#### TOWN OF CASTLE ROCK, COLORADO

#### **CONSTRUCTION CONTRACT**

THIS CONSTRUCTION CONTRACT (Contract) is made at the Town of Castle Rock, Colorado, between the Town of Castle Rock, Colorado (Town), a municipal corporation, 100 N. Wilcox Street, Castle Rock, Colorado 80104 and Moltz Construction, Inc. (Contractor) a Colorado corporation, 8807 C.R. 175, P.O. Box 729, Salida, CO 81201.

In consideration of these mutual covenants and conditions, the Town and Contractor agree as follows:

**SCOPE OF WORK** The Contractor shall execute the entire Work described in the Contract.

**CONTRACT** The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, written or oral representations and agreements. The Contract incorporates the following Contract Documents. In resolving inconsistencies among two or more of the Contract Documents, precedence will be given in the same order as enumerated.

#### LIST OF CONTRACT DOCUMENTS

The Contract Documents, except for Modifications issued after execution of this Agreement, are:

- 1. Change Orders;
- 2. Notice to Proceed;
- 3. Construction Contract;
- 4. The following Addenda, if any:
- 5. Town of Castle Rock General Conditions dated, "TA Rev" July 9, 2015
- 6. Special Conditions of the Contract:
- 7. The following Specifications:
  - A. Plum Creek Water Purification Facility (PCWPF), Work Package No. 2, Project Manual, Issue for Construction, Dated February, 2012 by Burns & McDonnell Engineering. More specifically, the following specification sections apply: 01330 Submittals, 01400 Quality Requirements, 01750 Manufacturers Field Service, 01780 Contract Closeout, 01785 Warranties, 03151 Concrete Anchors, 05125 Pipe Supports, 09900 Protective Coatings, 10445 Identification of Piping and Valves with Markers and Tags, 11205 Interior Pipe, 11206 Pipe Installation, 13219 Cleaning and Disinfection of Water Treatment Plant (new work), 16010 Basic Electrical Requirements, 16110 Raceways, 16120 Wires and Cables, 16135 Electrical Boxes and Fittings.

- 8. The following Drawings:
  - A. PCWPF Contract Drawings, Conforming to Construction Records, Dated July, 2013 by Burns & McDonnell Engineering. More specifically, all drawing pages that reference the Pall membrane treatment system.
- 8. Notice of Award;
- 9. Invitation to Bid:
- 10. Information and Instructions to Bidders;
- 11. Notice of Substantial Completion;
- 12. Notice of Construction Completion;
- 13. Proposal Forms, including Bid Schedules;
- 14. Performance, and Labor and Material Payment Bonds;
- 15. Performance Guarantee: and
- 16. Insurance Certificates.

**CONTRACT PRICE.** The Town shall pay the Contractor for performing the Work and the completion of the Project according to the Contract, subject to Change Orders as approved in writing by the Town, under the guidelines in the General Conditions. The Town will pay \$990,000 DOLLARS, (Contract Price), to the Contractor, subject to full and satisfactory performance of the terms and conditions of the Contract. The Contract Price is provisional based on the quantities contained in the Proposal attached as *Exhibit 1*. The final Contract Price shall be adjusted to reflect actual quantities incorporated into the Work at the specified unit prices. The Town has appropriated money equal or in excess of the Contract Price for this work.

**COMPLETION OF WORK.** The Contractor must begin work covered by the Contract within 14 calendar days, and must complete work within 175-working days from and including the date of Notice to Proceed, according to the General Conditions. The Work should be completed by May 31, 2017.

**LIQUIDATED DAMAGES.** If the Contractor fails to substantially complete the Work by the date set for substantial completion in the Contract, or if the completion date is extended by a Change Order, by the date set in the Change Order, the Town may permit the Contractor to proceed, and in such case, may deduct the sum of \$500 for each day that the Work shall remain uncompleted from monies due or that may become due the Contractor. This sum is not a penalty but is a reasonable estimate of liquidated damages.

The parties agree that, under all of the circumstances, the daily basis and the amount set for liquidated damages is a reasonable and equitable estimate of all the Town's actual damages for delay. The Town expends additional personnel effort in administering the Contract or portions of the Work that are not completed on time, and has the cost of field and office engineering, inspecting, and interest on financing and such efforts and the costs thereof are impossible to accurately compute. In addition, some, if not all, citizens of Castle Rock incur personal inconvenience and lose confidence in their government as a result of public projects or parts of them not being completed on time, and the impact and damages, certainly serious in monetary as well as other terms are impossible to measure.

**SERVICE OF NOTICES.** Notices to the Town are given if sent by registered or certified mail, postage prepaid, to the following address:

TOWN OF CASTLE ROCK Town Attorney 100 N. Wilcox Street Castle Rock, CO 80104

**INSURANCE PROVISIONS.** The Contractor must not begin any work until the Contractor obtains, at the Contractor's own expense, all required insurance as specified in the General Conditions. Such insurance must have the approval of the Town of Castle Rock as to limits, form and amount.

**RESPONSIBILITY FOR DAMAGE CLAIMS.** The Contractor shall indemnify, save harmless, and defend the Town, its officers and employees, from and in all suits, actions or claims of any character brought because of: any injuries or damage received or sustained by any person, persons or property because of operations for the Town under the Contract; including but not limited to claims or amounts recovered from any infringements of patent, trademark, or copyright; or pollution or environmental liability. The Town may retain so much of the money due the Contractor under the Contract, as the Town considers necessary for such purpose. If no money is due, the Contractor's Surety may be held until such suits, actions, claims for injuries or damages have been settled. Money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that the Contractor and the Town are adequately protected by public liability and property damage insurance.

The Contractor also agrees to pay the Town all expenses, including attorney's fees, incurred to enforce this Responsibility for Damage Claim clause.

Nothing in the **INSURANCE PROVISIONS** of the General Conditions shall limit the Contractor's responsibility for payment of claims, liabilities, damages, fines, penalties, and costs resulting from its performance or nonperformance under the Contract.

**STATUS OF CONTRACTOR.** The Contractor is performing all work under the Contract as an independent Contractor and not as an agent or employee of the Town. No employee or official of the Town will supervise the Contractor. The Contractor will not supervise any employee or official of the Town. The Contractor shall not represent that it is an employee or agent of the Town in any capacity. **The Contractor and its employees are not entitled to Town Workers' Compensation benefits and are solely responsible for federal and state income tax on money earned.** This is not an exclusive contract.

**THIRD PARTY BENEFICIARIES.** None of the terms or conditions in the Contract shall give or allow any claim, benefit, or right of action by any third person not a party to the Contract. Any person, except the Town or the Contractor, receiving services or benefits under the Contract is an incidental beneficiary only.

**INTEGRATION.** This contract integrates the entire understanding of the parties with respect to the matters set forth. No representations, agreements, covenants, warranties, or certifications, express or implied, shall exist as between the parties, except as specifically set forth in this Contract.

<b>DEFINITIONS.</b> The Definitions in the Ge modified within a Contract Document.	eneral Conditions apply to the entire Contract unless
Executed this day of	, 2016.
ATTEST:	TOWN OF CASTLE ROCK
Sally A. Misare, Town Clerk	Paul Donahue, Mayor
APPROVED AS TO FORM:	
Robert J. Slentz, Town Attorney	
CONTRACTOR:	
<b>Moltz Construction, Inc.</b>	
By:	
Title:	
(Insert either the Corporate or Partnership Corporate Order Ord	Certificate, as appropriate)

# EXHIBIT 1 (PROPOSAL/BID)



Exhibit 1 Page 1 of 40

> 8807 CR 175 P.O. Box 729 Salida, CO 81201

Phone: (719)539-7319 Fax: (719)539-7695

August 26, 2016

Walt Schwarz, Project Manager Castle Rock Utilities Department 175 Kellogg Street Castle Rock, CO 80109

Re: Castle Rock - Plum Creek WTF Membrane System Expansion Project

Mr. Schwarz:

We are pleased to offer this proposal to furnish and install the fourth PALL membrane system to be added at the Plum Creek WTF. Moltz Construction will provide the PALL membrane equipment per the attached proposal, and all civil, structural, mechanical and electrical (plant I&C integration is by others) work for a complete and workable membrane system. A one-year warranty on material and workmanship, and PALL standard warranty is included per the attached PALL scope of supply to be transferred to the Owner after 1 year. The added Membrane system can be commissioned and available to treat blended source water from Plum Creek in May 2017. This scope of work includes concrete, grout, anchorage, pipe supports, process piping and isolation valves, protective coatings, electrical work specific to the added membrane rack only, furnish and install PALL Membrane equipment including skid assembly, valves, cabling and startup support for the Castle Rock Membrane System Expansion project for the lump sum price of: \$990,000.00. (Nine Hundred Ninety Thousand Dollars and No Cents).

