East Fork WWTP

Final Design Review (FDR)

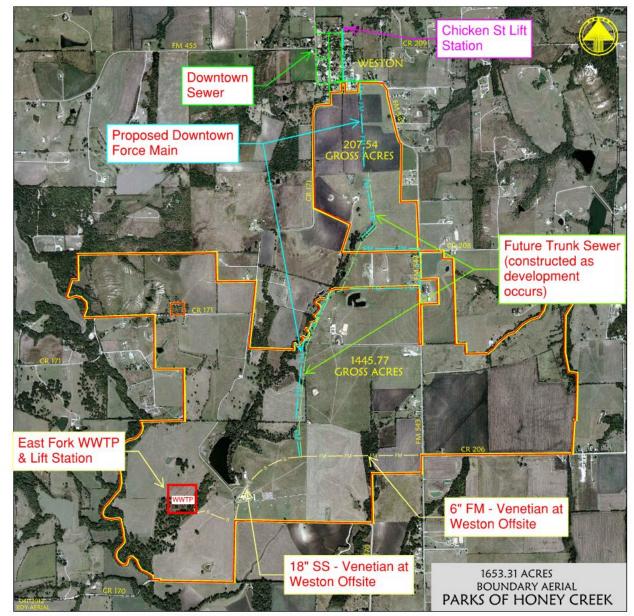


Agenda

- Project Overview/Summary
- Permit Requirements
- Final Plan Review
- Operations Cost
- Next Steps



Project Overview



East Fork WWTP & Lift Station

Trunk Sewer & Downtown Wastewater collection system (Chicken St Lift Station)

By Developer - On Site Lift Station & Collection System (Venetian at Weston Offsite)



Permit Requirements

- Permit WQ0015565001
 - Expires June 26, 2024
- Proposed Phase 1 (Interim I)
 - ▶ 0.25 MGD
 - ▶ 10 mg/l CBOD₅
 - ▶ 15 mg/l TSS
 - \blacktriangleright 3 mg/l NH₃-N
 - 1.0-4.0 mg/l Cl₂ Residual
 - ▶ 5.0 mg/l DO

- Future Phase 2(Interim II) Future Phase 3 (Final)
 - ▶ 1.25 MGD
 - ▶ 10 mg/l CBOD₅
 - 15 mg/l TSS
 - \blacktriangleright 2 mg/l NH₃-N
 - Dechlorinate
 - 1.0 mg/l TP
 - ▶ 5.0 mg/l DO

- - ▶ 2.5 MGD
 - 7 mg/l CBOD₅
 - 15 mg/l TSS
 - 2 mg/l NH_3 -N
 - Dechlorinate
 - ▶ 0.5 mg/l TP
 - ▶ 6.0 mg/l DO



Permit Requirements

- Permit WQ0015565001
 - Expires June 26, 2024
- Proposed Phase 1 (Interim I)
 - ▶ 0.25 MGD
 - ▶ 10 mg/l CBOD₅
 - ▶ 15 mg/l TSS
 - \blacktriangleright 3 mg/l NH₃-N
 - ▶ 1.0-4.0 mg/l Cl₂ Residual
 - ▶ 5.0 mg/l DO

- Future Phase 2(Interim II) Future Phase 3 (Final)
 - ▶ 1.25 MGD
 - ▶ 10 mg/l CBOD₅
 - 15 mg/l TSS
 - \blacktriangleright 2 mg/l NH₃-N
 - Dechlorinate
 - 1.0 mg/l TP
 - 5.0 mg/l DO

- - ▶ 2.5 MGD
 - 7 mg/l CBOD₅
 - 15 mg/l TSS
 - 2 mg/l NH_3 -N
 - Dechlorinate
 - ▶ 0.5 mg/l TP
 - ▶ 6.0 mg/l DO





LOCATION MAP

	Sheet List Table			
Sheet Number				
G.1.0	COVER SHEET			
G.2.0	GENERAL NOTES			
G.3.0	HYDRAULIC PROFILE			
G.4.0	PROCESS FLOW DIAGRAM			
C.1.0	PROPOSED SITE PLAN			
C.2.0	DIMENSION CONTROL PLAN			
C.3.0	YARD PIPING			
C3.1	PIPE PROFILES			
C.4.0	CIVIL DETAILS			
C.4.1	CIVIL DETAILS			
C.4.2	CIVIL DETAILS			
M.1.0	BAR SCREEN & LIFT STATION PLAN			
M.1.1	BAR SCREEN & LIFT STATION SECTION VIEW			
M.1.2	DETAILS			
M.1.3	DETAILS			
M.2.0	TREATMENT UNIT PLAN			
M.2.1	TREATMENT UNIT SECTION			
M.3.0	CHLORINATOR ROOM & EQUIPMENT			
M.4.0	FILTRATE PUMP LIFT STATION			
M.6.0	SLUDGE ROOM, BLOWERS AND ELECTRICAL ROOM PLAN			
M.6.1	SLUDGE ROOM, BLOWERS AND ELECTRICAL ROOM SECTIONS			
M.7.0	NON-POTABLE WATER SYSTEM			
M.8.0	SLUDGE DEWATERING UNIT PLAN			
A.1.1	FLOOR PLAN AND ROOF FRAMING			
A.2.1	ELEVATIONS			
A.3.1	BUILDING SECTIONS			
A.4.1	WALL SECTIONS			
A.5.1	DETAILS			
S.1.0	BAR SCREEN & LIFT STATION PLAN			

