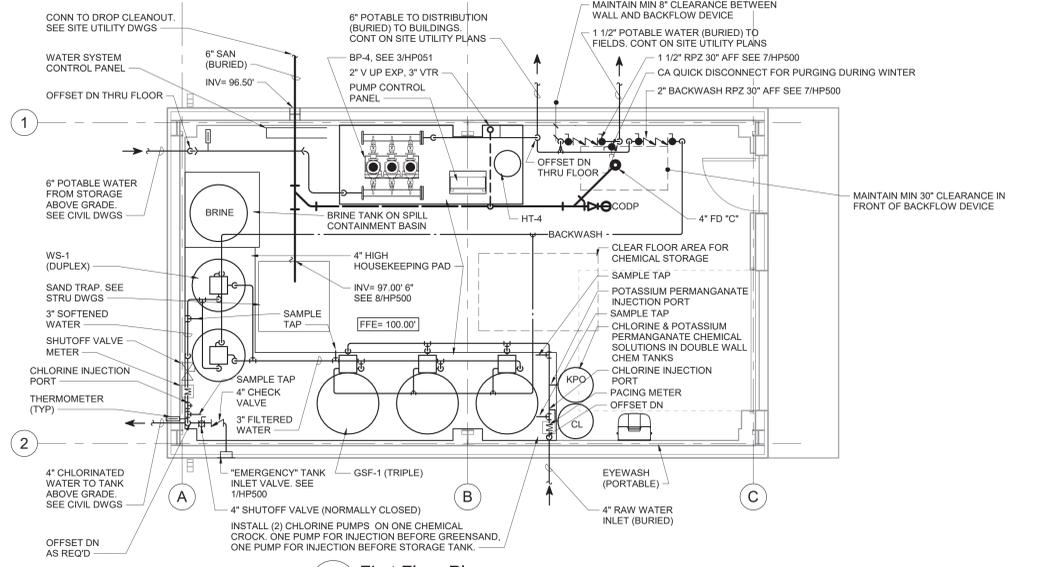
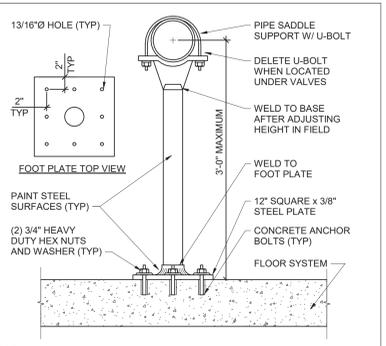


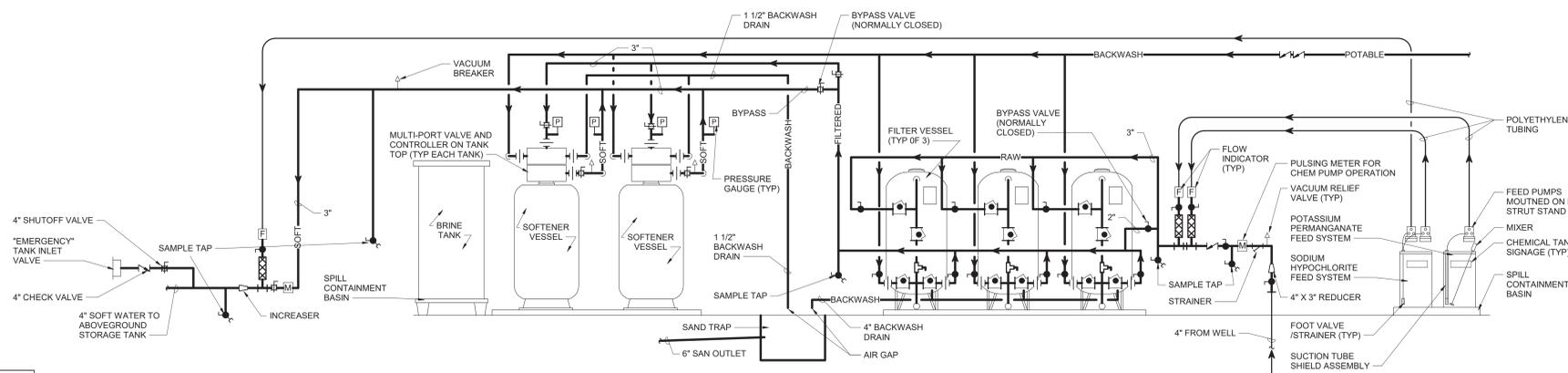
4 Water Treatment Hydraulic Schematic
NTS



