

Bullitt County Public Schools

1040 Highway 44 East Shepherdsville, Kentucky 40165

502-869-8000 Fax 502-543-3608 www.bullittschools.org

Memo

To:

Jesse Bacon, Superintendent

From:

Bret Highley

Date:

April 26, 2019

Re:

Change Order #30

Maryville Elementary Addition/Renovation

Attached for the Board's review and approval is Change Order #30 for Maryville Elementary School addition/renovation project. This Change Order request is to add a water softener to the domestic water system. The original school did not have a softening system and due to budgetary concerns during the design phase a water softener was not included in the construction package.

After school started and the systems have been in use, hard water issues have been discovered and are causing serious problems with the hot water heaters, ice machines, and faucets. The BCPS plumbers spend a significant amount of time working on plumbing issues being created by the lack of having a water softener, and it is causing damage to the above mentioned equipment.

The cost of this Change Order to add the water softener is \$30,116.39. Parco's current contract amount is \$6,975,217.39, and adding the cost of this Change Order will bring their amount to \$7,005,333.91.

If you have any questions, please feel free to contact me at 502-921-3659.

Attachments:

- Design Documents
- KDE Change Order

Verilar



$ightharpoonset AIA^{\circ}$ Document G701 $^{\circ}$ – 2017

Change Order

PROJECT: (Name and address)

Maryville Elem School Addition / Renov.

4504 Highway 44 East

Shepherdsville, Kentucky 40229

OWNER: (Name and address) Bullitt County Board of Education

Shepherdsville, KY

1044 Highway 44 East

CONTRACT INFORMATION:

Contract For: General Construction

Date: August 17, 2015

CHANGE ORDER INFORMATION:

Change Order Number: 030

Date:

ARCHITECT: (Name and address)

Sherman Carter Barnhart Architects PLLC

2405 Harrodsburg Road Lexington, KY 40504

CONTRACTOR: (Name and address)

Parco Construction Company 2521 Ridgemar Court

Louisville, KY 40269-0339

THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

Water softener for the domestic water system, refer to attached backup and pricing information for details.

The original Contract Sum was

The net change by previously authorized Change Orders

The Contract Sum prior to this Change Order was

The Contract Sum will be increased by this Change Order in the amount of

The new Contract Sum including this Change Order will be

The Contract Time will be increased by Zero (0) days.

The new date of Substantial Completion will be

6,610,528.00

364,689.52

6,975,217.52

30,116,39

7,005,333.91

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

Sherman Carter Barnhart Architects PLLC ARCHITECT Firm James	Parco Construction Company CONTRACTOR (Firm name)	Bullitt County Board of Education OWNER (Firm name)
SIGNATURE	SIGNATURE	SIGNATURE
Mitch Hunter, Constr. Admin. PRINTED NAME AND TITLE	PRINTED NAME AND TITLE	PRINTED NAME AND TITLE
April 25, 2019 DATE	DATE	DATE

FACPAC Contract Change Order Supplemental Information Form (Ref# 51198)

Form Status: Saved

Project: Maryville Elementary School - Addition/Renovations

BG Number: 15-106 (Imported Project) District: Bullitt County (071)

Status: Active Phase: No Data

Contract: PARCO CONST. GROUP, LLC, 00 Type: General Contractor Proposed

Change Order Number 30 Time Extension Required

No Date Of Change Order 4/25/2019 Change Order Amount To Date Increase

Construction Contingency

Calculations below are project wide. Remaining negative Construction Contingency may require the submission of a revised BG1.

Current Approved Amount \$491,857.85

Net Approved COs \$250,114.32

Remaining After Approved COs \$241,743.53

Net All COs \$361,385.21

Remaining After All COs \$130,472.64

This Requested Change Order Amount \$30,116.39

Change In A/E Fee This Change Order \$1,882.27

+/-

Change In CM Fee This Change Order \$0.00

Remaining Construction Contingency \$125,175.88

Balance

Contract Change Requested By Local Board of Education Contract Change Reason Code Expansion of Scope

Change Order Description And Justification

Water softener for the domestic water system, refer to attached backup and pricing information for details.

Cost Benefit To Owner

Price is fair and reasonable.

Contract unit prices have been utilized No to support the cost associated with this

change order.

Detailed Cost Breakdown

Contract unit prices have not been utilized, provide a detailed cost breakdown which separates labor, material, profit and overhead.

