

CITY OF PENDLETON

Invitation to Bid

WWTRRF Primary Clarifier Coating Project



July 2023

Public Works Department

500 SW Dorion Avenue

Pendleton, OR 97801

Office: (541) 966-0202

Fax: (541) 966-0251

www.pendleton.or.us

CONTRACT DOCUMENT

INVITATION TO BID

Sealed bids to epoxy coat existing concrete launder surfaces at the **Wastewater Treatment Resource Recovery Facility (WWTRRF)-Primary Clarifier** will be received either by mail addressed to City of Pendleton c/o Bob Patterson, Public Works Director, 500 SW Dorion Avenue, Pendleton, OR 97801 or by dropping off at City Hall at the same address as above no later than **2:00 pm local time Thursday, August 3, 2023**, plainly marked **"WWTRRF Primary Clarifier Coating Project"**.

Bid opening will be available via Zoom or at the Public Works Director's office conference room located at the same address as above at 2:00 pm local time August 3, 2023. **Contact the Public Works Director's office at 541 966-0202 or Jutta Haliewicz at 541 966-0240, jutta.haliewicz@ci.pendleton.or.us for the Zoom link.**

Bid documents may be obtained until July 28, 2023, from the Public Works Director's office located at the same address as above or by calling (541) 966-0202. A copy is also available online at the City's website: <https://pendleton.or.us/rfps> or the OregonBuys website: <https://oregonbuys.gov/bsa/view/login/login.xhtml>

All work must be completed by November 1, 2023.

All bidders must comply with ORS Chapter 279C and pay applicable prevailing wage rates in effect July 1, 2023, including any amendments, (see www.oregon.gov/holi), if applicable. When a bid exceeds **\$50,000, the Contractor is required to pay prevailing wage rates for all work on-site and must provide certified payroll reports to City prior to payment. If the contract price exceeds **\$100,000**, all contractors and subcontractors must have on file a **\$30,000 Public Works Bond with the Construction Contractor's Board** before starting work on the project, unless the contractor or subcontractor is exempt under ORS 279C.836.**

The Contractor and any sub-contractors must have a valid contractor's license with the Oregon Construction Contractors Board and must obtain a City of Pendleton Business License.

The Contractor, its sub-contractors, if any, and all employers working under this Contract are subject employers under the Oregon Workers' Compensation law and shall comply with ORS Chapter 656, which requires them to provide workers' compensation coverage for all their subject workers.

Nonresident Bidders: ORS 279A.120(3) states: "When a public contract is awarded to a nonresident bidder and the contract price exceeds \$10,000, the bidder shall promptly report to the Department of Revenue (DOR) on forms to be provided by the department the total contract price, terms of payment, length of contract and such other information as the department may require before the bidder may receive final payment on the public contract. The contracting agency shall satisfy itself that the requirement of this subsection has been complied with before the contracting agency issues a final payment on a public contract." For information about DOR requirements contact: www.oregon.gov/dor/pages/index.aspx

City reserves the right to accept that proposal which is in the best interest of the City of Pendleton, Oregon, to waive any and/or all informalities upon a finding of the City it is in the public interest to do so and to postpone award of the Contract for a period not to exceed thirty (30) calendar days.

The deadline for filing a protest by the second responsible bidder is seven (7) calendar days after the Notice of Intent to Award has been issued. Protest must be in written form and received by 5:00 pm on the 7th day from the date of the letter of intent to award issued by the Public Works Director or his designated representative. Once the Notice of Intent to Award has been issued, bid submittal information will be available for public review.

For additional information regarding the project, contact Mark Milne, WWTRRF Superintendent, at mark.milne@ci.pendleton.or.us or Kyle Willman, WWTRRF Technician, at kyle.willman@ci.pendleton.or.us; 541 276-3372.

Dated this 30th day of June, 2023.

