



CITY OF BRISTOL, TENNESSEE
801 Anderson Street
P. O. Box 1189
Bristol, Tennessee 37621-1189

Department of Administration

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December 1, 2019

To: All Prospective Vendors
Bid No. 19040
Bristol Wastewater Treatment Plant
Final Clarifier 3 Mechanical Components Replacement

ADDENDUM #1

Consider this addendum as an integral part of the above referenced bid:

Bid Documents – Bid Pricing Sheet:

1. Replace the original Bid Pricing Sheet provided with a revised Bid Pricing Sheet included in this Addendum.

Bid Documents – Description of Requirements and Specifications:

Item #4 – Clarifier Replacement Information

1. Item #4, bullet point #1. Clarifier mechanical components shall be Walker Process Clarifier *or approved equal*.
2. Item #4, bullet point #1. Delete “platform.” Existing clarifier does not contain a platform and none is required.
3. Item #4, bullet point #6. Influent well shall be provided with a depth of 7’-0½” as shown on the clarifier drawing.
4. An Energy Dissipating Inlet (EDI) well shall be provided as shown on the existing equipment drawing. The EDI shall be 10’ diameter x 5’ depth.
5. “Attachment A – Coating Requirements” has been included in this Addendum.
6. Existing Final Clarifier 3 drawings are included with this addendum.

Additional Items:

1. Bidders who wish to visit the project site prior to the bid opening may do so by contacting Inframark at 423-989-5570.

All other specifications to remain the same. **Vendor is to acknowledge receipt of this addendum by initialing and returning the addendum notice with the return bid package.** Any questions regarding addendum submittal please contact this office.

As always, thank you for your interest in serving the City of Bristol, Tennessee.

City of Bristol, Tennessee
BID PRICING SHEET

Bid Reference No. 19040

Bristol Wastewater Treatment Plant
Final Clarifier 3 Mechanical Components Replacement

Total Price: \$ _____ (Price in Numbers)

_____ (Price in Words)

Non-Collusive Bid Statement: The undersigned bidder, having fully informed himself regarding the accuracy of the statements made herein, certifies that: (1) The bid has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment, or services described in the bid, designed to limit independent bidding or competition, and (2) The contents of the bid have not been communicated by the bidder or its employees or agents to any person not any employee or agent of the bidder or its surety on any bond furnished with the bid, and will not be communicated by any such person prior to the official opening of the bid.

Signature of Authorized Official

Name and Title (Printed)

Legal Name of Business

Physical Address

Mailing Address

Telephone Number

Fax Number

Email

Date

Attachment A
COATING REQUIREMENTS

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. This specification covers preparation of surfaces, performance and completion of painting of all surfaces as required by the drawings and as specified herein.
- B. All Materials delivered to job site shall be in original sealed and labeled containers of the paint manufacture.

1.02 ENVIRONMENTAL CONDITIONS

- A. Coatings shall be applied during good painting weather. Air and surface temperatures shall be within limits prescribed by the manufacture for the coating being applied and work areas shall be reasonably free of airborne dust at the time of application and while coating is drying.

1.03 ENVIRONMENTAL REGULATIONS

- A. All materials specified herein meet the current VOC Regulations and National AIM Regulations in effect. Shop applied materials to meet current HAPS requirements.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. All materials specified herein are manufactured by the TNEMEC Co., Inc., North Kansas City, Missouri (local contact 615-333-1000). These products are specified to establish standards of quality and are approved for use on this project.
- B. Equivalent materials of other manufacturers may be substituted on approval of the engineer. Requests for substitution shall include Manufacturer's literature for each product giving the name, generic type, descriptive information and evidence of satisfactory past performance. Submittals shall include the following performance data as certified by a qualified testing laboratory:

ASTM B117 - Method of Salt Spray (Fog) Testing

ASTM D149 - Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials of Commercial Power Frequencies

ASTM D3359 - Method for Measuring Adhesion by Test Tape

ASTM D3363 - Method for Film Hardness by Pencil Test

ASTM D4060 - Method for Abrasion Resistance of Organic coatings by the Taber Abraser

ASTM D4541 - Method for Pull-Off Strength of Coats Using Portable Adhesion Testers

ASTM 4585 - Practice for Testing the Water Resistance of Coatings Using Controlled Condensation