1 First Floor Plan
1/4" = 1'-0"
NOTE: FOR CONTINUATION OF PIPING, REFER TO CIVIL DRAWINGS

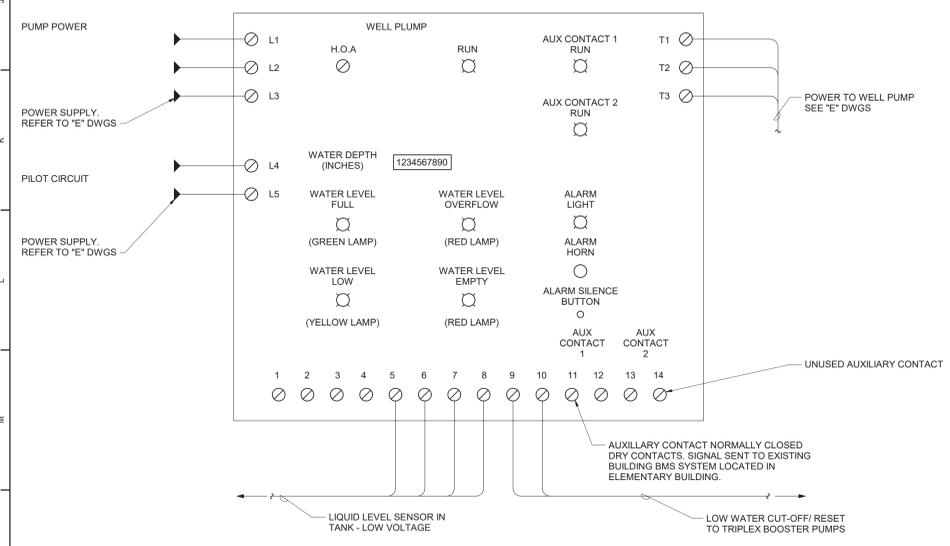


5 Pipe Stand Detail
NTS

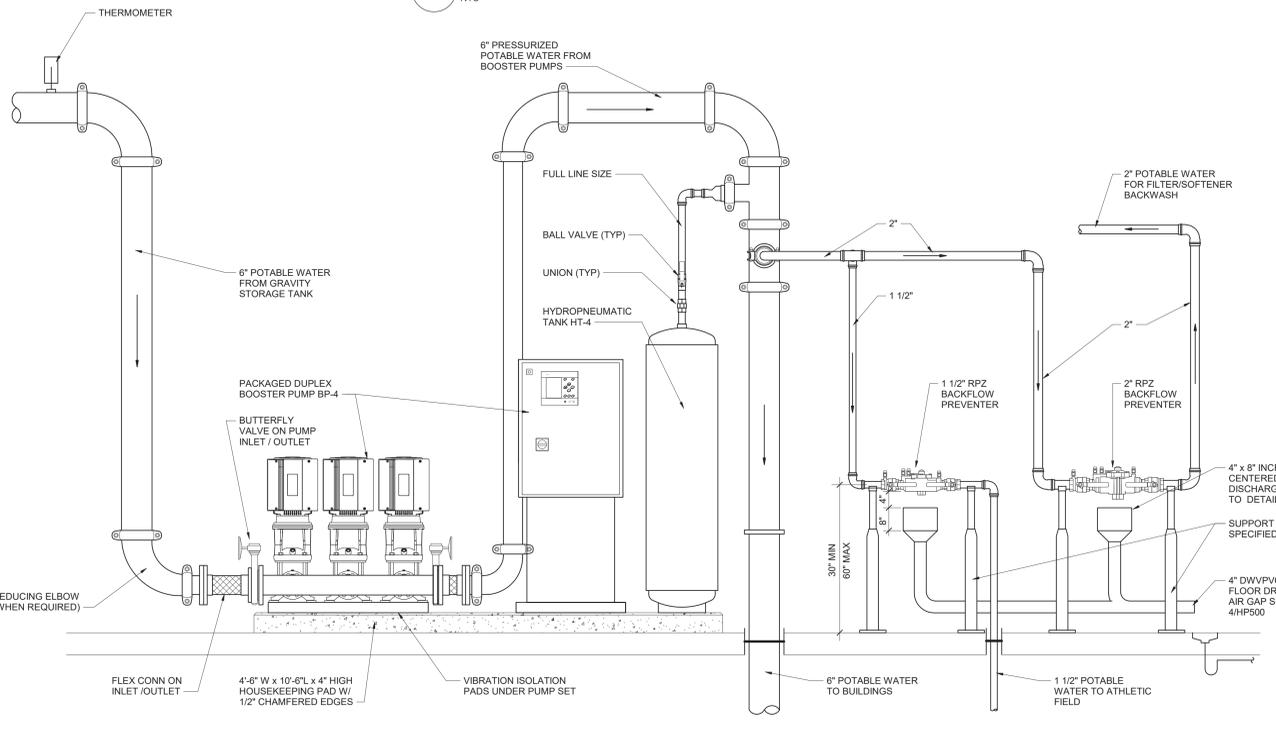


2 Domestic Water Treatment System Schematic
NTS

Piping Color Coding Schedule	
PIPING	COLOR CODE
RAW WATER	OLIVE GREEN
FINISHED OR POTABLE WATER	DARK BLUE
CHLORINE (SOLUTION)	YELLOW
POTASSIUM PERMANGANATE	VIOLET
BACKWASH WASTE	LIGHT BROWN
SEWER (SEWER OR OTHER)	DARK GRAY
OTHER LINES	LIGHT GRAY

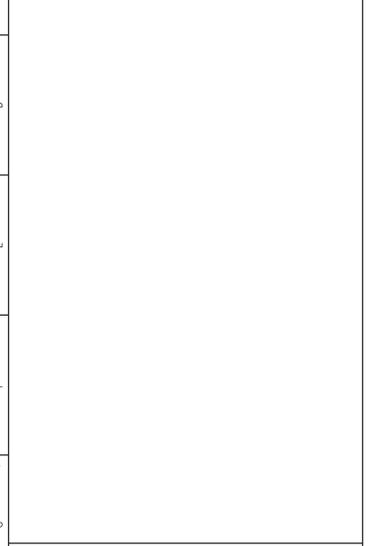


6 Domestic Water System Control Panel Schematic
12" = 1'-0"



3 Duplex Booster Pump System Schematic
NTS

- General Notes**
- VERIFY ALL PIPING LOCATIONS, SIZES, AND ARRANGEMENTS IN FIELD PRIOR TO BID. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES.
 - VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.
 - LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.
 - INCLUDE TRENCHING, CUTTING AND PATCHING OF FLOORS, WALLS AND CEILINGS, INCLUDING CEILING TILE REMOVAL AND REPLACEMENT, WHEN REQUIRED FOR PLUMBING WORK. PATCH ABANDONED OPENINGS AND DISTURBED FINISHES TO MATCH EXISTING. TAKE PRECAUTIONS TO PROTECT STRUCTURAL INTEGRITY OF FLOOR OR WALLS WHEN TRENCHING OR CUTTING.
 - MATERIALS FOR PLUMBING INSTALLATION SHALL BE NEW, UNLESS SPECIFICALLY NOTED OTHERWISE.
 - FINISHED FLOOR ELEVATION OF 634.60' ON SITE PLAN CORRESPONDS TO FINISHED FLOOR ELEVATION OF 100.00' ON FLOOR PLANS.