Bob Patterson

Bob Patterson (Jun 30, 2023 11:29 PDT)

Bob Patterson, Public Works Director

CONTRACT DOCUMENT
INFORMATION FOR BIDDERS

The City of Pendleton's primary clarifier at the Wastewater Treatment Resource Recovery Facility (WWTRRF) concrete launder surfaces are deteriorating as a result of the cascade of wastewater over the V-notch weirs and into the adjacent launder . **All work must be completed by November 1, 2023.**

Bids are to be presented as a lump sum total.

Contractor will be responsible for furnishing labor, materials and equipment necessary to epoxy coat existing concrete launder surfaces. The work shall include surface preparation and repair of existing concrete surfaces. Contractor will perform the removal and reinstallation and ensure level of existing V-notch effluent weir plates. The work shall be warranted for a minimum of five (5) years from completion of the project.

Work will include:

- 1) Mechanical work: Concrete surface preparation and application of the repair systems;
- 2) Launder wall concrete repair work: Surface preparation, environmental controls, repair system application, repair system curing and cleanup.

Damage of existing structure:

When the existing structure or facility, which is intended to remain, is damaged by the Contractor during repairs or construction, the Contractor shall promptly repair and replace the damaged portion of the facility at no cost to the City.

Liability and Indemnity:

- a. Indemnification. Contractor shall indemnify and defend City from, and reimburse City for, any cost, claim, loss, or liability suffered directly or from a third-party claim arising out of or related to any negligent activity of Contractor in the execution of this contract. City shall have no liability to Contractor for any injury, loss, or damage caused by Contractor or third parties.
- b. Public Liability and Property Damage Insurance. Before beginning execution of the Contract, Contractor shall maintain public liability insurance against death or injury to person, or damage to property, during the life of this Contract at Contractor's cost; said insurance shall be in such form so as to protect both Contractor and City from all claims expressed or implied as above provided, and in the following amounts:
 - 1) Public Liability Insurance not less than \$1,000,000 for injuries to any one person, including accidental death and not less than \$1,000,000 for any one accident.
 - 2) Property Damage Insurance not less than \$1,000,000 for any one accident.