#### Cost Breakdown:

\$68,000.00
\$28,225.00
\$10,500.00
\$741,350.00
\$52,300.00
\$70,725.00
\$18,900.00
\$990,000.00

The pricing above does not include any costs for furnishing or installation of one additional Pre-Filtration Strainer, or furnishing or installation of one additional Air Compressor and is not included in this scope of work.

The material provided for this project will be fabricated and installed as applicable, per the following sections of the project manual for the Town of Castle Rock, Colorado Plum Creek Water Purification Facility, Work Package No. 2 – Issue for Construction:

- ii. 01400 Quality Requirements
- iii. 01750 Manufacturers Field Service
- iv. 01780 Contract Closeout
- v. 01785 Warranties
- vi. 03151 Concrete Anchors
- vii. 05125 Pipe Supports
- viii. 09900 Protective Coatings
- ix. 10445 Identification of Piping and Valves with Markers and Tags
- x. 11205 Interior Pipe
- xi. 11206 Pipe Installation
- xii. 13219 Cleaning and Disinfection of Water Treatment Plant (new work)
- xiii. 16010 Basic Electrical Requirements
- xiv. 16110 Raceways
- xv. 16120 Wires and Cables
- xvi. 16135 Electrical Boxes and Fittings

Should you have any questions regarding this proposal, please feel free to contact me.

Sincerely,

Toby Reid

Project Manager



# Pall Corporation Proposal

# **ARIA**<sup>TM</sup> Membrane Filtration System

TOWN OF CASTLE ROCK, CO EXPANSION

Date: August 26, 2016

Revision: 2

Author: Rick Moro

#### **Submitted to:**

Moltz Construction Attention: Toby Reid P.O. Box 729 8807 County Road 175 Salida, CO 81201 (719) 539-7319

#### **Submitted by:**

Rick Moro
Regional Sales Manager
Pall Corporation
25 Harbor Park Drive
Port Washington, NY 11050
rick moro@pall.com
(516) 924-2054

# PROPRIETARY & CONFIDENTIAL INFORMATION NOTICE

This proposal document is proprietary to Pall Corporation and is furnished in confidence solely for use in evaluating the proposal and for no other direct or indirect use. No rights are granted to the recipient for any information disclosed in this proposal. It contains proprietary information which may be the subject of an issued patent or pending application in the United States or elsewhere.

By accepting this document from Pall Corporation the recipient agrees:

- to use this document and the information it contains exclusively for the above-stated purpose and to avoid use of the information for performance of the proposed work by recipient itself or any third party.
- to avoid publication or other disclosure of this document or the information it contains to any third party without the prior approval of Pall Corporation.
- to make only those copies needed for recipient's internal review, and
- to return this document and any copies thereof when they are no longer needed for the purpose for which furnished or upon the request of Pall Corporation.

### Pall Corporation Revision History

Revision	Date	Originator	Description
00	7/14/2016	Pall Corporation	Initial Document Release.
01	8/12/2016	Pall Corporation	Installation scope and schedule revised to reflect direct quote for equipment and engineering services only to Moltz Construction.
02	8/26/2016	Pall Corporation	Updated Sect 2.4 & 3 to incorporate parts of the previous contract with Town of CR. New payment milestones, and added both commercial and technical E&C's.

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  - 4.2 Treated Water Objectives
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- 5. Warranty

Attachment A – Drawings

Attachment B – Technical Exceptions and Clarifications

Attachment C – Commercial Exceptions and Clarifications

#### 1. Solution Summary

Pall Corporation would like to thank the Town of Castle Rock, Colorado, in conjunction with Moltz Construction, for their continued interest in our membrane based filtration/separation products. It is our firm belief that our products will provide the level of satisfaction that your water treatment application demands.

As requested, Pall is proposing the addition of one hollow fiber membrane system rack and ancillary equipment in order to expand the water treatment plant's capacity.

Once you have had sufficient time to review our offering, please direct any questions you may have to our team members.

#### 2. Pall Offering

#### 2.1 Scope Summary

Pall Corporation proposes to expand the existing Hollow Fiber Membrane System equipment including the membrane rack, compressor, and strainer to be procured and constructed by Pall in our factory.

#### 2.2 Pricing Summary

Item	Description	Sale Price
1	Supply and commissioning of one (1) additional membrane rack including upgrades to the HMI and control system as described in Section 3 of this proposal.	\$673,540
2	Supply, and start-up/commissioning of one (1) additional pre-filtration strainer as described in Section 3 of this proposal.	\$18,790
3	Supply, and start-up/commissioning of one (1) additional air compressor as described in Section 3 of this proposal.	\$32,670
Total for all items proposed		\$725,000

#### 2.3 Delivery Schedule

Milestone	Expected Schedule
PO/contract received By Pall from Moltz Construction	September 16, 2016
Acknowledgement of PO By Pall	5-10 Days after receipt of PO/Contract
Submittal of documents listed in Section 3	30 days from Pall Acknowledgement of Purchase Order
Submittal Approval	Not later than October 26, 2016
Release to Manufacture	Not later than October 26, 2016
Delivery of Membrane Rack and Revised O&M Manual	18 weeks after Release to Manufacture*

Milestone	Expected Schedule
Installation Completed (By others)	5-6 weeks after equipment delivery**
Commissioning Complete	5 weeks after installation completed**
Final Acceptance	The earlier of completion of system commissioning or 90 days after equipment delivery.

<sup>\*</sup>The lead time for membrane racks is based on supply of module racks with a powder coat finish on the structural steel frame similar to that supplied for the original system. A shorter lead time (approximately 14 weeks from release to manufacture) is possible if rack framework is provided with epoxy paint per Pall Corporation's current standard procedures. Lead time is subject to review and adjustment based on actual shop workload and schedule if release to manufacture occurs later than expected.

#### 2.4 Terms and Conditions

All sales made by Pall are subject to the terms contained within this Section 2.4, Section 5 Limited Warranty, and the following Sections from the July 11, 2012 TOWN OF CASTLE ROCK UTILITIES DEPARTMENT CASTLE ROCK, COLORADO CONTRACT DOCUMENTS for the purchase of MEMBRANE FILTRATION EQUIPMENT AND SPECIAL SERVICES: 00 52 63 AGREEMENT FORM, 00 72 05 STANDARD GENERAL CONDITIONS FOR PROCUREMENT CONTRACTS and 00 73 05 SUPPLEMENTARY CONDITIONS, as modified by the Pall Commercial Exceptions provided as Attachment C.

Price Validity	Pricing stated is in US Dollars and shall remain valid for 30 days from the date of this proposal.
Shipping Terms	The price includes shipping costs. Delivery shall be FCA
	Job Site, INCOTERMS® 2010.
<b>Payment Terms</b>	Payment of invoiced amounts due to Seller shall be paid
	Net 30 days from Seller's invoice.
Payment	Payments will be made per the following schedule:
Milestones	<ul> <li>5% of the purchase price upon earlier of (i) Seller being awarded project or (ii) delivery to Seller of the Purchase Order or (iii) the Sales Confirmation;</li> </ul>

<sup>\*\*</sup> Installation and commissioning completion dates to be confirmed by others and reliant on the Town's ability to tolerate plant shutdowns.