- C. Bidders desiring to use coatings other than those specified shall submit their proposal in writing to the engineer at least ten (10) days prior to the bid opening. Substitutions which decrease the film thickness, the number of coats applied, change the generic type of coating, or fail to meet the performance criteria of the specified materials will not be approved. Prime and finish coats of all surfaces shall be furnished by the same manufacturer.
- D. Colors, where not specified, shall be as selected by the engineer. All colors shall be certified lead free.
- E. Materials supplied by other manufacturers may be considered for substitution if the following prevailing conditions exist:
 - 1. Performance criteria of the specified materials are exceeded by the submitted alternate materials as listed in paragraph 2.01 and detailed on the technical data sheets of each specified product.
 - 2. The submittal must compare the performance criteria of the specified material with that of the submitted material and be documented in a side by side manner for the Engineer\Owner to review.
 - 3. Substitute materials must be for complete systems and not individual products combined with the specified materials and the performance criteria for all products within a system must meet or exceed the specified materials.
 - 4. Only one alternate submittal will be received for this specification and must be accompanied by a detailed statement of the sum to be added or deducted from the base bid should alternate materials be accepted.

PART 3 - EXECUTION

3.01 APPLICATION

- A. Materials shall be mixed, thinned and applied according to the manufacturer's printed instructions.

3.02 SURFACE PREPARATION

- A. Prepare surfaces in accordance with coating system's specifications. Touch up welds, burned and abraded areas with specified primer before applying field coats.
- B. Allow each coat to dry thoroughly before applying next coat.
- C. Finish coats shall be uniform in color and sheen without streaks, laps, runs, sags or missed areas. Primer and finish coats shall be furnished from the same Manufacturer to ensure compatibility.

3.03 ACCEPTANCE OF WORK

- A. All Surface Preparation and repairs shall be approved by the engineer/owner before primer is applied.
- B. Request acceptance of each coat before applying next coat.
- C. Correct work that is not acceptable and request re-inspection.

3.04 SYSTEM INSPECTION AND TESTING

- A. After application of each coating in the specified system and its surface has cured, measure its thickness with a properly calibrated Nordson Microtest Dry Film Thickness Gauge, or equivalent. Follow standard method for measurement of dry paint thickness with magnetic gauges as outlined in Society of Protective Coatings Specification SSPC-PA2
- B. Make as many determinations as needed to ensure the specified thickness values in each typical area. To all surfaces having less dry film thickness than specified, apply additional coat(s) at no extra cost to Owner to bring thickness up to specifications.
- C. Structural metals in immersion service that receive a protective coating system shall be checked with a low voltage holiday detector per coating manufacturers recommendation and NACE SPO -188 Standard Discontinuity (holiday) testing of new protective Coatings. All pinholes or defects shall be repaired in accordance with manufacturer's printed recommendations and then retested.
- D. Painting contractor shall permit Owner's Representative and/or paint & coating manufacturer (as requested by owner) to inspect his work for conformance to this specification. Owner reserves the right to reject all work that does not comply with this specification.

3.05 CLEANUP

- A. Remove and dispose of all rubbish or other unsightly material, in a legal manner, leaving the premises in a clean condition.

3.06 PAINTING SCHEDULE- STEEL

IMMERSION AND NON- IMMERSION SHOP COATINGS

Immersion areas Shop Surface Preparation: Remove all visible oil, grease, soil, dirt and other soluble contaminants in accordance with SSPC-SP1. The surface shall be abrasive blast cleaned to a Near White Finish in accordance with the recommended methods outlined in The Society for Protective Coatings Specification SSPC-SP10 (NACE No. 2). A Minimum surface profile of 2.0 mils is required.

Non-Immersion areas Shop Surface Preparation: Remove all visible oil, grease, soil, dirt and other soluble contaminants in accordance with SSPC-SP1. The surface shall be abrasive blast cleaned to a Commercial Finish in accordance with the recommended methods outlined in The Society for Protective Coatings Specification SSPC-SP6 (NACE

No. 3). A Minimum surface profile of 2.0 mils is required.

Immersion and Non-Immersion Shop Prime Coat: Immediately after abrasive blasting and before any rusting occurs, apply one coat of Tnemec Series 161-Color Tneme Fastcure at a dry film thickness of 3.0 to 5.0 mils.

