITY.
- WATER FEATURE SUPPLY PUMP TO DEACTIVATE WHEN RECIRCULATION PUMP IS OFF. SEE ELECTRICAL DRAWINGS FOR CONTROL WIRING.
- ALL PIPING TO BE FULLY SUPPORTED AS PER MANUFACTURERS RECOMMENDATION. PROVIDE STEEL STRUT SUPPORTS AS NEEDED.
 - PIPE SUPPORTS AND UNISTRUTTO TO BE 304L STAINLESS STEEL.
 - CONTRACTOR TO LAYOUT EQUIPMENT AND RECEIVE FINAL APPROVAL FROM ENGINEER AND OWNER PRIOR TO INSTALLATION.
 - ALL PIPING TO BE PVC SCH. 80 UNLESS OTHERWISE NOTED.
 - FLOW SENSORS TO BE INSTALLED IN UNDISTURBED LENGTH OF PIPE AS SPECIFIED BY MANUFACTURER.
 - PIPES SHALL BE LABELED AND SHALL HAVE FLOW ARROWS. LABELS AND FLOW ARROWS TO BE WRAP-AROUND TYPE.

TAG	NOTE	MP	TP	WP	WF
G	SEE EQUIPMENT LIST FOR ALL MAKE, MODEL AND SIZES.				
G	SEE DETAILS FOR PROPER INSTALLATION OF PROPOSED EQUIPMENT.				
G	COORDINATE INSTALLATIONS OF ALL EQUIPMENT WITH OTHER TRADES.				
G	IDENTIFY DAMAGED VALVES TO THE ENGINEER. VALVES TO BE REPLACED AS DIRECTED BY ENGINEER AS UNIT PRICE BID.				
1	INSTALL NEW RECIRCULATION PUMP AND VFD AS PER EQUIPMENT LIST.	X	X	X	X
2	INSTALL FLANGED PIPE SPOOL AS PER DETAIL AT LOCATIONS OF REMOVED FLOW VALVE.	X	X	X	
3	INSTALL NEW PADDLE WHEEL FLOW SENSOR (TYP. 6)	X	X	X	
4	INSTALL AUTOMATIC AIR RELIEF VALVE AT EACH FILTER. (TYP. 3)	X	X	X	
5	INSTALL INFLUENT AND EFFLUENT PRESSURE GAUGE AT FILTER PANEL. CONNECT TO EXISTING TUBING AND CONFIRM PROPER PERFORMANCE.	X	X	X	
6	INSTALL VACUUM AND PRESSURE GAUGES AT RECIRCULATION PUMPS. (TYP. 3 PUMPS)	X	X	X	X
7	INSTALL NEW SIGHT GLASS.	X	X	X	
8	COORDINATE MAKE UP WATER CONTROLLER AND POWER WIRING WITH ELECTRICIAN. (TYP. 3)	X	X	X	
9	INSTALL NEW SOLENOID VALVE IN AUTOMATIC WATER SUPPLY LOOP. CONNECT TO NEW WIRING. (TYP. 3)	X	X	X	
10	INSPECT INTERIOR OF FILTER AND IDENTIFY ANY DAMAGE INCLUDING BROKEN LATERAL TO ENGINEER.	X	X	X	
11	INSTALL FILTER MEDIA. (TYP. 3)	X	X	X	
12	INSTALL VFD FOR RECIRCULATION PUMP.	X	X	X	
13	INSTALL PVC BOARD ON KINDORF TO MOUNT CHEMICAL CONTROLLER AND CO2 FEEDER.	X	X	X	
14	INSTALL CHEMICAL CONTROLLER, FLOWCELL, FLOW METER FOR FR & BW, AND CO2 FEEDER. SEE DETAIL.	X	X	X	
15	INSTALL PERISTALTIC PUMP WITH NEW FLEXIBLE SUPPLY AND DISCHARGE PIPING FOR LIQUID CHLORINE INJECTION. (TYP. 3)	X	X	X	
16	INSTALL CONTAINMENT SHELF FOR CHLORINE PUMPS ON KINDORF SUPPORT STRUCTURE.	X	X	X	
17	CLEAN OUT WATER LEVEL SENSOR STILLING WELL PIPES AND RESET PROBES TO PROPER LEVELS.	X	X	X	
18	INSTALL FLOW SWITCH FOR CHEMICAL INTERLOCK SYSTEM. INSTALL RELAY AT CHEMICAL CONTROLLER.	X	X	X	
19	INSTALL MOTOR STARTER.			X	X
20	UV DISINFECTION UNIT.				X
21	UV CONTROL PANEL.				X

LEGEND

- MP MAIN POOL
- TP TRAINING POOL
- WP WADING POOL
- WF WATER FEATURE

- LLC LIQUID LEVEL CONTROL
- WL WATER LEVEL
- BT BALANCE TANK
- BW BACKWASH
- FMD FEATURE MAIN DRAIN PIPE
- FR FEATURE RETURN PIPE
- R FILTER RETURN
- ST SURGE TRENCH
- CO2 CO2 FEEDER
- CC CHEMICAL CONTROLLER
- FM FLOW METER
- UV CP ULTRA VIOLET CONTROL PANEL
- FLOW CONTROL VALVE
- FLOW SENSOR
- LIQUID CHEMICAL FEEDER
- SIGHT GLASS
- SOLENOID VALVE
- FLANGED PIPE SPOOL

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NO.	REVISIONS	DATE

OWNER:
VILLAGE OF HASTINGS-ON-HUDSON

DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

DRAWING TITLE:
FILTER ROOM EQUIPMENT PROPOSED PLAN

SCALE:
2 1 0 2 4
SCALE IN FEET

DRAWN BY:
BC

CHECKED BY:
SR

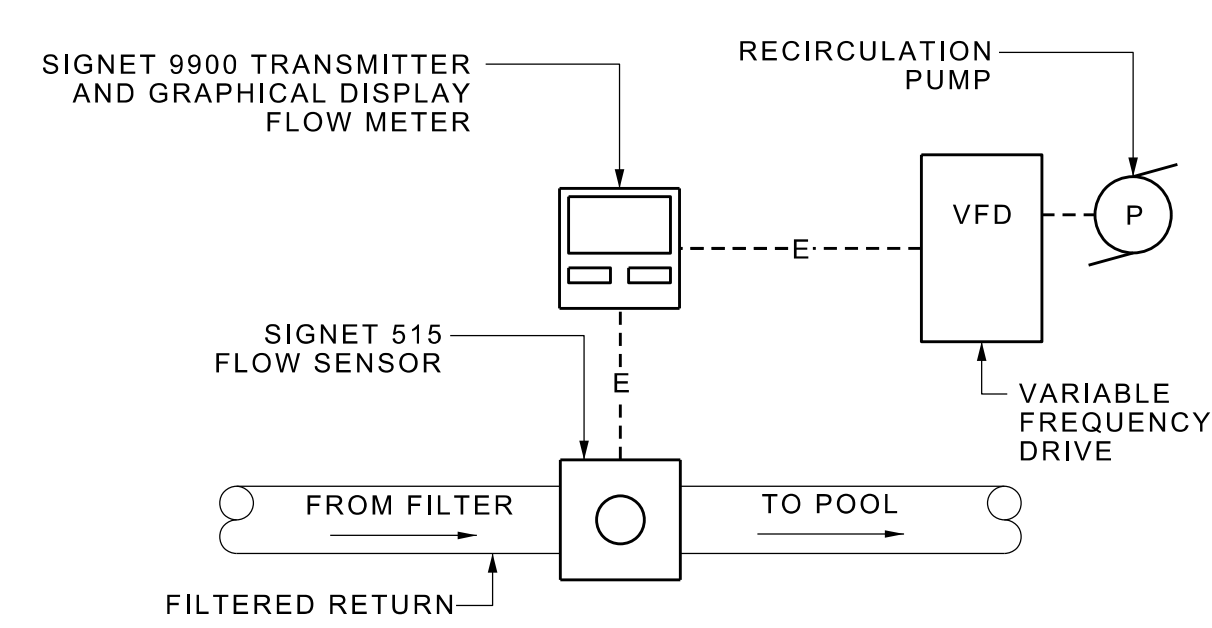
FILE NO.:
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PROJECT NO.:
1148

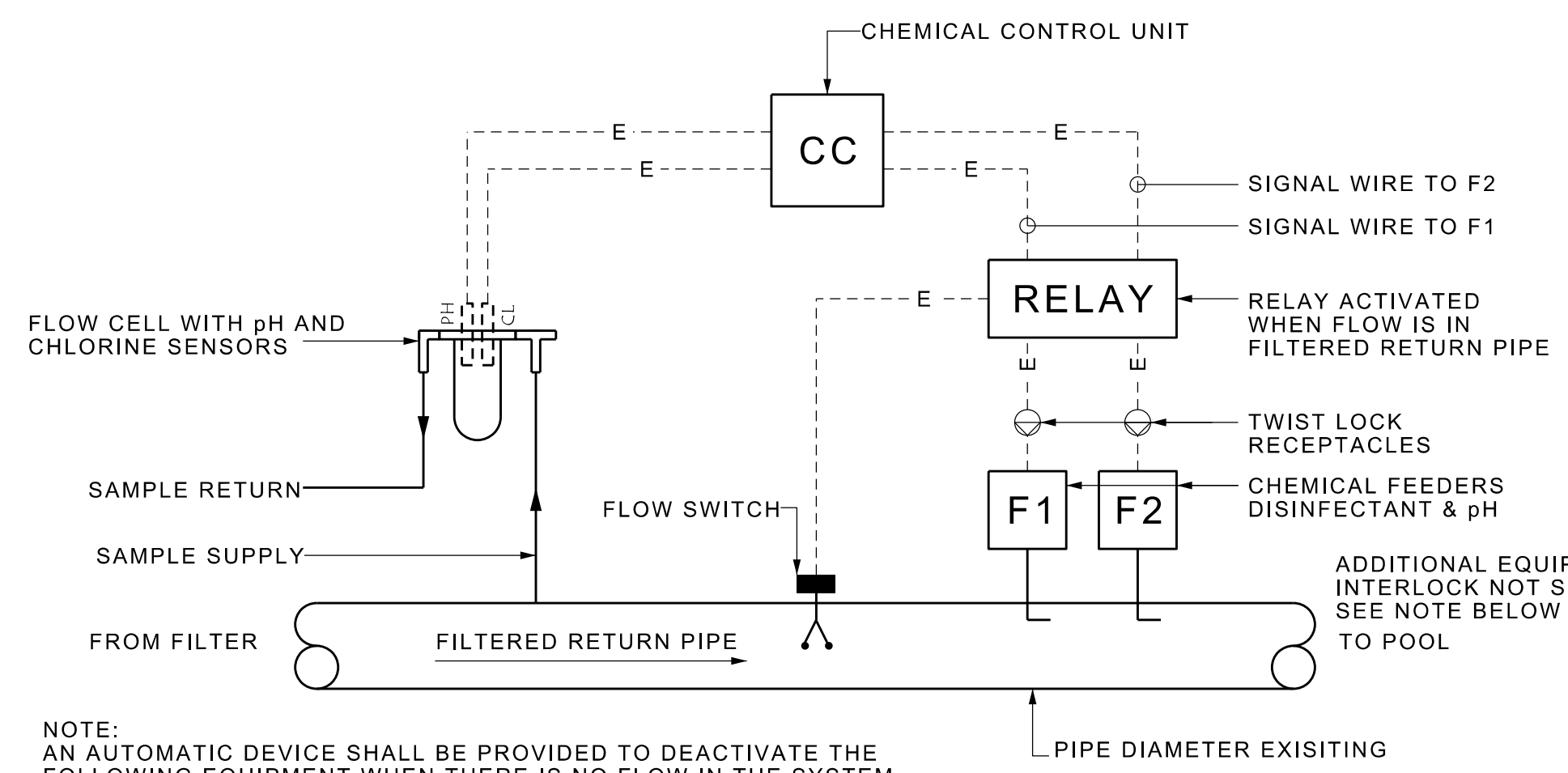
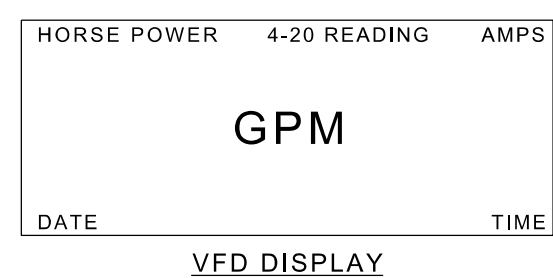
DRAWING NO.:
SP-02

DATE:
06/03/2022

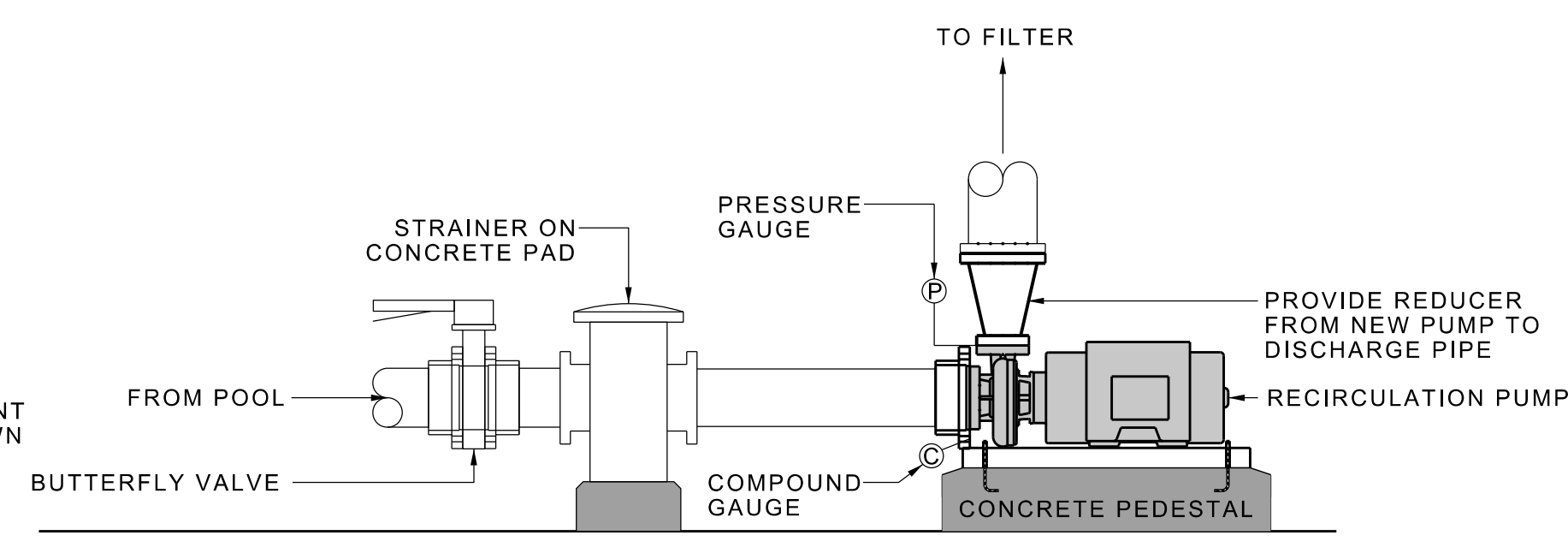
1 FILTER ROOM PROPOSED PLAN
SCALE: 1/2" = 1'-0"



NOTES:
1. SIGNET 9900 TO BE MOUNTED AT POOL CONTROL PANEL.



NOTE:
AN AUTOMATIC DEVICE SHALL BE PROVIDED TO DEACTIVATE THE FOLLOWING EQUIPMENT WHEN THERE IS NO FLOW IN THE SYSTEM.
1. CHLORINE FEEDER
2. pH FEEDER

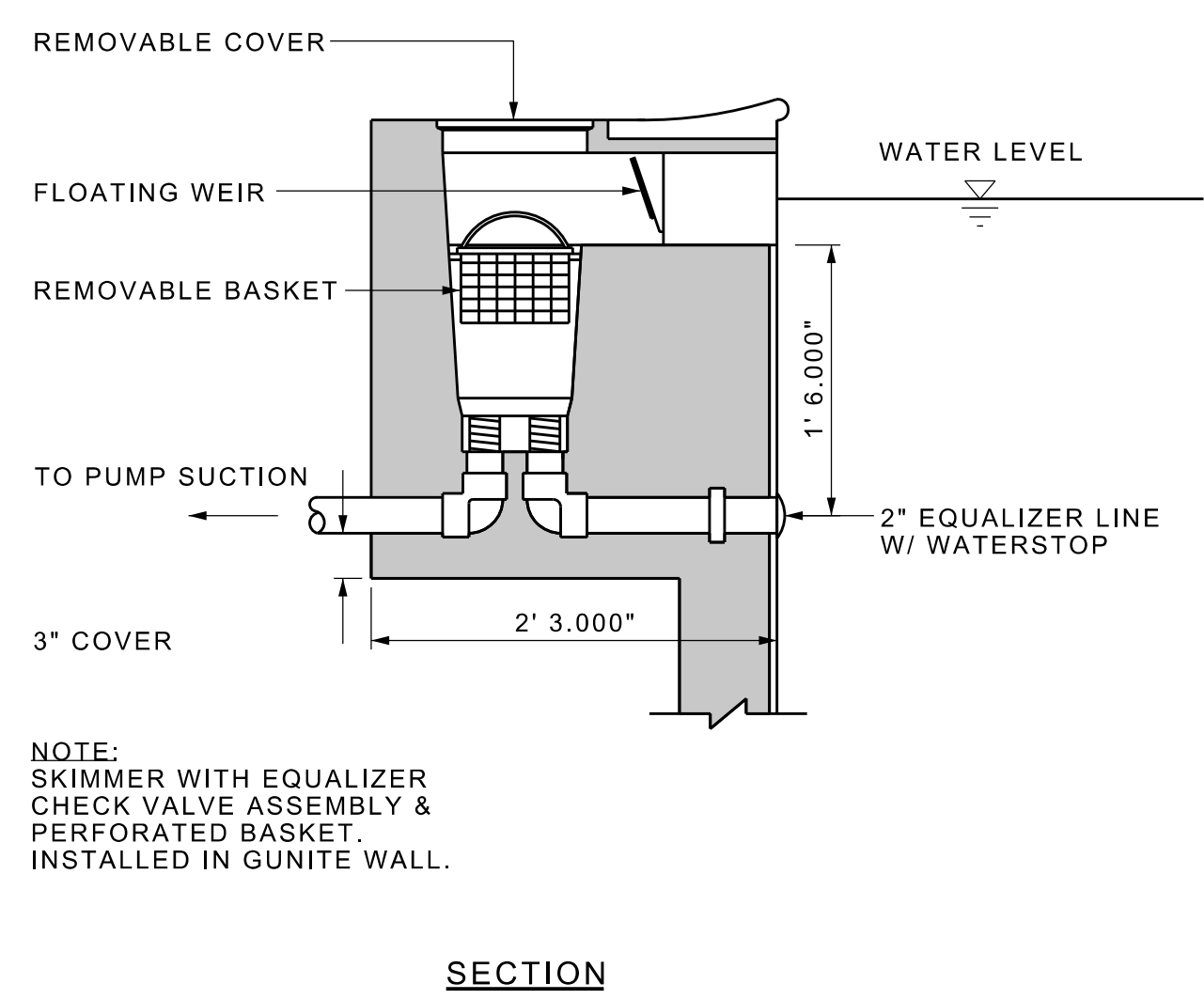
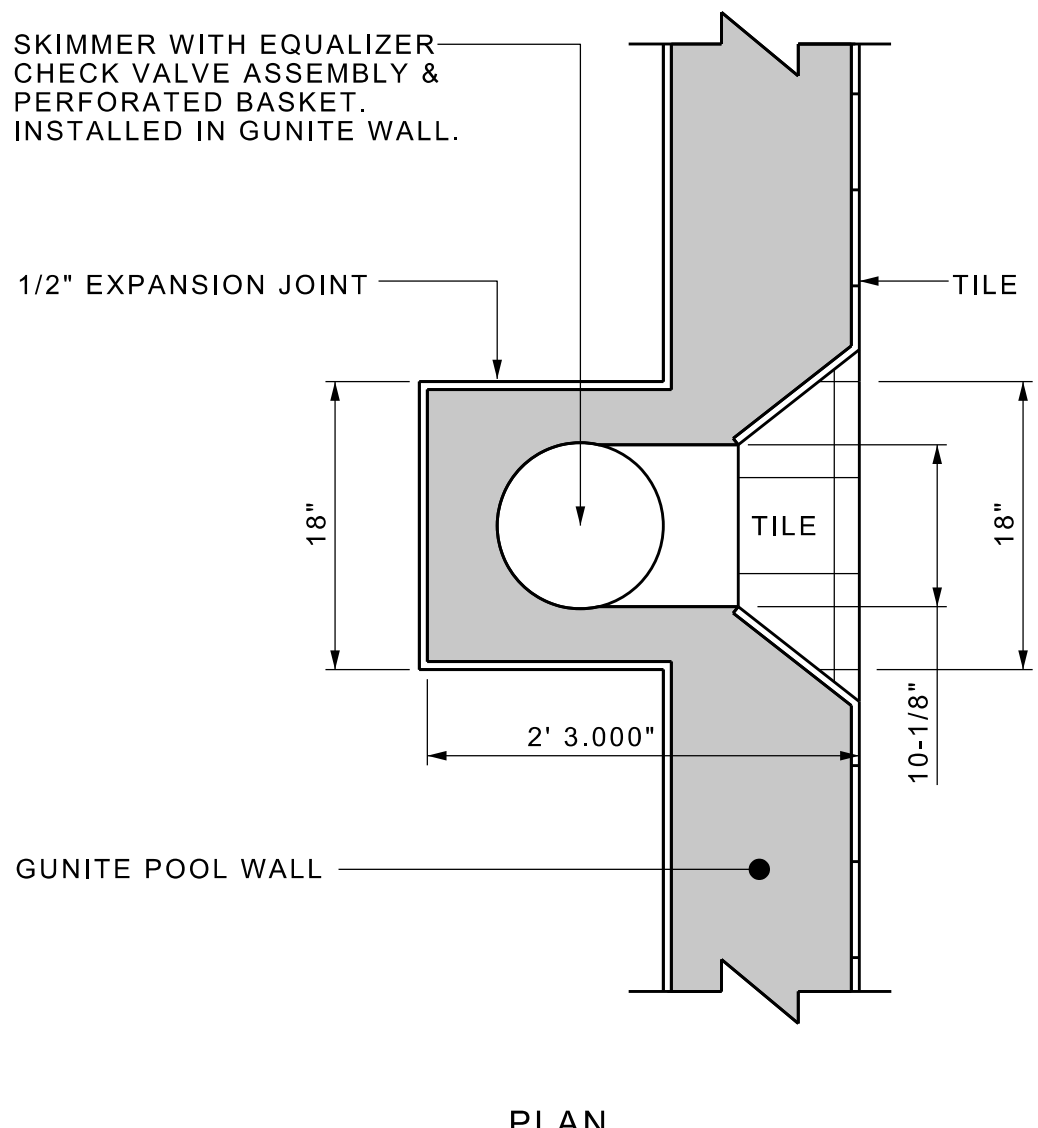


NOTES:
1. MODIFY EXISTING PIPING AND CONCRETE PEDESTAL AS NEEDED TO INSTALL NEW PUMP.