	<ul> <li>10% of the purchase price upon Submittal Approval;</li> <li>35% of the purchase price upon Release to Fabricate;</li> <li>35% of the purchase price upon earlier of (i) Delivery of the Goods;</li> <li>10% of the purchase price upon Commissioning and Start-up per Section 3.4 of this proposal and;</li> <li>5% upon Final Acceptance per Section 4.4 of this proposal.</li> </ul>	
Bonds	No bonds of any type are included with this proposal.	
Taxes	No taxes are included in the pricing. Payment of all taxes related to the Goods and Services proposed shall be the exclusive responsibility of the Buyer.  Buyer shall submit to Seller a valid sales tax exemption certificate, as applicable.	

#### 3. Scope of Supply

Equipment is provided in compliance with the applicable sections of the equipment and technical sections of the contract documents from the previous project entitled:

TOWN OF CASTLE ROCK UTILITIES DEPARTMENT CASTLE ROCK, COLORADO CONTRACT DOCUMENTS for the purchase of MEMBRANE FILTRATION EQUIPMENT AND SPECIAL SERVICES dated July 12, 2011.

Pall further clarifies that tagging for the expansion will be included as defined by Change Order #1, and Block and Bleed valves will include limit switches as defined in Change Order #2 from the original project.

Pall Corporation has included Technical Exceptions and Clarifications to this document herein.

#### 3.1 Scope Summary Table

Item Description	By PALL	By OTHERS
Design, supply, and installation of all piping required to integrate the new equipment into existing system. Inclusive of feed, filtrate,		X
compressed air, drains, CIP supply and return, and flush water		
Membrane Feed Pump System (existing)		X
System drawing submittals	X	
Membrane pre-feed strainer with backwash and isolation valves	X	
Membrane valve and module rack with 78 membrane spaces	X	
Membrane modules	Χ	
Air compressor assembly and outlet isolation valve	X	
Supply of anchor bolts for Pall supplied Equipment		X
Upgraded 17" touch-screen industrial computer with		
Windows 10 operating System and Factory Talk View SE HMI software	X	
Receiving and unloading of equipment		X
Safe storage of equipment until ready for installation		X
Installation of all equipment including concrete installation pads and grouting		X
Supply of interconnecting pipe, inclusive of pipe supports and flexible connectors		X
Expansion of Motor Control Center (MCC) and motor starter for new strainer		X
All wiring, cabling, and tubing for power supply,		X

Item Description	By PALL	By OTHERS
signals, communications, and to connections on Pall supplied equipment		
Design, supply, and installation of all civil infrastructure inclusive of buildings, fire and safety protection, HVAC, walkways, platforms, etc.		X
Revision to update Operation & Maintenance Manual	X	
Quality Control Inspection of System Installation	Χ	
On-site start-up support, commissioning, and support during initial system operational testing	X	
All Permits		X

#### 3.2 Equipment Description of Major Components

#### **MF Units**

Quantity 1

Type Transverse Rack Style, HDPE Piping

Size 8 inch - Nominal

Modules per Rack 64 Module spaces per rack 78

Module Part Number UNA-620A

Customer Connections ANSI Class B 150 lb Flanges, sizes similar

to previously supplied racks.

Operational Limits 0 – 40°C

Frame Finish Powder coat as supplied on original racks

#### Feed Strainer

Quantity

Strainer removal rating 300 micron

Size EBS 10000; 14 inch
Motor 1/2 HP, 460V/3PH/60HZ,
Customer Connections ANSI 150 lb flanges

Manufacturer Amiad

#### Air Compressor

Quantity 1

Type ROTARY SCREW

Cooling Air Cooled

Capacity 30.1 ACFM @ 175 PSIG Motor 10 HP, 460V/3PH/60HZ

Manufacturer Atlas Copco

#### 3.3 Submittal Description

Submittals shall be in electronic format via a secure file transfer application for approval.

Pall Corporation will endeavor to deliver equipment identical to that which was supplied for the original system, but where equipment has been obsoleted or model updates have occurred, approval of similar replacement equipment will be requested with response being within two days and not unreasonably withheld.

#### Submittal Documents

P&ID (Revised to update from original project)

Membrane Filter Skid/Rack Assembly Drawing

Power Single-Line Diagram/Network Diagram/System Interconnection Details Drawing (Revised to update from original project)

Valve Rack Panel

Instrument List and Supporting Vendor Information (catalog cut sheets)
Equipment List and Supporting Vendor Information (catalog cut sheets)
Valve List and Supporting Vendor Information (catalog cut sheets)

Final Document Submittal (with rack shipment)

Operation and Maintenance Manual

#### 3.4 Post-Installation Services and Labor

#### Commissioning and Start-up

This proposal includes on-site services of a Field Service Engineer for up to 20 days on-site in up to 4 trips to commission the system and assure expected performance for capacity and effluent quality (turbidity and acceptable integrity test performance.) This includes time to update the existing control system to accommodate the increased flow rate of the system and to control and monitor the equipment supplied by Pall Corporation as proposed herein.

#### **Operator Training**

No operator training is included in the scope of this proposal.

#### Performance Testing

No additional on-site time beyond standard commissioning and start-up with capacity checks has been included in the scope of this proposal.

#### 4. Technical Summary

#### 4.1 Process Summary

#### Source Description

Raw water is obtained from alluvial wells along East Plum Creek. Deep aquifer water may be mixed with the alluvial well water.

#### <u>Treatment Processes Prior to Membrane Filtration</u>

Raw water will be pre-oxidized with up to 3.0 mg/L of potassium permanganate prior to a minimum of 45 minutes of flocculation and settling using 15 to 60 mg/L of ferric chloride.

The flocculated water may be dosed with up to 0.5 mg/L of high molecular weight, low charge, anionic polymer, solutioned from dry polymer. The flocculated water may also be dosed with lime and carbon dioxide for pH adjustment.

If polymer is used upstream of the membranes, it will be acceptable to re-optimize CW frequency and formulation outside of what is specified herein.

Unthickened solids from the clarifier will be treated on-site with up to 5.0 mg/L of high molecular weight, low charge, anionic polymer, solutioned from dry polymer and fed to the gravity thickener.

Decant from gravity thickener and all backwash waste will be recycled to the head of the water treatment plant, prior to pre-oxidation and clarification.

#### Membrane Filtration Feed Water Characteristics

Quality of the water entering the Pall Membrane System, as summarized in table below, forms the basis of design for this proposal. In the event that the feed water to the membrane filtration system is outside these parameters, the system performance, cleaning protocol, operating parameters, and/or warranties may be affected.

Parameter	Units	10 <sup>th</sup> Percentile	Avg	90 <sup>th</sup> percentile	Notes
Alkalinity	ppm as CaCO₃	30	50	120	
Chloride	mg/l	80	100	160	
Fats, Oils, Grease (FOG)	mg/L			0	Assumed
Hardness, Total	ppm as CaCO <sub>3</sub>	90	110	200	
Hydrocarbons	mg/L			0	Assumed
Iron, dissolved (Fe)	mg/L	0.05	0.1	0.4	
Manganese, dissolved (Mn <sup>+2</sup> )	mg/L	0.03	0.15	0.20	
Organic Carbon, Total (TOC)	mg/L	1.0	2.5	5.0	
рН		5.8	6.1	7.0	
Potassium Permanganate (KMnO4) residual	mg/L	0.0	0.1	0.5	
Temperature	°C	5	10	20	
Total Dissolved Solids (TDS)	mg/L	300	350	450	
Turbidity	NTU	1.0	5.0	12.0	

#### 4.2 Treated Water Objectives

The proposed membrane system is designed to achieve the following results given the feed fluid conditions described in Section 4.1 of this proposal and operation of the system in accordance with the Operation and Maintenance Manual.

Additional Net Filtrate Capacity of 2.0 MGD (6.0 MGD Total system capacity, 3 racks on-line)

Turbidity less than 0.10 NTU 95% of the time, below 0.30 NTU at all times.

LRV = 4.0 in accordance with US EPA Membrane Filtration Guidance manual.