IMMERSION AND NON-IMMERSION FIELD COATINGS

Field Spot Surface Preparation (damaged areas): All rusted, abraded and unpainted areas shall be power tool cleaned to bare metal in accordance with the recommended methods outlined in The Society for Protective Coatings Specification SSPC-SP11. A minimum surface profile of 2.0 mils is required.

Field Spot Prime Coat (damaged areas): Immediately after surface prep and before any rusting occurs, apply one coat of Tnemec Series 161-Color Tneme Fastcure at a dry film thickness of 3.0 to 5.0 mils. Feather edges into sound existing coatings.

Field Surface Preparation: Thoroughly and uniformly scarify all surfaces to be painted to dull all gloss and provide profile. Methods may include but not limited to hand sanding, sweep blasting with fine abrasive media or power tools.

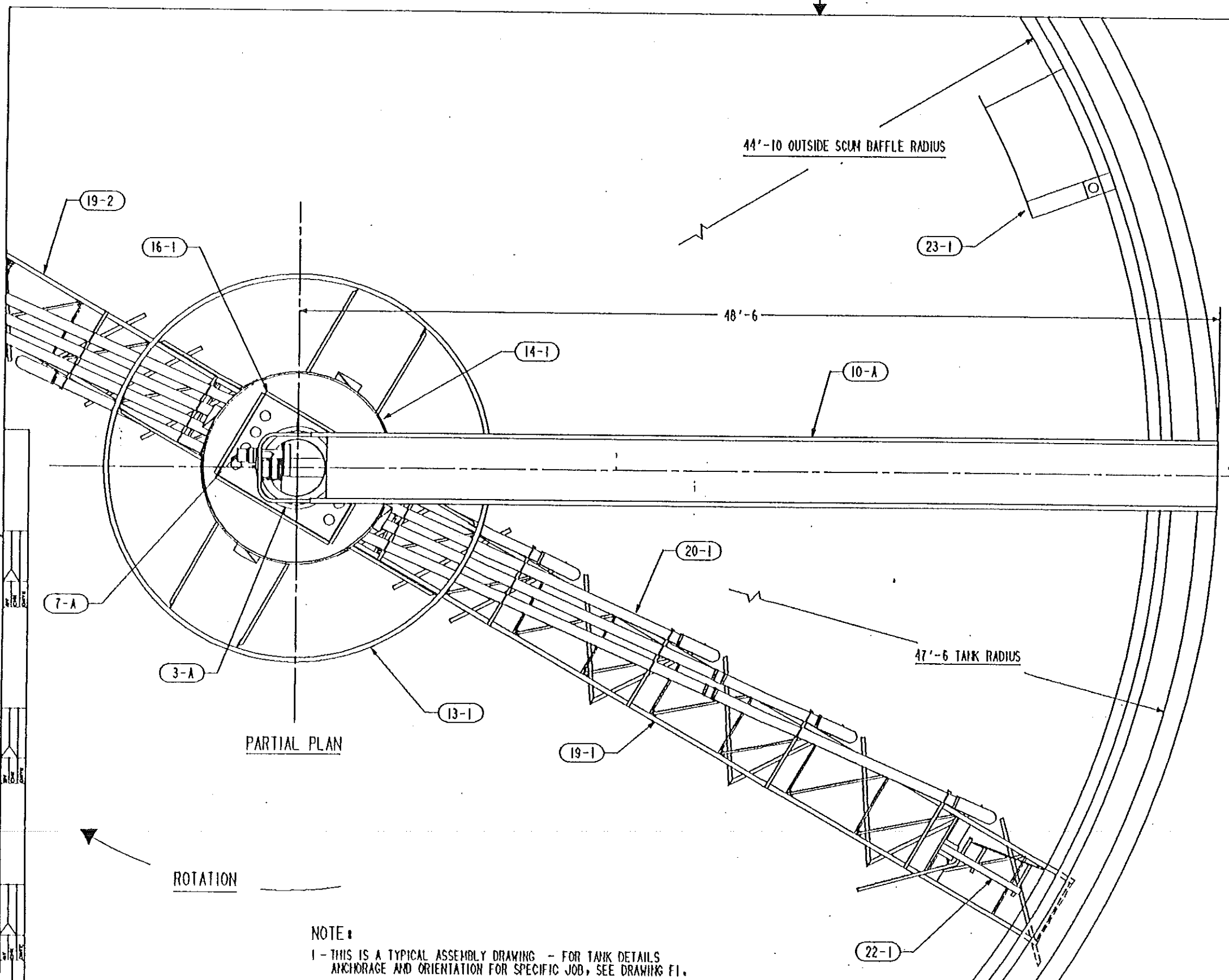
Field Stripe Coat: In areas of immersion, apply Tnemec Series 161-Color Tneme Fastcure to all weld seams by brush or roller.