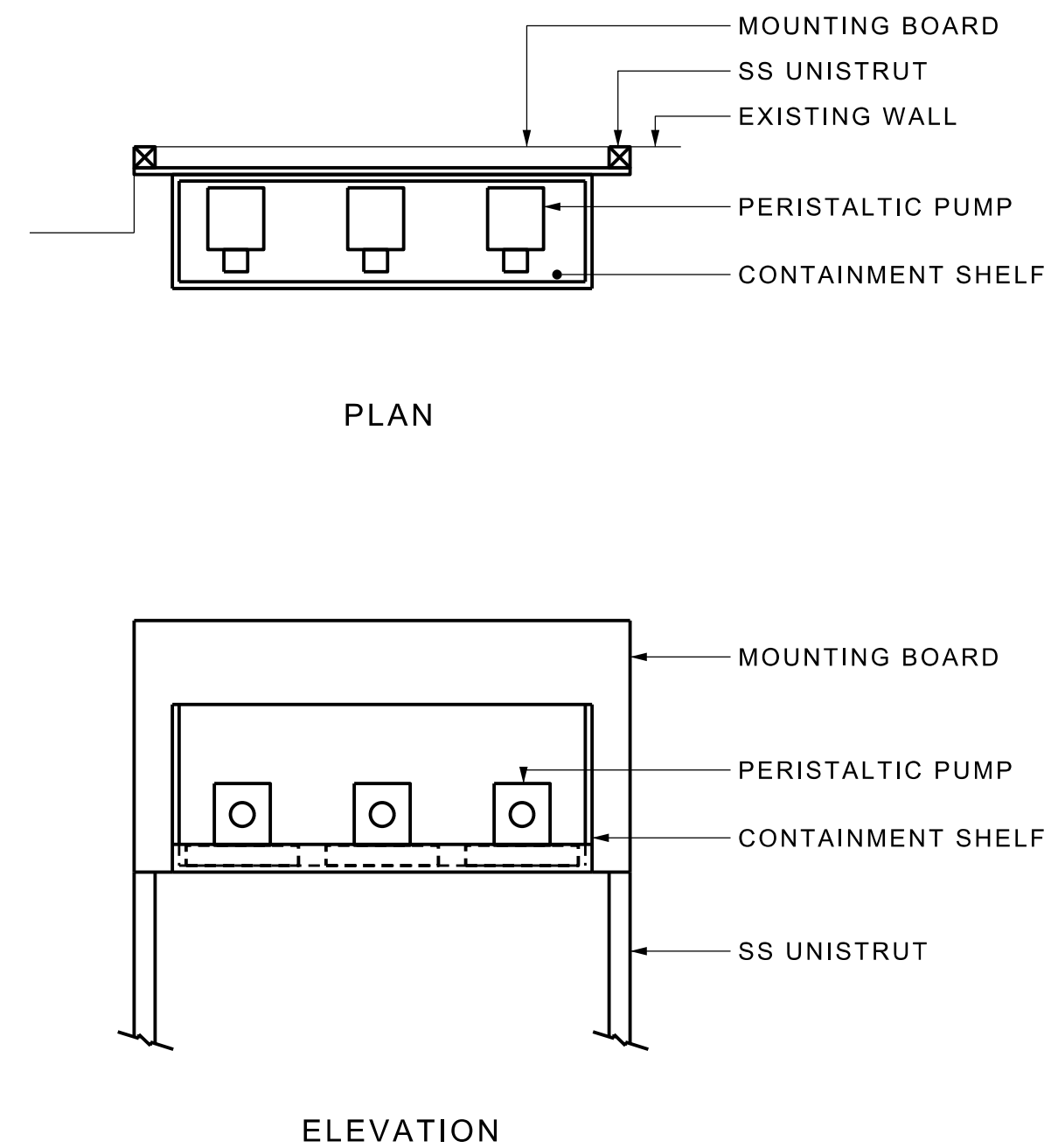
1 TYPICAL FLOW CONTROL SCHEMATIC
NOT TO SCALE

2 TYPICAL CHEMICAL INTERLOCK SCHEMATIC
NOT TO SCALE

3 TYPICAL PUMP INSTALLATION
NOT TO SCALE

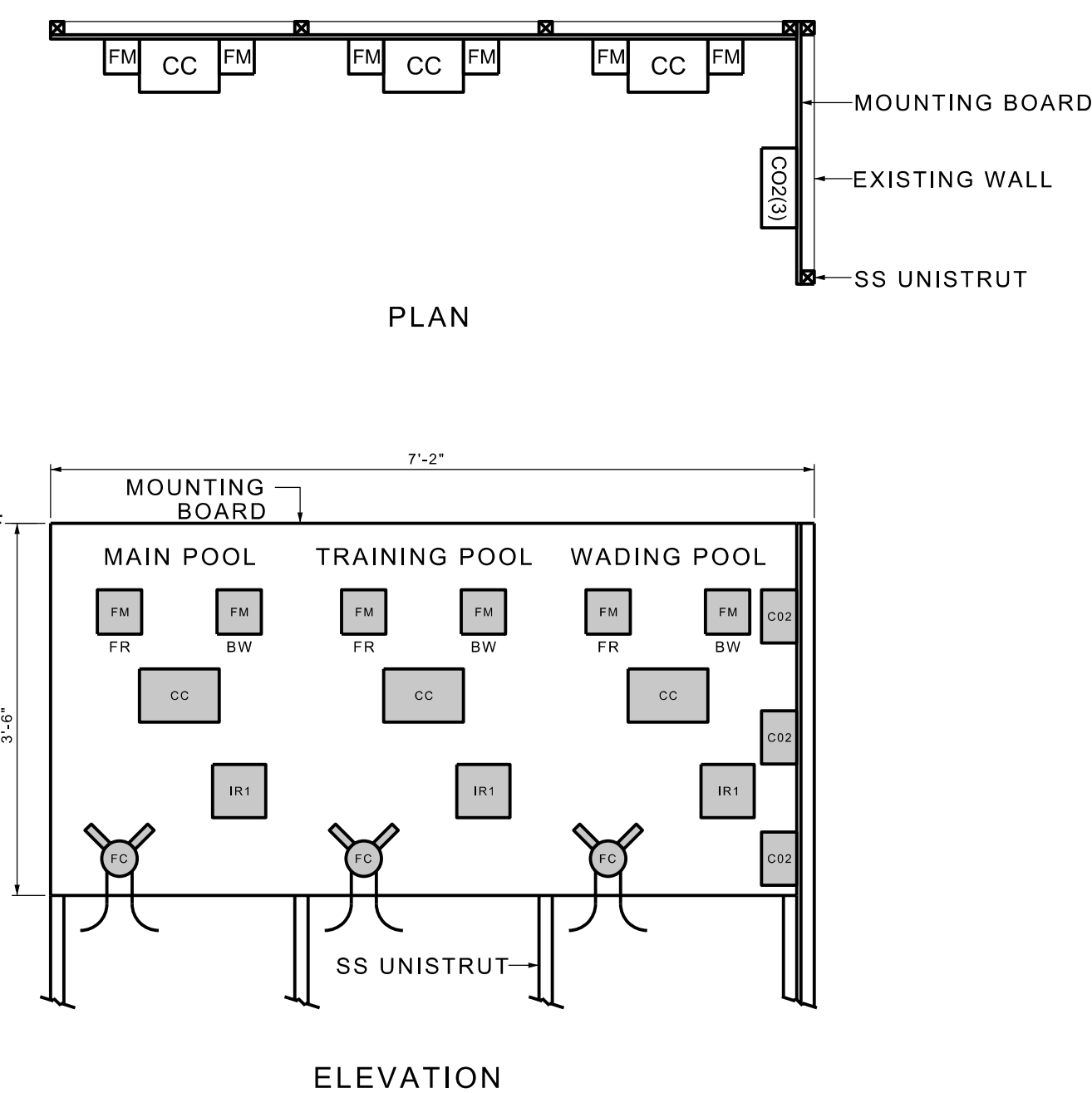


4 TYPICAL SKIMMER PLAN AND SECTION
NOT TO SCALE



NOTES:
MOUNTING BOARD TO BE PVC SHEET OR EQUAL.
BOARD TO BE MOUNTED ON WALL AT EYE LEVEL. MOUNT BOARD OFF WALL WITH SS UNISTRUT SUPPORT TO ALLOW ROOM FOR WIRING.
ALL MOUNTING FASTENERS FOR UNISTRUT AND PANEL BOARD TO BE STAINLESS STEEL.
LABEL ALL EQUIPMENT.
SEE ELECTRICAL DRAWINGS FOR ALL WIRING, INTERLOCKS AND CONNECTIONS.
CONTAINMENT SHELF DESIGN BASIS: ASSMAN CORPORATION: FEED STATION CONTAINMENT SHELF

5 CHLORINE FEEDER PUMP CONTAINMENT SHELF
NOT TO SCALE



NOTES:
CONTROL PANEL MOUNTING BOARD TO BE PVC SHEET OR EQUAL.
CONTROL PANEL TO BE MOUNTED ON WALL AT EYE LEVEL. MOUNT PANEL OFF WALL WITH SS UNISTRUT SUPPORT TO ALLOW ROOM FOR WIRING.
MOUNTING FASTENERS FOR UNISTRUT AND PANEL BOARD TO BE STAINLESS STEEL.
BEL ALL EQUIPMENT AND PANEL SECTIONS.
SEE ELECTRICAL DRAWINGS FOR ALL WIRING, INTERLOCKS AND CONNECTIONS.

EQUIPMENT TO BE MOUNTED ON PANEL:
CC CHEMICAL CONTROLLER
FM FLOW METER
FC FLOW CELL FOR CHEMICAL CONTROLLER
IR INTERLOCK RELAY
CO2 CO2 FEEDER

6 POOL CONTROL PANEL
NOT TO SCALE

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VILLAGE OF HASTINGS-ON-HUDSON

DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

DRAWING TITLE:
RECIRCULATION EQUIPMENT DETAILS

SCALE:
NOT TO SCALE

DRAWN BY:
BC

CHECKED BY:
SR

FILE NO.
-

PROJECT NO. 1148 DRAWING NO. SP-03

DATE: 06/03/2022

SELECT PIPE TESTING

BASED ON FINDINGS FROM THE PIPE PRESSURE TEST REPORT DATED NOVEMBER 14, 2021 TEST PITS WILL BE OPENED IN THE POOL DECK TO EXPOSE PIPING AND CONDUCT FURTHER TESTING. IT IS THE INTENT OF THE TESTING TO DETERMINE THE LOCATION OF THE LEAK. TEST PITS AND PIPE TESTING TO BE INCLUDED IN BASE BID. LEAK REPAIR WILL BE PAID FOR BASED ON TIME AND MATERIALS.

THE FOLLOWING TEST PITS AND PIPE TESTING ARE REQUIRED.

- MAIN POOL FILTERED RETURN PIPE**
OPEN TEST PIT P-1 AND P-2
EXPOSE 8" FILTER RETURN PIPE
ISOLATE AND TEST PIPE RUNS:
MP-1: FILTER ROOM TO TEE
MP-2: FLOOR RETURN LOOP
MP-3: THE RETRUN TUBE OF THE STAINLESS STEEL GUTTER.

- TRAINING POOL FILTERED RETURN PIPE**
OPEN TEST PIT P-3
EXPOSE 4" FILTER RETURN PIPE
ISOLATE AND TEST PIPE RUNS:
TP-1: FILTER ROOM TO TEE
TP-2: RETURN LOOP AND FITTINGS

- WADING POOL FILTERED RETURN PIPE**
NO TEST PIT REQUIRED. TEE LOCATED WITHIN THE GUTTER TRENCH.
ISOLATE AND TEST PIPE RUNS:
WP-1: FILTER ROOM TO TEE
WP-2: RETURN LOOP AND FITTINGS

- WADING POOL WATER FEATURE BUBBLER PIPE**
OPEN TEST PIT P-4 (OUTSIDE OF POOL LINER)
ISOLATE AND TEST PIPE RUNS:
WF-1: VAULT TO TEE
WF-2: BUBBLER RETURN LOOP

CONTRACTOR TO PROVIDE WRITTEN REPORT OF LOCATIONS OF IDENTIFIED LEAKS ALONG WITH ITEMIZED TIME AND MATERIAL COST TO REPAIR.

TEST PIT TO INCLUDE ALL LABOR, EXCAVATION, EQUIPMENT AND MATERIALS TO BREAK THE CONCRETE DECK, REMOVE CONCRETE, EXCAVATE TO EXPOSE BURIED POOL PIPING, MATERIALS TO PLUG PIPE TO PERFORM PRESSURE TEST, RESTORATION OF PIPING, BACKFILL, AND CONCRETE DECK REPLACEMENT WITH POLYSLIDE EXPANSION JOINT SEALANT. NEW DEPTH MARKERS TO BE INSTALLED IF REMOVED WITH TEST PIT.

SURGE TANK WATERPROOFING

THE SURGE TANK AT THE MAIN POOL AND THE TRAINING POOL HAVE BOTH FAILED THE WATERTIGHTNESS TEST. THE FOLLOWING WORK WILL BE REQUIRED AT EACH TANK:

- CLEAN FLOOR AND WALLS OF ALL DEBRIS, LOOSE OR DELAMINATING WATERPROOFING AND SCRAPED CLEAN OF ANY PAINT.
- PIPE PENETRATIONS TO BE CHIPPED OF LOOSE MATERIAL AND SURFACE PREPPED TO ACCEPT NEW HYDRAULIC CEMENT. INSTALL NEW HYDRAULIC AT EACH PIPE PENETRATION TO SEAL PIPE PERIMETER.
- APPLY MASTERSEAL 583 CEMENTIOUS WATERPROOFING ON INTERIOR FLOOR AND WALLS OF TANK.
- TANK SHALL BE FILLED AND TESTED FOR WATER TIGHTNESS FOR 24 HOURS UPON COMPLETION OF WORK. IN THE EVENT THAT THE TANKS ARE NOT WATER TIGHT, CONTRACTOR SHALL REPEAT PROCESS OR TAKE STEPS TO REPAIR IDENTIFIED LEAKS AND RETEST TANK. THIS PROCESS SHALL BE REPEATED UNTIL TANK IS WATERTIGHT.

SKIMMER REPLACEMENT

- REMOVE, FURNISH AND INSTALL SKIMMERS #4 AND #6 LOCATED IN TRAINING POOL

SAFETY SIGNS

- INSTALL SAFETY SIGN PROVIDED BY VILLAGE

APPROXIMATE LOCATIONS OF DEPTH MARKERS ARE INDICATED ON THE DRAWING. DEPTH MARKER INSTALLATION SHALL CONFORM TO THE FOLLOWING:

PERMANENT MARKERS SHALL BE INSTALLED ON THE POOL DECK AND WALL. DECK AND WALL MARKERS SHALL BE CERAMIC TILE.

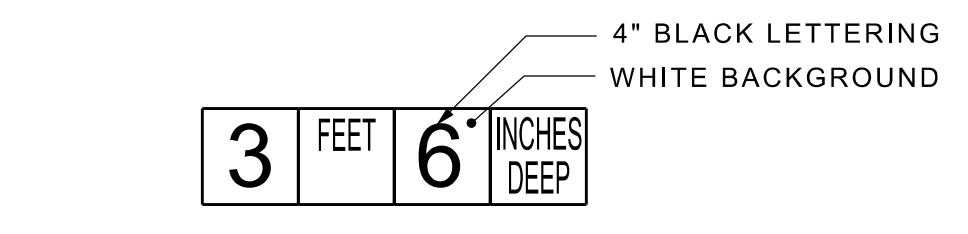
DEPTH MARKERS SHALL BE INSTALLED AT POINTS OF MINIMUM AND MAXIMUM DEPTH, THE POOL BREAKPOINT, AND INCREMENTS OF 2' OF DEPTH. SPACING BETWEEN MARKERS SHALL NOT EXCEED 25' AROUND THE ENTIRE PERIMETER OF THE POOL. MARKERS SHALL BE LOCATED AT BOTH ENDS AND SIDES OF THE POOL.

WHEN COPING STONES ARE USED MARKERS SHALL BE INSTALLED IN THE STONE. MARKERS SHALL INDICATE THE DEPTH AS MEASURED 3' FROM THE POOL WALL.

MARKERS SHALL HAVE DEPTHS IN NUMBERS THAT ARE 4" HIGH FOLLOWED BY "FOOT DEPTH" OR "INCHES DEEP". SEE DETAIL BELOW.

"NO DIVING" MARKERS SHALL BE AT ALL LOCATIONS WITH DEPTHS LESS THAN 8FT AND AT LOCATIONS SHOWN ON PLANS.

CERAMIC TILES TO BE MANUFACTURED BY TILE SPECIALTIES:
6" X 6" NON-SKID DECK TILE
8" X 6" SMOOTH WALL TILE



DECK TILE DEPTH MARKER (TYP.) SCALE: N.T.S.

PROJECT ENGINEER:
Rimkunas Engineering, P.L.L.C.
 Aquatic Engineering & Construction Management
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 631.470.6115

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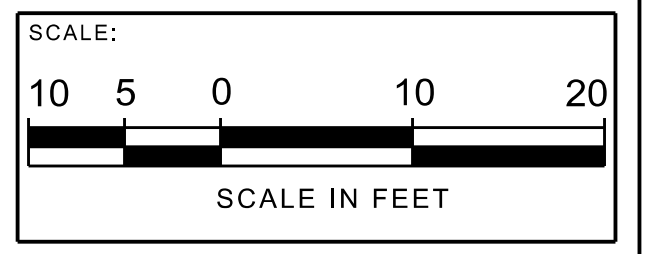
NO.	REVISIONS	DATE

VILLAGE OF HASTINGS-ON-HUDSON

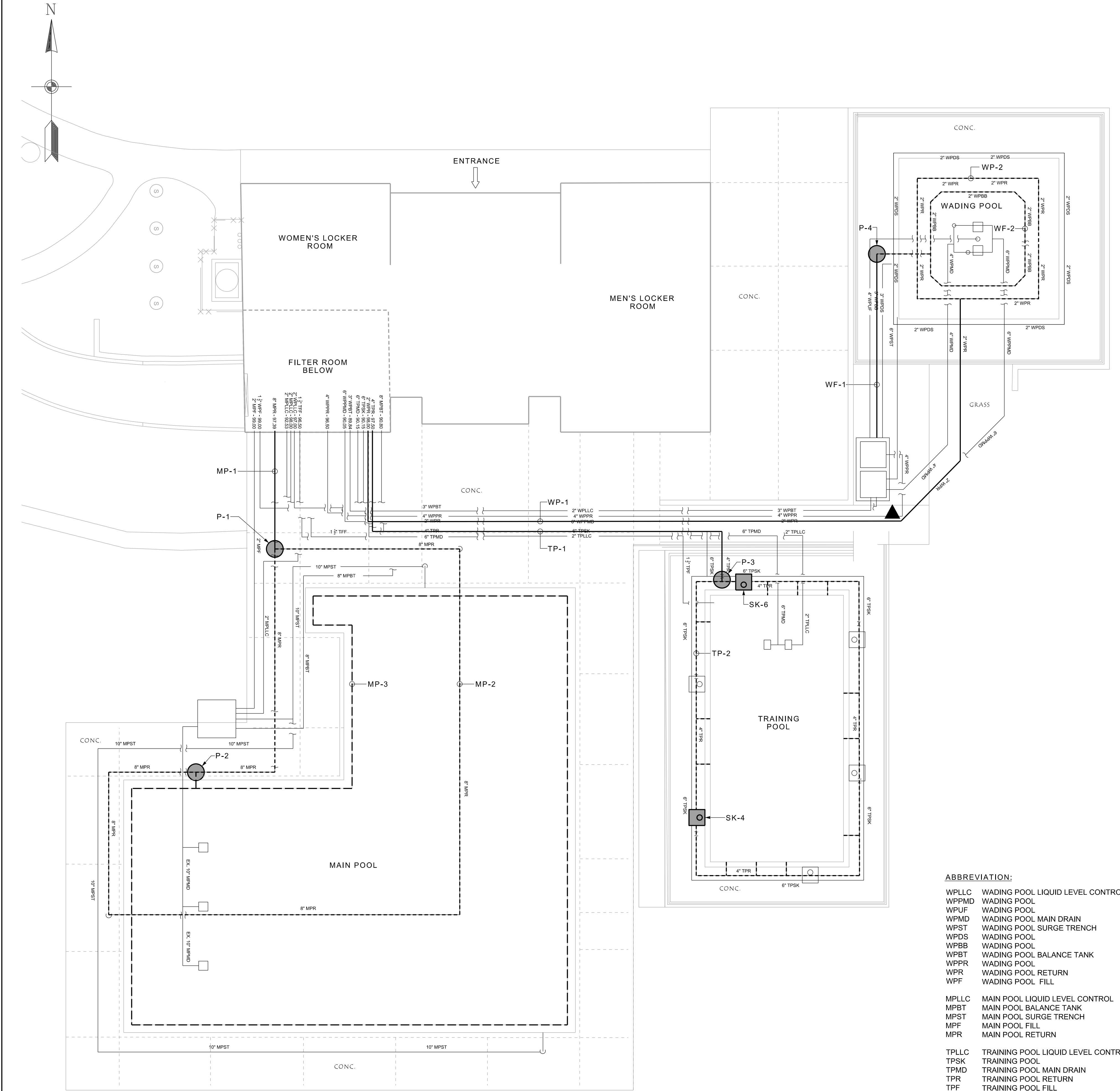
DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

DRAWING TITLE:
MISCELLANEOUS PIPING AND ACCESSORY REPAIR



DRAWN BY: BC	DRAWING NO. SP-07
CHECKED BY: SR	
FILE NO. -	PROJECT NO. 1148
DATE: 06/03/2022	



1 PIPING LEAK INVESTIGATION SCALE: 1" = 10'-0"

ELECTRICAL SPECIFICATION

WORK INCLUDED

1.Work under the electrical contract shall include all labor, materials, equipment, plant services and administrative tasks required to complete and make operable the electrical work shown on the pool electric drawings and specified herein, including but not limited to the following:

- a.Prepare and submit shop drawings, diagrams and illustrations to the owner.
- b.Procure necessary permits and approvals and paying required fees and charges in connection with the work.
- c.Protect, test, balance, clean adjust and guarantee all of the work to safely, properly and continuously operate.
- d.Submit as-built drawings, operating and maintenance instructions and manuals.
- e.Provide identification labels, tags, charts and diagrams.
- f.Execute all cutting, drilling, rough and finish patching of existing or newly installed construction required for the work.
- g.Excavation and back filling for the electrical work.
- h.Provide hangers, supports, foundations, structural framing supports and bases for conduit and equipment provided or installed.
- i.Provide counter flashing, sleeves and seals for roof, floor and wall penetrations.
- j.Temporary light and power for construction purposes.
- k. Electrical demolition as indicated
- l. Complete wiring systems for power installations and branch circuits to equipment including connections to existing wiring to remain
- m. Install and Connect variable frequency drives furnished by others.
- n. Install and connect UV control panel and lamps provided by others.
- o. Panel boards and service equipment
- p. Motor starters, control wiring and contactors, relays and control panels as shown on the drawings.
- q. Provide and install leak detection and overfill alarm panels
- r. Branch circuits extending to all equipment and receptacles.
- s. Receptacles, local switches and miscellaneous wiring devices as indicated.
- t. Lighting fixtures and controls.
- u. Grounding of electrical systems and equipment and pool equipment per Articles 250 and 680 of the NATIONAL ELECTRIC CODES.
- v. Balance all loads on panelboards.