#### 4.3 Operational Parameters

Membrane Filtration System Operational Parameters at Design Flow:

Net Filtrate Capacity	2.0	MGD
Recovery	97.6	%
Instantaneous Flux	65	GFD max
FM (Backwash) Interval	36,800	Gal of filtrate produced/Rack
EFM (Acid) Interval	7	Days
CIP Interval	45	Days

#### 4.4 Final Acceptance Criteria

The system shall be accepted by the end user upon completion of all of the following:

#### 1) Completed System Commissioning

In the event that item 1 is incomplete 90 days after system delivery, the system shall be deemed accepted unless the delays in completion of item 1 above is solely caused by Pall Corporation, or equipment provided by Pall Corporation.

#### 5. Limited Warranty

Seller warrants to Buyer that the title to the goods conveyed shall be proper, its transfer rightful, and free from any security interest, lien, or other encumbrance upon delivery. Seller shall defend, indemnify, and hold Buyer harmless against any liens, claims, or demands to the extent caused by a breach of the foregoing warranty.

#### 5.1 Limited Hardware Warranty:

Seller warrants to Buyer that for a period of twelve months commencing from the date of start-up or eighteen months from time of delivery from Seller, whichever is sooner, (the "Warranty Period"), that the goods manufactured by Seller, when properly installed and maintained, and operated at ratings, specifications and design conditions specified by Seller, will meet Seller's specifications for such goods and will be free from material defects in material and workmanship (this "Limited Warranty").

If the defects are of such type and nature as to be covered by this Limited Warranty, Seller shall, at its option and in its sole discretion, either:

- a. accept return of the defective goods and furnish a replacement goods; or
- b. furnish replacement parts for the defective goods; or
- c. repair the defective goods; or
- d. accept return of the defective goods and return payments made, or issue credits for, such defective goods.

#### 5.2 Limited Module Warranty

#### (10 YEAR: 1 YEAR ABSOLUTE AND 9 YEARS PRO-RATED)

- a. In addition to the foregoing, for a period of 120 months commencing from the date of the startup, or 126 months from the date of delivery from Seller (the "Module Warranty Period"), whichever is sooner, Seller warrants that the membrane modules, when properly installed, maintained, and operated at ratings, specifications, and conditions specified by the Contract documents and Seller's Operations and Maintenance Manual ("O&M Manual"), will be free from defects in material and workmanship.
- b. Owner and Seller will work together to optimize the specific operating protocol to be used including number of racks on line, flow rates per rack, cleaning technique and cleaning set points with the goal of achieving excellent long-term performance. Any change in operational conditions, including feedwater chemistry or contaminants will require Seller's review to determine the potential impact on this warranty.

- c. If the membrane modules fail to perform as outlined by the Contract documents during the first 12 months of the Module Warranty Period, Seller will be given the opportunity to remedy the situation, by modifying operating and/or cleaning protocol. If Seller is not able to remedy the situation, Seller will repair or replace those modules that do not perform if they are removed from service due to poor performance.
- d. If the membrane modules fail to perform as outlined by the Contract documents after the first 12 months of the Module Warranty Period through the end of the Module Warranty Period, Seller will be given the opportunity to remedy the situation, by modifying operating and/or cleaning protocol. If Seller is not able to remedy the situation or repair the modules, Seller will replace those modules at the following replacement price:

Replacement Module Price = Seller's current module price \* (# of months from startup / 120 months)

Or

Replacement Module Price = Seller's current module price \* ((# of months from delivery - 6) / 120 months))

- e. Seller is committed to continuous development of its filters and filter processes. Should membrane technology improve, for example via changes in the permeability or operating flux rates of the membranes, Seller reserves the right to provide a suitable number of alternative membrane replacements during the term of our warranty and beyond.
- f. Buyer is required to contract Seller to perform one clean-in-place ("CIP") annually to maintain this Limited Module Warranty validity. In addition, CIP's must be conducted by the Buyer at the interval and conditions stated in Seller's O&M Manual or as may be modified as stated herein this Limited Module Warranty.
- g. Seller's liability under this Limited Membrane Warranty is limited solely (in Seller's discretion) to replacing (FCA original shipping point), repairing or issuing credit for products that become defective during the Module Warranty Period.

#### 5.3 Limited Warranty for Services

Seller further warrants that the services, if any, will be performed in a workmanlike manner in accordance with applicable law and industry standards by qualified personnel (this "Limited Warranty for Services"); this Limited Warranty for Services shall survive for 30 days following Seller's completion of the services (the "Service Warranty Period"). In the event of a warranty claim under this Limited Warranty for Services, Buyer shall inform Seller promptly in writing of the details of the claim within the Service Warranty Period. Seller's liability under any service warranty is limited (in

Seller's sole discretion) to repeating the service that during the Service Warranty Period does not meet this Limited Warranty for Services or issuing credit for the nonconforming portions of the services. If Seller determines that any warranty claim is not, in fact, covered by the foregoing Limited Warranty for Services, Buyer shall pay Seller its then customary charges for all services performed by Seller.

#### 5.4 Other Limits

Seller's warranty hereunder excludes, and in no event shall Seller be liable for, defects or damage arising out of or caused by:

- a. abuse, improper modification, improper maintenance, improper installation, or improper operation by persons other than Seller; or
- b. corrosion including microbial-induced corrosion, chemical attack, unless corrosive or damaging conditions were disclosed by Buyer and the contract documents require the goods to withstand such conditions; or
- c. use in a manner contrary to Seller's written instructions or negligence of persons other than Seller; or
- d. damage or adverse effects caused by processes or operational events external to Seller's supplied equipment or outside of Seller's control including hydraulic shock (water-hammer); or
- e. foreign debris including particulate matter not typical of the expected process fluid or feed source(s), or debris originating from components or processes not supplied by nor identified to Seller; or
- f. influences from catastrophic accidents including those that negatively affect the process fluid's quality, installation integrity, or site utilities.

In no event shall Seller be liable for any goods repaired or altered by someone other than Seller except as authorized in writing by Seller.

#### 5.5 Notification

Buyer shall promptly notify Seller of any breach of Seller's warranties within the applicable Warranty Period and provide Seller with an opportunity to inspect and test the goods or services claimed to fail to meet the above Limited Warranties. Buyer shall provide Seller with a copy of the original invoice for the product or service, and prepay all freight charges to return any goods (or parts thereof) to Seller's factory, or other facility designated by Seller. All claims must be accompanied by full particulars, including operating conditions, if applicable. If Seller determines that any warranty claim is not, in fact, covered by the foregoing Limited Warranties, Buyer shall pay Seller its then customary charges for any additionally required service or products.