Field Intermediate / Finish Coat: To all primed surfaces, Apply one complete coat of Tnemec Series 104-Color H.S. Epoxy applied at a dry film thickness of 6.0 to 8.0 mils.

Field Finish UV Resistant Coat: To all areas of non-immersion Apply one complete coat of Tnemec Series 290-Color CRU applied at a dry film thickness of 2.0 to 3.0 mils.

END OF SECTION

MARK NO.	DESCRIPTION
3-A	42 SPLR GEAR DRIVE ASSEMBLY
7-A	TORQUE INDICATOR BOX ASSEMBLY
10-A	TRUSS BRIDGE ASSEMBLY
11-1	CENTER PIER 3'-0 DIA.
12-1	DRIVE CAGE
13-1	INFLUENT WELL SEG. 1/8 R
14-1	CLARIFLOW WELL SEG. 1/8 R
15-1	PIER SEAL
16-1	SIGHT BOX
17-1	PIER SEAL
18-A	CLEVIS ROD ASSEMBLY
19-1&2	TRUSS ARM
20-1	SUCTION PIPE
21-1	SKIMMER SUPPORT
22-1	SKIMMER BOOM
23-1	SCUM BOX



PARTIAL PLAN

ROTATION

- NOTE:
- 1 - THIS IS A TYPICAL ASSEMBLY DRAWING - FOR TANK DETAILS ANCHORAGE AND ORIENTATION FOR SPECIFIC JOB, SEE DRAWING F1.
 - 2 - ALL FIELD WELDING TO BE DONE AFTER FINAL ALIGNMENT OF MECHANISM
 - 3 - TIP SPEED APPROX. 9.92 F.P.M., APPROX. .033 R.P.M.

ENGINEER-----EMPE, INC. CONSULTING ENGINEER
 SPEC. SECTION----11350
 NO. OF UNITS----(2) TWO
 APPLICATION----FINAL CLARIFIER
 DESIGN FLOW/BASIN IN (mgd) AVERAGE MAXIMUM
 INFLUENT TOTAL 3.75 6.5
 R.A.S. 3.75 3.75