Detail Item	Amount	Percent of Total
Labor	\$1,284.90	4.27 %
Materials	\$27,275.00	90.57 %
Profit and Overhead	\$1,556.49	5.17 %
Bond Insurance	. ,	0.00 %
Cost Breakdown Total:	\$30,116.39	
Cost for this Change Order supported No	,	
by an alternate bid or competitive price		
quote		
Explain Why		

Change Order Supplimental Information Form Signature Page (Online Form Ref# 51198)

Myunter

April 24, 2019

Date

Construction Manager

Date

Lisa Lewis

4-26-19

Date

Finance Officer

5,

Local Board of Education Designee

Date

Parco Constructors Group, LLC

General Contractor

2521 Ridgemar Court P.O. Box 99339 Louisville, Kentucky 40299 (502) 266-7877 Fax (502) 266-9114

Mr. Mitch Hunter

Sherman-Carter-Barnhart, PSC

2405 Harrodsburg Road Lexington, KY 40504

Phone: (859) 224-1351

e-mail: mhunter@scbarchitects.com

April 24, 2019

Re: Maryville Elementary School

BG #15-106 SCB PR # 15

Water Softener for Domestic

Water System

Parco RFP # 1535-40

Dear Mitch:

Pursuant to your request for pricing to Furnish & Install (1) Watts Duplex Water Softener per the submittal Q-713 dated 4/5/2019. The cost for the referenced work is in the amount of \$30,116.39. Please see the attached backup & pricing breakdown below.

Breakdown:

Contractor		
Parco Constructors-	Labor	\$1,083.00
	Materials	101.90
	Equipment	100.00
Total Direct Cost		\$1,284.90
Walker Mechanical-	Labor	\$7,590.00
	Materials	6,341.00
	Equipment	10,681.00
	Start-Up & Training	1,835.00
	Insulation	828.00
Total Direct Cost		\$27,275.00
Parco- Concrete Pad		\$ 1,284.90
Walker- Water Softener	System	27,275.00
Parco 15% Markup on S		192.74
Parco 5 % Markup on S	ubcontracted Work	1,363.75
Total Change Amount		\$30,116.39

I hope the above proposal meets with your approval. If you have any questions or need any additional information please give me a call.

Respectfully,

Tony Snellen

President/Project Manager

Joney Smiller

PARCO CONSTRUCTORS GROUP, LLC

1901	EXTRA WORK ESTIMATE						E.W. #						
OWNER:	Bullitt County Public Schools DATE:								<u> </u>	1535-01			
BLDG. NO.	Maryville Elementary Sc	hoo							P.O. NO.	<u></u>	Project No.	P.C	# 15 100
DESCRIPT	ION OF WORK:	1100	<u> </u>	-					<u> </u>		Project No.	DG	# 13-106
Construct	New Concrete Housekee	nina	Pad fo	- +1	na Dronna	ad Water C	64 -	C	A	*****			
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Subcontra	ctors											<u> </u>	······································
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MATERIALS		<u> </u>				<u> </u>				<u> </u>	***********	4	_
QUANTITY	DESCRIPTION		RATE		TOTAL	QUAN.		DESCR	RIPTION	Γ	RATE		TOTAL
16	4" Edge Form	S	0.55	\$	8.80					\$		\$	
20	3/4" Chamfer	\$	0.17	\$			<u> </u>			\$		\$	-
8 18	# 4 Rebar Dowels x 5" Bags 80-lb Concrete Mix	\$	0.45 4.50	\$ \$		0	<u> </u>			\$	-	\$	
30	6 x 6 - w1.4/w1.4 WWF	5	0.17	\$		0	-			\$		\$	
		\$		\$		0	<u> </u>			\$	· ·	s	•
EQUIPMENT		······											
HRS. USED	TYPE OF EQUIPMENT		RATE	L	TOTAL	HRS. USED		TYPE OF E	QUIPMENT		RATE		TOTAL
2 2	Pickup Truck Small Portable Concrete Mixer	\$	10.00	\$			<u> </u>			\$	-	\$	
2	Wheel Barrell	5	25.00 15.00	\$			-			\$	· · ·	\$	•
		s	-	s			-	*****		\$	-	\$	
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CONTRACTO	ORS APPROVAL					OWNER REP	RES	ENTATIV	E				
Tony Snell	en												
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1						SUBC		RACTED		\$	-		
<u>c</u>													
E								BTOTAL		\$	1,284.90		
						OVERH	IEAD	/PROFIT		\$	192.74		
							тоти	AL COST		\$	1,477.64		
					OV	VNERS CO	PY						



WALKER Mechanical Contractors, Inc.