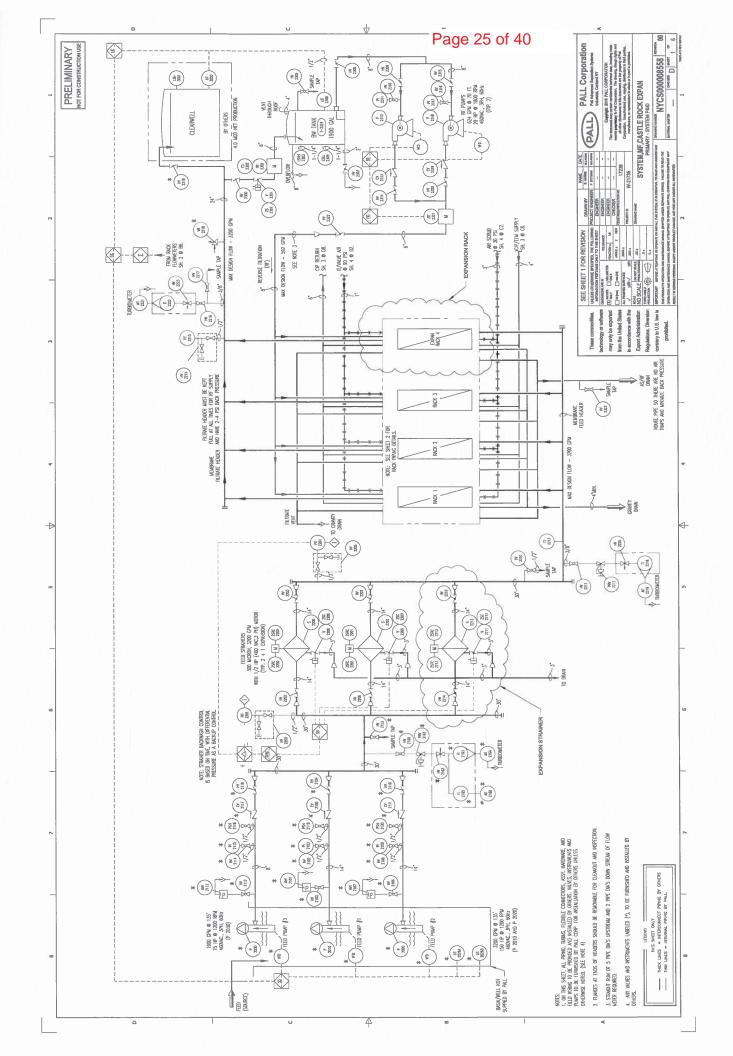
#### 5.6 Exclusive Obligations

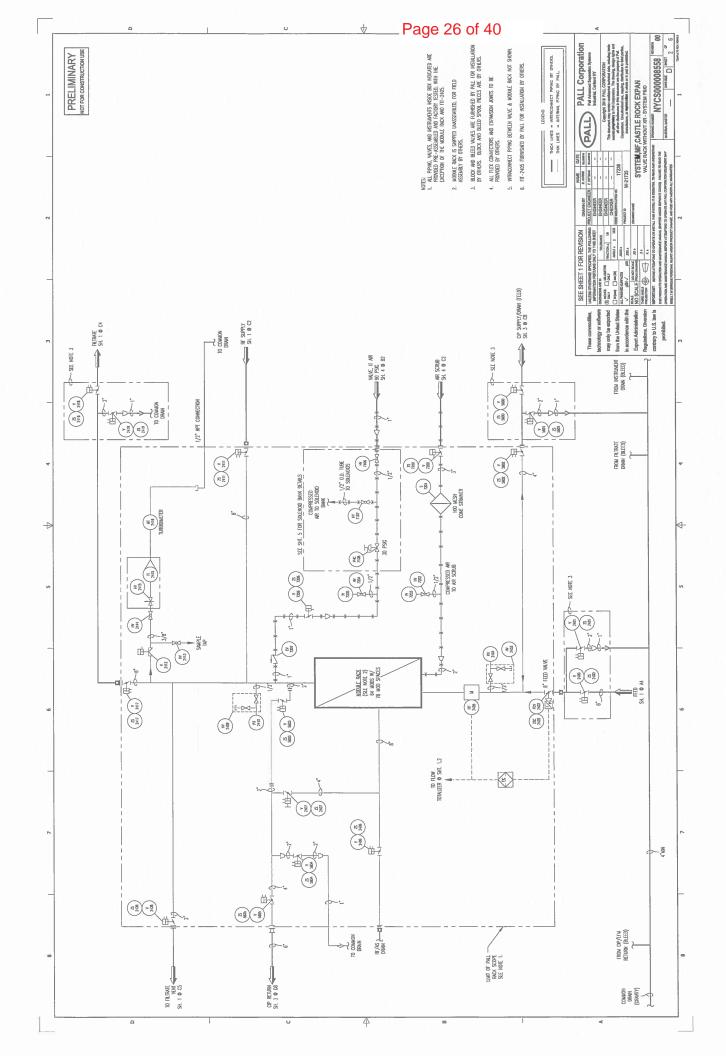
THIS WARRANTY IS EXCLUSIVE. THE LIMITED WARRANTY AND THE LIMITED WARRANTY FOR SERVICES ARE THE SOLE AND EXCLUSIVE OBLIGATIONS OF SELLER WITH RESPECT TO THE DEFECTIVE GOODS AND SERVICES. SELLER SHALL NOT HAVE ANY OTHER OBLIGATION WITH RESPECT TO THE GOODS, SERVICES, OR ANY PART THEREOF, WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE. THE REMEDIES SET FORTH ABOVE SHALL BE THE BUYER'S SOLE AND EXCLUSIVE REMEDY AND SELLER'S ENTIRE LIABILITY FOR ANY BREACH OF THE LIMITED WARRANTY SET FORTH HEREIN EXCEPT FOR THE WARRANTIES SET FORTH IN THIS SECTION, SELLER MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE GOODS AND SERVICES, INCLUDING WITHOUT LIMITATION ANY (a) WARRANTY OF MERCHANTABILITY; (b) WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE; (c) WARRANTY OF TITLE; OR (d) WARRANTY AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY; WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE.