S.1.1	BAR SCREEN & LIFT STATION SECTION VIEW
S.2.0	TREATMENT UNIT PLAN & SECTION
S.2.1	TREATMENT UNIT DETAILS
S.6.0	SLUDGE ROOM, BLOWERS & ELECTRICAL ROOM PLAN
S.6.1	SLUDGE ROOM. BLOWERS & ELECTRICAL ROOM SECTIONS
S.8.0	SLUDGE DEWATERING UNIT PLAN & SECTIONS
S.9.0	STRUCTURAL DETAILS
E.1.0	STANDARD ELECTRICAL SYMBOLS, ABBREVATIONS & GEN. NOTES
E.2.0	OVERALL SITE PLAN
E.3.0	ONE LINE DIAGRAM
E.4.0	ONE LINE DIAGRAM
E.5.0	ENLARGED SITE PLAN
E.6.0	ENLARGED SITE PLAN
E.7.0	ENLARGED SITE PLAN
E.8.0	SCHEDULES
EY.1.0	ELECTRICAL SCHEMATICS
EY.2.0	ELECTRICAL SCHEMATICS
EY.3.0	ELECTRICAL SCHEMATICS
EY.4.0	ELECTRICAL SCHEMATICS
EY.5.0	ELECTRICAL SCHEMATICS
EY.6.0	ELECTRICAL SCHEMATICS
EY.7.0	INTERCONNECT DIAGRAM
EY.8.0	PANEL DIAGRAMS
EZ.1.0	DETAILS
EZ.2.0	DETAILS
	TXDOT DETAILS

CITY OF WESTON

EAST FORK WWTP

FOR REVIEW



MAYOR JIM MARISCHEN

ALDERMAN MARIA WHITWORTH KEVIN DEAL CAROL DECKER HEATHER RICHARDSON MIKE HILL

PRELIMINARY FOR REVIEW ONLY This document has been prepared for review only and shall not in any way be construct as a bidding or construction document. This document has been prepared inder the supervision of Mark D. Hill, P.E. #79468.