GENERAL REQUIREMENTS

1.GENERAL

a.After carefully studying the drawings and specifications, and before submitting the proposal, visit the site to ascertain conditions of the site, and the nature and exact quantity of work to be performed. No extra will be allowed for failure to notify the owner in writing of any discrepancies noted between the existing conditions and drawings and specifications.

b.Verify all measurements at the site, and be responsible for correctness of same.

2.CODES, REGULATIONS AND STANDARDS

- a. Work shall comply with the requirements of the following codes:
 - 1.Federal, State and Local codes having jurisdiction.
 - 2.National Fire Protection Association.
 - 3.National Electrical Code (NEC).

3.FEES

a.Include in bid the cost of all required permits, fees, inspections, tests and certificates of approval.

4.QUALITY, WORKMANSHIP, MATERIALS AND SAFETY

a.Work shall be first-class in every respect and shall be neatly performed in a practical and workmanlike manner by sufficient electricians skilled in the work they are to do using the best practices of their trade, and under continuous, competent supervision. The work shall be organized in advance of operation and carried out efficiently without delays which would impede progress or the quality of the work of other trades and the work as a whole.

b.Materials and equipment provided shall be new and approved for the application and shall conform to the specified codes and standards. Defective or damaged materials shall be replaced or repaired in a manner approved by the owner.

c.Equipment shall bear the UL label and shall meet or exceed NEMA standards.

5.GUARANTEES

a.Furnish in writing, a complete guarantee against defective materials and improper workmanship, satisfactory to owner, for all parts, components and operation for a period of one year from the date of acceptance of the complete installation by the owner.

b.Guarantee shall include complete maintenance of the system, including replacement parts, all labor and materials to maintain the system in proper operating condition for the guarantee period.

6.CLEANING

a.Remove all construction debris resulting from the work.

b.Clean equipment and systems following the detailed procedures specified herein, or as directed.

7.COORDINATION AND SUPERVISION

a.The work shall be carefully laid out in advance to avoid unnecessary cutting, channeling, chasing or drilling of floor, walls, partitions, ceilings or other surfaces. Where such work is necessary, however, the work shall be patched and/or repaired in an approved manner by skilled mechanics at no additional cost to the owner.

SPECIAL REQUIREMENTS

1.SUBMITTALS

a.SHOP DRAWINGS

- 1.Shop drawings submittals shall consist of one reproducible and three prints, or six photocopies.
- 2.Submit shop drawings of the following:
 - 1)Controls
 - 2)Wiring Devices
 - 3)Panel boards, lighting fixtures, control devices
 - 4)Conduit, boxes and fittings
 - 5)Name plates and legends.
 - 6)Motor Starter and Disconnect Switch
 - 7)Lighting Contractor and Time Switch
 - 8)Leak Detection and Overfill Panel
- 3.AS-BUILT DRAWINGS
 - 1)Upon completion of the work, furnish to the owner in AutoCAD, "AS-BUILT" drawings on CD-ROM media and one set of Mylar reproducible. Drawings shall include all field changes and dimensions to accurately locate all outlets, devices, equipment and the like.

4.SERVICE MANUALS

1)Provide three complete sets of instructions for all electrical equipment installed.

5.CUTTING AND PATCHING

- 1)Provide all cutting, drilling, rough and finish patching required for the work.
- 2)Provide all drilling and patching for expansion bolts, hangers and other supports for proper and safe installation of work.

6.PHASE ROTATION TESTS

1)Properly test the phase rotation of feeder and branch circuits, and make such changes and alterations necessary to ensure the correct rotation of all motor driven equipment throughout the new installation.

7.ELECTRICAL SERVICE CHARACTERISTICS

1)The characteristics of the secondary electric service and distribution system are 120/208 volts, three phase, four wire plus ground.

8.TESTS, INSPECTIONS AND APPROVAL

- 1)Inspect all equipment, components and materials installed or connected to ensure:
 - (a)Proper conditions.
 - (b)Components are in place aligned and secure.
 - (c)Proper internal connections.
- 2)The complete electrical system shall be free of grounds and short circuits.

RACEWAYS

1.All wiring shall be installed in conduit systems in accordance with the following:

- a.Interior wiring shall be installed in rigid schedule 40 PVC conduit with solvent welded fittings.
- b.All underground wiring shall be installed in rigid schedule 80 PVC conduit with solvent welded fittings.
- c.All work installed in the filter room shall be run exposed: Conduits shall not be embedded slabs.
- d.Minimum size conduit shall be 3/4 inch trade size unless otherwise indicated.
- e.Final connections to motors and vibrating equipment shall be installed in liquid-tight flexible metal conduit. Minimum length 12-inches.
- f.The routing of conduits indicated on the drawings is diagrammatic. Before installing any work examine the working layouts and shop drawings of the other trades to determine the exact locations and clearance.
 - 1. Where circuit make-up is not indicated on plans refer to one-line diagram for circuit make-up.
- g.Conduit fittings, connectors, coupling, ells, nipples and the like shall be of material and construction suitable for the conduit system used.

WIRES AND CABLES

- 1.Wire and cable shall be 600 volt, copper, with THHN/THWN-2 90 degrees C. insulation except as noted or otherwise specified herein.
- 2.Underground wiring shall be copper. Use - XHHW insulated.
- 2.Wire shall be not less than No. 12 AWG. Wire No. 8 and larger shall be stranded.
- 3.Wires shall be color-coded as follows for 208 volt system:
 - Black, Red and Blue
 - Neutral - White
 - Equipment Ground - GreenProvide a green insulated ground conductor with all feeders and branch circuits.

JUNCTION BOXES

- 1.Boxes for wiring devices, junction points, switching relays, and the like in the Filter Area shall be of proper size and type as required by the building and circuit conditions and shall be fabricated of fiberglass reinforced polyester or PVC with stainless steel screws and shall be UL listed for outdoor use.
- 2.Conduit fittings, connectors, couplings and the like in the Pool Building shall be of material and construction suitable for the conduit system uses.

WIRING DEVICES

1.RECEPTACLES

- a. Straight balde receptacles shall be termination type duplex ground fault circuit interrupter. Receptacle device rated 20 ampere, 125 volts, Arrow Hart No. GF8300 or approved equal.
- b. Twist lock receptacles shall be yellow, corrosion resistant, NEMA L5-201R rated 20A, 125 volt. Mounted in fiberglass reinforced polyester or PVC outlet box with cover. Hubbell HBL 23CM10 or equal.
- c. Twist lock plugs shall be yellow corrosion resistant, NEMA L5-20P, Attachment cord mounted, Hubbell HBL2311VY or equal.

DEVICE PLATES

- 1.In general, plates for all wiring devices, except as specified otherwise, shall be .040 inch satin finished stainless steel. A common plate shall cover all devices which are indicated at the same location.
- 2.On the inside of each device plate, write the panelboard designation and circuit number of the circuit serving the device.
- 3.Device plates for outdoor receptacles shall be weatherproof with "in-use" covers.
- 4.Device plates shall be secured with stainless steel screws.

PANELBOARDS

- 1. Panels shall consist of an assembly of molded case circuit breakers and bus assembly installed in a stainless steel NEMA 4X cabinet, surface mounted as indicated on the drawings.
- 2. The panel sections shall be mounted away from the back of the cabinet trim and framed.
 - a. The gutter space on sides, top and bottom shall be of sufficient size to prevent overcrowding of wires and cables, and overheating of the circuit breakers.
 - b. Cabinets shall be complete with door in door, hinged doors with cylinder lock, directory frame and neatly typed directory charts.
 - c. Provide an angle piece on the inside of the bottom of each trim for ease of installation.
- 3. The branch circuit breakers, in general, shall be molded case, bolt-on type, thermal magnetic trip, single, two or three pole as indicated on the drawings.
 - a. Multiple pole breakers shall be single handle, common trip.
 - b. Where breakers of larger capacity are required, they shall have circuit characteristics as indicated.
 - c. Breakers shall be 22,000 A.I.C. for 120/208 volt service, unless otherwise indicated.
 - d. Main buswork shall be high conductivity copper, and shall as a minimum, be designed to carry the full rating of the feeder breaker or switch supplying the panel without perceptible heating.
 - e. Branch circuit breakers shall be arranged so that each breaker is readily removable from the panel without disturbing adjacent breakers.
 - f. Phase legs shall be alternately bussed to each circuit breaker in a manner to effect balancing the branch circuit connections as nearly as possible over each phase.
 - f. Panels shall be equipped with a key-lockable door.
- 4. Panels by Square D/Schneider Electric, Eaton/Cutler-Hammer or Siemens, and meeting these specifications shall be acceptable.

MOTOR STARTERS AND CONTROLS

- 1.Motor Starters, auxiliary contacts, interlock wiring, selector switches, pilot lights, pushbuttons, control relays and other control devices, provided under this division, shall be in accordance with the drawings and as specified herein, to provide a complete operating system.
- 2.Starters for motors shall be of the combination magnetic type, size as indicated. Non-reversing, full voltage, as required for the motor served. Starters shall be furnished with the following:
 - a.Front operated motor circuit protector mechanically-interlocked with the starter enclosure cover to prevent opening the starter unless the protector is in the open position, and lockable in the open position.
 - b.Magnetic, across-the-line contactor with overload protection and under-voltage protection or release.
 - c.Control transformer, fused secondary, for 120 volt control.
 - d.Start-Stop push buttons shall be door mounted. Provide manufacturer's standard legend.
 - e.Running pilot lights of the oil-light push-to-test neon-type with lamp and red lens shall be door mounted. Provide manufacturer's standard legend.
 - f. Three phase motor starters shall be furnished with auxiliary contacts as follows:
 - 1) Provide the correct number of contacts required by the control system.
 - g.Starters shall be wall mounted in NEMA 4X enclosures unless otherwise indicated. Enclosures shall be constructed of stainless steel per NEMA and UL standards and shall bear UL listing.
 - h. Provision to automatically disconnect any separate source control voltage.
 - i. Starters shall be equipped with front-operated reset pushbutton providing class 20 operation.

3.MOTOR STARTERS AND CONTROLS SHALL BE MANUFACTURED BY:

- a.Eaton
- b.Square D / Schneider Electric
- c.Siemens Corp.

IDENTIFICATION AND TAGGING

- 1.Panels, cabinets, etc. shall be properly identified with permanent nameplates securely fastened with screws to the front of equipment. "Stick-on" type letters or plates shall not be used.
 - a.Identify equipment and key equipment components with nameplates of black laminated phenolic material.
 - b.Coordinate nameplates with actual equipment installed.
 - c.Submit cut sheet of nameplates for approval prior to purchase and installation.
 - d.Minimum size nameplates shall be three inches long with 1/4 inch lettering.
- 2.Conductors in troughs, pull boxes, gutters, etc. shall be identified by means of tags indicating both terminating points.

GROUNDING AND BONDING

- 1.General
 - a.Provide all grounding and bonding conductors and connections as indicated, and in accordance with the requirements of the NEC and all local authorities having jurisdiction.
 - b.All major parts not carrying current, including the following items, shall be properly grounded with a green insulated grounding conductor:
 - i.Metallic junction boxes and disconnect switches.
 - ii.All metallic raceways, conduits and outlet boxes.
 - iii.Motor and equipment housings and metallic control panels.
 - c.Provide a "green" wire grounding conductor for all equipment and as indicated on the Drawings.
- 2.Products

a.Conductors and Connections:

- i.Hard-drawn, stranded (ASTM B8) copper.
- ii.Accessible grounding conductors shall be annealed copper with 600 volt, green type THW insulation. Conductors shall be stranded except pool bonding conductors which shall be solid.
- iii.Accessible connections shall be made with multiple bolt silicon bronze connectors specifically designed and approved for the connection to be made. Grounding connectors shall be individually selected for each application, as recommended by the conductor manufacturer.

iv.Where connections involve dissimilar metals contributing to corrosion, interpose a third, compatible conductive material. Exothermic welds of copper to steel are acceptable.

v.Inaccessible connections shall be made with exothermic welds (Cadweld or equal).

b.Grounding connectors shall be manufactured by:

- i.Burndy Corp.
- ii.Dossert Corp.
- iii.OZ/Gedney Co.

3.Execution

- a. Maintain all existing grounding. Replace missing ground conductors and connectors.
- b. Neutral connections to building steel or other ground source shall be made and sized so that ground fault currents do not result in damage to materials or connections.
- c. Panelboards and feeder pull boxes shall be grounded by means of insulated grounding bushings on all incoming and outgoing conduits 1-1/4 inches and larger.
- d. Wherever plastic or flexible conduit without internal ground conductor is used for part of a conduit run, a grounding conductor shall be provided in or external to the conduit and connected to grounding connectors at each end of run.

e. The resistance to ground of any part or system specified to be grounded shall not exceed 25 Ohms. Contractor shall test ground resistance with a megger ohmmeter and submit results in report form to the Engineer for approval.

f. Contractor shall megger the bonded equipment and submit results in report format to the Engineer for approval.

PROJECT ENGINEER:

Rimkunas Engineering, P.L.L.C.
Aquatic Engineering & Construction Management

Rimkunas Engineering, P.L.L.C.
44 Elm Street, 10th Huntington • New York • 11743
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NO.	REVISIONS	DATE

OWNER:

VILLAGE OF
HASTINGS-ON-HUDSON



DEPARTMENT OF
PARKS AND RECREATIONS

PROJECT:

CHEMKA POOL
STORM DAMAGE 2021
RECOVERY

DRAWING TITLE:

ELECTRICAL
SPECIFICATIONS

SCALE:

NOT TO SCALE

DRAWN BY:

BC

CHECKED BY:

SR

FILE NO.

-

PROJECT NO.

1148

DRAWING NO.

E-01

DATE:


06/03/2022

PROJECT ENGINEER:
Rimkunas Engineering, P.L.L.C.
 Aquatic Engineering & Construction Management
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 44 Elm Street, 10-Huntington • New York • 11743
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NO.	REVISIONS	DATE

OWNER:
VILLAGE OF HASTINGS-ON-HUDSON



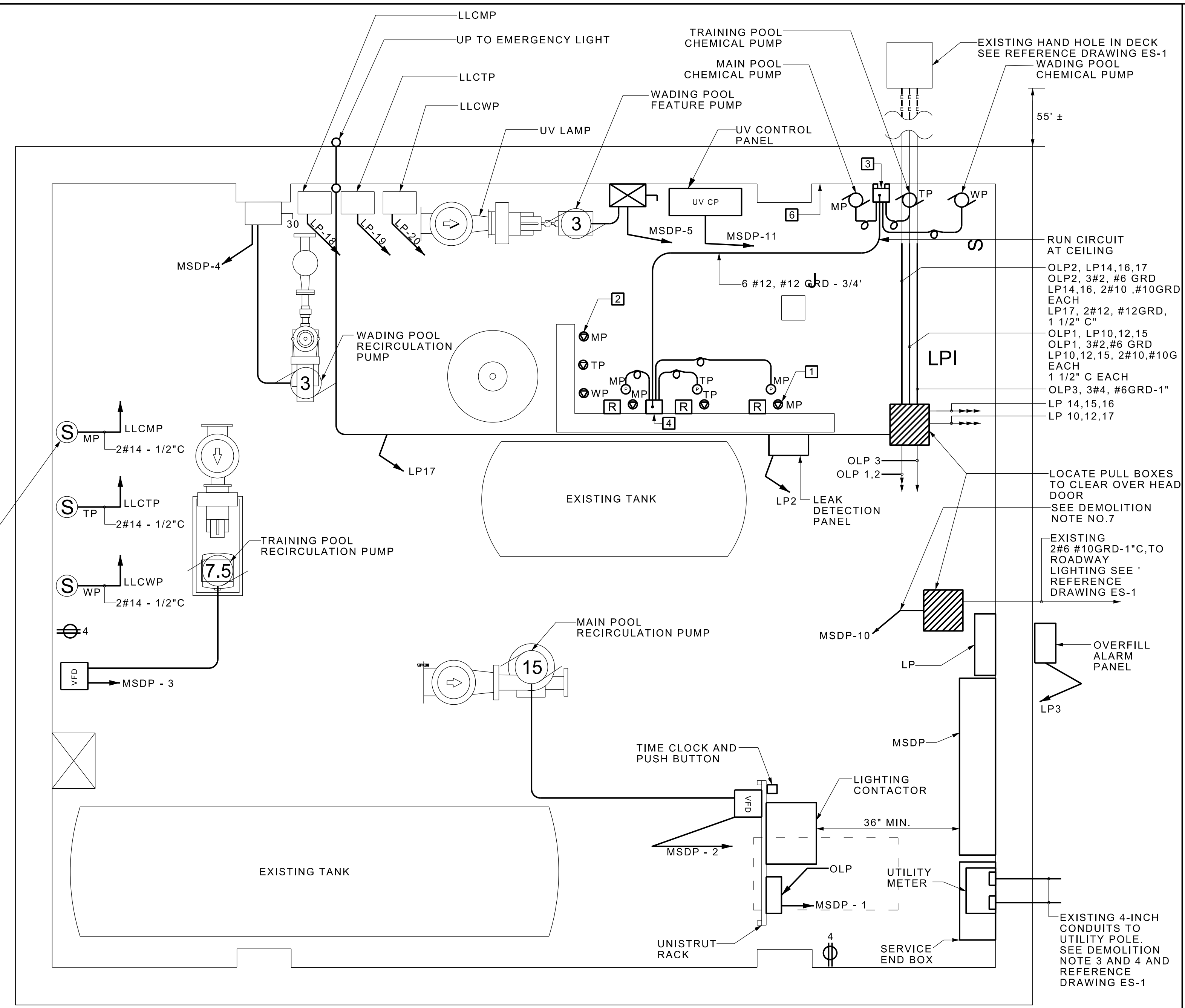
DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