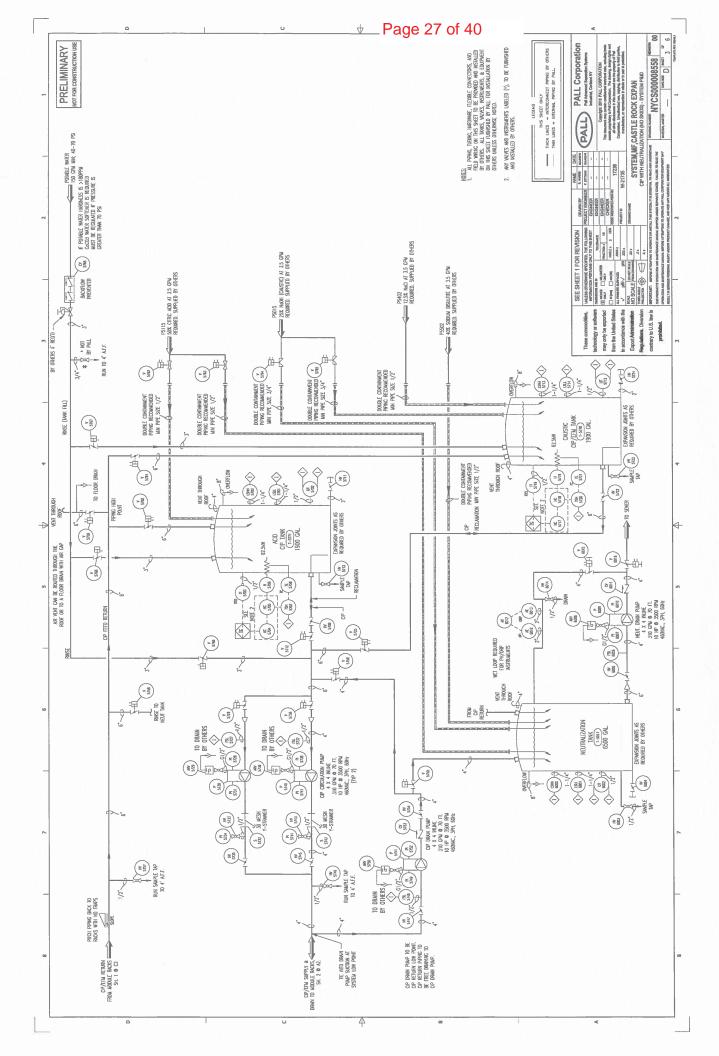
#### 5.7 Buyer Breach

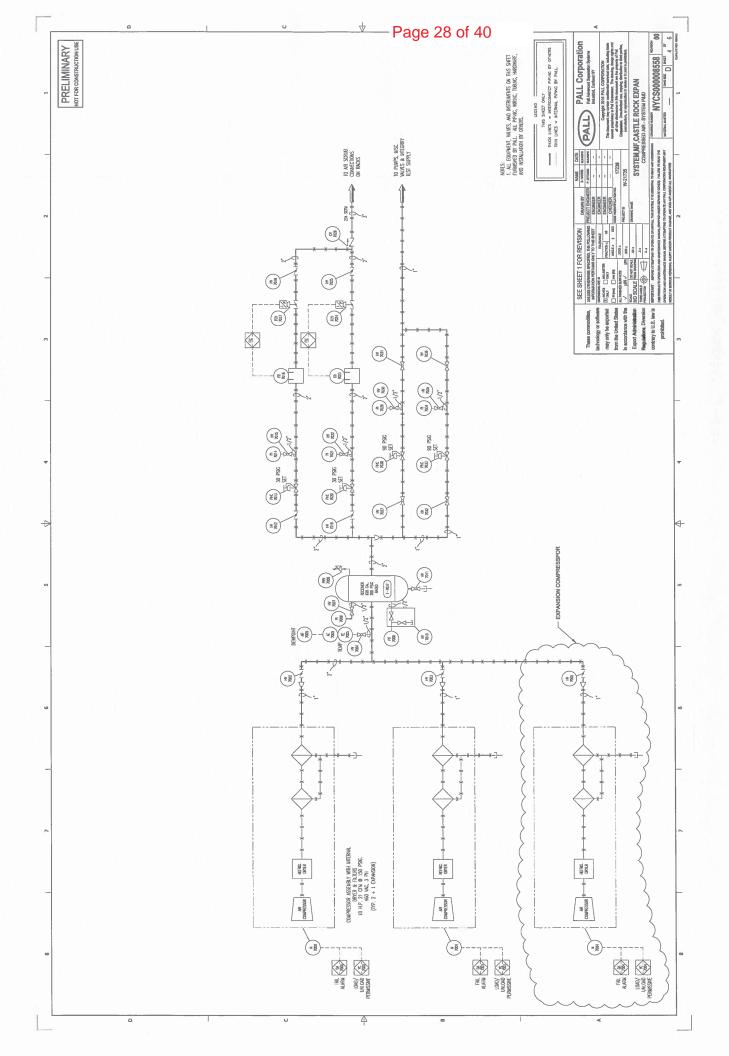
In no event shall Buyer be entitled to claim under the above Limited Warranties if Buyer is in breach of its obligations, including but not limited to payment, hereunder.