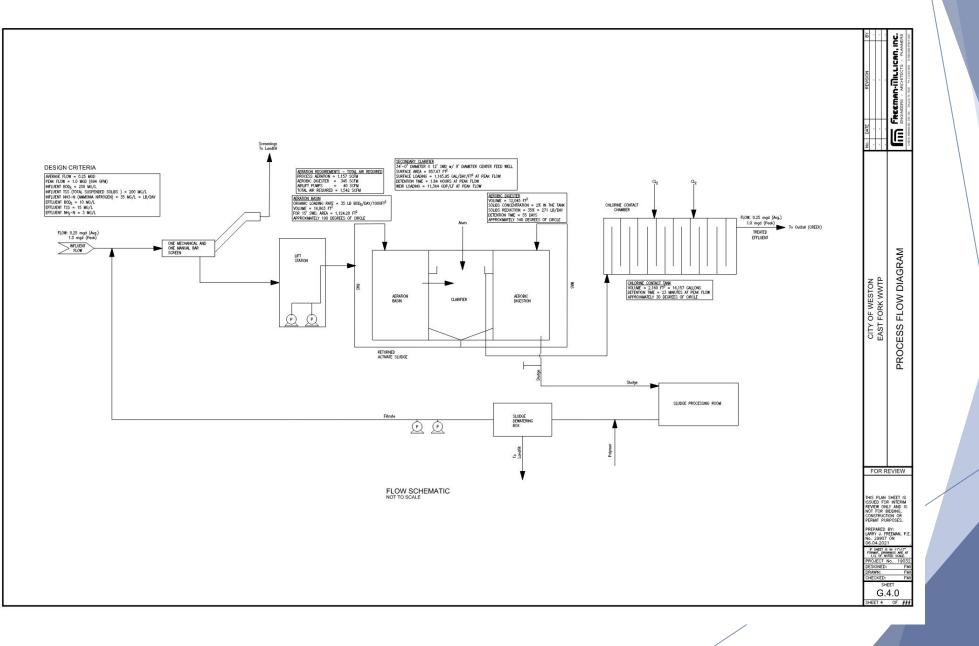
06.04.2021



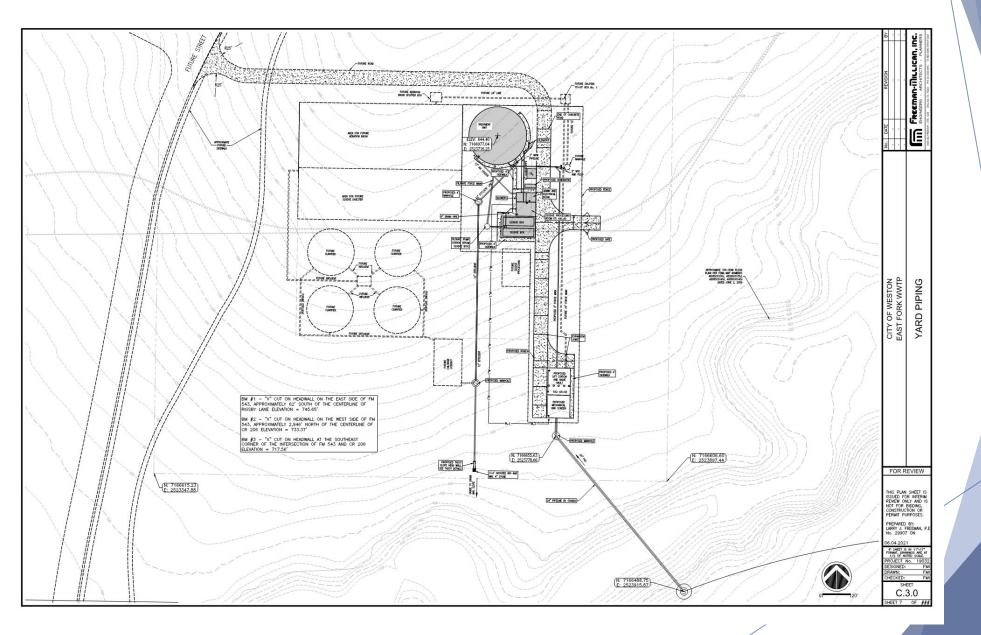
FMI PROJECT No. 19032 June 2021



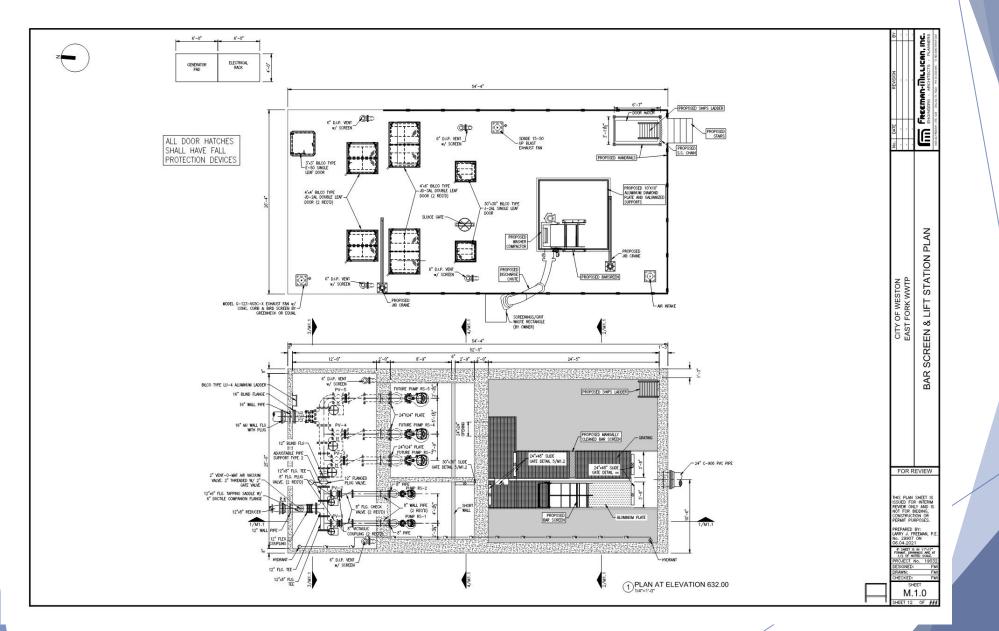




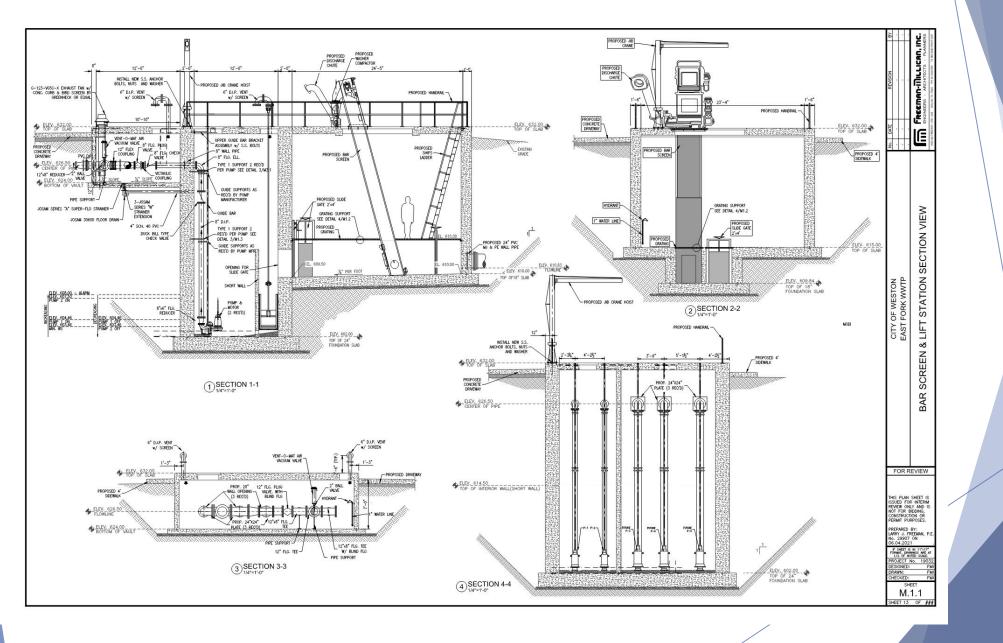




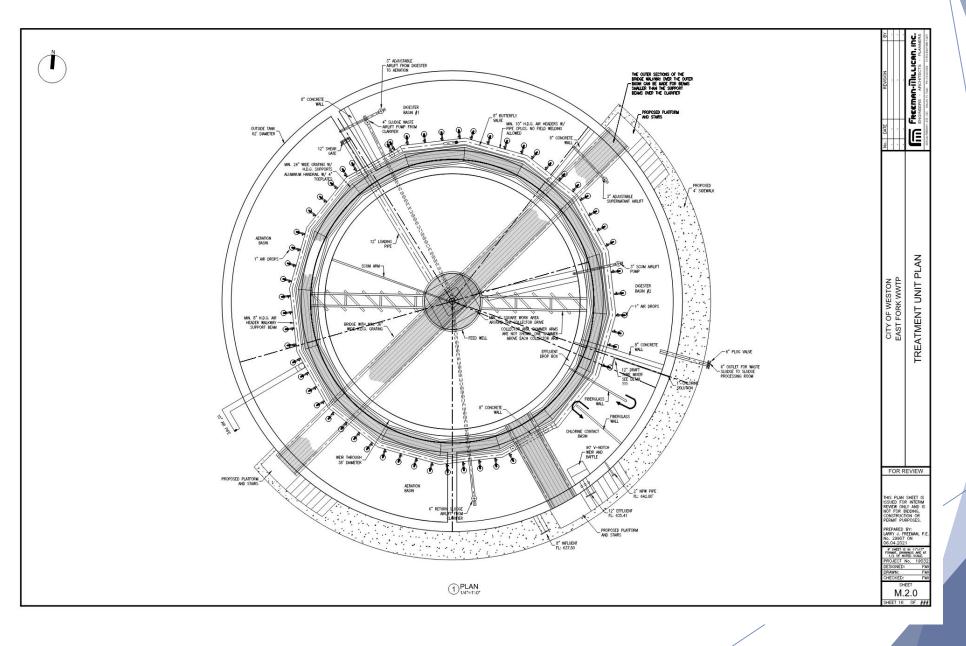