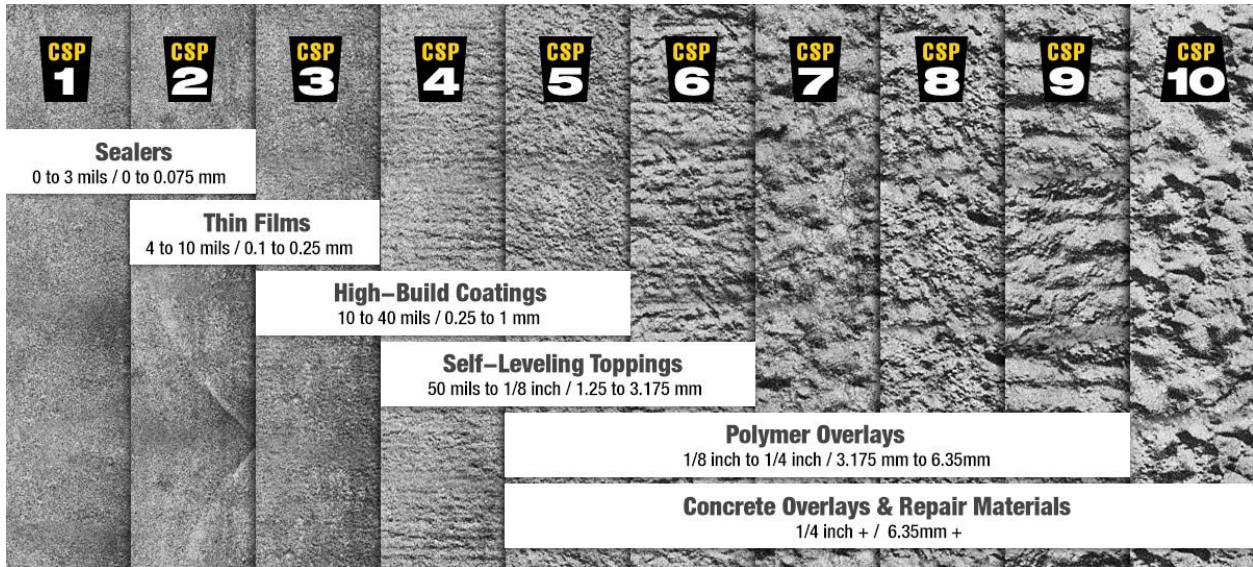
CONTRACT DOCUMENT

SPECIAL SPECIFICATIONS

The Contractor agrees to indemnify and save harmless the City of Pendleton, herein referred to as City, from any and all defects appearing or developing in the workmanship or materials performed or furnished under this Contract for a period of five (5) years from the completion of project by the City. Contractor will supply a letter of completion prior to receiving final payment.

SUMMARY

- A. The work includes furnishing the labor, materials, and equipment necessary to repair and epoxy coat existing concrete launder surfaces at the West Primary Clarifier, Pendleton Wastewater Treatment Resource Recovery Facility. The work shall be warrantied for a minimum of five (5) years from completion of project.
- B. The concrete surfaces at West Primary Clarifier launder are deteriorating as a result of the cascade of wastewater over the V-notch weirs and into the adjacent launder. The work shall include removal of current coating, surface preparation and repair of existing concrete surfaces to an International Concrete Repair Institute to CSP 3-4. The repair area is from the top interior edge of the launder wall, down to the launder floor, across the floor and to the top of the exterior launder wall. Contractor will perform the removal and reinstallation and leveling of existing V-notch effluent weir plates.



- C. Work Included in this section:
 - 1. Removal of Weir plates and current epoxy coating
 - 2. Mechanical Work: Coatings removal, concrete surface preparation and application of the repair systems
 - 3. Launder Wall Concrete Repair Work: Coatings removal, surface preparation, environmental controls, repair system application, repair system curing, and cleanup.

QUALITY ASSURANCE

- A. Launder epoxy coating and repair mortar; include on label of containers all that apply.
 - 1. Manufacturer's name
 - 2. Type of coating
 - 3. Manufacturer's stock number
 - 4. Color
 - 5. Label analysis
 - 6. Federal specification number

CONTRACT DOCUMENT

SPECIAL SPECIFICATIONS

SUBMITTALS

- A. Furnish complete manufacturer's product data, certificates, and test data.
 - 1. Bond strength (pull-off method)
 - 2. Water-vapor transmission
 - 3. Minimum application temperature, air and surface
 - 4. Maximum relative humidity
 - 5. Minimum number of coats
 - 6. Minimum recommended thickness
- B. Furnish manufacturer's representative letter stating that proposed product is suitable for intended service and application conditions.
- C. Supply information for purchase of repair products for all systems used.
- D. Affidavits: Furnish affidavits from the manufacturer(s) certifying installation at wastewater facilities.

PRODUCTS DELIVERY, STORAGE AND HANDLING

- A. Delivery of Materials:
 - 1. Deliver sealed containers with labels legible and intact.
- B. Storage of Materials:
 - 1. Store only acceptable project materials on project site.
 - 2. Store in a suitable location inside and protect from freezing.
 - 3. Restrict storage to coating materials and related equipment.
 - 4. Comply with health and fire regulations.

JOB CONDITIONS

- A. Environmental Requirements:
 - 1. Comply with manufacturer's recommendations as to environmental conditions under which coatings and coating system can be applied.
 - 2. Do not apply finish in areas where dust is being generated.
 - 3. Air and surface temperature shall be within limits recommended by manufacturer for coating being applied.

PRODUCTS

GENERAL

- A. Use product of single manufacturer for each system.
- B. Use only mercury-free, fume-proof coatings. Coatings must be suitable for atmosphere containing hydrogen sulfide.
- C. Use only lead-free coatings that do not cause discoloration in a wastewater treatment plant (sewage) atmosphere.
- D. List three jobs where products were used in wastewater applications. Include contact information.