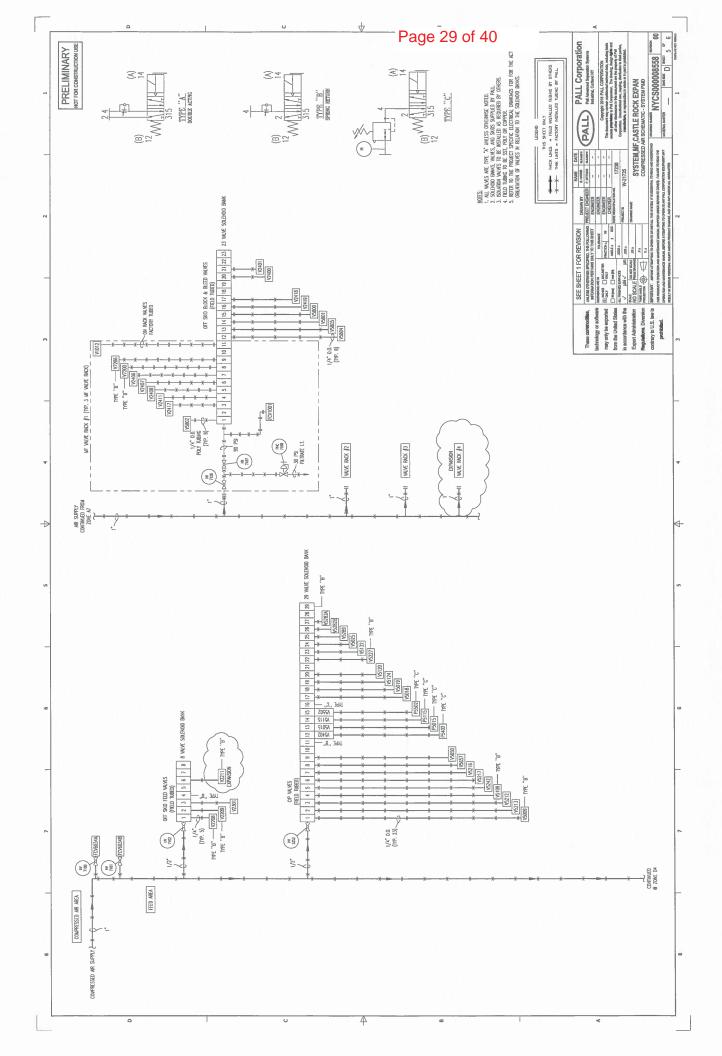
### Attachment A – Drawings

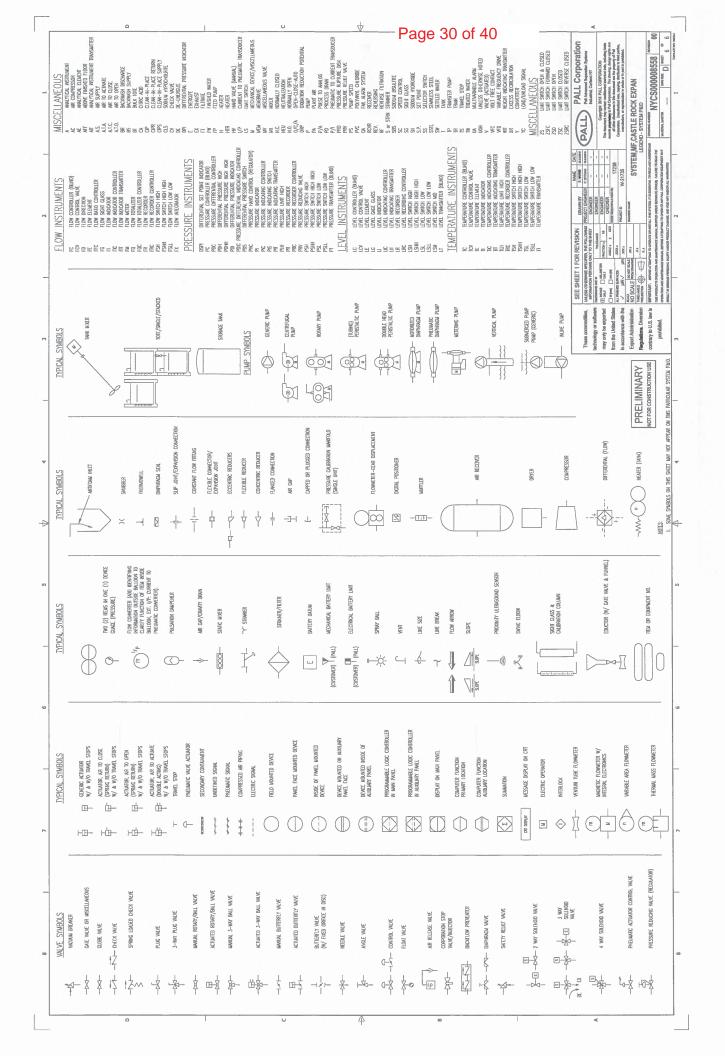




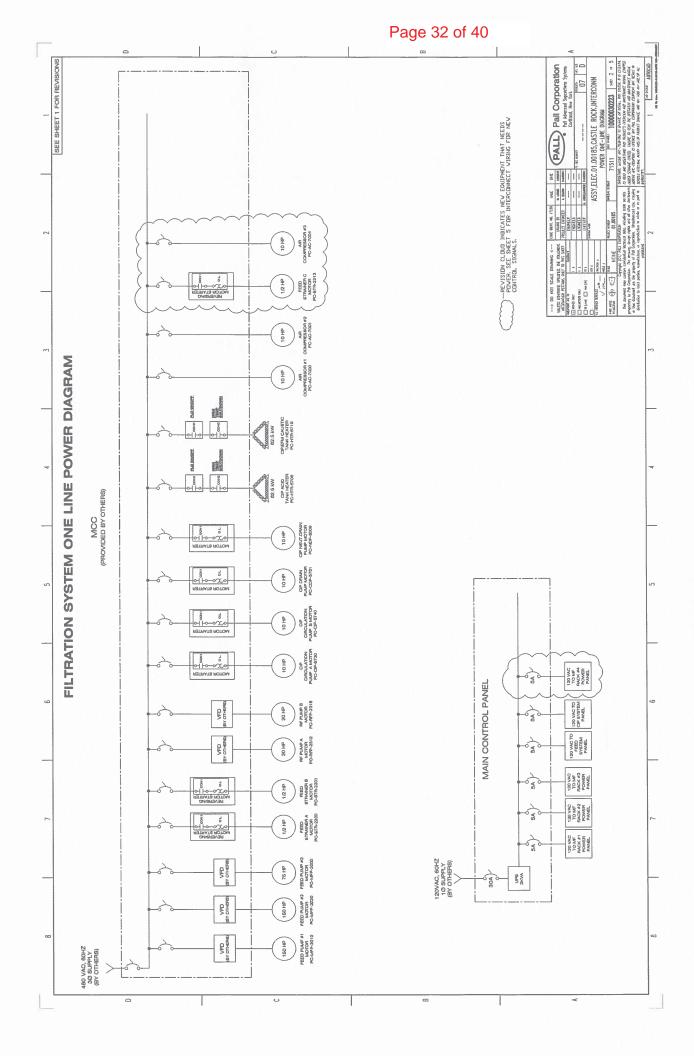


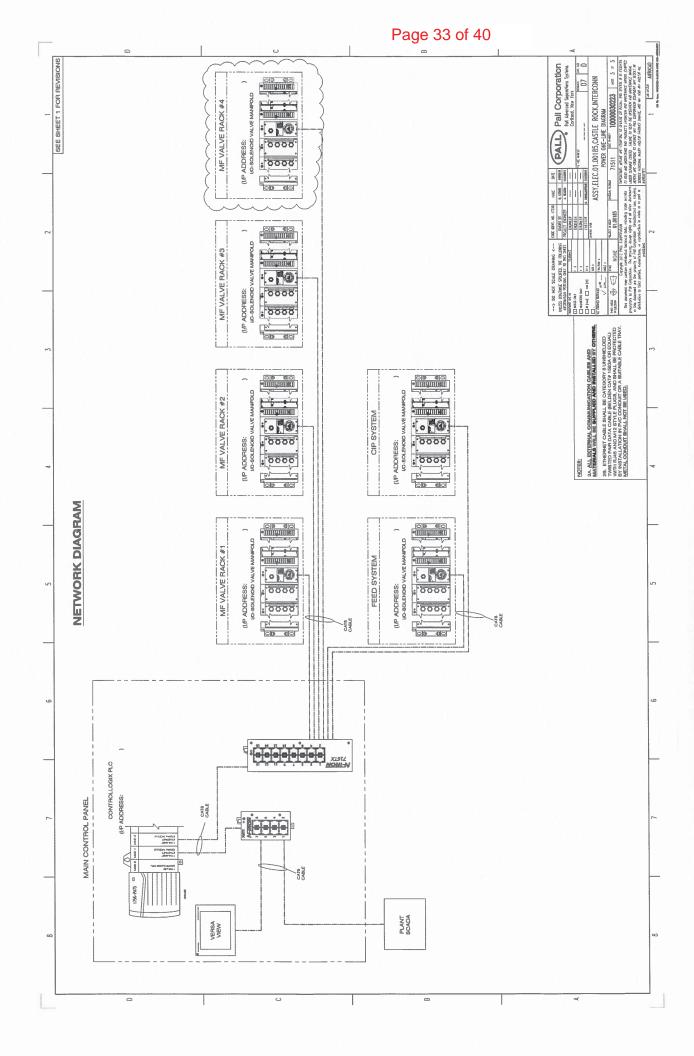


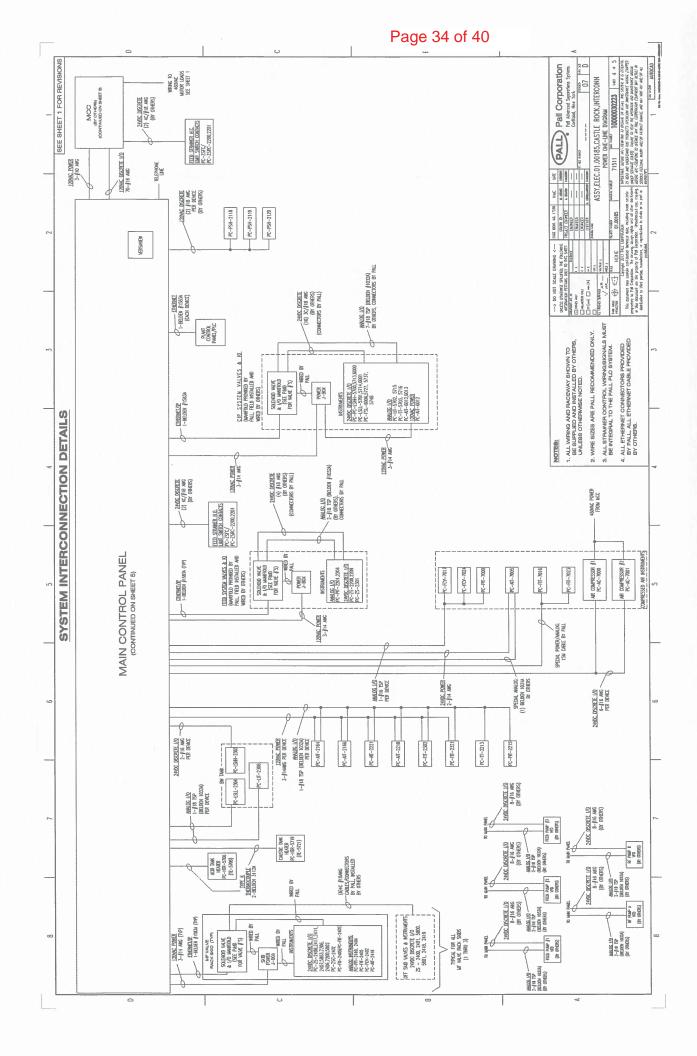


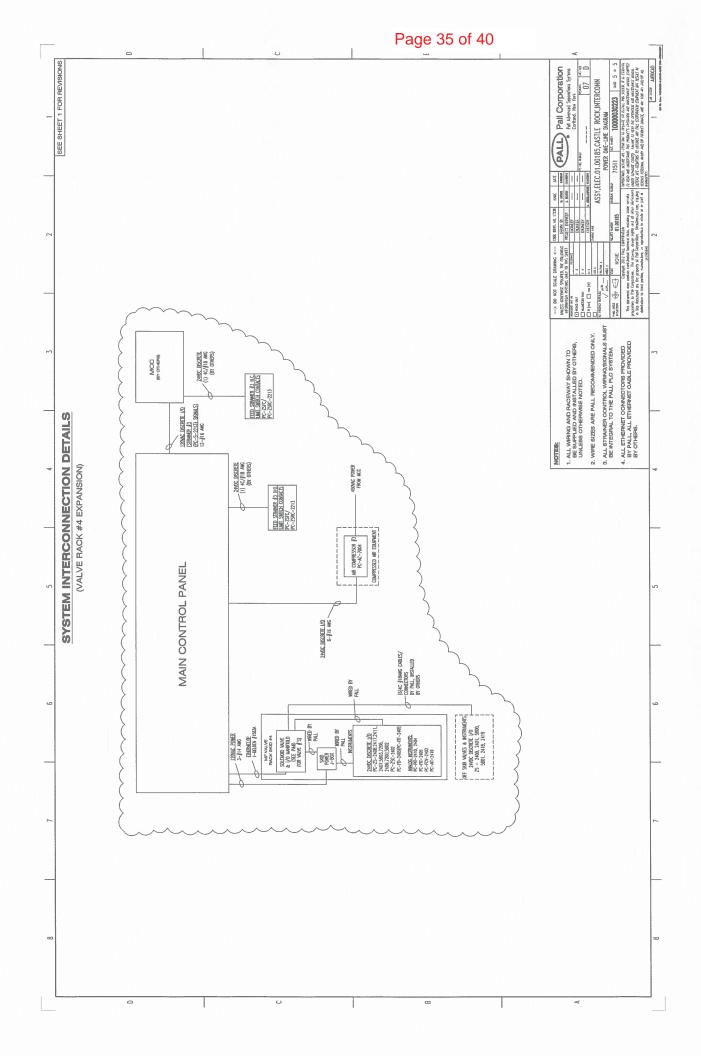


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#### Attachment B – Technical Exceptions and Clarifications