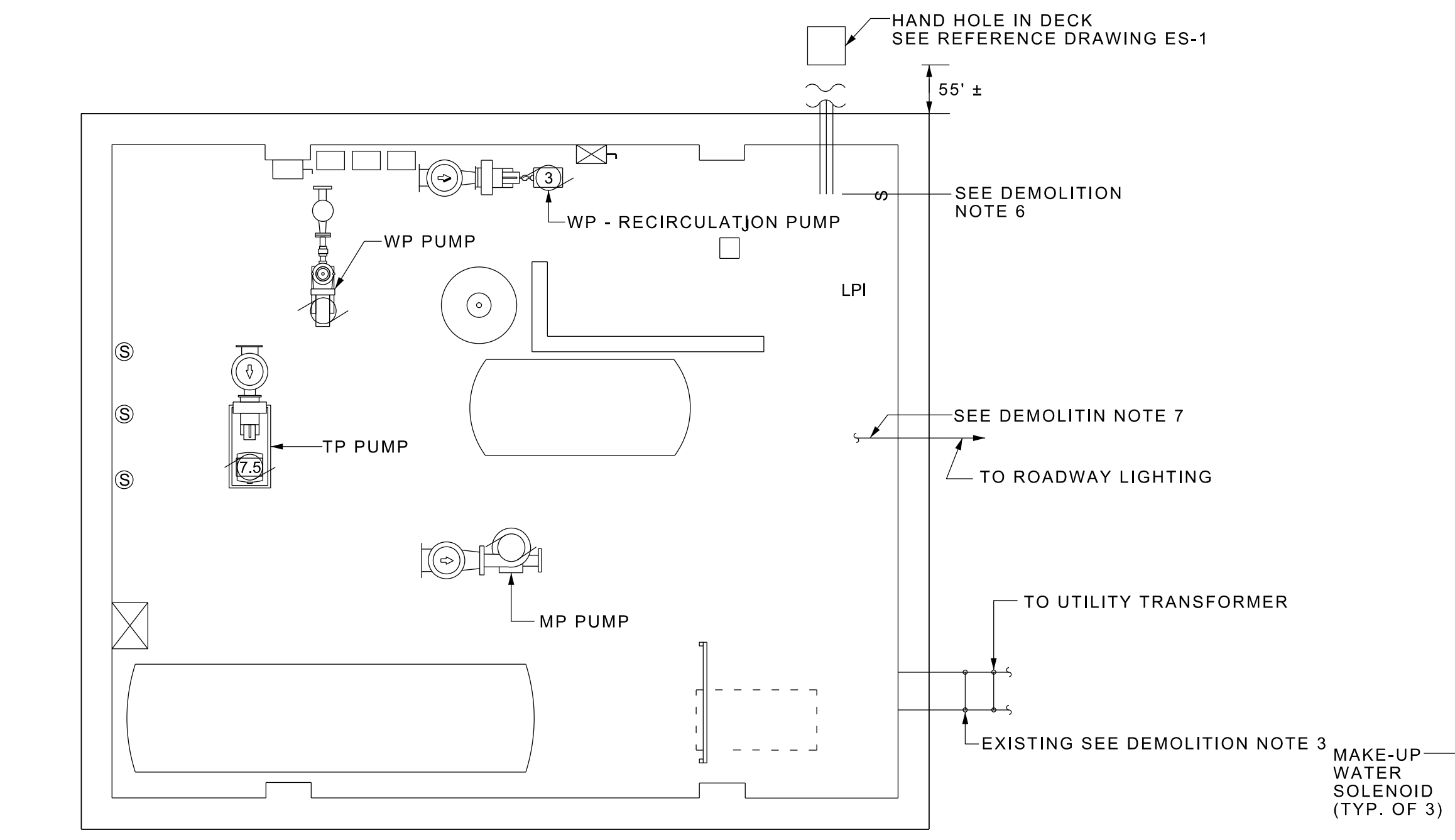
DRAWING TITLE:
ELECTRICAL DEMOLITION AND PROPOSED PLAN

SCALE:
SCALE AS SHOWN

DRAWN BY: BC	DRAWING NO. E-02
CHECKED BY: SR	
FILE NO. -	PROJECT NO. 1148
DATE: 06/03/2022	



- NOTES**
- RECEPTACLE (15A, 125VOLT, TWIST LOCK, GROUNDING) FOR CHEMICAL CONTROLLERS. CHANGE CHEMICAL CONTROLLER PLUG TO MATCHING TWIST-LOCK PLUG. TYPICAL OF THREE.
 - RECEPTACLE (15A, 125VOLT, TWIST LOCK, GROUNDING) FOR CO2 PUMPS CHANGE PLUGS ON CO2 PUMPS TO MATCHING TWIST-LOCK PLUG. TYPICAL OF THREE.
 - PROVIDE 6"x6"x4" DEEP DAMP LOCATION. POLYCARBONATE JUNCTION BOX WITH GASKET, SCREW COVER. MOUNT ON VERTICAL FIBERGLASS UNISTRUT SO THE BOX IS NOT IN CONTACT WITH THE WALL. CUT THE PLUGS FROM CHEMICAL PUMP CORDS AND SPLICE THE CORDS CONDUCTORS IN THE JUNCTION BOX TO THE CONDUCTORS RUNNING OVERHEAD IN CONDUIT. THE OVERHEAD CONDUCTORS ARE RUN TO THE SECOND JUNCTION BOX WHERE THEY SHALL BE SPLICED TO CORDS FOR CONNECTION TO THE CHEMICAL CONTROLLERS. PROVIDE CORD GRIPS AT EACH JUNCTION BOX FOR CORDS ENTERING THE JUNCTION BOX.
 - PROVIDE JUNCTION BOX, SAME AS NOTE 3 AND MOUNT OFF WALL. SPLICE INCOMING #12 CONDUCTORS TO SJ CORDS. PROVIDE NEW 15AMP, 125 VOLT TWIST LOCK PLUGS ON SJ CORDS. CHANGE RECEPTS ON CHEMICAL CONTROLLER CORDS TO MATCHING TWIST LOCK 15A, 125VOLT TYPE.
 - SEE CONTROL DIAGRAM ON DRAWING E-04 FOR 1, 2, 3, 4 AND RELAY 5.
 - MOUNT ALL EQUIPMENT ON NORTH WALL, INCLUDING RECEPTACLES ON FIBERGLASS UNISTRUT SO THEY ARE NOT IN CONTACT WITH THE WALL.



- DEMOLITION NOTES**
- IT IS THE INTENT OF THIS PROJECT TO DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL MATERIALS AND DEVICES INCLUDING CONDUITS, CONDUCTORS, LIGHTING FIXTURES, RECEPTACLES, SWITCHES, PANELBOARDS, MOTOR CONTROLLERS, CONTROL PANELS AND THE LIKE AND TO REPLACE THEM WITH NEW AS SHOWN ON THE DRAWINGS. THE DEMOLITION DRAWING DOES NOT SHOW EACH ITEM TO BE REMOVED. THE CONTRACTOR MUST VISIT THE SITE DURING THE BIDDING STAGE TO ASCERTAIN THE EXTENT OF THE DEMOLITION WORK.
 - THE ELECTRICAL CONTRACTOR SHALL DISCONNECT THE POOL RECIRCULATION PUMPS FOR REMOVAL BY OTHERS.
 - THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE THE TWO SETS OF 500MCM SERVICE CONDUCTORS FROM THE SERVICE END BOX IN THE FILTER ROOM UP TO THE CONNECTION AT THE UTILITY TRANSFORMER. THE CONTRACTOR SHALL ARRANGE WITH CON EDISON FOR ANY SHUTDOWNS AND DISCONNECTION OF THE SERVICE CONDUCTORS AT THE UTILITY TRANSFORMER.
 - UPON REMOVAL OF THE SERVICE CONDUCTORS FROM THE SERVICE CONDUITS THE ELECTRICAL CONTRACTOR SHALL PULL A MANDRILL AND WIRE BRUSH THROUGH EACH SERVICE CONDUIT AND SHALL NOTIFY THE OWNER IF THE CONDUITS ARE NOT USEABLE OR ARE OTHERWISE DAMAGED.
 - THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM THE SITE ALL ELECTRICAL MATERIALS AND EQUIPMENT FROM THE SITE AND DISPOSE OF PROPERLY.
 - THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL WIRING BETWEEN THE HANDHOLE LOCATED APPROXIMATELY 55' NORTH OF THE BATHHOUSE AND THE FILTER ROOM. SEE REFERENCE DRAWINGS ES-1. THE CONTRACTOR SHALL REPLACE THE WIRING FROM THE HANDHOLE INTO THE FILTER ROOM AND THE CONDUIT WITHIN THE FILTER ROOM PER THE DRAWINGS.
 - THE ELECTRICAL CONTRACTOR SHALL CUT BACK THE CONDUIT AND CONDUCTORS WHICH SERVE THE ROADWAY LIGHTING AND PARKING LOT LIGHTING FROM THE EXISTING OUTDOOR LIGHTING PANEL (OLP). THE EXISTING ROADWAY LIGHTING WIRING AND CONDUIT SHALL BE EXTENDED IN THE FILTER ROOM TO PANEL MSPD.

1 FILTER ROOM PLAN - DEMOLITION
 SCALE: 1/4"=1'-0"

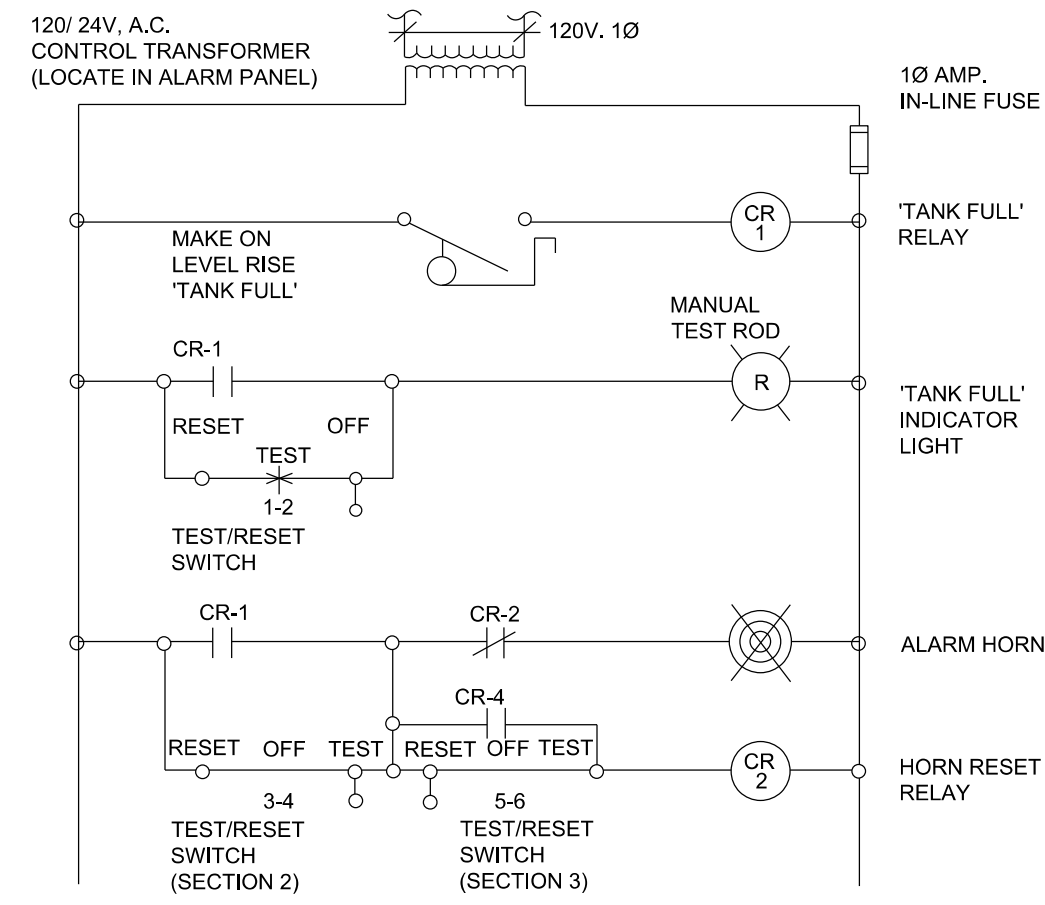
LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	RECEPTACLE, 20A, 125 V, GFI, UON, NUMERICAL INDICATES CIRCUIT NO IN PANEL LP.		RELAY
	TOGGLE SWITCH 20A, 125V, UON.		CHAIN OR STEM HUNG LED LIGHTING FIXTURE.
	COMBINATION MOTOR STARTER, I INDICATES NEMA SIZE.		UNDERGROUND ELECTRIC CIRCUIT(S)
	VARIABLE FREQUENCY DRIVE		BRANCH CIRCUIT WIRING
	UNFUSED DISCONNECT SWITCH, 30 INDICATES SWITCH SIZE.		FLEXIBLE CORD
	PULLBOX		15A, 125VOLT TWIST LOCK RECEPTACLE
	HOMERUN SHOWN, TO PANEL MSDP CIRCUIT 2 #12, @12 GRD - 3/4" C, NUMBER OF ARROWS INDICATE NUMBER CIRCUITS		15A, 125VOLT TWIST LOCK PLUG

ABBREVIATIONS

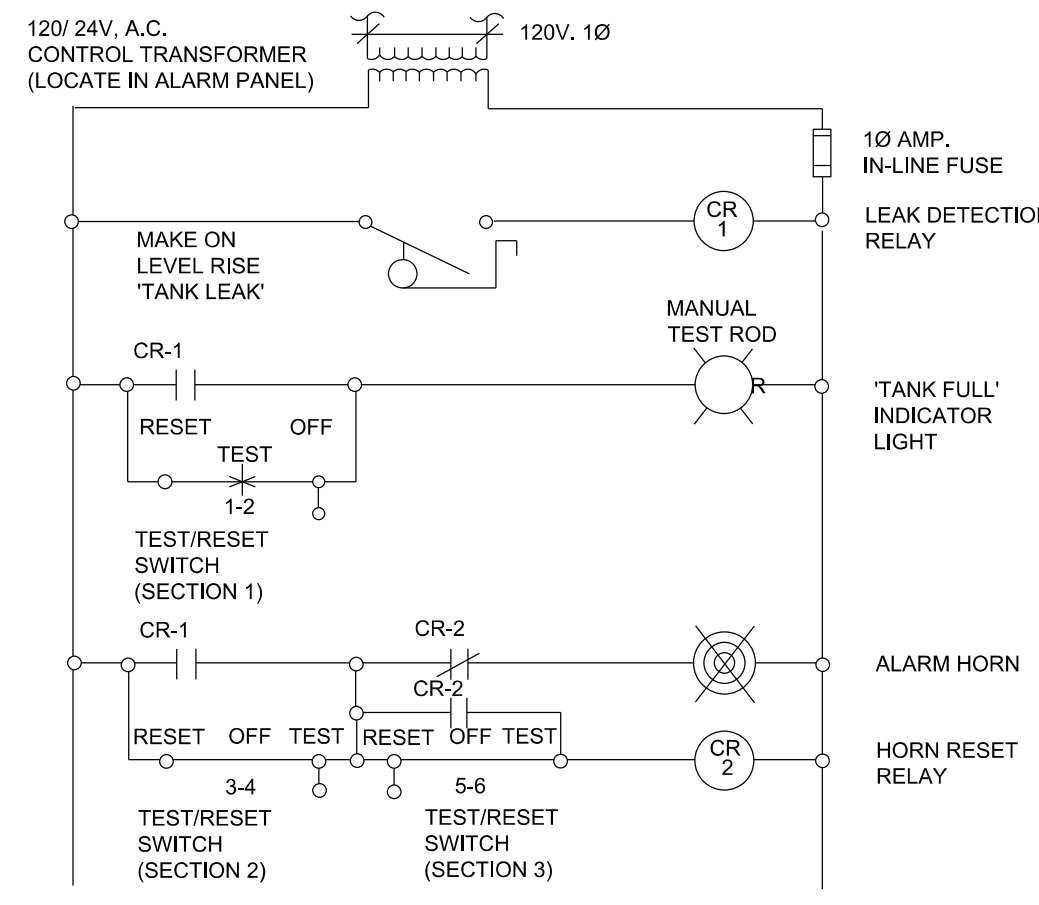
MP MAIN POOL
 TP TRAINING POOL
 WP WADING POOL
 FP FEATURE PUMP
 RC RECIRCULATION PUMP
 UON UNLESS OTHERWISE NOTED
 VFD VARIABLE FREQUENCY DRIVE
 LLC LEVEL CONTROL PANEL

2 ELECTRICAL LEGEND
 SCALE: N.T.S.

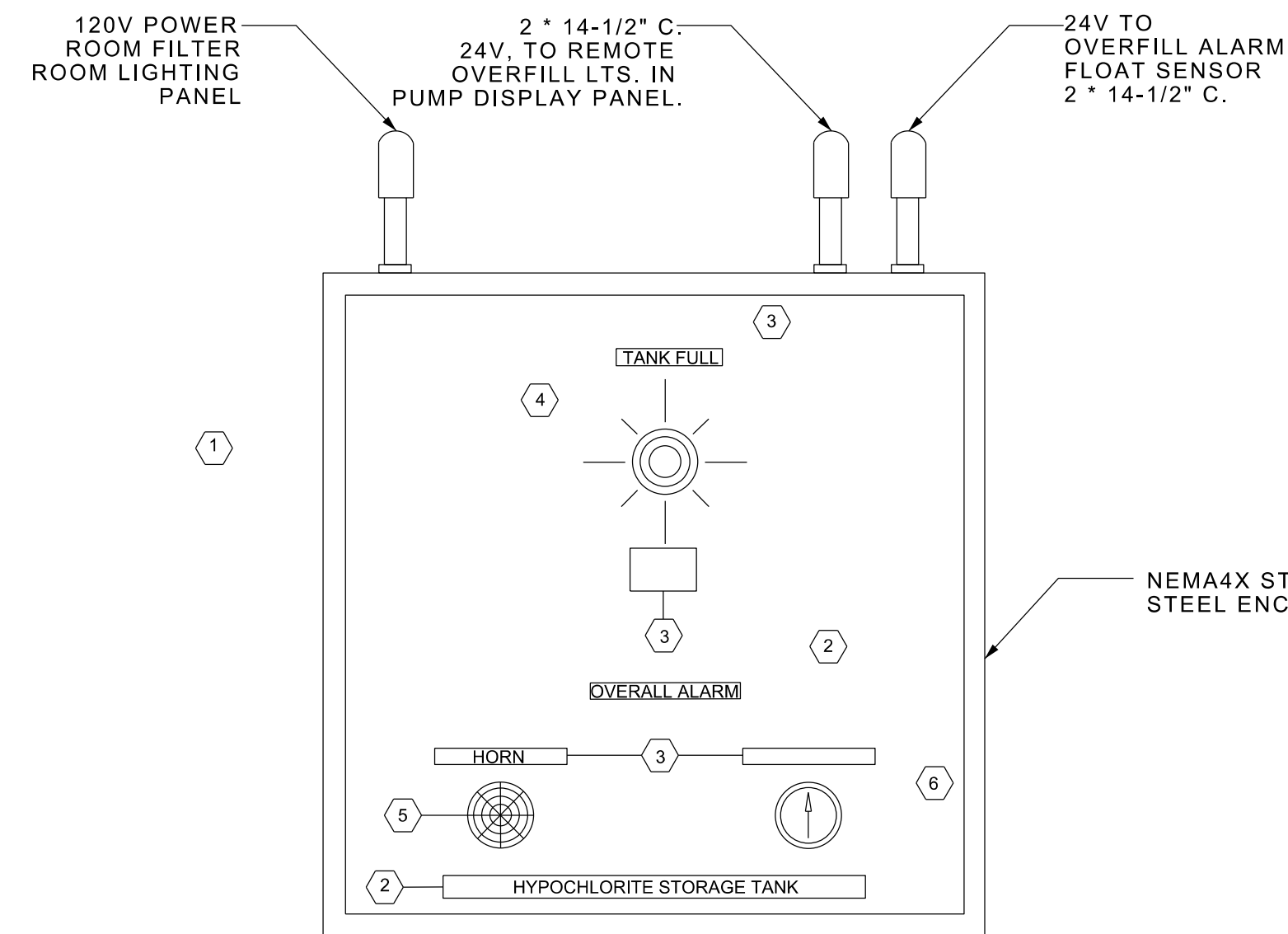
3 FILTER ROOM PLAN - NEW WORK
 SCALE: 1/2"= 1'-0"



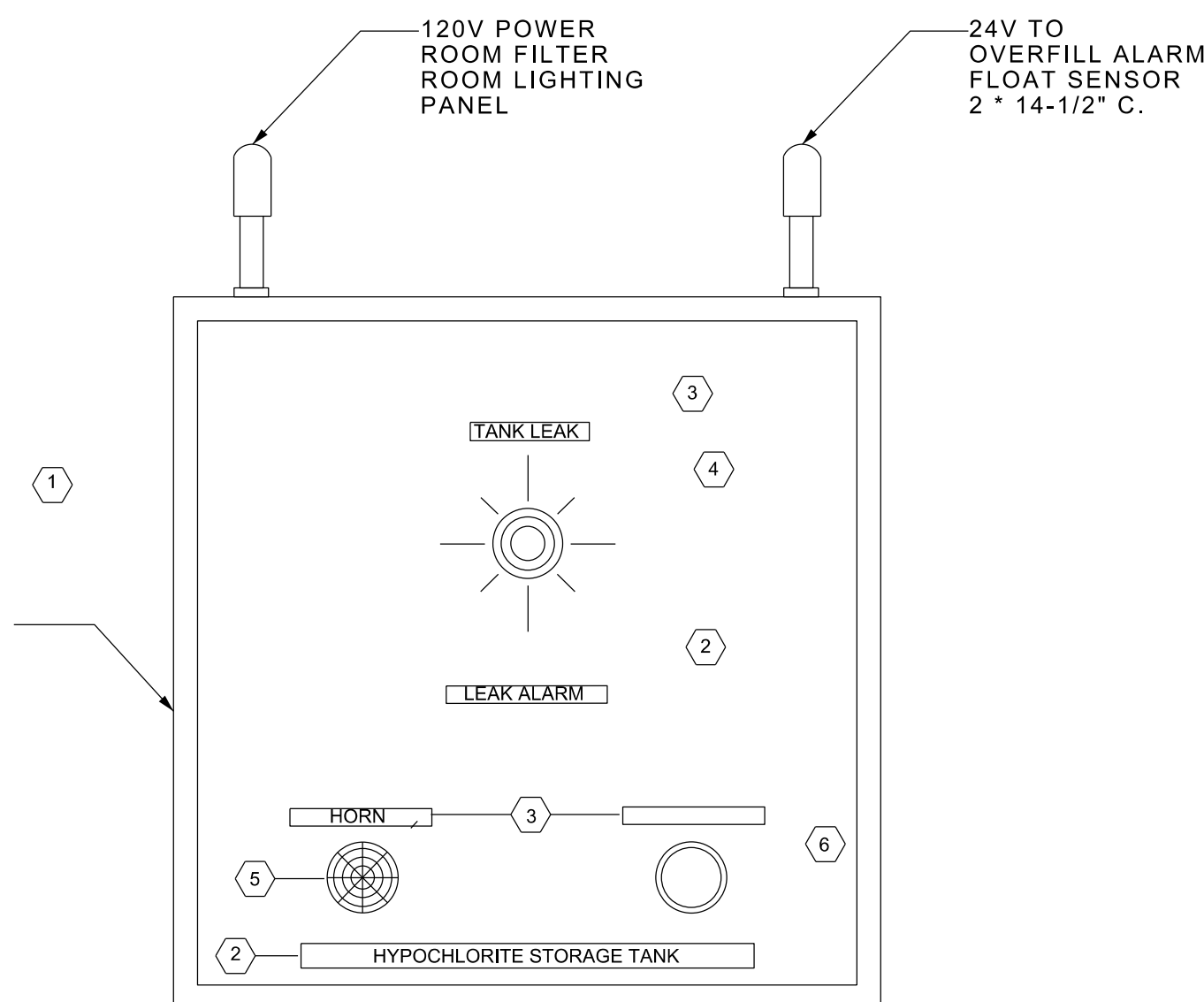
OVERFILL ALARM CONTROL



LEAK DETECTION ALARM CONTROL



COVER ARRANGEMENT



COVER ARRANGEMENT

LEAK DETECTION ALARM TEST/ RESET SWITCH DIAGRAM

CONTACTS	TERMINALS	ANGLE OF ROTOR ROTATION			NOTES
		-45°	0°	+45°	
1	1-2			X	SPRING RETURN TO 0° POSITION
2	3-4			X	
3	5-6	X			