CAD FILE: BIT01

BY		DATE	
CHKD		DATE	
DATE			
BY		DATE	
CHKD		DATE	
DATE			
REVISION		REVISION	

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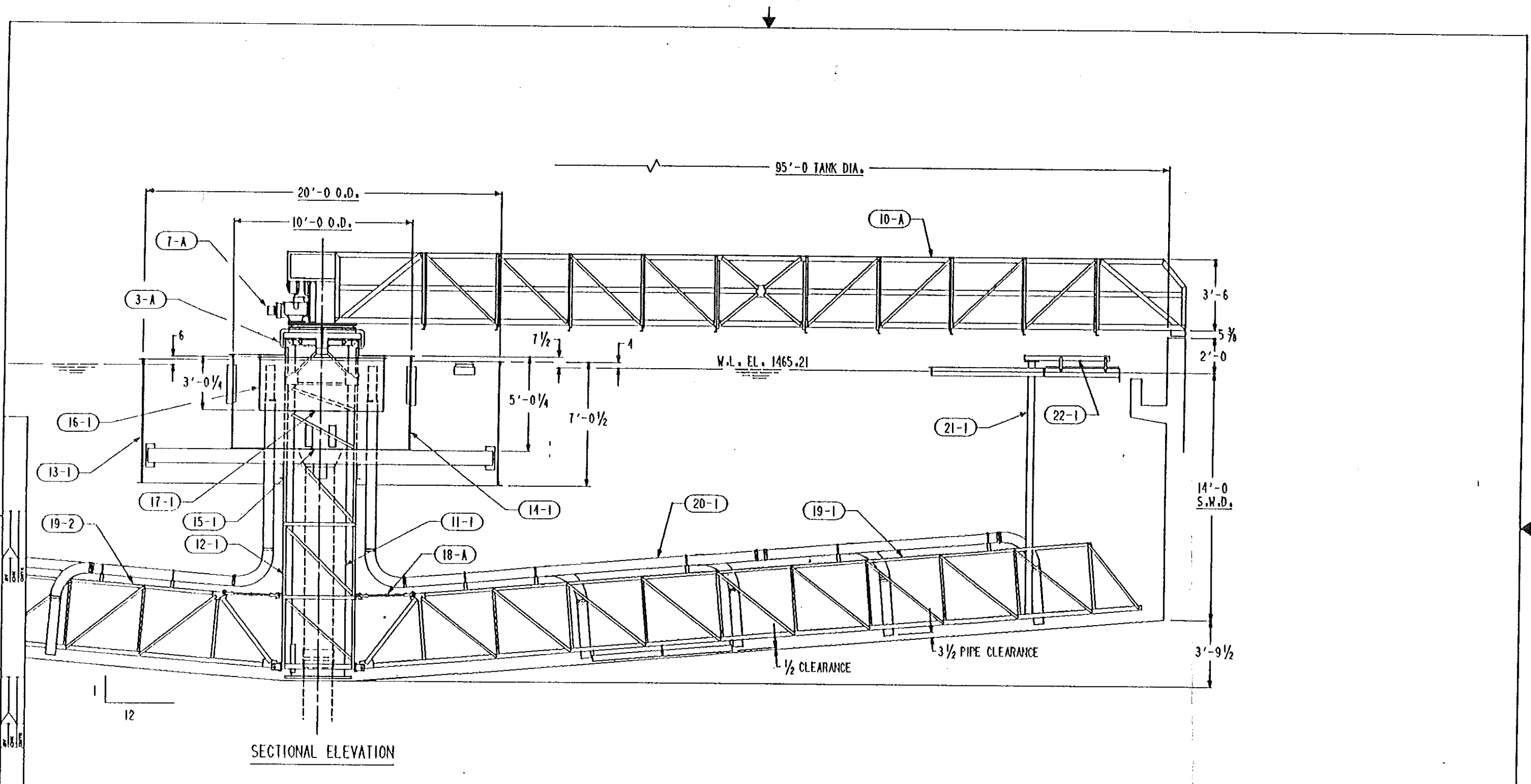
DATE	BY
3-12-87	CR
6-25-87	RAZ
FILE	APPENDIX



Walker Process Corporation
 AURORA, ILLINOIS U.S.A.
GENERAL PLAN
 CIRCULAR COLLECTOR TYPE "SWP"
 BRISTOL, TENN.

CONTRACT W2022 rev 1

CAD FILE: BT702



SECTIONAL ELEVATION

ENGINEER-----EMPE, INC. CONSULTING ENGINEER
 SPEC. SECTION---11350
 NO. OF UNITS---(2) TWO
 APPLICATION----FINAL CLARIFIER
 DESIGN FLOW/BASIN IN. (mgd) AVERAGE MAXIMUM
 INFLUENT TOTAL 3.75 6.5
 R.A.S. 3.75 3.75