1400 W. Jefferson Street Louisville, KY 40203 502.636.0002 502.636.0004 (Fax)

April 23, 2019

Parco Constructors Group, LLC 2521 Ridgemar Court Louisville, KY 40269

Attn: Mr. Tony Snellen

Re: Maryville Elementary School - Water Softener Quote

Dear Mr. Snellen,

In accordance with your request, we offer the following quote for furnishing and installing (1) Watts Duplex Water Softener per the submittal Q-713 dated 4-5-19. Our quote includes piping the unit per the detail on drawing P1.1 dated 6-15-15 as prepared by CMTA.

\$27,275.00
<u>\$ 828.00</u>
\$ 1,835.00
\$10,681.00
\$ 6,341.00
\$ 7,590.00

Note: We exclude the concrete equipment pad, electrical power wiring, water meter shown on detail, overtime, anything not listed in this quote.

We will need to shutdown the main water supply to the building for a minimum of 8 hours for tieins to the existing domestic water service. The equipment has a 4 week lead time after receipt of a purchase order and approved submittals.

We appreciate your consideration of the above. If you have any questions or require additional information, please contact us at your convenience.

Regards,

Walker Mechanical Contractors, Inc.

Robert A. Smith, CIPE

Project Manager



ATTACHMENTS (List attached documents that support description):

PR 15. 1

equest	
PROPOSAL REQUEST NUMBER: 015	OWNER:
	ARCHITECT: 🖂
DATE OF ISSUANCE: April 15, 2019	CONSULTANT: 🖂
	CONTRACTOR: 🛛
CONTRACT FOR: General Construction	FIELD:
CONTRACT DATE: August 17, 2015	File 1470X, CA Copy: ⊠
ARCHITECT'S PROJECT NUMBER: 1470	
normal in the Country of Country	
hin ten (10) days, the Contractor must submit t	or proposed modifications to the his proposal or notify the Architect.
ubmission is anticipated.	,
RUCTION CHANGE DIRECTIVE OR A DIRECTION FIONS.	TO PROCEED WITH THE WORK
of the Work):	
material to provide and install the owner reque	sted a modified water softner
	PROPOSAL REQUEST NUMBER: 015 DATE OF ISSUANCE: April 15, 2019 CONTRACT FOR: General Construction CONTRACT DATE: August 17, 2015 ARCHITECT'S PROJECT NUMBER: 1470 Inges in the Contract Sum and Contract Time for hin ten (10) days, the Contractor must submit to abmission is anticipated. RUCTION CHANGE DIRECTIVE OR A DIRECTION FIONS. of the Work):

Mitch Hunter, Construction Admin. (Printed name and title)



SUBMITTAL

Date:

4.05.2019

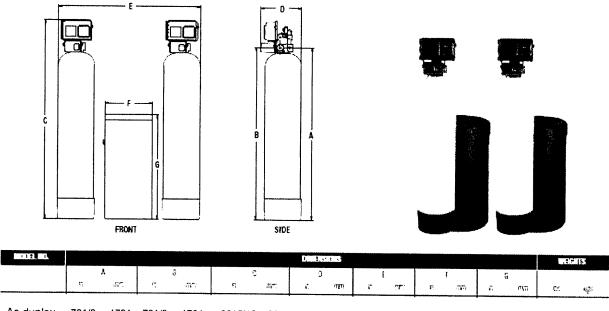
LOCAL MIDDLE SCHOOL- LOUISVILLE-KY JOB NAME

Q-713

PROPOSED EQUIPMENT

WATTS DUPLEX PROGRESSIVE FLOW REGENERATION 7 CU FT

SOFTENER: M4052NT-NH as duplex progressive flow operation system 14



As duplex 701/2 1791 701/2 1791 8015/16 2055 211/8 536 50 1270 1200 545

Specifications

		NUMBERAL TANK SINGS TANK									PER	PLONE BATE & PRESSURE			
MOSE WA	TANK 1975	H ^a	CAMPEL	3 TEE	FILL	CAPACIT		MEGINERAL MAX		SE SP CPM		SAUE CPRE			
Each tank	21" x 62"	7	100 lbs	s. 24")	¢ 50" 600	210 K	140 K	105	42	60/77	15/25	12			