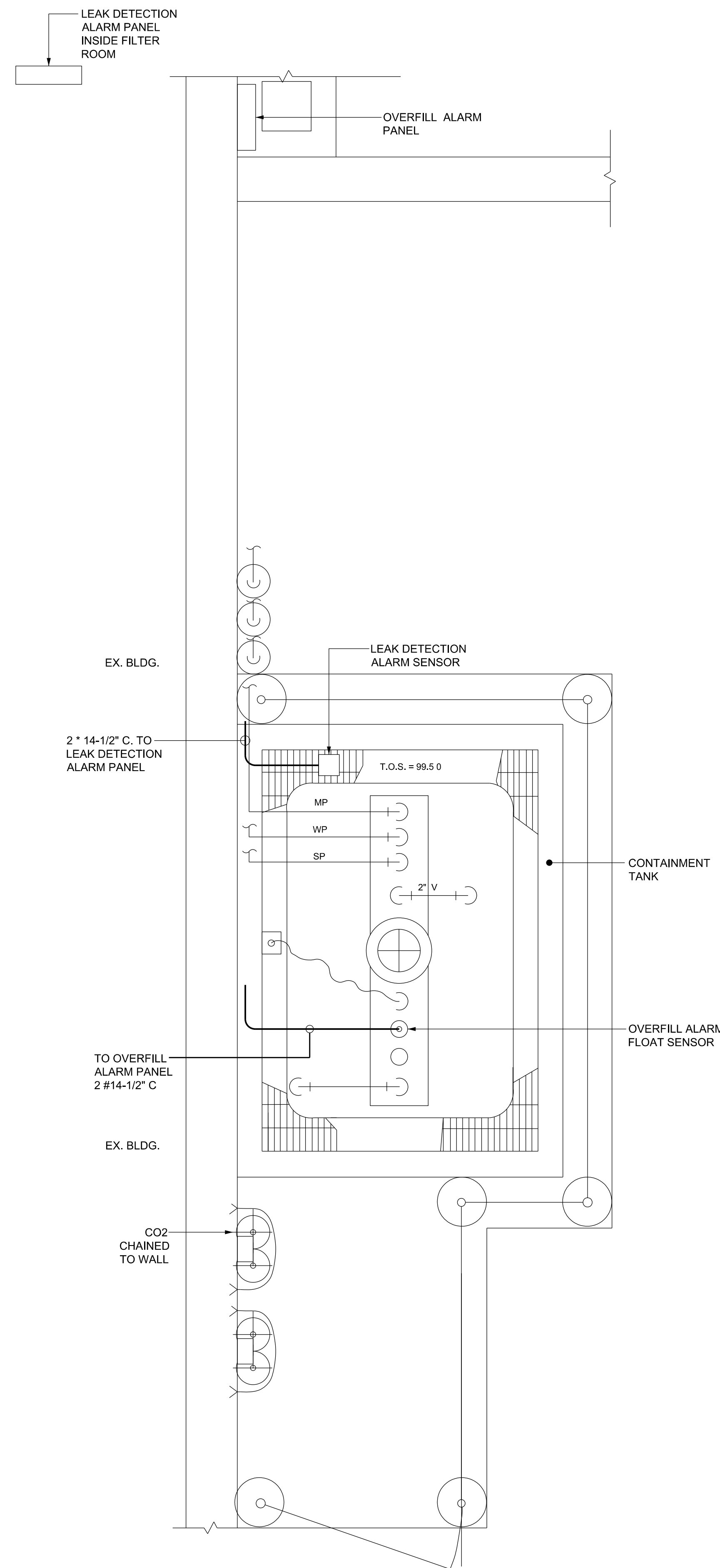
OVERFILL ALARM TEST/ RESET SWITCH DIAGRAM

CONTACTS	TERMINALS	ANGLE OF ROTOR ROTATION			NOTES
		-45°	0°	+45°	
1	1-2			X	SPRING RETURN TO 0° POSITION
2	3-4			X	
3	5-6	X			

ALARM PANEL LEGEND

SYMBOL	DESCRIPTION
①	NEMA 4 (WATERTIGHT) ENCLOSURE WITH HINGED DOOR, HASP PADLOCK
②	ENGRAVED LAMINATED PLASTIC NAMEPLATE, RED LETTERING ON WHITE BACKGROUND
③	ENGRAVED LAMINATED PLASTIC NAMEPLATE, BLACK LETTERING ON WHITE BACKGROUND
④	PLOT INDICATOR, RED LENS, PUSH - TO - TEST
⑤	ALARM HORN, 85 DB MINIMUM SOUND LEVEL
⑥	3-POSITION TEST/RESET SELECTOR SWITCH, KEY OPERATED WITH SPRING RETURN TO NEUTRAL (MIDDLE) POSITION

NOTE: PANELS SHOULD BE BY TREATMENT SPECIALTIES. PHONE #201-236-0217



PLAN OF HYPOCHLORITE STORAGE TANK

PROJECT ENGINEER:
Rimkunas Engineering, P.L.L.C.
Aquatic Engineering & Construction Management
Rimkunas Engineering, P.L.L.C.
44 Elm Street, 10th Huntington • New York • 11743
631.470.6115

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NO.	REVISIONS	DATE

OWNER:
VILLAGE OF HASTINGS-ON-HUDSON



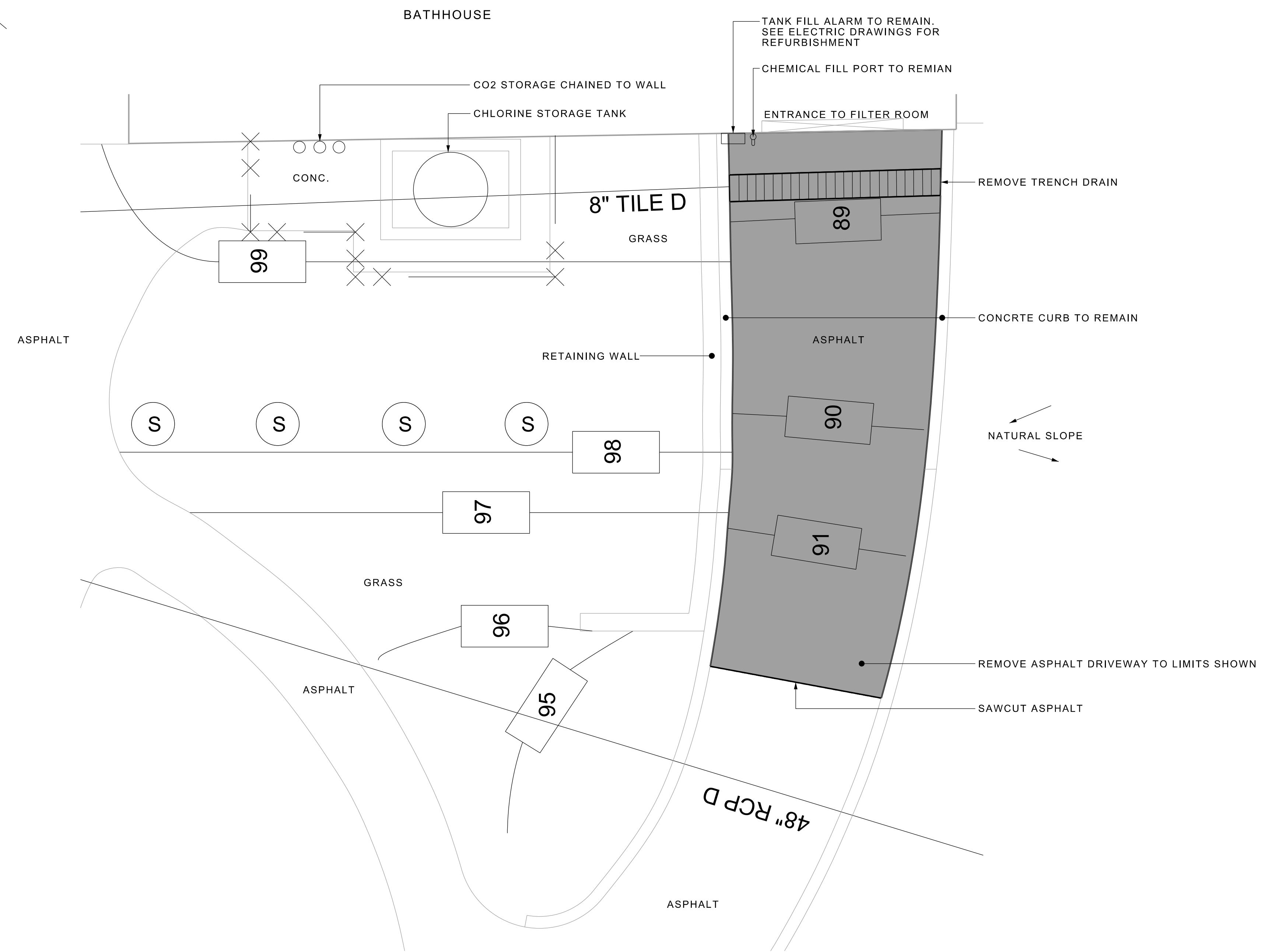
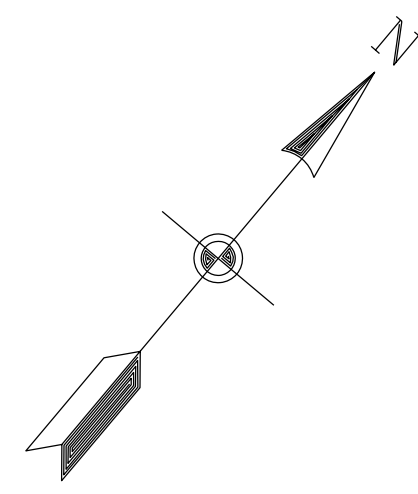
DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

DRAWING TITLE:
CHEMICAL BULK STORAGE ALARM SYSTEM

SCALE:
NOT TO SCALE

DRAWN BY: BC	DRAWING NO. E-05
CHECKED BY: SR	
FILE NO. -	PROJECT NO. 1148
DATE: 06/03/2022	



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 EXSITING PIPE EXITING TRENCH FOR NEW CONNECTION.
4. PROTECT EXISTING CONCRETE CURB AND RETAINING WALL.
5. CHLORINE TANK OVERFILL ALARM TO REMAIN IN PLACE. SEE ELECTRICAL DRAWINGS FOR RECONSTRUCTION OF ALARM PANEL.
6. TANK FILL PORT TO REMIAN IN PLACE.
7. REMOVE EXISTING CHAINLINK FENCE GATES TO FILTER ROOM. INSTALL TEMPORARY FENCING TO PREVENT ENTRY INTO FILTER ROOM DURING CONSTRUCTION.

PROJECT ENGINEER:
Rimkunas Engineering, P.L.L.C.
 Aquatic Engineering & Construction Management
 Rimkunas Engineering, P.L.L.C.
 44 Elm Street, 10th Huntington • New York • 11743
 631.470.6115

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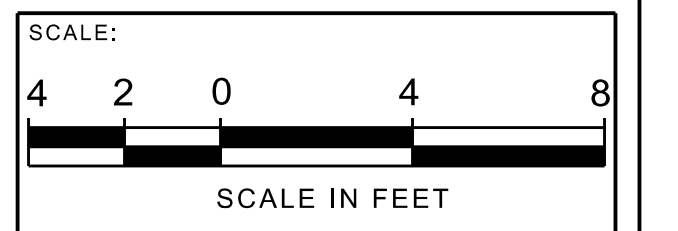
NO.	REVISIONS	DATE

OWNER:
VILLAGE OF HASTINGS-ON-HUDSON

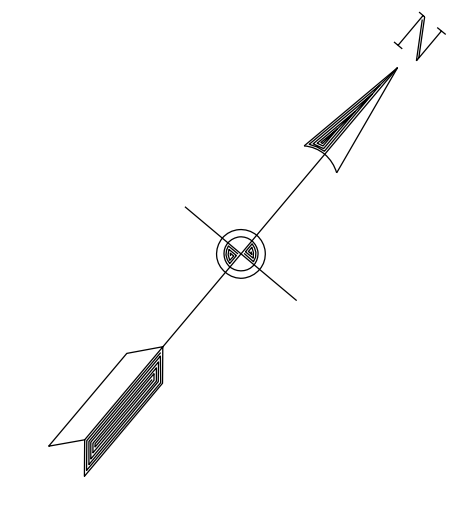
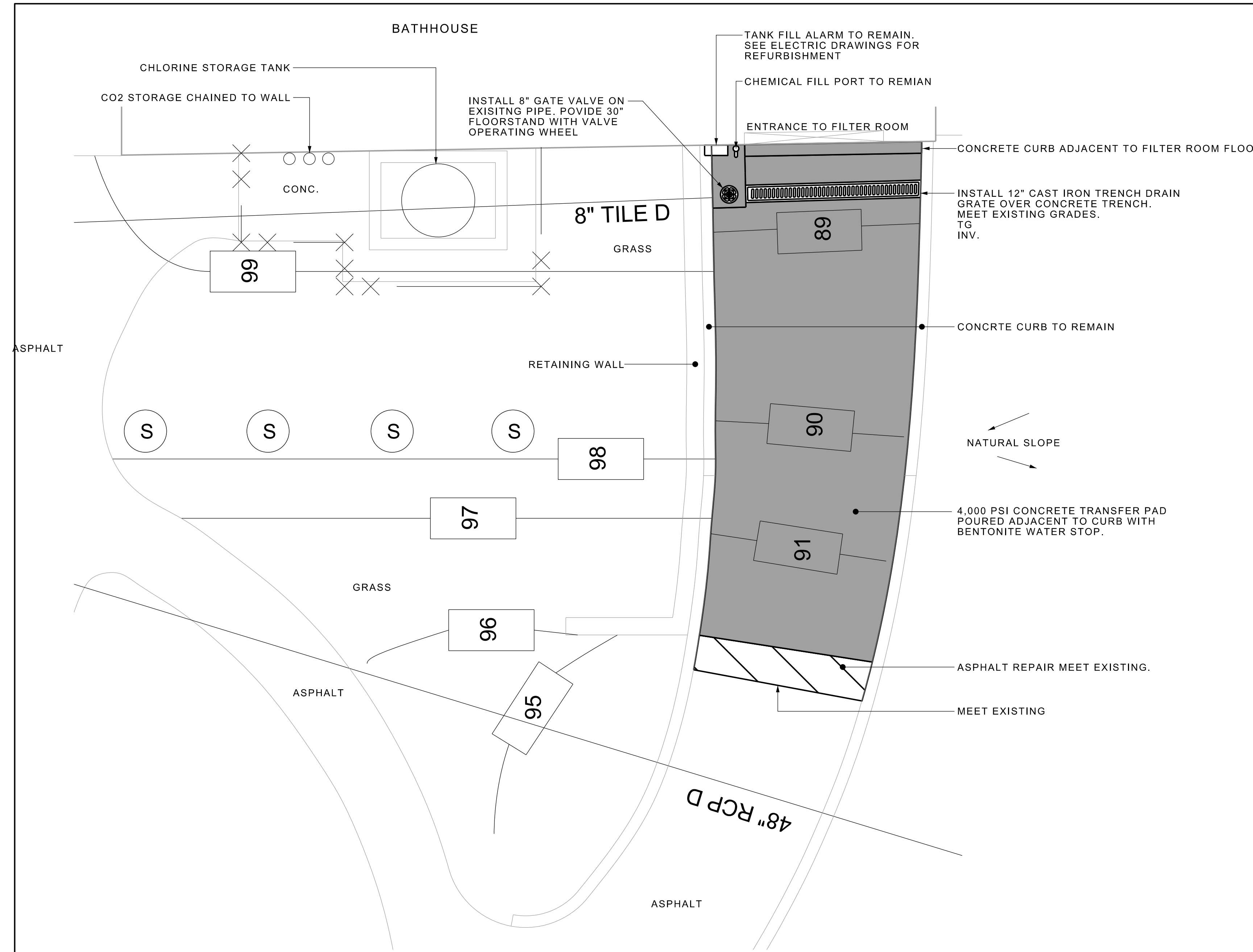
 DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

DRAWING TITLE:
TRANSFER PAD SITE DEMOLITION



DRAWN BY: BC	
CHECKED BY: SR	
FILE NO. -	
PROJECT NO. 1148	DRAWING NO. CBS-01
DATE: 06/03/2022	

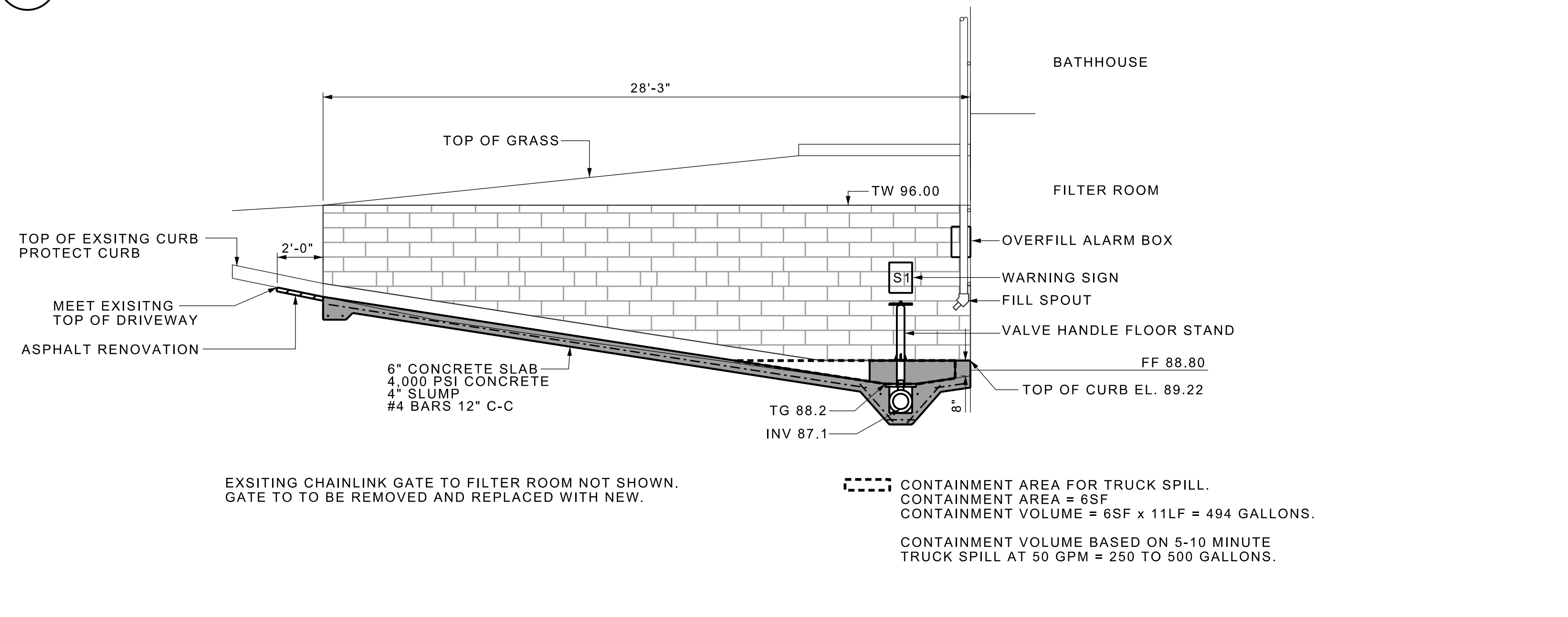


- PROPOSED NOTES:**
1. POUR NEW CONCRETE TRANSFER PAD TO MATCH EXISTING GRADES.
 2. PROVIDE BENTONITE WATERSTOP BETWEEN NEW CONCRETE AND EXISTING CONCRETE CURB
 3. FURNISH AND INSTALL NEW TRENCH DRAIN GRATE OVER CONCRETE TRENCH. POUR CONCRETE INVERT TO MATCH PIPE INVERT.
 4. FURNISH AND INSTALL 8" BURIED GATE VALVE AT END OF EXISTING TRENCH DRAIN DISCHARGE PIPE.
 5. FURNISH AND INSTALL FLOOR STAND FOR WHEEL VALVE OPERATOR.
 6. CHLORINE TANK OVERFILL ALARM TO REMAIN IN PLACE. SEE ELECTRICAL DRAWINGS FOR RECONSTRUCTION OF ALARM PANEL.
 6. TANK FILL PORT TO REMAIN IN PLACE.
 7. INSTALL NEW CHAINLINK FENCE GATES TO FILTER ROOM.
 8. PROVIDE NEW WARNING SIGN DIRECTING VALVE TO BE CLOSED DURING CHEMICAL TRANSFER.
 9. PROVIDE NEW WARNING SIGN DIRECTING FILTER ROOM EJECTOR TO BE TURNED OFF DURING CHEMICAL TRANSFER.