BY	CHWD	
DATE		
BY	CHWD	
DATE		
BY	CR	MAX. RAS WAS 3.2
DATE	5-19-87	
	REVISIONS	REMARKS

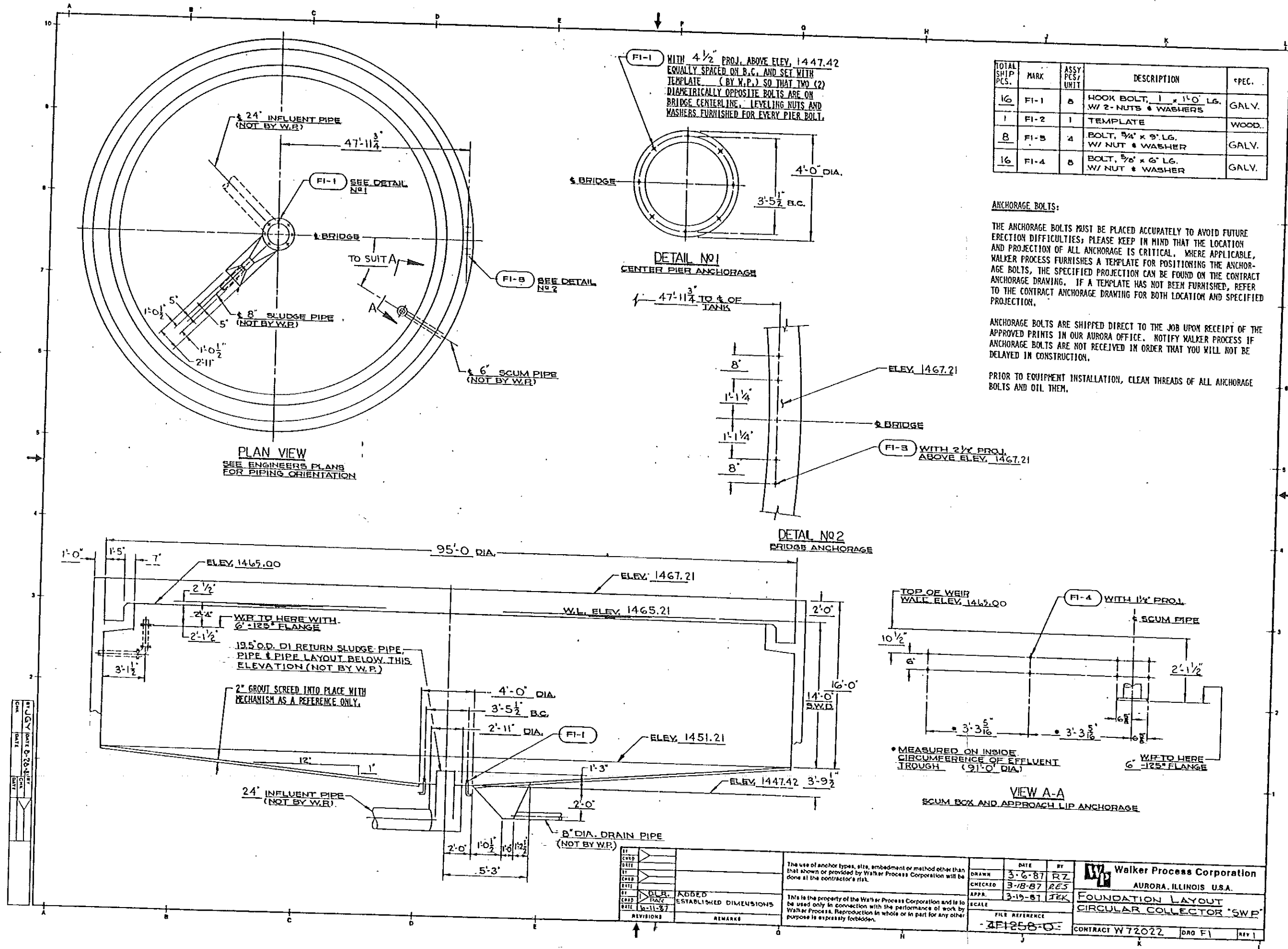
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	DATE	BY
DRAWN	3-16-87	CR
CHECKED		
APPR.		
SCALE		
FILE REFERENCE		



Walker Process Corporation
 AURORA, ILLINOIS, U.S.A.
 SECTIONAL ELEVATION
 CIRCULAR COLLECTOR TYPE "SWP"
 BRISTOL, TENN.
 CONTRACT V72022 JOINT 2 SHEET



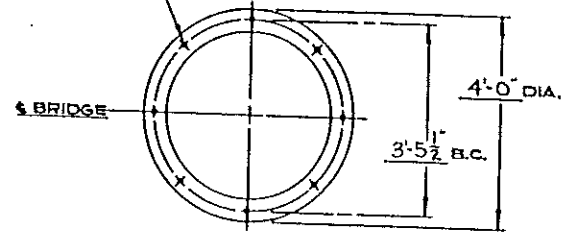
TOTAL SHIP PCS.	MARK	ASSY PCS/UNIT	DESCRIPTION	PEC.
16	FI-1	8	HOOK BOLT, 1" x 14" LG. W/ 2-NUTS & WASHERS	GALV.
1	FI-2	1	TEMPLATE	WOOD.
8	FI-3	4	BOLT, 5/8" x 9" LG. W/ NUT & WASHER	GALV.
16	FI-4	8	BOLT, 5/8" x 6" LG. W/ NUT & WASHER	GALV.