7737 Reinhold Drive, Cincinnati, Ohio 45237 | Office 513.861.1682 | Fax 513.487.5337 | www.disney-mclane.com



FLOW RATE IN DUPLEX PARALLEL SYSTEM 14 - 114 GPM PEAK

SOFTENER CONTINUED:

EX(H, E).	U.S.(#) [100]	SPACE MEGINED DIWIN	25.10 25.1	CCE
Each tank	7 Cubic Foot 2" Simplex Softener with Flow Meter	24" v 52" v 80"	600	272

NOTICE

Capacities are based on reain manufacturar's data and are dependent upon influent water FOS, temperature, bed depth, and flow rates. Fixed water must be trooped and color. Pipe size, tank size, and space requirements are in inches. Capacities and flow rates expressed above are peritarial. Flow rates listed at (15 bei drops are for informittent peak flow rates and are not to be used as continuous flows.

NOTICE

The information contained haren is not intunded to replace the full product insulation and safety information available or the expending of a trained product installar. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

TANKS: 21x62 Pentair/Structural fibers polyglass

Structural Composite Pressure Vessels offer reinforced fiberglass construction for outstanding performance and durability. Available in. Product Features

- For commercial and industrial water treatment and storage
- 100% composite fiberglass construction
- Outstanding performance and durability in harsh chemical environments:
- Absolutely will not and cannot rust
- Requires little or no maintenance
- · Factory-backed five-year warranty



Material of Construction

- Polyethylene inner shell
- Operating Parameters
- Maximum operating pressure: 150 psi
- Maximum operating temperature:
- 120°F (threaded)
- Tanks continued
- 150°F (flanged)
- Pentair Design Parameters
- · Safety factor: 4:1
- · Minimum burst at 600 psi
- Tested to 250,000 cycles without leakage

NSF Design Parameters

Tanks continued

- Safety factor: 4:1
- · Minimum burst at 600 psi
- Tested to 100,000 cycles without leakage



CONTROL VALVES :

FLECK 2900s 2-INCH CONTROL VALVE





FEATURES/BENEFITS

Lead-free brass valve body for superior strength and durability

Continuous service flow rate of 106 GPM with a backwash of 36 GPM

Backwash capability accommodates softener tanks up to 36" and filter up to 24" in diameter

Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment system

Designed for single or multiple tank systems

Environmental protective cover for water resistance, corrosion resistance, and UV stability

Time-tested, hydraulically-balanced piston for service and regeneration

Rugged-built electromechanical timer designed with heavy duty 3/8" wide plastic gears



TESTED and CERTIFIED by the WCA to MSF/ANSI Standard & Section 8 Material Safety Only



TESTED and CERTIFIED by the WCA to NSF/ANSI Standard DT2 for Lead Free Compliance



UL recognized to 979



Restriction of Hazardous Substance Compliant

VALVES CONTINUED:

Demand flow / Progressive Flow system 14 / 3214



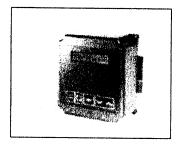
VALVE SPECIFICATIONS

NXT- Network controller uses onboard communication capabilities to link multiple valves (via off-the-shelf CAT3, CAT5, or better cables) for system types 4,5,6,7,9,and 14

Valve Material Inlet/Outlet Cycles

Lead-free brass**

2" NPTF/BSPF



The 3214NXT Demand Flow Network Controller is available to configure with all commercial Fleck 2750, 2850, 2900, 3150, and 3900 Control Valves. This demand flow system can be programmed to bring multiple units to the service position and back to standby based on system demand flow. The 3214NXT Demand Flow Network Controller uses on-board communication capabilities to link multiple valves via standard CAT3, CAT5, or better communication cables.