BEFORE TRANSFERRING
ANY CHEMICAL PRODUCT
CLOSE CHEMICAL TRANSFER
STATION DRAIN VALVE
TURN OFF FILTER ROOM
EJECTOR PIT

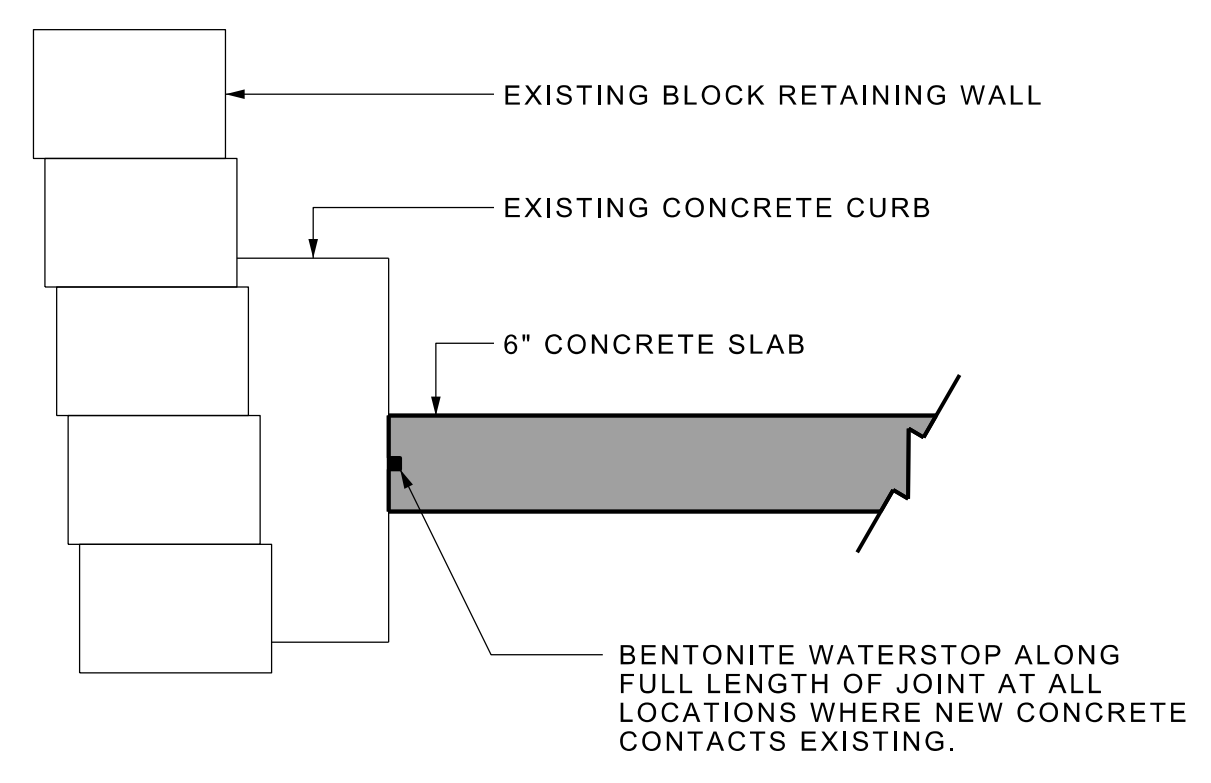
1 TRANSFER PAD PROPOSED PLAN
SCALE: 1" = 4'-0"

2 CONSTRUCTION NOTES AND WARNING SIGN
SCALE: N.T.S.



3 TRANSFER PAD PROPOSED SECTION
SCALE: 1/4" = 1'-0"

4 CURB / CONCRETE SLAB JOINT
SCALE: N.T.S.



PROJECT ENGINEER:
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Aquatic Engineering & Construction Management
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NO.	REVISIONS	DATE

OWNER:
VILLAGE OF HASTINGS-ON-HUDSON

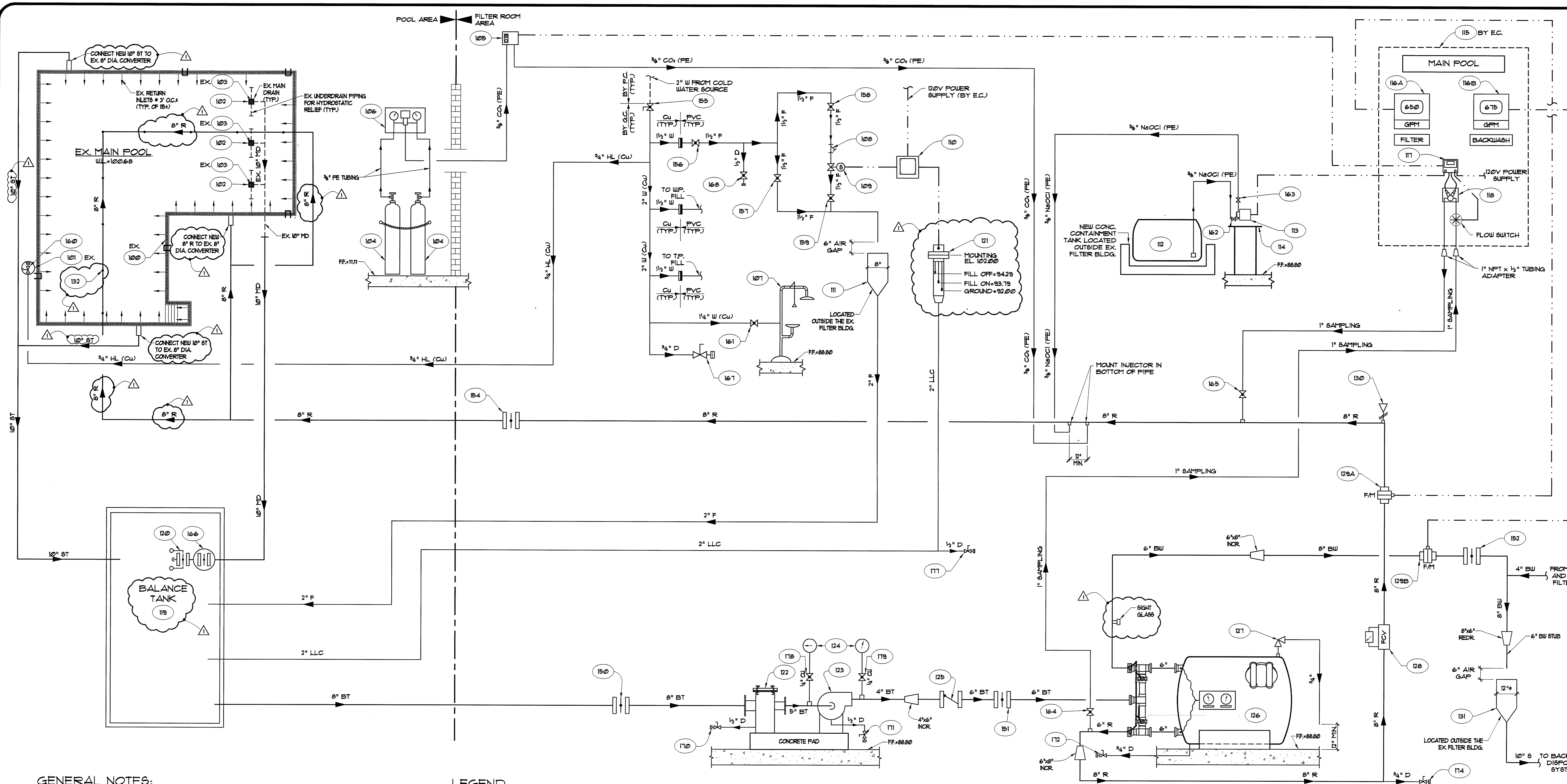
DEPARTMENT OF PARKS AND RECREATIONS

PROJECT:
CHEMKA POOL STORM DAMAGE 2021 RECOVERY

DRAWING TITLE:
TRANSFER PAD SITE PROPOSED

SCALE:
SCALE AS SHOWN

DRAWN BY: BC	DRAWING NO. CBS-02
CHECKED BY: SR	
FILE NO. -	
PROJECT NO. 1148	
DATE: 06/03/2022	



GENERAL NOTES:

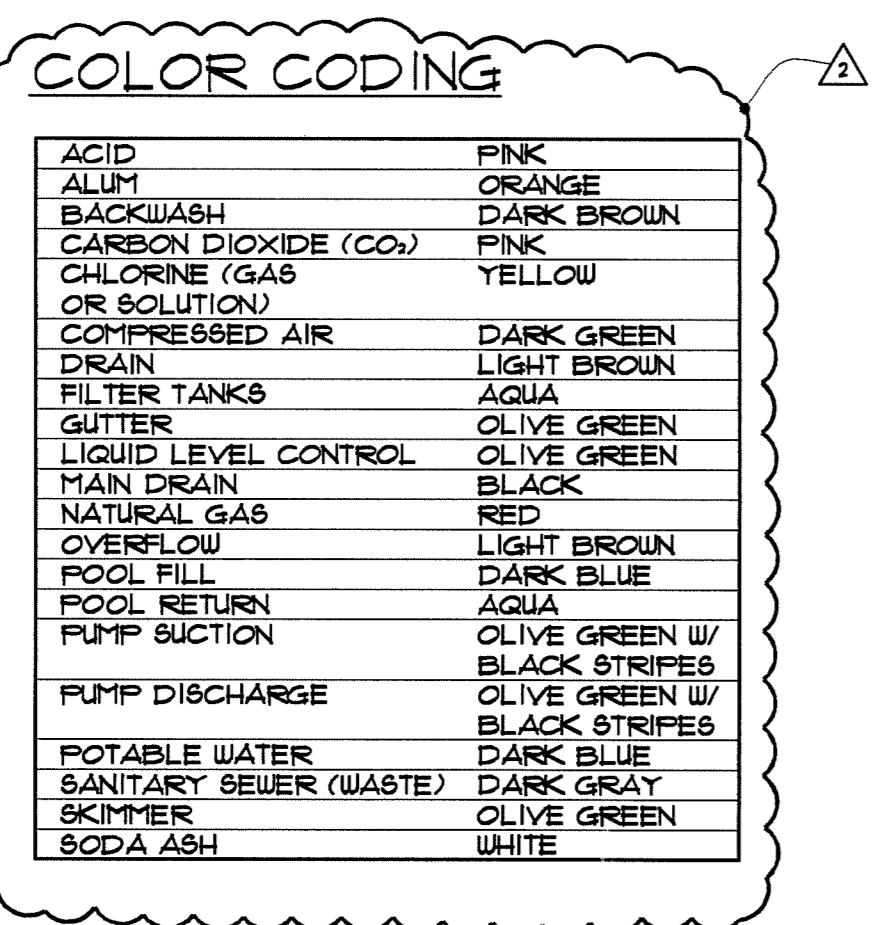
- 1. UNLESS OTHERWISE NOTED, ALL ITEMS SHOWN HEREIN SHALL BE NEW.
- 2. THE EXISTING MAIN POOL PUMP AND FILTER SYSTEMS HAVE AN APPROVED DESIGN FLOW OF 650 GPM. PROPOSED RENOVATIONS WILL MAINTAIN THE DESIGN FLOW OF 650 GPM.

ABBREVIATIONS

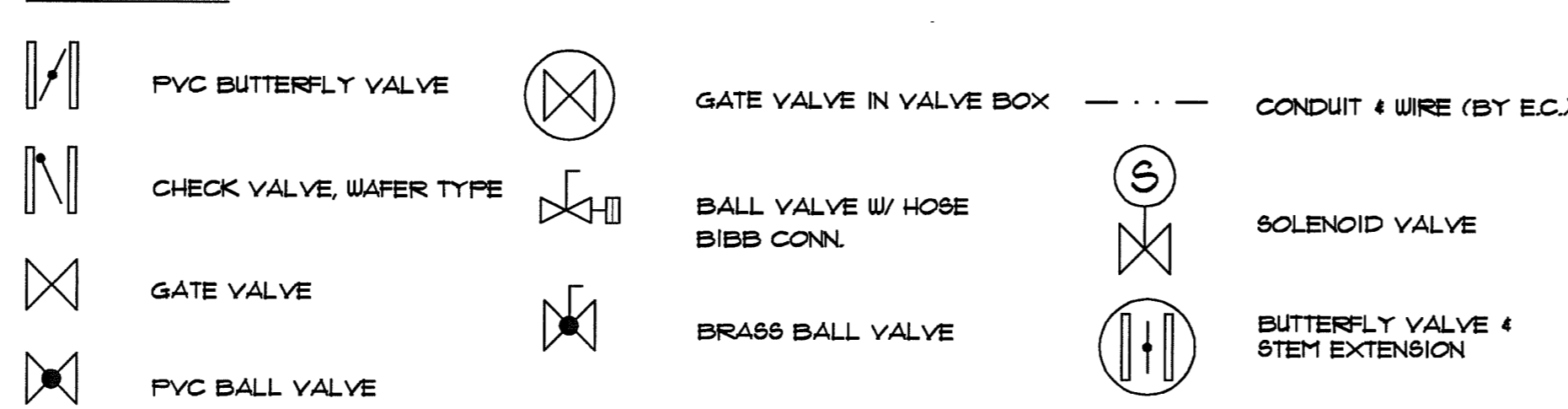
BLDG.	BUILDING
BAL. TANK	BALANCE TANK
BU	BACKWASH
CO ₂	CARBON DIOXIDE
D	DRAIN
EX.	EXISTING
F	FILL
FT./SEC.	FEET PER SECOND
GAL.	GALLON
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HL	HANDICAPPED LIFT
HR	HOUR
NCR.	INCREASE
L	LONG
LF	LINEAR FEET
LLC	LIQUID LEVEL CONTROL
MAX	MAXIMUM
MD	MAIN DRAIN
MP	MAIN POOL
NaOCl	SODIUM HYPOCHLORITE
OD	OUTSIDE DIAMETER
OF	OVER FLOW
PE	POLYETHYLENE
P	POOL
REDR.	REDUCER
S	SANITARY SEWER
SQ. FT.	SQUARE FEET
ST	SURGE TRENCH
TP	TRAINING POOL
WL	WATER LEVEL
WP	WADING POOL

DESIGN DATA

POOL SIZE	LF	40'-0" x 80'-10"
SURFACE AREA	SF	5200
PERIMETER	LF	340
POOL VOLUME	GAL	216,000
TURNOVER	HR	5.43
FLOW RATE	GPM	650
FILTER AREA	SF	45.1
APPLICATION RATE	GPM/SF	14.41
MAIN DRAIN OPEN AREA	SF	2.10
VELOCITY THRU MD	FT/SEC	0.54
15% NaOCl REQ'D # 10 PPM	GPD	252



LEGEND



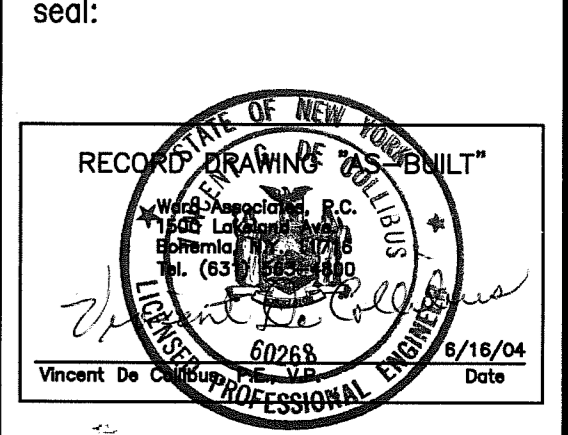
VALVE OPERATION CHART

VALVE NO.	DESCRIPTION	SIZE	FUNCTION	FILTERING		BACKWASH		WINTER	
				OPEN	CLOSED	OPEN	CLOSED	OPEN	CLOSED
150	POOL PUMP SUCTION	8"	ISOLATION	X		X			X
151	POOL PUMP DISCHARGE	6"	ISOLATION	X		X			X
152	BACKWASH	8"	ISOLATION		X		THROTTLE	X	
153	NOT USED								
154	POOL RETURN	8"	ISOLATION	X		X			X
155	CW SUPPLY	2"	ISOLATION	X		X			X
156	POOL FILL	1 1/2"	ISOLATION	X		X			X
157	POOL FILL (MANUAL)	1 1/2"	BYPASS		X		X	X	X
158	POOL FILL (AUTO)	1 1/2"	ISOLATION	X		X			X
159	HANDICAPPED LIFT	3/4"	ISOLATION	X		X		X	X
161	EYEWASH/SHOWER	1 1/4"	ISOLATION	X		X			X
162	NaOCl	1/2"	ISOLATION	X		X			X
163	NaOCl	1/2"	ISOLATION	X		X			X
164	CHEMICAL SAMPLING	1"	ISOLATION	X		X		X	X
165	CHEMICAL SAMPLING	1"	ISOLATION	X		X		X	X
166	MAIN DRAIN	10"	ISOLATION	X		X		X	X
167	EYEWASH/SHOWER	3/4"	DRAIN	X			X		X
168	POOL FILL (DRAIN)	1 1/2"	DRAIN	X			X		X
170	POOL PUMP STRAINER	1 1/2"	DRAIN		X			X	
171	POOL PUMP	1 1/2"	DRAIN		X			X	
172	FILTER TANK	3/4"	DRAIN		X			X	
173	NOT USED								
174	POOL RETURN	3/4"	DRAIN		X			X	
176	NOT USED								
177	LL ASSEMBLY	1 1/2"	DRAIN		X		X	X	
178	PUMP GAUGE	1/2"	ISOLATION	X		X		X	
179	PUMP GAUGE	1/2"	ISOLATION	X		X		X	

LIST OF EQUIPMENT

ITEM No.	QTY.	DESCRIPTION	MANUFACTURER	MODEL No.	NOTES
1020	340 LF	EX. DECK LEVEL GUTTER			EX. GUTTER TO BE MAINTAINED.
101	1	HANDICAPPED LIFT	SPECTRUM AQUATICS	PINTLAR	INSTALL LIFT AND SUPPLY VALVE BOX W/ QUICK CONNECTING HOSE BIBB.
102	3	MAIN DRAIN FRAME & GRATE	DURADEK	1-4202-11 1/2"	FRP, MAX. CLEAR OPEN. 40% FOA. 8.5 HDUE. WHITE (MD. * 1'-6" W/ 6" EA)
103	3	EX. HYDROSTATIC RELIEF VALVE			ENSURE OPERATION OF VALVES.
104	6	CO ₂ CYLINDER	AUISCO NEW YORK CORP.		2-50 LB. TANKS. CONTRACTOR SHALL PROVIDE LOCKS & CHAINS TO SECURE TANKS. PROVIDE (4) SPARE'S.
105	1	CO ₂ FEED UNIT	TREATMENT SPECIALTIES	CO ₂ FEED SYSTEM	WALL MOUNTED CO FEED UNIT. FIBERGLASS PANEL CONTAINS 10-100 SCFH FLOWMETER AND 120 VOLT SOLENOID VALVE (18-CO-4)
106	1	PRESS. RED. & CHANGEOVER VALVE	TREATMENT SPECIALTIES	PD8 500 BRASS	PROVIDE FLEXIBLE TUBING, MOUNT IN CO. AREA OUTSIDE THE EX. BLDG.
107	1	EYEWASH/SHOWER	HAUS	8320	W/ 1/2" ISOLATION BALL VALVE
108	1	STRAINER	HAYWARD	"Y" - TYPE	
109	1	SOLENOID VALVE	ASCO	8221G11	1 1/2" BRASS, SLOW CLOSING
110	1	LIQUID LEVEL CONTROLLER	WARRICK CONTROLS	18V11AC-25-25	NEMA 4X NON-METALLIC ENCLOSURE. FIELD ADJUSTABLE CONTROLLER, INVERSE ACTING W/ 5 SECOND TIME DELAY
111	1	FILL FUNNEL	FABRICATED		8" x 16" LONG, PVC SCHED. 80 CONSTRUCTION
112	1	NaOCl TANK	CHEM-TAINER	TC646DIA	VERTICAL 100 GAL. HDPE. IN NEW CONC. CONTAINMENT TANK
113	1	NaOCl FEEDER PUMP	LMI	B31-46051	W/ 4 FUNCTION VALVE & ACCESSORIES
114	1	NaOCl PUMP SUPPORT SHELVES	FABRICATED		FRP CONSTRUCTION W/ CONTAINMENT
115	1	CONTROL PANEL	FABRICATED		8.5. CONSTRUCTION BY E.C. SEE ELECTRICAL DWG'S.
116A	1	SIGNAL	SIEMENS	3-5100	BATTERY OPERATED
116B	1	FLOW MONITOR	SIEMENS	3-5122	3" BATTERY OPERATED
117	1	CHEMICAL CONTROLLER	LINK AUTOMATION	POOL LINK 1000 SERIES	NaOCl AND pH MONITORING
118	1	SAMPLE STREAM ASSEMBLY	LINK AUTOMATION	SM PROBE CHAMBER SYS.	W/ BALL VALVES, FLOW SWITCH, & ACCESSORIES
119	1	BALANCE TANK	FABRICATED		(POURED CONCRETE)
120	1	FLOAT VALVE	MER MADE	10" FV-D	12" 5.5. BODY W/ 2-5.5. FLOATS & ADJUSTABLE FLOAT ARMS
121	1	LIQUID LEVEL GAUGE/SENSORS	WARRICK CONTROLS	3F3E	2 1/4" CLEAR POLYCARBONATE GAUGE (3) TYPE 316 8.5. PROBES, CONTRACTOR SHALL FIELD CUT RESP. LENGTH.
122	1	STRAINER	MER MADE	T STYLE BASKET STRAINER	8" 2.5" FRP BODY CLEAR LID AND (2) 8.5. BASKETS
123	1	RECIRCULATION PUMP	FACO	KFV-4215-1	650 GPM * 60" TDH W/ 20 HP 150 RPM MOTOR (NSF APPROVED)
124	1	DUAL PRESSURE/ SUCTION GAUGE	WEISLER	AA-14-41 1/2"	PRESSURE GAUGE (0-60 PSI) & COMPOUND GAUGE (30-0-60 PSI), 1/2" CONNECTIONS, ISOLATION VALVES
125	1	CHECK VALVE	KEYSTONE	FRNCE #812	6" WAFER CHECK. ALL 8.5. CONSTRUCTION
126	1	FILTER TANK	NEPTUNE BENSON	421449FFG	42" DIA. HORIZONTAL FIBERGLASS TANK W/ 6" PIPE MANIFOLD, ACCESS HATCH GAUGE PANEL, & SIGHT GLASS
127	1	AIR RELIEF VALVE	NEPTUNE BENSON		3/4" VALVE
128	1	FLOW CONTROL VALVE	GRIBUILD	1513BTE	8" EPOXY COATED C.I. BODY W/ 8.5. CARTRIDGES
128A	1	FLOW METER SENSOR	SIEMENS	FB530-PI	W/ PV8800 FITTING (RANGE * 0-3000 GPM)
129	1	FLOW METER SENSOR	SIEMENS	FB530-FI	W/ PV8800 FITTING (RANGE * 0-3000 GPM)
130	AS REQ'D.	AUTOMATIC AIR VENT	HOPKIN TACO	418 "HY-VENT"	3/4" LOCATE AT ALL HIGH POINTS IN SYSTEM
131	1	BACKWASH FUNNEL	FABRICATED		12" DIA. PVC CONSTRUCTION, INSTALLED BY G.C.
132	3	FLOOR INLET	LIN SMITH INC	48-66102	2" FIP CHECKE PLATED, ADJUSTABLE W/ SPANNER URENCH