 - PROVIDE THROUGH PENETRATION FIRESTOPPING FOR FIRE RATED WALLS AND FLOORS. PENETRATIONS THROUGH EXISTING WALLS AND FLOORS ARE CONSIDERED TWO-HOUR PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO 'A' SERIES OR CODE COMPLIANCE DRAWINGS FOR LOCATION OF FIRE RATED WALLS AND FLOORS.



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.: Date: Description:

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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

First Floor Plan, Details and Schedules

Drawn By: DCG/sef Date: 08/21/20 Drawing Number:
Project No.: 12111-19002 **HP051**

Domestic Water Booster Pump Schedule													
DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	TOTAL CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	INLET / OUTLET SIZE	RPM	HORSE POWER	FULL LOAD AMPS	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS							
BP-4	PUMP HOUSE	GRUNDFOS HYDRO MPC E 3CRE20-03	250	130.0	104	4	3450	7.5	61.1	208	3	60	1, 2

NOTES:
 1. PACKAGED TRIPLEX BOOSTER PUMP SYSTEM WITH VARIABLE FREQUENCY DRIVES AND DUPLEX CONTROL PANEL MOUNTED ON A SKID.
 2. EACH PUMP SIZED FOR 50% OF TOTAL SYSTEM CAPACITY.

Hydropneumatic Tank Schedule										
DRAWING LABEL	LOCATION	MAKE AND MODEL NUMBER	TOTAL STORAGE CAPACITY (GALLONS)	MAXIMUM ACCEPTANCE VOLUME - GALLONS	WATER SERVICE PRESSURE (PSI)	MAXIMUM ALLOWABLE PRESSURE (PSI)	DIAMETER (INCHES)	HEIGHT (INCHES)	CONNECTION (NPT)	NOTES
HT-4	PUMP HOUSE	JOHN WOOD NO. JAPR 20-605	35	39.7	60	150	14	55 1/2	1	1, 2

NOTES:
 1. REPLACEABLE BUTYL BLADDER (FDA APPROVED).
 2. ASME CONSTRUCTION.