System Types 2 - 4 Vaives (meter on each vaive) System Type 14 Regenerant Flow Downflow, Upflow Brine Oraw First, Upflow Refill First Regeneration Type Meter Immediate Generic Meter Guidelines Open collector output Board will sink up to 1-mA 優 5 V DC Support for meter outputs in the range of 1-255 gallons (25.5 m²) for every 1-255 pulses. Example, 35 gallons/100 pulses (= 3.5 gallons/10 pulses, = 0.35 gallons/1 pulse). Electrical Rating 24 VAC Pentair® Transformers 115 VAC +/- 20% input, 24 VAC output 230 VAC +-- 20% input, 24 VAC output

Features

- · Network two to four valves
- Simple, on-site network programming
- · Easy installation with plug-in wiring hamesses
- · Shift key allows digit selecting in programming
- 2x16 character LCD backfit display (letter or digit codes not needed)
- Valve, piston, and cam type default storage
- User and master programming modes
- · Diagnostic mode
 - Current flow rate
 - Peak flow rate (can be reset)
 - Totalizer (can be reset)
 - Hours between last two regenerations
 - Hours since last regeneration
 - · Volume remaining (adjustable)
 - Valve addresses

Options

- · CAT 3 networking cable kit
- · Remote lock
- Programmable for Fleck* and generic meters

Humidity

- Programmable auxiliary relay output.
 - Dry contact relay (fused at 3 amps)

95% RH, Non-Condensing

- Program entire regeneration or during
- any part of regeneration
- Chemical pump output (volume and time)

Three programming levels

- · User mode
- Master programming
- Diagnostic mode



MEDIA:

WATTS BRAND A4000 SOFTENER RESIN

Viete or at 445 Co Perm

Watta brand A4000 resin is a high punty, premium grade, prewashed, strong acid get-type cation exchange resin specially designed for water softening applications. A4000 is a bead type, pross-kniked, polystyrene drivnylbenizene resin that offers excellent bead integrity and very low extractables.

Rear Properties

Yee	of crossing polysome
Foots	Se type, tort arobat birat
onic form	No- (as shipped
pruceus borb	Supporte ada
3930 600	15 ± 50 mesh
Effectse 240	0.45 ± 6.67 mm
EL & DENSTY	ET IMES
elege ocurt	min 30/4
Water retention	45 43%
face catacity	-2 0me€1
Vourre change	%3 - H+ <5%
Crapping terrip	<3007
Source, pli	C - 14







Design Conditions

Bed dept	33 ₹
KM LATE	2 5 gameta
Freeboard	50% of bed depth
Baddessh eccersor	50% of bad depth
Mail: concentration for regeneration	5-25%
Nati 10w rate for regeneration	0.25-0.5 307/10
Libiny	COCN TU
ros esparas	<1 pcm



PROJECT SCHEDULE

LEAD TIME:

10 - 15 days lead time

F.O.B.

San Antonio Texas

TERMS: Above products are subject the standard terms of the manufacturer and will be supplied upon request. All taxes are extra. Partial or expedited shipments, at customer request, may result in additional freight charges. Any material over £ above that what is listed is in addition to and therefore not provided for by this quotation. Please ensure that all quoted product meets your projects specifications. Our company will only be responsible for products shown on this quotation and not responsible for any product applied beyond the operating conditions and specifications. All shipments are FOB point of shipment unless otherwise indicated. all quotes are good for 30 days of entered date on quote unless otherwise stated.



Ion Exchange Resin

• The ion exchange resin shall be a high purity, premium grade, strongly acidic gel-type cation exchange resin specially designed for drinking water treatment and WQA certified to NSF/ANSI Standard 61. The ion exchange resin shall be composed of polystyrene with 8% divinylbenzene crosslinking that offers excellent bead integrity, high resistance to bead fracture or osmotic shock, and very low extractables. The resin shall have a light amber color and shall be specially pretreated to remove taste, odor and color throw. Resin bead size shall be 16X40 mesh. The resin shall meet the requirements of FDA regulation CFR section 21,

Gravel Under-bedding

The gravel under-bedding shall be a flint media. This media shall be washed to rid it of fines to prevent clogging of the lower distributor system. Enough gravel must be furnished to completely cover the lower distributor in the mineral tank(s).