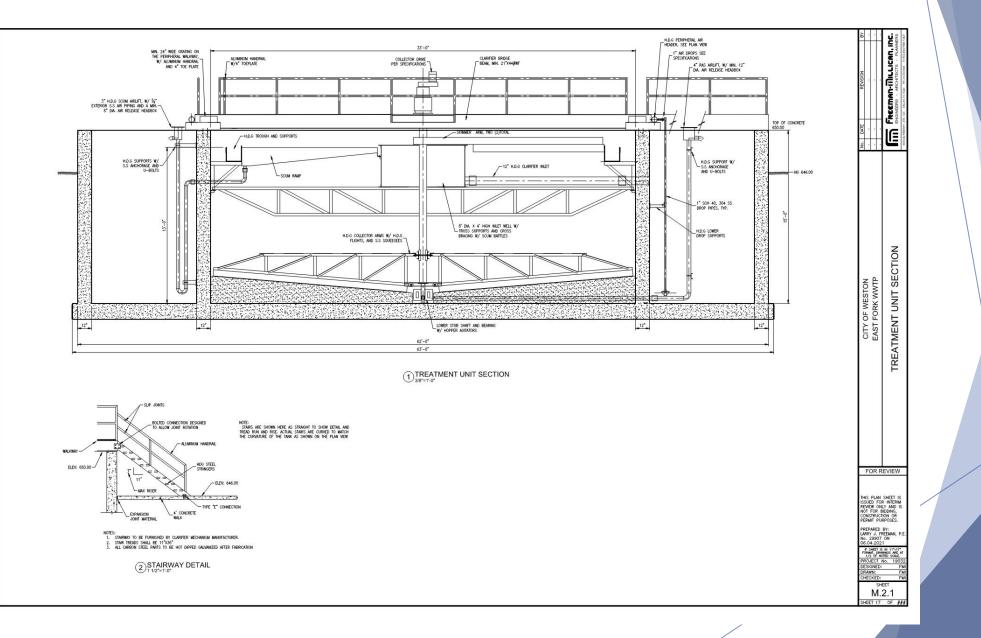




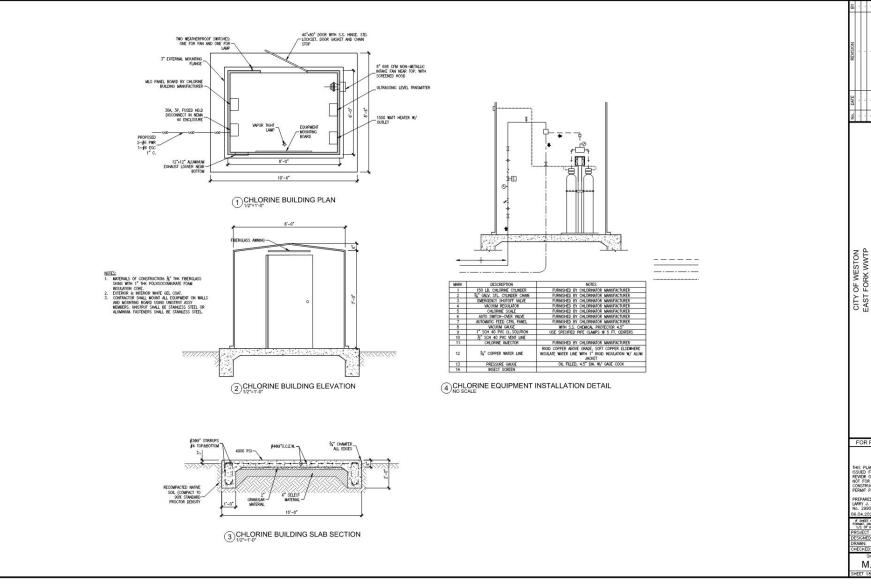






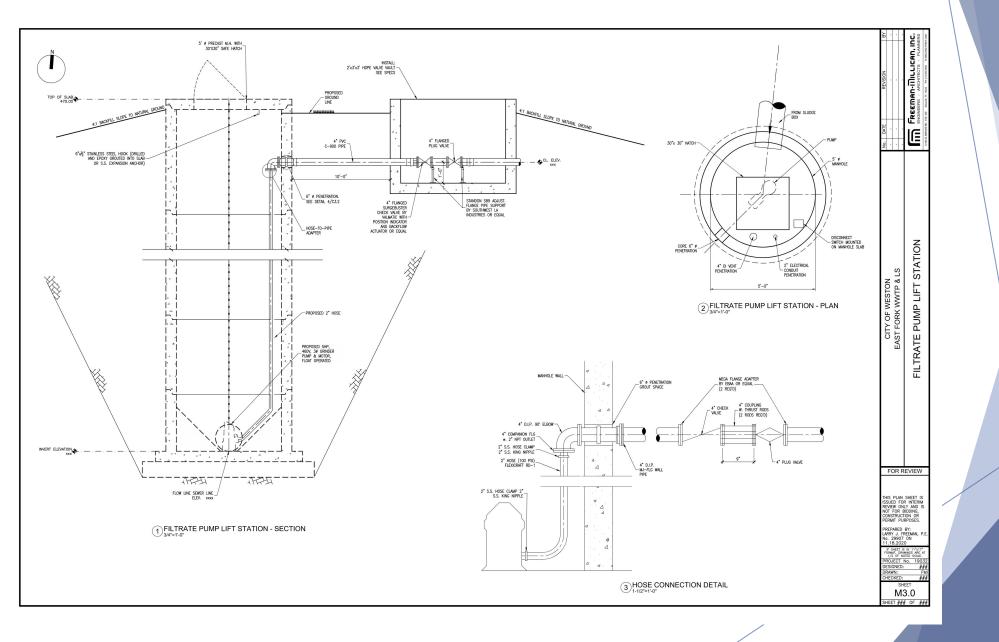




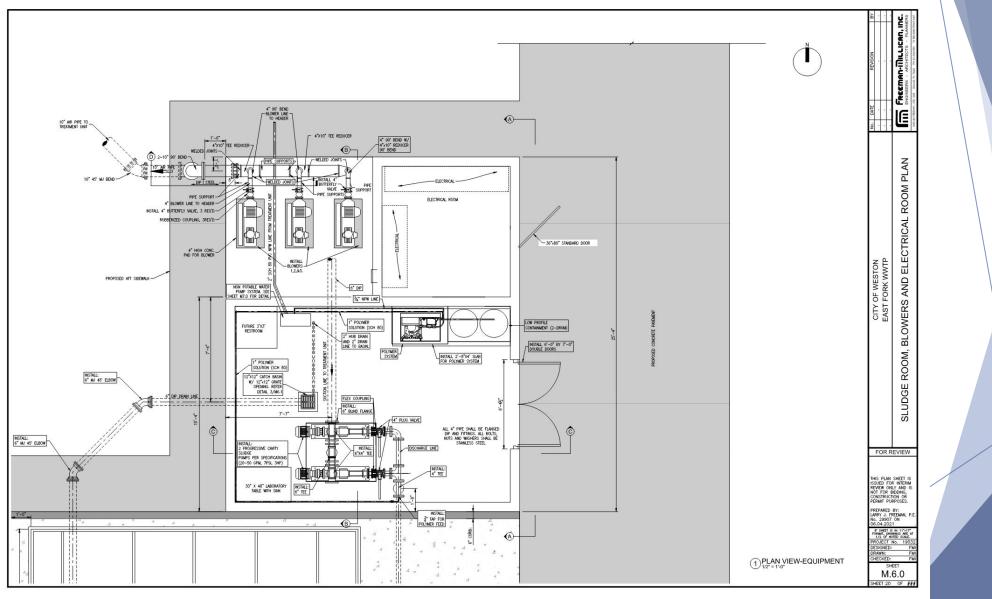




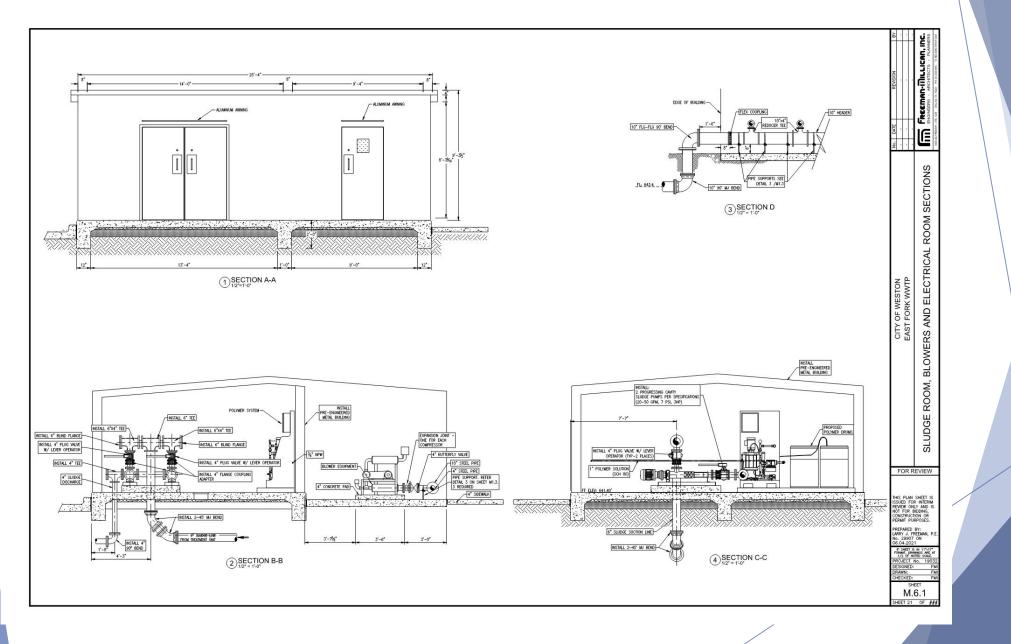




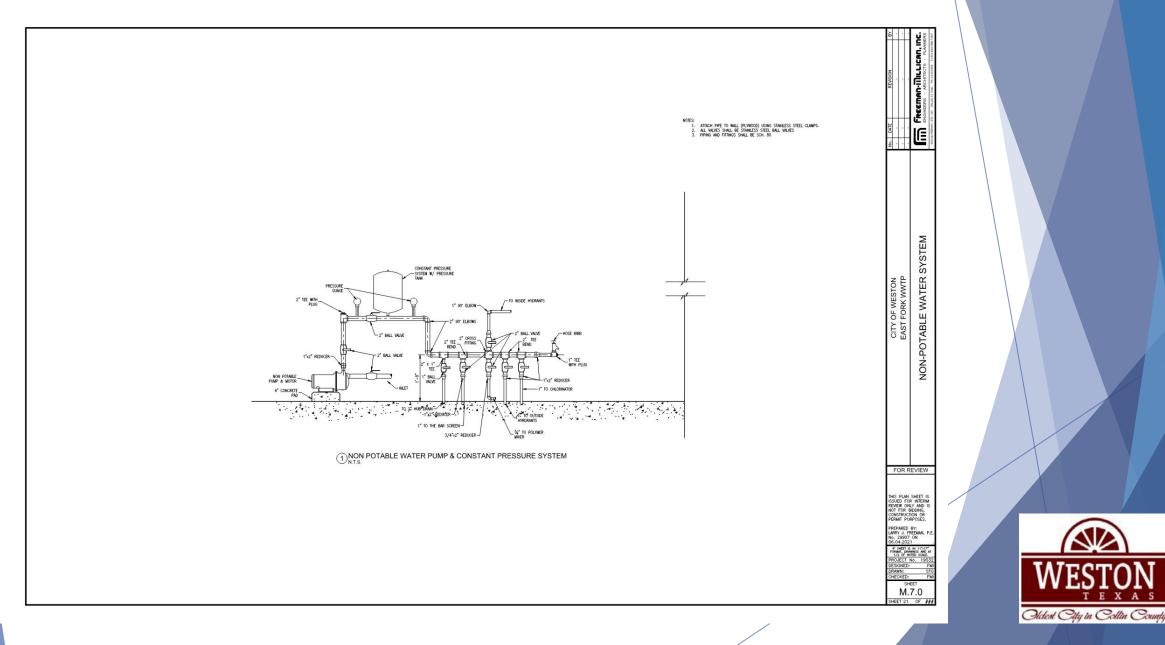