Water Softener Schedule														
EQUIPMENT NO.	MODEL NO.	TYPE (DUPLIX)	INCOMING WATER HARDNESS (GRAINS)	INCOMING TDS (PPM)	CONTINUOUS FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	RESIN QUANTITY (CUFT)	BACKWASH FLOW RATE (GPM)	CAPACITY/ SALT DOSAGE			SOFTENER TANK SIZE (DIA x H)	BRINE TANK SIZE (DIA x H)	LOCATION
									SALT DOSAGE (LBS/CUFT)	MIN BED (KG/LB)	MAX BED (KG/LB)			
WS-1	LWTF600-2	ION EXCHANGE	--	--	80	102	20	30	6 MIN/ 15 MAX	400,000	600,000	36 x 72	39 x 48	PUMP HOUSE

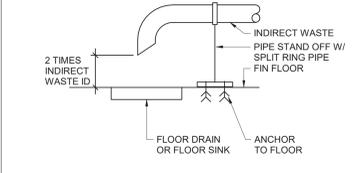
NOTES:
 1. DESIGN BASIS : LAKESIDE WATER TREATMENT INC.
 2. ELECTRICAL REQUIREMENTS : 24V, 110V, 60HZ
 3. OPERATING WATER TEMPERATURE RANGE 34-110 F

Greensand Filter Schedule																
EQUIPMENT NO.	MODEL NO.	TYPE (TRIPLEX)	INCOMING WATER IRON (PPM)	INCOMING WATER MANGANESE (PPM)	CONTINUOUS FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	MINERAL QUANTITY (CUFT/ TANK)	BACKWASH FLOW RATE (GPM)	FILTER TANK SIZE (DIA x H)	CHLORINE TANK SIZE (DIA x H)	EST. CHLORINE SOLUTION INJ. (GPD)	CHLORINE FEED PUMP (GPD MAX)	POTASSIUM PERMANGANATE TANK SIZE (DIA x H)	EST. POTASSIUM PERMANGANATE SOLUTION INJ. (GPD)	POTASSIUM PERMANGANATE FEED PUMP (GPD MAX)	LOCATION

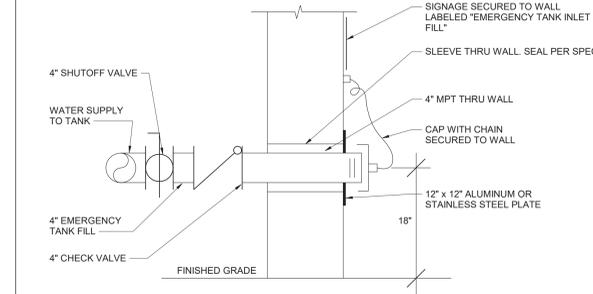
NOTES:
 1. DESIGN BASIS : LAKESIDE WATER TREATMENT INC.
 2. ELECTRICAL REQUIREMENTS : 24V, 110V, 60 HZ
 3. OPERATING WATER TEMPERATURE RANGE 35-100 F

Domestic Well Pump Schedule													
DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	INLET / OUTLET SIZE	RPM	HORSE POWER	FULL LOAD AMPS	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS							
WP-1	EXG HS WELL	GRUNDFOS SP 62S-22	50	500.0	104	2"	3472	10	15	460	3	60	1

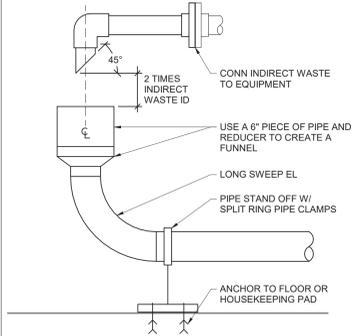
NOTES:
 1. INSTALL PUMP ON 2" DROP PIPE AND ROUTE WIRING FROM WELL HEAD DOWN CASING TO PUMP. CONNECT WIRING AND DISCHARGE PIPE TO EXISTING SERVICES.