Internal Distributor System

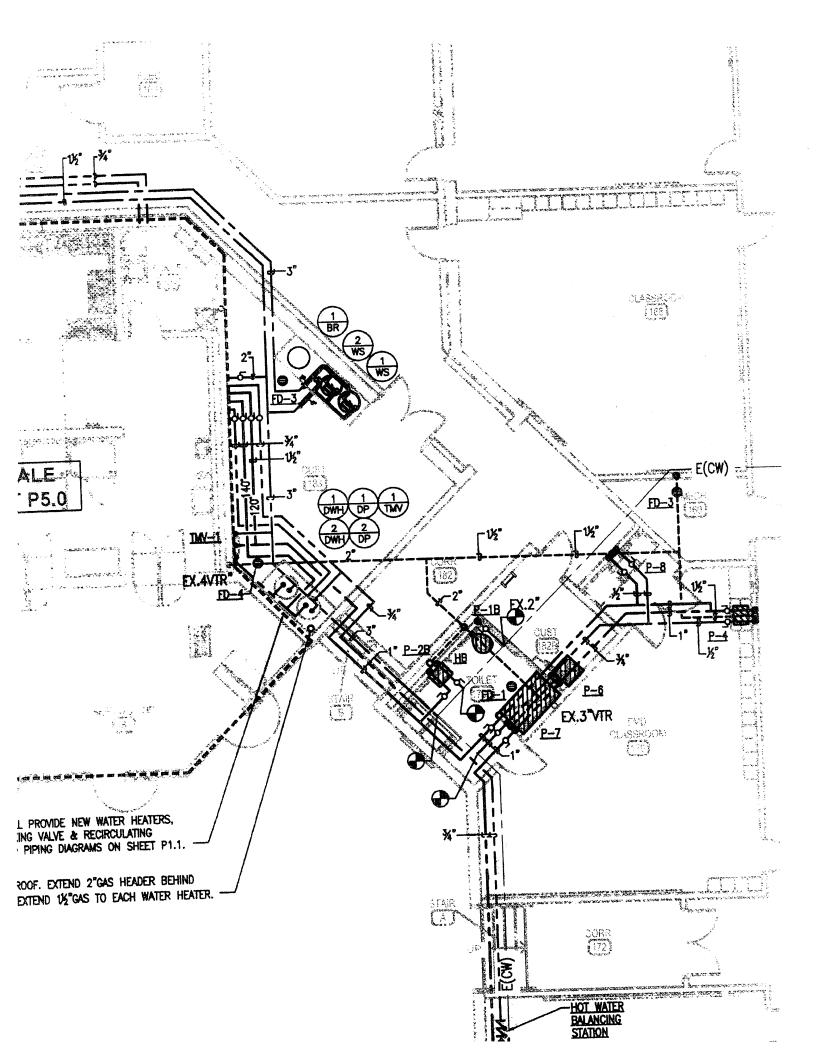
The internal distributor system shall come already installed in the water softener mineral tank(s). The screens/laterals of the internal distribution system shall be a slotted screen type diffuser. The slot cross section shall be a V shape to promote a self-cleaning characteristic of the slot while in the back wash flow mode. Slot size shall be .008" and not allow the resin to pass through and become present in the systems effluent water. Each screen will have an internal perforated pipe core to evenly distribute water flow across the entire lateral to prevent resin bed channeling. The lower distributor shall be a hub and lateral design for mineral tanks over 24" in diameter and single point design for mineral tanks 24" in diameter and below. The internal distribution system shall be made of abrasion resistant 20% glass filled polypropylene and have a maximum temperature limitation of 160 deg. F (71 deg. C). The distributor tube connecting the internal distribution system to the system control valve shall be made of polyvinyl chloride.