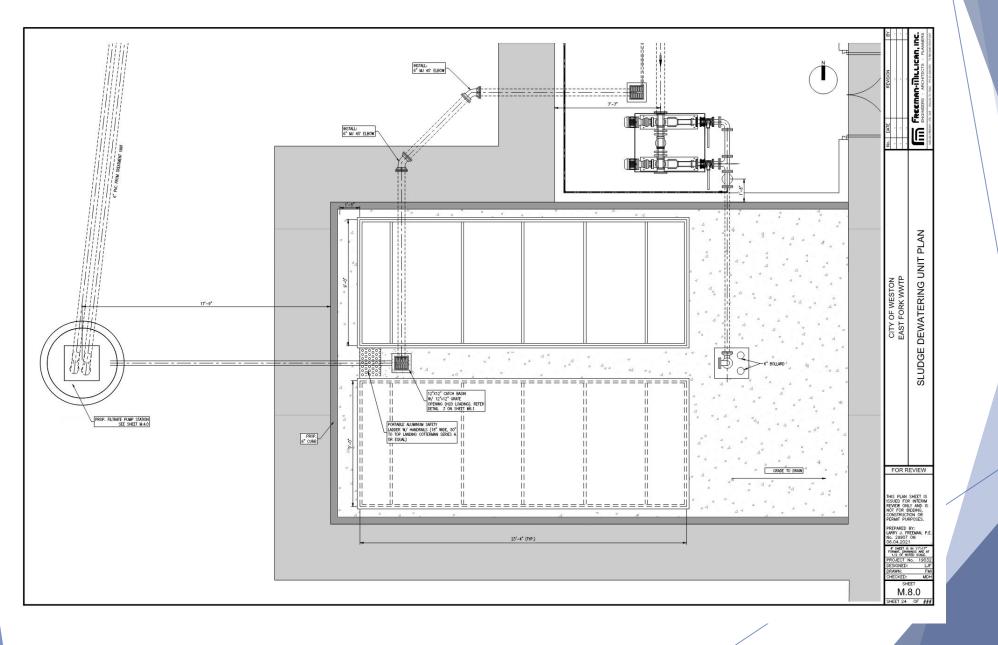




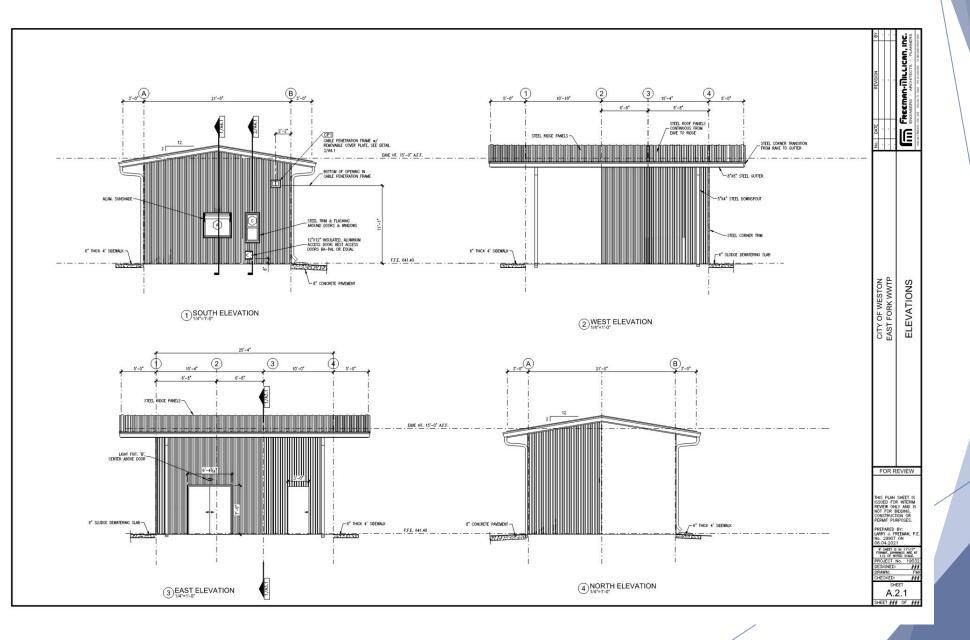


WESTON T E X A S Oldest City in Collin County

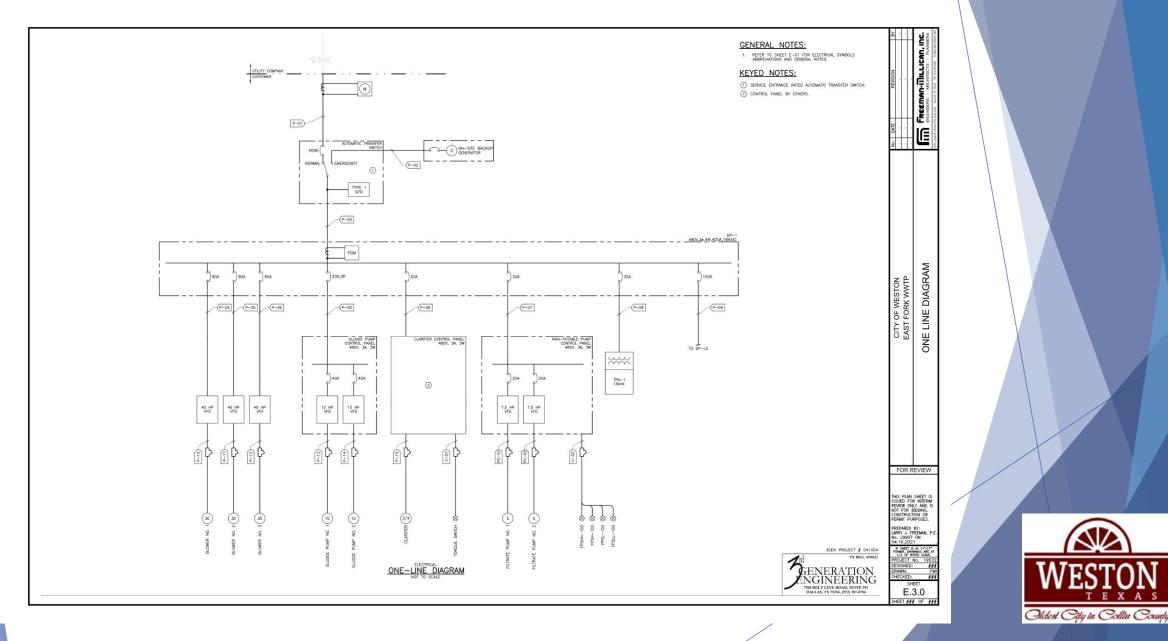


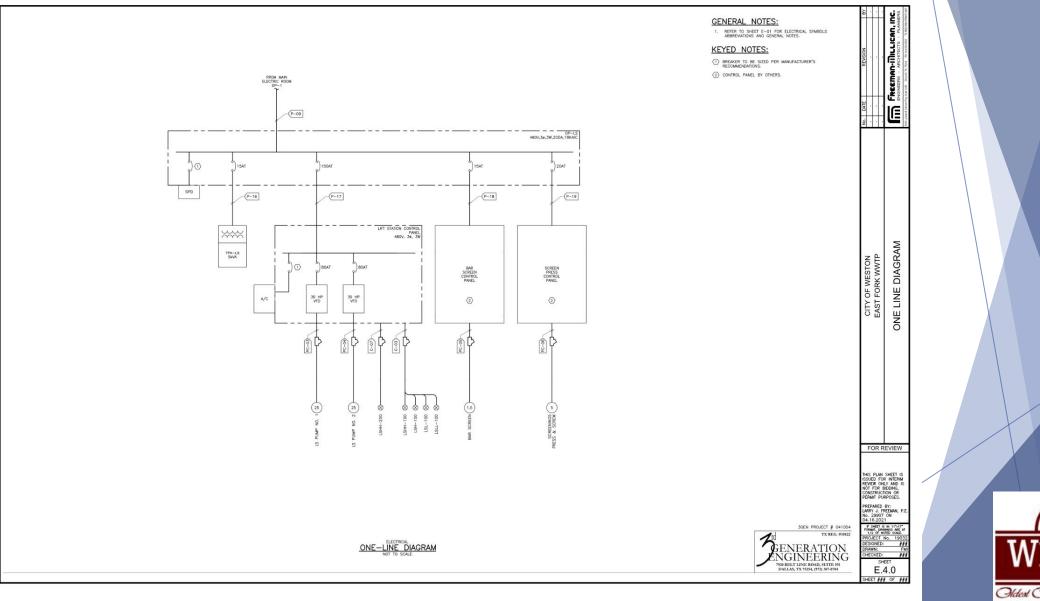