ANCHORAGE BOLTS:
 THE ANCHORAGE BOLTS MUST BE PLACED ACCURATELY TO AVOID FUTURE ERECTION DIFFICULTIES; PLEASE KEEP IN MIND THAT THE LOCATION AND PROJECTION OF ALL ANCHORAGE IS CRITICAL. WHERE APPLICABLE, WALKER PROCESS FURNISHES A TEMPLATE FOR POSITIONING THE ANCHORAGE BOLTS, THE SPECIFIED PROJECTION CAN BE FOUND ON THE CONTRACT ANCHORAGE DRAWING. IF A TEMPLATE HAS NOT BEEN FURNISHED, REFER TO THE CONTRACT ANCHORAGE DRAWING FOR BOTH LOCATION AND SPECIFIED PROJECTION.

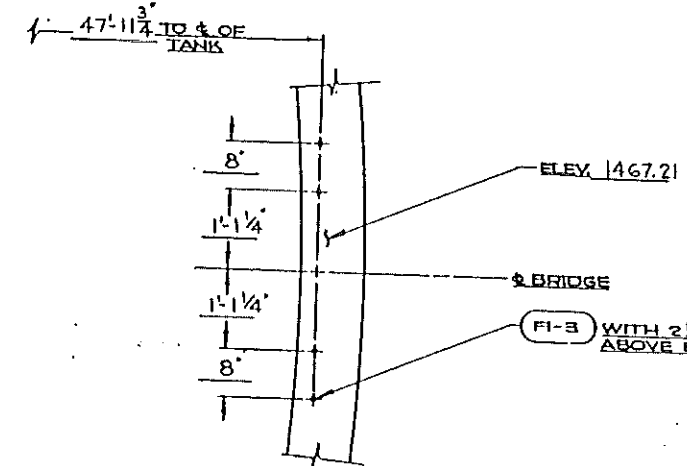
ANCHORAGE BOLTS ARE SHIPPED DIRECT TO THE JOB UPON RECEIPT OF THE APPROVED PRINTS IN OUR AURORA OFFICE. NOTIFY WALKER PROCESS IF ANCHORAGE BOLTS ARE NOT RECEIVED IN ORDER THAT YOU WILL NOT BE DELAYED IN CONSTRUCTION.

PRIOR TO EQUIPMENT INSTALLATION, CLEAN THREADS OF ALL ANCHORAGE BOLTS AND OIL THEM.

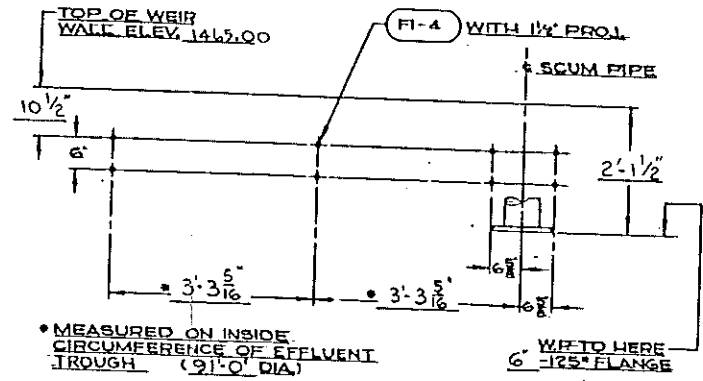
FI-1 WITH 4 1/2" PROJ. ABOVE ELEV. 1447.42 EQUALLY SPACED ON B.C. AND SET WITH TEMPLATE (BY W.P.) SO THAT TWO (2) DIAMETRICALLY OPPOSITE BOLTS ARE ON BRIDGE CENTERLINE. LEVELING NUTS AND WASHERS FURNISHED FOR EVERY PIER BOLT.



DETAIL NO. 1
 CENTER PIER ANCHORAGE



DETAIL NO. 2
 BRIDGE ANCHORAGE



VIEW A-A
 SCUM BOX AND APPROACH LIP ANCHORAGE

DATE	BY	CHKD

BY	DATE	REVISION

The use of anchor types, size, embedment or method other than that shown or provided by Walker Process Corporation will be done at the contractor's risk.

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DRAWN	DATE	BY
	3-6-87	RZ
CHECKED	DATE	BY
	3-18-87	RES
APPR.	DATE	BY
	3-19-87	JEK
SCALE		

Walker Process Corporation
 AURORA, ILLINOIS U.S.A.

FOUNDATION LAYOUT
CIRCULAR COLLECTOR "SWP"

FILE REFERENCE: 4E1258-0
 CONTRACT W72022 [DRG F1] REV 1