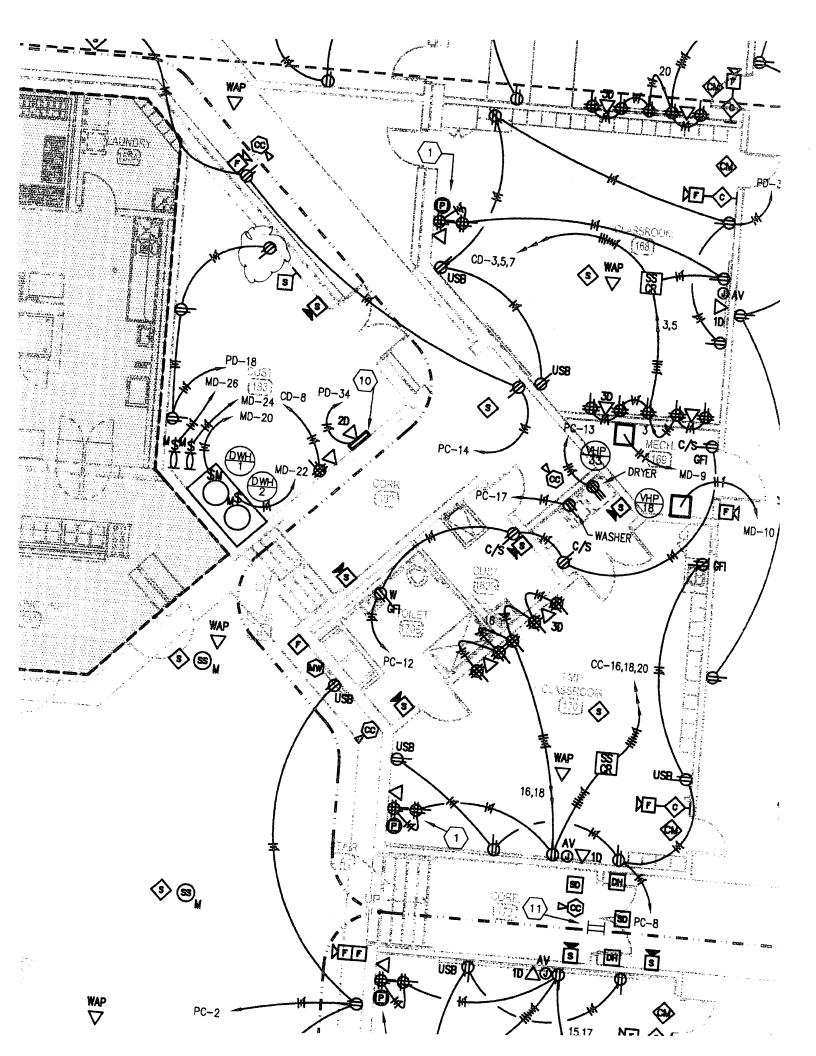
Brine Tank

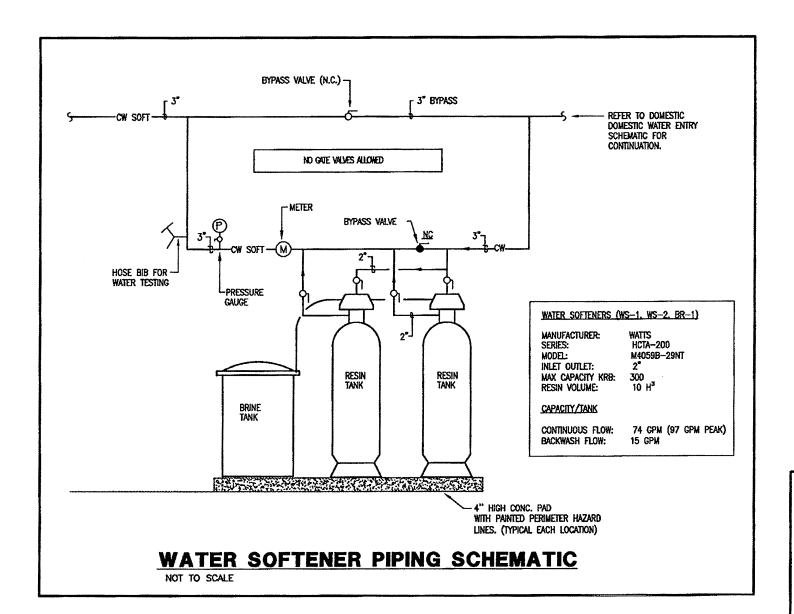
Provide a brine tank made of high density polyethylene for making a brine solution for the water softener to use during a regeneration cycle and for salt storage. The brine tank shall be furnished with an over flow connection, lid, aircheck, and brine well. The brine tank shall be sized to hold enough salt for 12 regenerations at 6 lbs of salt per cubic foot of resin.

Warranty

Provide a 1 year parts and labor warranty for the system to protect against manufacturers defects. The system shall not be subjected to water temperatures above 110 deg. F (43 deg. C) or below 34 deg. F. (1 deg. C) nor shall it be subjected to pressure exceeding 125 psi. During operation the feed water pressure must not fall below 25 psi so a proper regeneration can be performed. The resin shall not be subjected to iron levels greater than 1 ppm or free chlorine







TRAI SHAI 1'-0" FINIS EVEI PRIN

NOTE: PROVIDE A TRA LOCATED IN MI ROOMS. ALL O' BE PROVIDED \

> INSULAT FROM TF PROVIDE

> > ____

FLOOR D