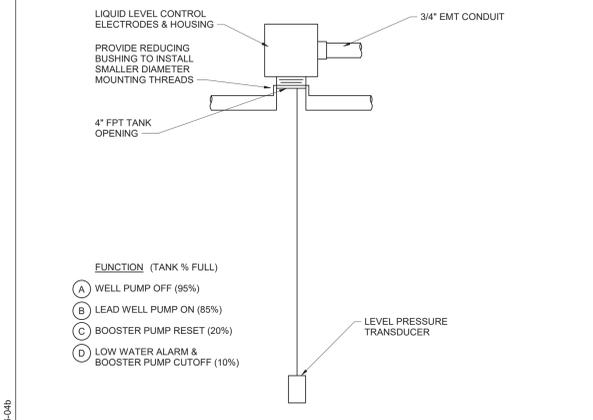
4 Indirect Waste Air Gap Detail
NTS



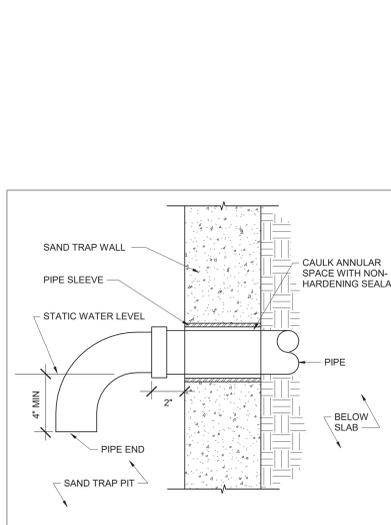
1 Tank Emergency Fill Detail
NTS



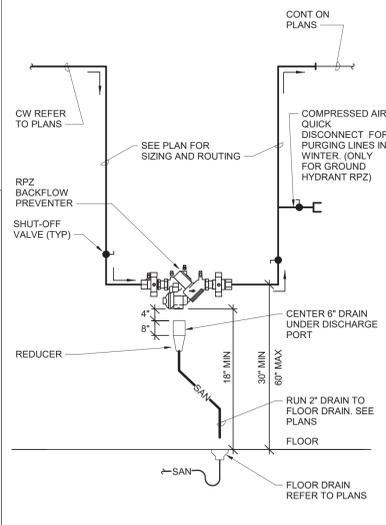
5 Indirect Waste Air Gap Detail
NTS



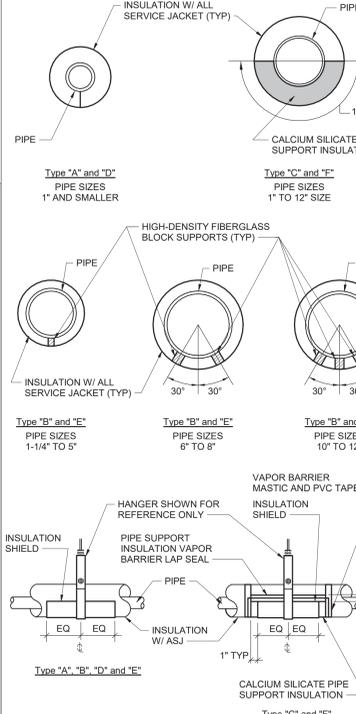
2 Liquid Level Sensor Detail
NTS



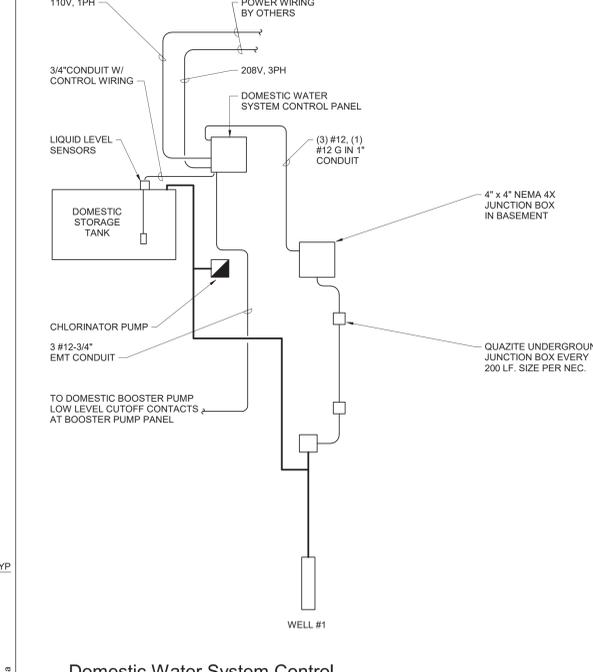
8 Sand Trap Pipe Sleeve Detail
NTS



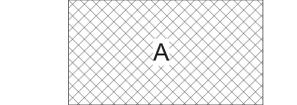
7 RPZ Backflow Preventer Detail
NTS



6 Insulated Piping Support Assemblies
NTS



3 Domestic Water System Control Schematic
NTS



Key Plan
NTS

S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.	Date	Description

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TETRA TECH ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

Details and Schedules

Drawn By: DCG/ sef	Date: 08/21/20	Drawing Number:
Project No.:	121111-19002	HP500