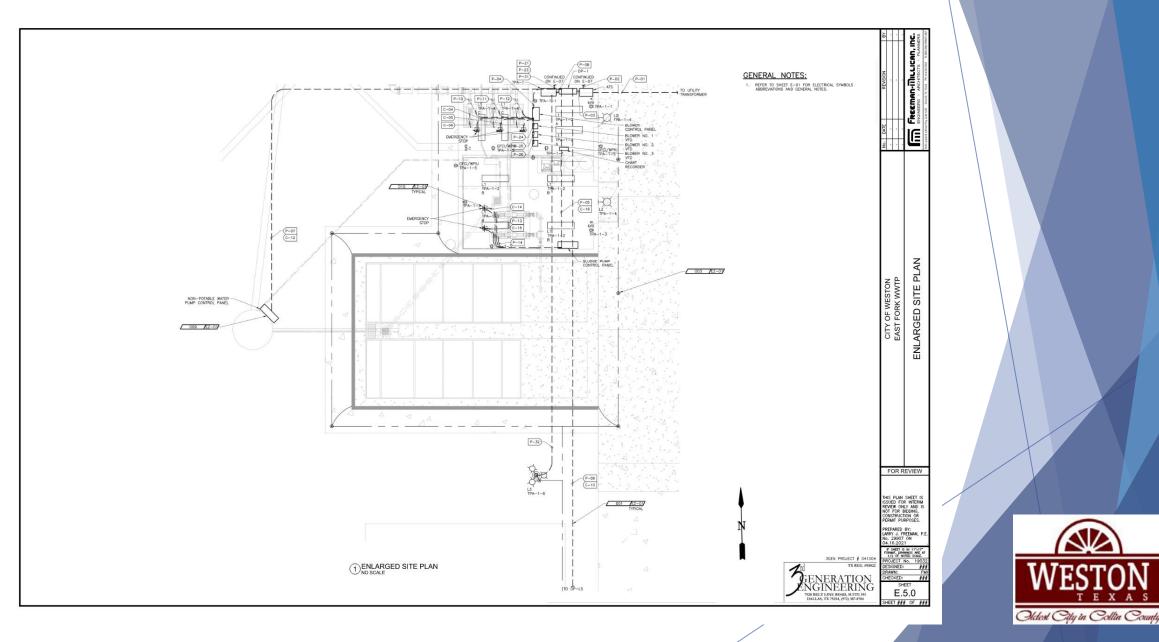


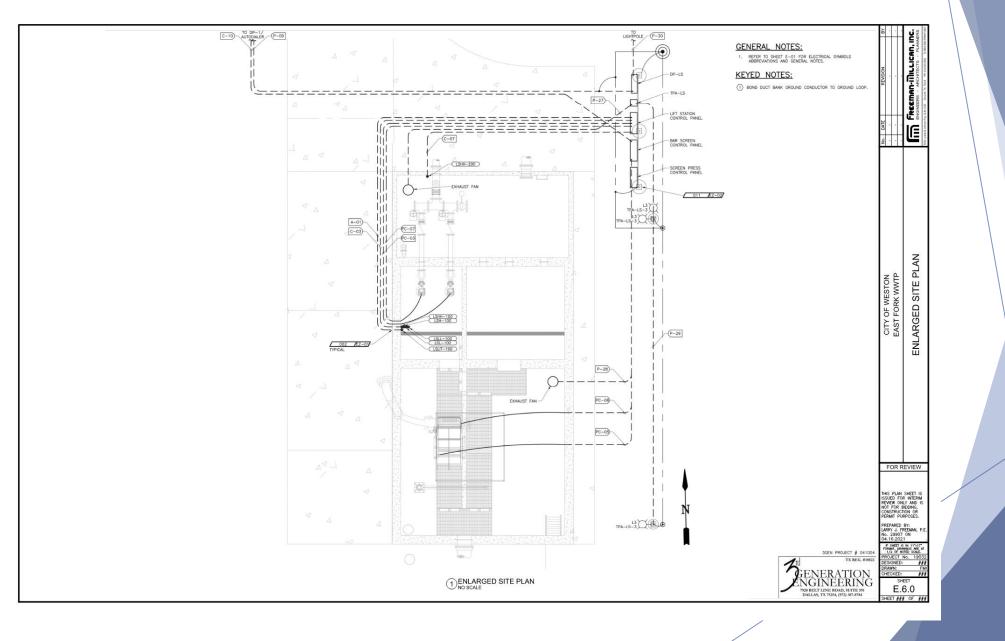




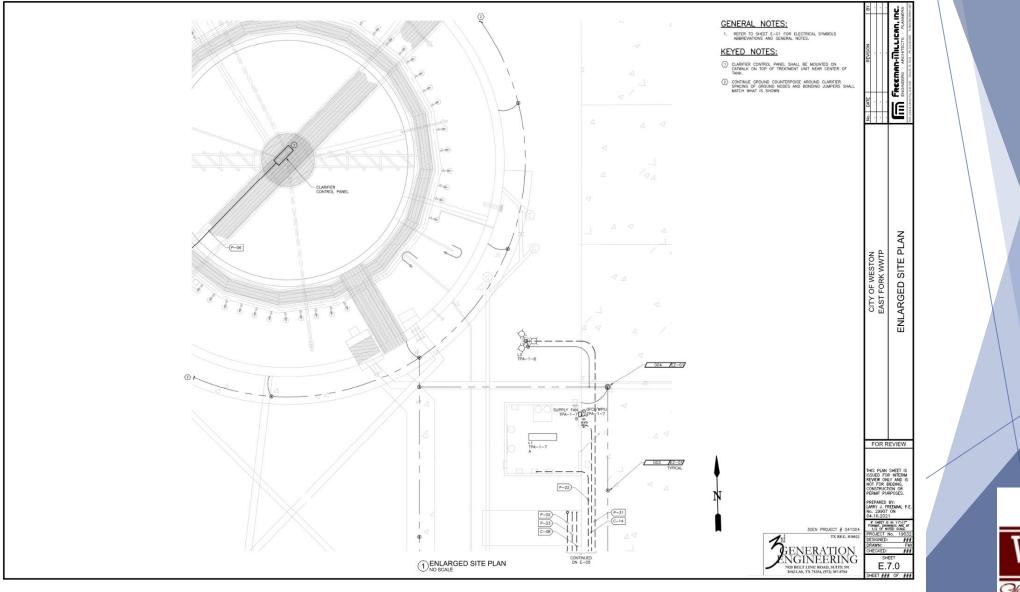


WESTON T E X A S Oldest City in Collin County











Operation & Maintenance Cost

East Fork WWTP – O&M Cost	
Category	Annual Budget
Personnel	\$ 70,000
Supplies (Chemicals, Other)	\$ 35,000
Other Services (Sludge Disposal, Maintenance, Support,)	\$ 90,000
Electrical	\$ 65,000
Annual Budget	\$ 260,000



Next Steps

East Fork WWTP - Schedule			
MILESTONE	Duration (Weeks)	Date (Week of)	
Final Design Review	3	6/10/2021	
Submit TCEQ Design Report	6	6/14/2021	
Advertise for Bids	4	6/28/2021	
Receive Bids	3	7/26/2021	
Receive TCEQ Approval	1	8/02/2021	
Award Bids	1	8/10/2021	
Begin Construction	2	8/30/2021	
End Construction	36 - 52	5/09/2022	8/29/2022