- SECTION 00 41 63 SCHEDULE OF COSTS
   Exception Not applicable to this system expansion.
- SECTION 01 43 34 SPECIAL SERVICES
   Exception Performance testing and training are not included in the scope of this proposal.
- SECTION 46 61 33 MEMBRANE FILTRATION EQUIPMENT FOR DRINKING WATER TREATMENT, 1.08 SCHEDULING Exception – schedule shall be as defined in this proposal.
- 2.06 MEMBRANE SYSTEM EQUIPMENT, Q. Extra Materials
   Clarification Extra materials are not applicable to the system expansion and are not included in the scope of this proposal.
- 2.09 SOURCE QUALITY CONTROL, B. Factory Tests
   Clarification since this is an expansion and not a complete system,
   unwitnessed Pall Standard Quality control tests in the factory have been
   included in the scope of this proposal. Functional testing in the field can be
   witnessed during commissioning and start-up.
- 3.03 FIELD QUALITY CONTROL, B 2 & 3
   Exception Initial Performance testing and Monitored Test Period are not included in the scope of this proposal.
- 3.04 MANUFACTURER'S SERVICES
   Exception These times are not applicable to the system expansion –
   Manufacturer's services are limited to that described in this proposal.
- SECTION 46 61 33.02 MEMBRANE FILTRATION EQUIPMENT FULL SCALE TESTING, 3.03 C & D
   Exception - Initial Performance testing and Monitored Test Period are not included in the scope of this proposal.

#### Attachment C – Commercial Exceptions and Clarifications

#### THE FOLLOWING CHANGES APPLY TO THE CONTRACT DOCUMENTS

#### **GENERAL EXCEPTIONS & CHANGES TO THE CONTRACT DOCUMENTS**

- 1. This Exceptions Document takes precedence over all other Contract Document
- 2. All references to Engineer and the associated responsibilities are null and void
- 3. Assignment clauses and document are null and void.
- 4. Bond clauses and documents are null and void.
- 5. Any schedules, effective dates, or other dates from the original contract documents are null and void.
- 6. The project schedule is per the Pall Proposal.

## CHANGES TO THE AGREEMENT FORM 00 52 63 ARTICLE 1.05 CONTRACT TIMES

Paragraphs B. C. & D are deleted.

Paragraph E. is deleted and replaced as follows:

Liquidated Damages: Buyer and Seller recognize time is of the essence of this Agreement and that Buyer will suffer financial loss if Goods are not delivered at the Point of Destination and ready for receipt of delivery by Buyer within times specified in Seller's proposal Section 2.3 Delivery Schedule - Delivery of Membrane Rack, plus any extensions thereof allowed in accordance with Article 7 of the General Conditions. The parties also recognize timely performance of services by others involved in the Project are materially dependent upon Seller's specific compliance with requirements specified in Delivery Further, they recognize the delays, expense, and difficulties involved in proving actual loss suffered by Buyer if complete acceptable Goods are not delivered on time. Accordingly, instead of requiring such proof, Buyer and Seller agree that as liquidated damages for delay (but not as a penalty) Seller shall pay Buyer amounts as indicated in Seller's Proposal Section 2.3 Delivery Schedule:

- o Submittal of documents \$500/day for late delivery
- o Delivery of Membrane Rack \$1000/day for late delivery
  The liquidated damages set forth in this Article 1.05 shall constitute the Buyer's
  sole and exclusive remedy for delay by Seller in achieving completion of the work

within the time specified. Seller's obligation to pay liquidated damages pursuant to this Article shall not exceed ten percent (10%) of the Seller's contract price.

**ARTICLE 1.07 PAYMENT PROCEDURES** – This section is deleted along with Section 10 of the General and Supplementary Conditions. Payments are due Net 30 from Seller's invoice. Progress Payments/Payment Milestones are per Seller's proposal Section 2.4.

#### **ARTICLE 1.10 CONTRACT DOCUMENTS**

Paragraph A. is changed as follows:

Contents: The following Contract Documents are attached to this Agreement (except as expressly noted otherwise herein):

- 1. This Agreement, including all Attachments;
- 2. General Conditions;
- 3. Supplementary Conditions;
- 4. Specifications as listed in Table of Contents, as modified by Seller's proposal Sections 2.4 & 3, and Attachment B Technical Exceptions and Clarifications.
- 5. Addenda
- 7. Exhibits to this Agreement (enumerated as follows):
  - a. Seller's Proposal # 110021-08122016-02
- 8. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
- a. Notice to Proceed
- b. Written Amendment(s);
- c. Change Order(s);
- d. Field Order(s);

# CHANGES TO: STANDARD GENERAL CONDITIONS FOR PROCUREMENT CONTRACTS 00 72 05 (GC), and SUPPLEMENTARY CONDITIONS 00 73 05 (SC)

#### **ARTICLE 2**

2.07 Prelim conference. Delete in its entirety.

#### **ARTICLE 3**

3.01 C. Clarifications and interpretations will be provided via the Buyer.

#### **ARTICLE 4**

4.02 Pall will provide the following endorsements to Buyer & Owner under its general liability policies, as applicable. Additional insured, Primary

#### **ARTICLE 5**

5.05 Taxes. Delete in its entirety.

5.06 Shop Drawings. Delete in its entirety. Submittals (Shop Drawings) will be per the Pall Proposal.

#### **ARTICLE 6**

6.03 Risk of Loss – Paragraph A. Change to read: Risk of loss, title, and insurable interests transfer from Seller to Buyer upon Delivery of the Goods.

#### **ARTICLE 7**

7.01 Add paragraph D. as follows. In no event will Seller be obligated to implement any changes in the scope of work until both Seller and Buyer have agreed to the changes in writing.

7.03 B. Delete the SC change and reinstate the GC terms (allowing 15 days for notification in the event delays by others affect Seller's performance)

7.03 D. Revise to read: If Seller is prevented from delivering the Goods or furnishing the Special Services within the Contract Times due to the actions or inactions of Buyer, Seller shall be entitled to an increase in the Contract Price by 1% for every month or partial month of such delay and this Contract shall be construed as if the increased Contract Price were originally inserted herein, and Buyer shall be billed by Seller on the basis of such increased Contract Price

# **ARTICLE 8 BUYER'S RIGHTS** – Delete in its entirety and replace with the following provisions:

Inspections, Test and Final Acceptance are as designated in the technical specification as modified by the Pall Proposal.

Any rejection of Goods (of parts thereof) for being nonconforming must be made within 10 calendar days after their delivery at the place of destination by immediately notifying Seller and confirming the rejection in writing; otherwise the Goods are considered accepted.

If Buyer elects to permit the Seller to modify the Goods to correct the nonconformance, then Seller shall promptly provide a schedule for such modifications and shall make the Goods conforming within a reasonable time. Instead of requiring correction or removal and replacement of non-conforming Goods discovered either before or after final payment, Buyer may accept the nonconforming Goods and Buyer and Seller will negotiate an adjustment in the Contract Price to account for such nonconforming Goods.

#### **ARTICLE 9 ROLE OF ENGINEER -** Delete in its entirety

#### **ARTICLE 10 PAYMENT -** Delete in its entirety

#### **ARTICLE 11**

11.02 B. 2. a. Change "seven" days to "thirty" days

#### **ARTICLE 12**

12.01 A. Delete: "However, in the event the Seller is manufacturing to Buyer's design, Buyer retains all intellectual property rights in such design."

#### **ARTICLE 14**

14.04 Cumulative Remedies – Add to beginning of 1<sup>st</sup> sentence: "Except as expressly set forth herein..."

#### **ADD ARTICLES:**

14.07 No Waiver

A. No waiver by either party of any of the provisions of this Contract is effective unless explicitly set forth in writing and signed by such party. A party's failure to exercise, or to delay in exercising, any right, remedy, power or privilege arising from this Contract, or failure to insist on strict performance of the terms and conditions set forth herein shall not operate as or be construed as a waiver by such party.

- 14.08 No Third Party Beneficiaries
- B. This Contract is for the sole benefit of the parties hereto and their respective successors and permitted assigns and nothing herein, express or implied, is intended to or shall confer upon any other person or entity any legal or equitable right, benefit or remedy of any nature whatsoever under or by reason of this Contract.