* ADJUST VALVE TO FLOW 30% OF THE TOTAL FLOW (630 X 0.30 = 189 GPM)

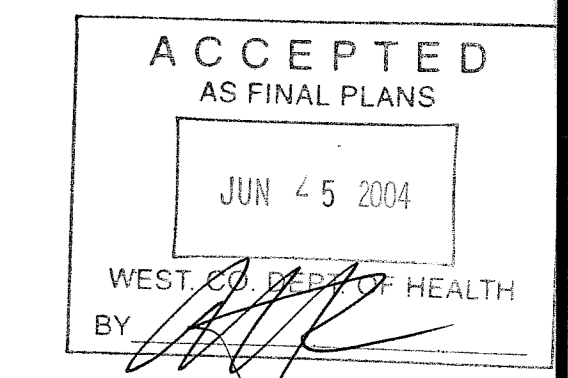


AS BUILT 6/16/04
 REVISED PER WCHD 7/24/03
 REVISED PER WCHD 8/02/03

WARD ASSOCIATES
 Landscape Architects,
 Architects, Engineers

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 (631) 563-4800

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 Little Falls, New York 13365
 (315) 823-4384



WESTCHESTER COUNTY HEALTH DEPARTMENT

project title:
MODERNIZATION OF SWIMMING POOLS
JULIUS M. CHEMKA POOL FACILITY

VILLAGE OF HASTINGS-ON-HUDSON
 TOWN OF GREENBURGH, NEW YORK

drawing title:
EXISTING MAIN POOL

HYDRAULIC SCHEMATIC

drawn by: V.G.D.
 checked by: V.G.D.
 date: 12/20/02
 scale: AS NOTED

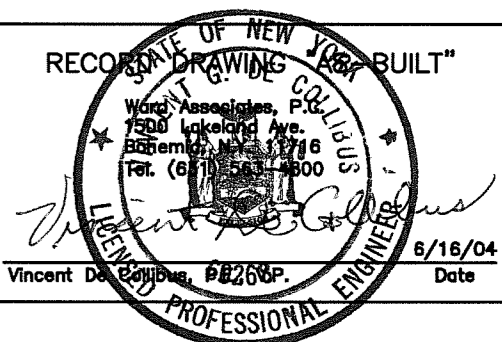
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SP-1 of 14

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ref. no.: 200124.00



seal:



AS BUILT 6/16/2014
REVISION PER WCHD 1/24/2015
REVISION PER WCHD 5/22/2015

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Architects, Engineers

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(631) 563-4800

45 West Main Street
Little Falls, New York 13365
(315) 823-4384

ACCEPTED
AS FINAL PLANS
JUN 25 2014

WEST CO. DEP. OF HEALTH
BY: [Signature]

WESTCHESTER COUNTY
HEALTH DEPARTMENT

project title:

MODERNIZATION OF
SWIMMING POOLS

JULIUS M. CHEMKA
POOL FACILITY

VILLAGE OF HASTINGS-ON-HUDSON
TOWN OF GREENBURGH, NEW YORK

drawing title:

TRAINING POOL

HYDRAULIC
SCHEMATIC

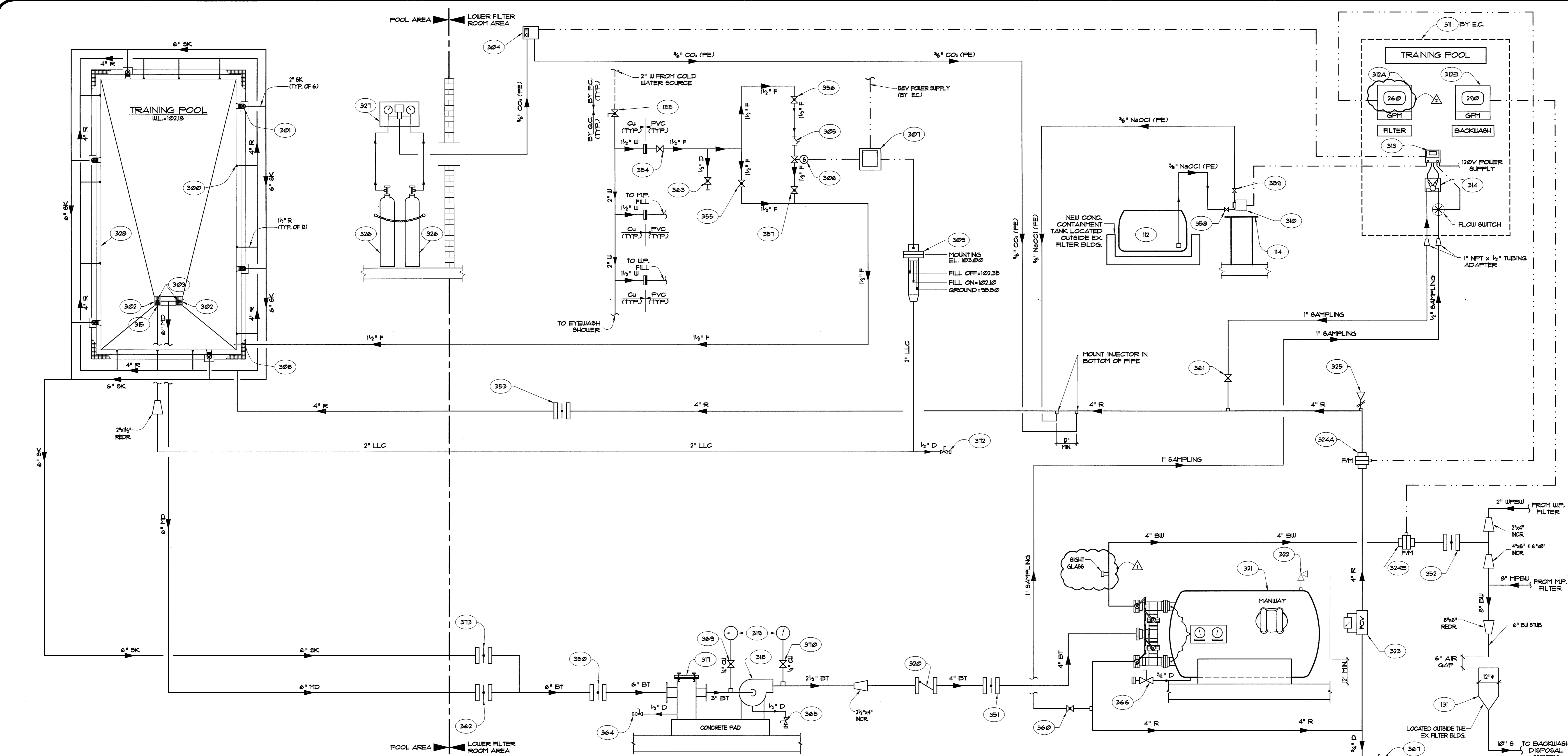
drawn by: D.F.
checked by: V.G.D.
date: 12/20/02
scale: AS NOTED

drawing number:

SP-3 of 14

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ref. no.: 200124.00



LIST OF EQUIPMENT

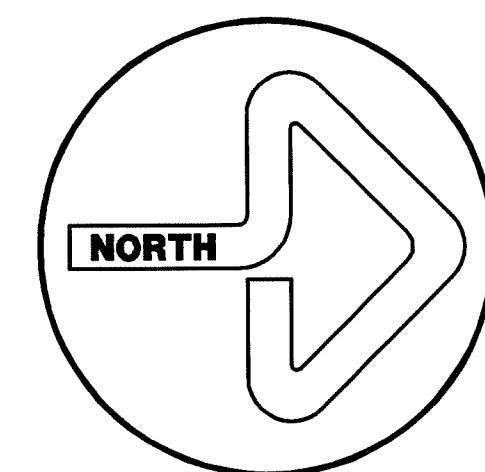
Table with columns: ITEM No., QTY., DESCRIPTION, MANUFACTURER, MODEL No., NOTES. Lists various equipment items like NaOCl tanks, pumps, valves, gauges, and strainers.

LEGEND table showing symbols for PVC butterfly valve, check valve, gate valve, ball valve, solenoid valve, and butterfly valve with stem extension.

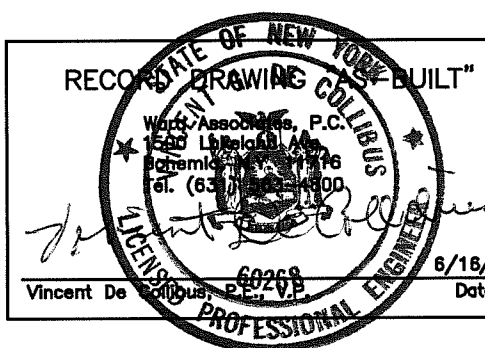
VALVE OPERATION CHART

Valve operation chart table with columns: VALVE No., DESCRIPTION, SIZE, FUNCTION, FILTERING, BACKWASH, WINTER. Lists operations for various valves like pool pump suction, backwash, and chemical supply.

DESIGN DATA (Pool size, surface area, etc.), COLOR CODING (Acid, alkali, chlorine, etc.), ABBREVIATIONS (BLDG., BT, BU, CO, etc.), and various technical notes and specifications.



seal:



AS BUILT	6/16/04
REVISED PER WCHD	1/24/03
REVISED PER WCHD	5/02/03

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Architects, Engineers

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ACCEPTED
AS FINAL PLANS

JUN 25 2004
WEST. CO. DEPT. OF HEALTH

WESTCHESTER COUNTY
HEALTH DEPARTMENT

project title:

**MODERNIZATION OF
SWIMMING POOLS**

**JULIUS M. CHEMKA
POOL FACILITY**

VILLAGE OF HASTINGS-ON-HUDSON
TOWN OF GREENBURGH, NEW YORK

drawing title:

**ELECTRICAL
SITE PLAN**

**POWER AND
LIGHTING**

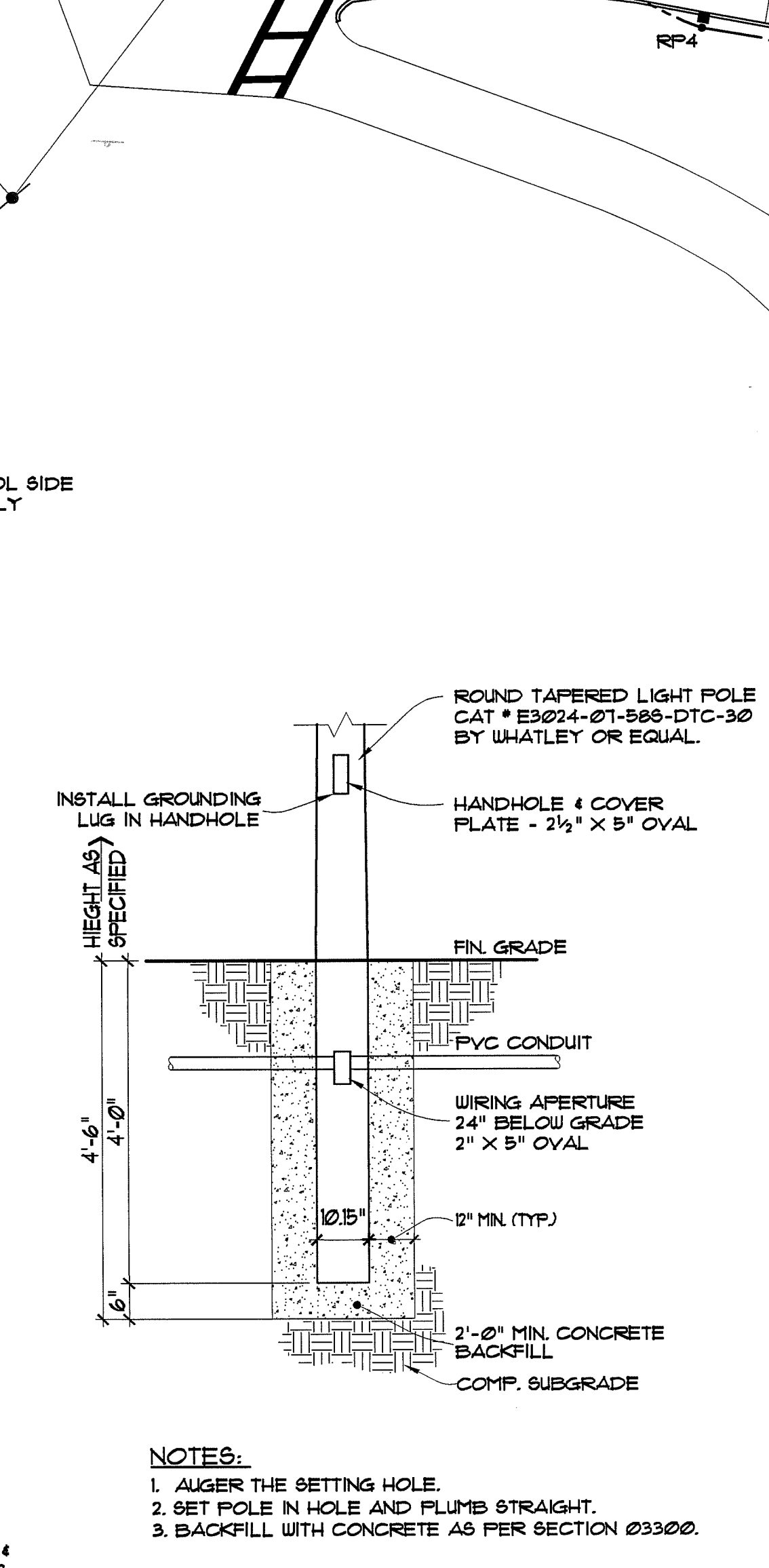
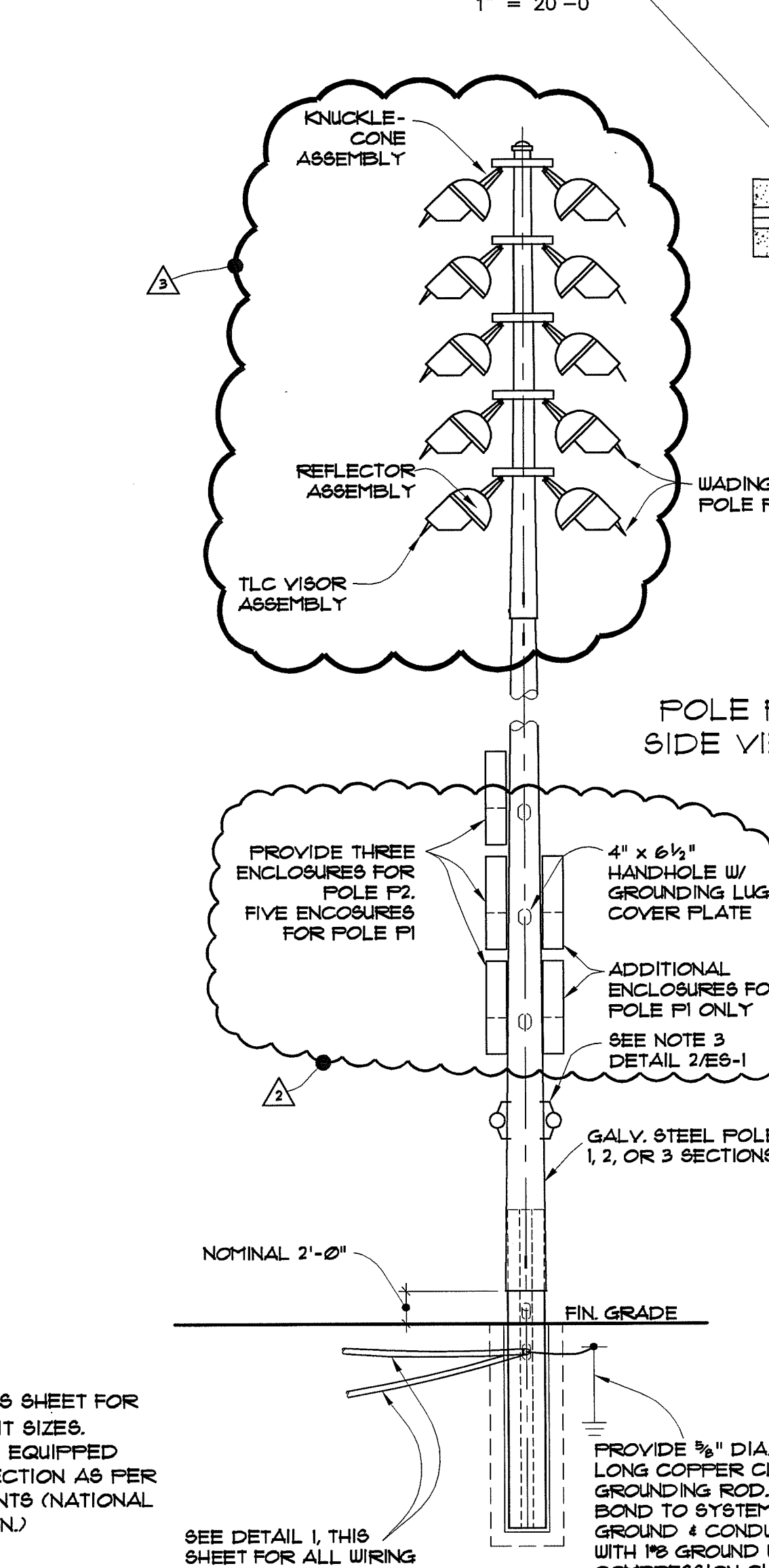
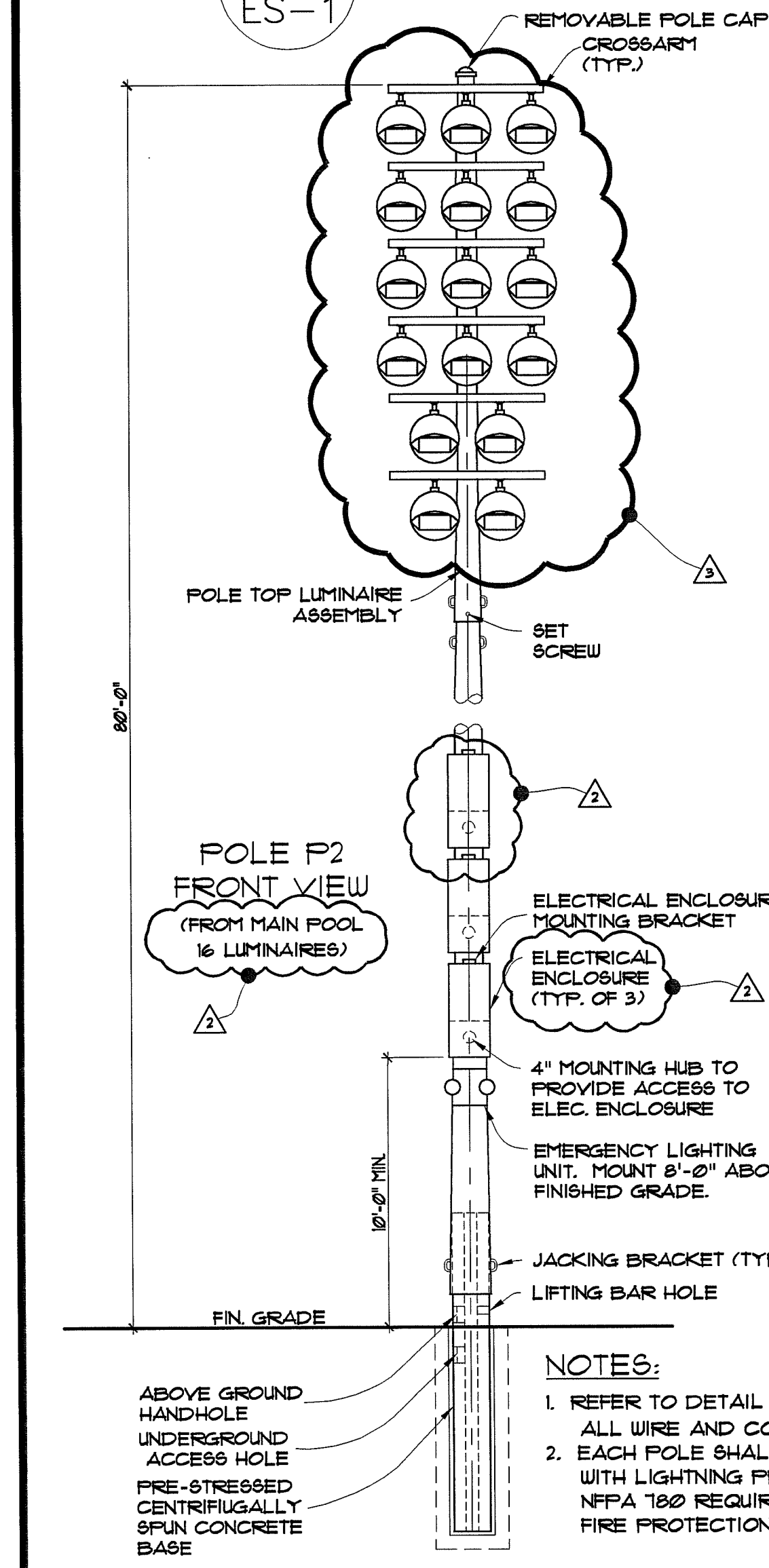
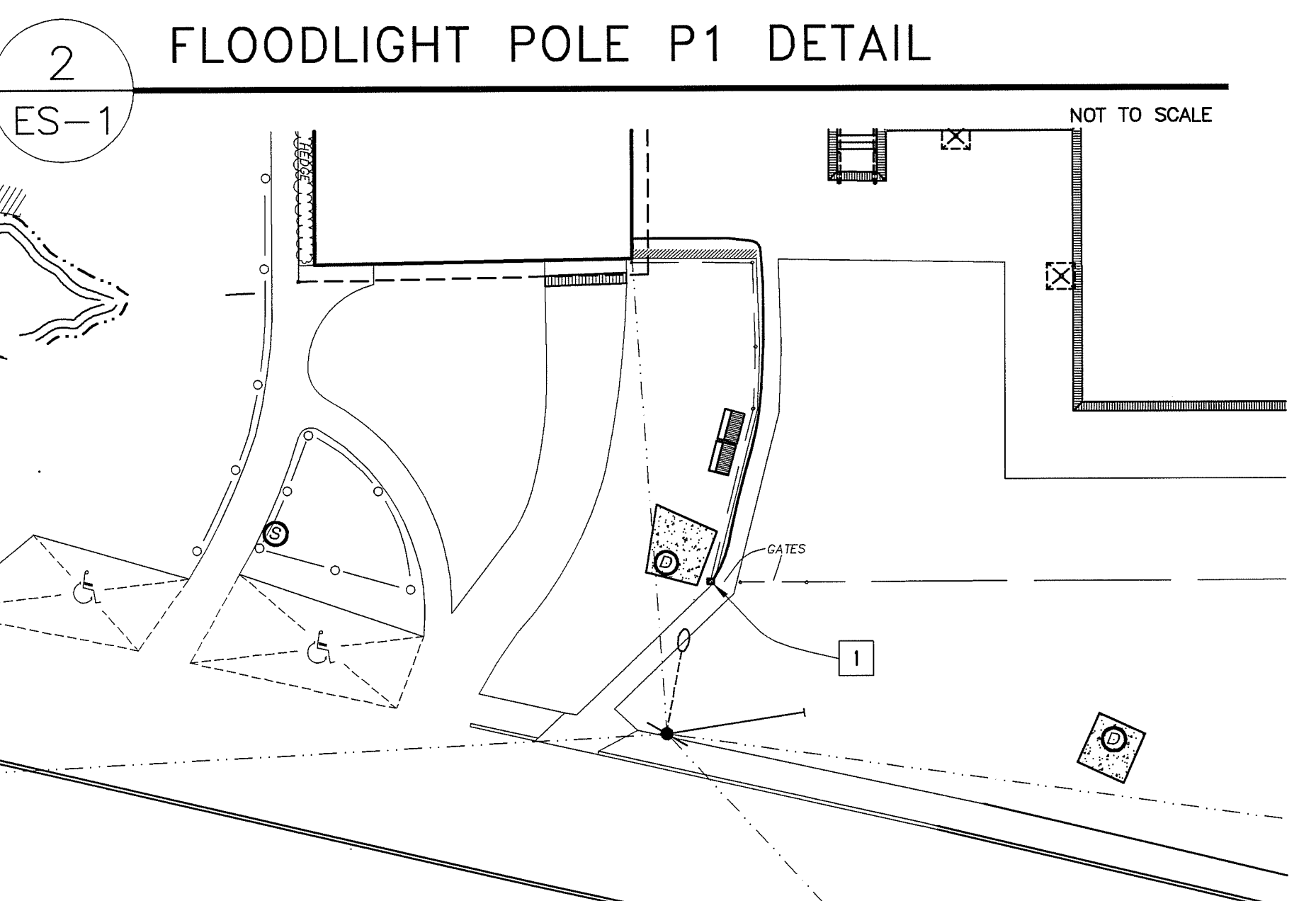
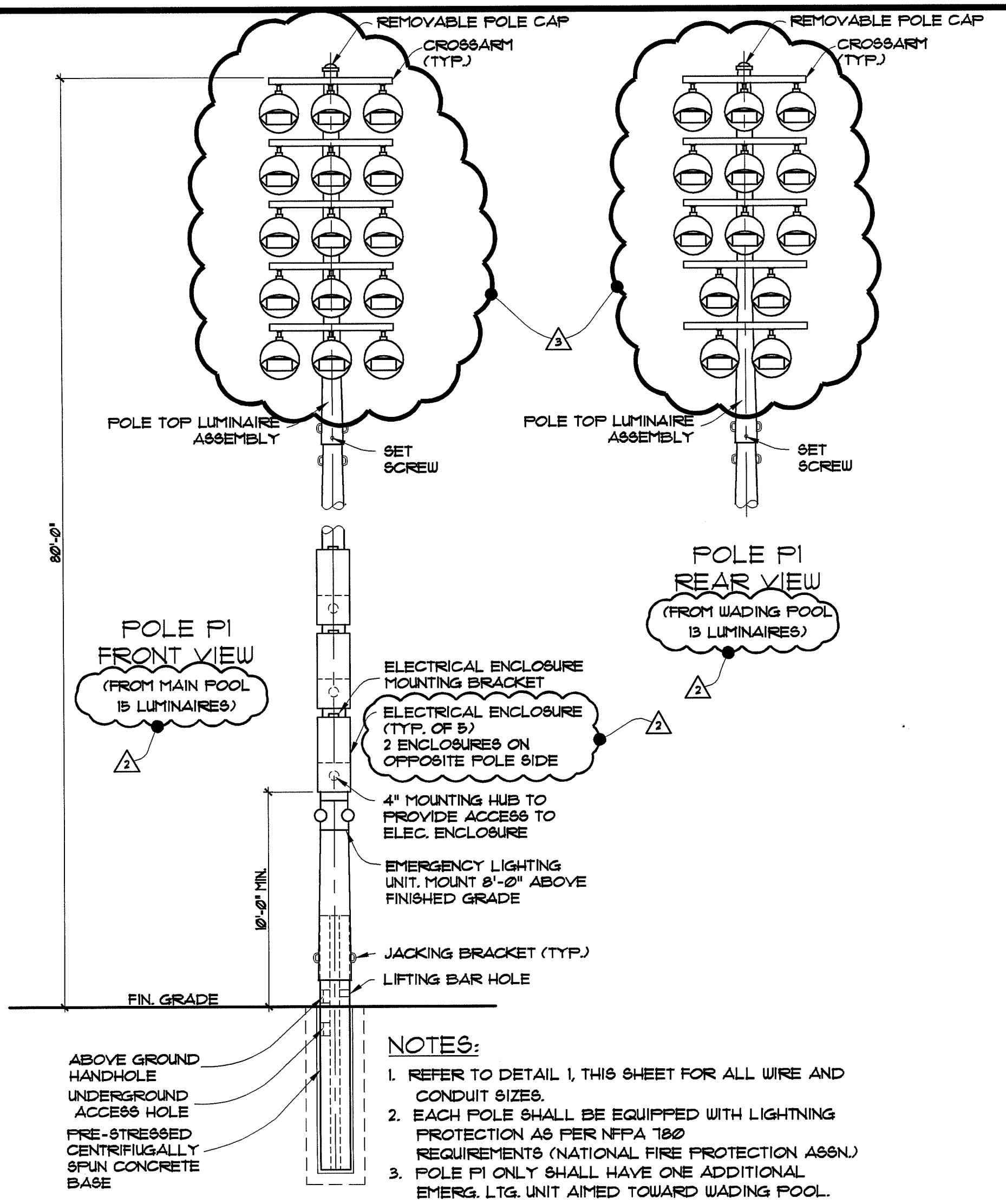
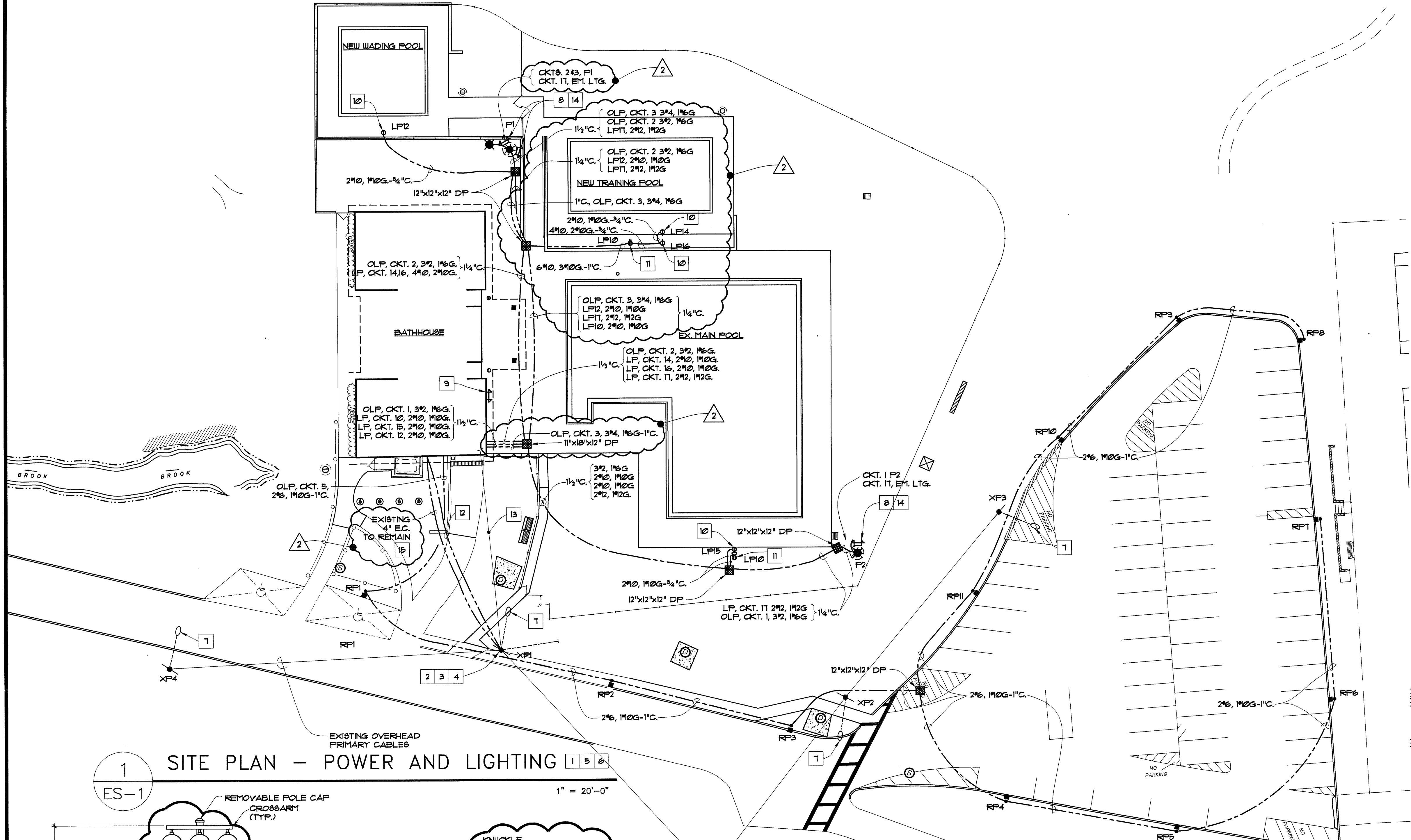
drawn by:
D.F.
date:
12/20/02
drawing number:

checked by:
S.K.
scale:
AS NOTED

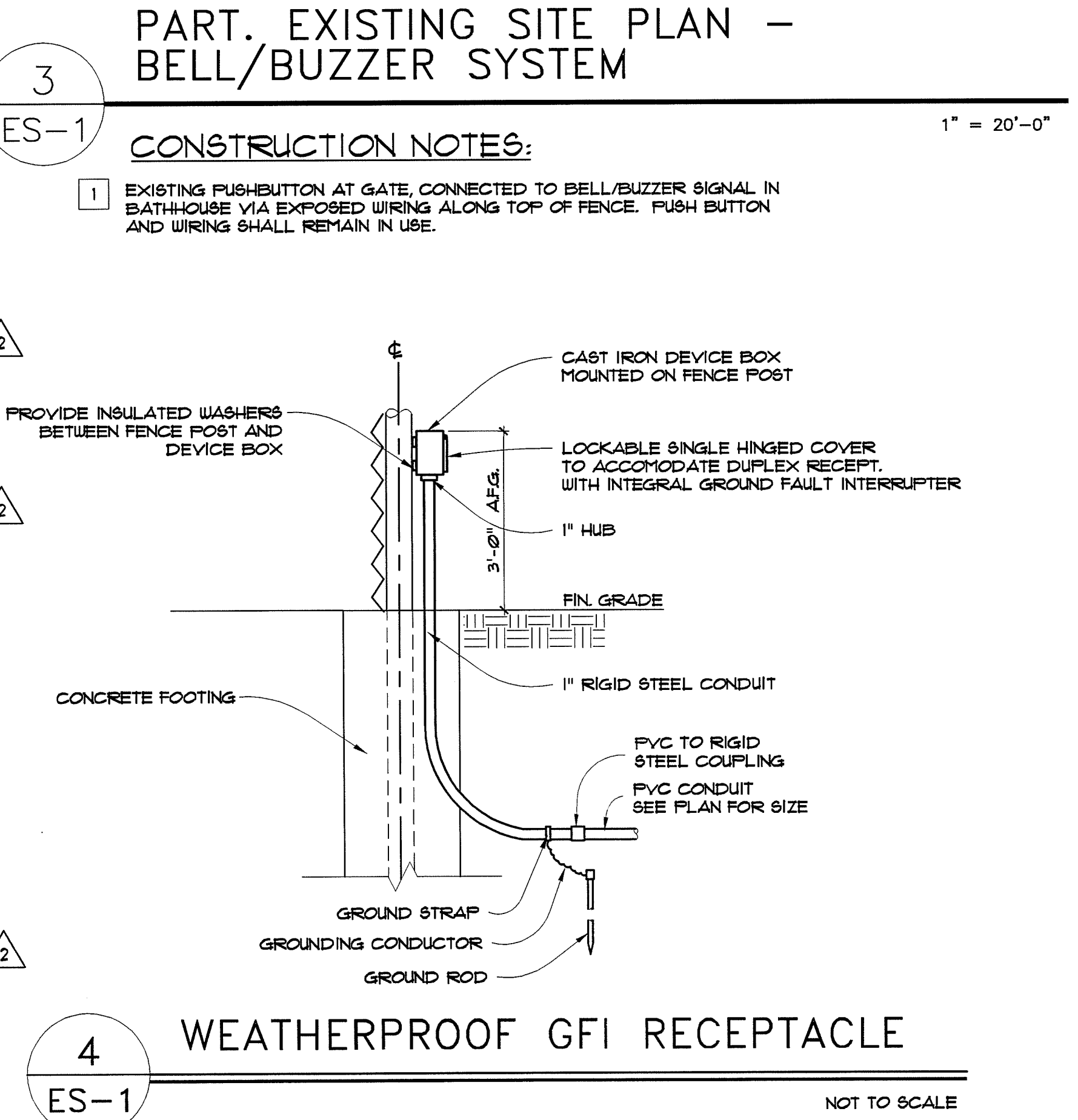
ES-1 of 2

STATE LAW PROHIBITS ANY PERSON FROM ALTERING
ANYTHING ON THIS DRAWING AND/OR THE
ACCOMPANYING SPECIFICATION, UNLESS IT
IS UNDER THE DIRECTION OF A LICENSED
PROFESSIONAL ENGINEER. WHERE SUCH ALTERATIONS
ARE MADE, THE LICENSED PROFESSIONAL
MUST SIGN, SEAL, DATE AND DESCRIBE THE
FULL EXTENT OF THE ALTERATION ON THE
DRAWING AND/OR IN THE SPECIFICATION.

ref. no.: 200124.00



- CONSTRUCTION NOTES:**
- ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE ALL SITE SERVICE WORK WITH THE UTILITY COMPANY BEFORE MAKING ANY DISCONNECTIONS.
 - E.C. SHALL DISCONNECT ALL WIRING FROM THE EXISTING TRANSFORMER, INCLUDING PRIMARY, SECONDARY, GROUNDING CABLES AND ANY OTHER WIRING CONNECTED TO ADJACENT UTILITY POLES.
 - DISMOUNT EXISTING TRANSFORMER AND TURN OVER TO THE UTILITY COMPANY AT THE PROPERTY LINE.
 - E.C. SHALL ACCEPT NEW SERVICE TRANSFORMER AT PROPERTY LINE, FURNISHED BY THE UTILITY COMPANY. E.C. SHALL MOUNT AND RECONNECT ALL WIRING, PREVIOUSLY DISCONNECTED TO THE NEW TRANSFORMER. ANY NEW WIRING, CONDUIT RISERS AND/OR HARDWARE REQUIRED TO MAKE RECONNECTIONS SHALL BE AS SPECIFIED AND APPROVED BY THE UTILITY COMPANY. THE POLE AND POLE SUPPORTS SHALL BE TESTED FOR ADEQUATE SUPPORT STRENGTH FOR THE NEW TRANSFORMER. THE POLE MOUNTED TRANSFORMER SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY CO. SPECIFICATIONS E2-166-42.
 - ALL SERVICE MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH UTILITY COMPANY SERVICE LAYOUT # 007-24356-1UCY.
 - ELECTRICAL CONTRACTOR SHALL OBTAIN AN UNDERWRITER'S CERTIFICATE FOR ALL WORK COMPLETED ON THE LOAD SIDE OF THE POLE MOUNTED TRANSFORMER.
 - REMOVE EXISTING POLES XP2 AND XP3 AND ASSOCIATED LUMINAIRES. REMOVE EXISTING LUMINAIRE AT POLE XP1 AND REMOVE OVERHEAD WIRING BETWEEN XP1, XP2 AND XP3. POLE XP4 AND ASSOCIATED LUMINAIRE SHALL REMAIN IN USE.
 - EMERGENCY LIGHTING UNIT, LITHONIA LIGHTING * INDIR102BH2025DCUI2. MOUNT ON FLOODLIGHT POLE. SEE DETAILS 1 & 2 THIS SHEET.
 - EMERGENCY LIGHTING UNIT, LITHONIA LIGHTING * INDIR102BH2025DCUI2. MOUNT ON BATHHOUSE EXTERIOR.
 - HUBBELL * 5361. MOUNT IN CAST ALUMINUM FS BOX, VERTICAL ORIENTATION, WITH A WEATHERPROOF PLATE, THERMOPLASTIC, UET LOCATION LISTED WITH COVER OPEN. HUBBELL * 14012BUO. MOUNT 3'-0" ABOVE GRADE ON FENCE. MOUNTING ARRANGEMENT SHALL BE SIMILAR TO GFI RECEPTACLE, MOUNTING DETAIL 4 ON DWG. ES-1.
 - HUBBELL * GF362. MOUNT IN CAST ALUMINUM FS BOX, VERTICAL ORIENTATION, WITH A WEATHERPROOF PLATE, DIE-CAST ALUMINUM, UET LOCATION LISTED WITH COVER OPEN. HUBBELL * 14012BUO. SEE DETAIL 4 ON DWG. ES-1.
 - EXISTING SECONDARY CABLES FROM POLE TO FILTER ROOM SHALL REMAIN IN USE.
 - EXISTING TELEPHONE SERVICE CABLES FROM POLE TO BATHHOUSE SHALL REMAIN IN USE.
 - SEE DETAIL 2/E-2 FOR A SITE LIGHTING ILLUMINATION GRID. ALL POOL WATER AND DECK SURFACES SHALL BE PROVIDED WITH A MINIMUM ILLUMINATION OF 50 FOOT CANDLES, TO PERMIT NIGHT SWIMMING AT THE FACILITY.
 - PROVIDE NEW 4-500 Kcmil CU # 12/0G IN EXISTING EMPTY 4" C. FROM UTILITY POLE TO NEW MAIN SERVICE DISTRIBUTION PANEL.



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