CONTRACT DOCUMENT

SPECIAL SPECIFICATIONS

CONCRETE LAUNDER WALL REPAIR SYSTEM

- A. Repair Mortar: Below are examples that have been recommended to us by consulting engineers. If a selected mortar varies significantly from the descriptions below, but is required for use with the epoxy coating system, it will be considered on a case by case basis.

Repair Mortar Alternative 1:

1. Type: polymer modified
2. Number of components: 2
3. Use: Leveling horizontal or vertical concrete surfaces
4. Compatible with thermal coefficient of expansion of concrete C-884
5. Compressive strength: 8800 psi at 28 days, ASTM C-109
6. Flexural properties: 2000 psi at 28 days, ASTM C-78
7. Tensile properties: 900 psi at 28 days, ASTM C-496
8. Bond strength: 2,200 psi at 28 days, ASTM C-882
9. Product: SikaTop 123 Plus, or equal

Repair Mortar Alternative 2:

1. Type: Fiber-reinforced, silica fume modified
2. Number of components: 1
3. Use: Leveling horizontal or vertical concrete surfaces
4. Compressive strength: 10,000 psi at 28 days, ASTM C-109
5. Flexural properties: 1,100 psi at 28 days, ASTM C-78
6. Tensile properties: 735 psi at 28 days, ASTM C-496
7. Bond strength: 3,000 psi at 28 days, ASTM C-882
8. Product: DeGussa Emaco S88, or equal.

CONCRETE LAUNDER WALL EPOXY COATING SYSTEM

- A. Epoxy/ Epoxy, with Primer systems shall be designed for use in outdoor wastewater applications and compatible with original concrete and concrete repair mortar. Finish shall be gloss. A UV protective topcoat is required if not included in the protective coat.

B. General requirements

1. Compressive Strength (ASTM D 695) >13,000 psi
2. Flexural Strength & Modulus (ASTM D 790) >12,000 psi; >600,000 psi
3. Tensile Strength (ASTM D 638) >6,000 psi
4. Durometer Hardness (ASTM D 2240) >95
5. Taber Abrasion Resistance (ASTM C 501) <20 mg loss

Example product: Mainstay DS-5, with UV protectant 1450.

EXECUTION

INSPECTION AND GENERAL INSTALLATION

- A. Product manufacturer's authorized representative shall examine surfaces scheduled to receive repairs for conditions that will adversely affect execution, permanence, or quality of work, and which cannot be put into an acceptable condition through preparatory work as included in Preparation of Surfaces.
- B. Do not proceed with surface preparation or product application until conditions are suitable to Owner and manufacturers field representatives.

CONTRACT DOCUMENT

SPECIAL SPECIFICATIONS

PREPARATION OF SURFACES

- A. Field Verification:
 - 1. Inspect work area for access and power requirements
 - 2. Verify working conditions and condition of concrete.
 - 3. Review proposed application with product manufacturer's authorized representative.

- B. Concrete surfaces: Clean all surfaces to remove all dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, other coatings, disintegrated materials and deteriorated substrate.

- C. Preparation of concrete surface may be by water blasting or abrasive blasting, at Contractor's option.

- D. Abrasive blasting or Water Blasting Procedures:
 - 1. Per OSHA
 - 2. Air- or water- method, free of oil
 - 3. Confine blasting to area being prepared
 - 4. Protect nameplates, valve stems, rotating equipment, motors, and other damageable items.
 - 5. Do not reuse abrasive or water.
 - 6. Plug pipe, holes, or openings before sandblasting. Keep covered until water, abrasive, and debris are completely removed.

- E. Protection of Surfaces:
 - 1. Use drop cloths, masking tape, and other measures to protect all surfaces from accidental spraying, spattering, or spilling of coating.
 - 2. Contractor to repair all damage to other items caused by his actions or inaction.
 - 3. Immediately remove mortar deposited on surfaces not intended to be repaired.

MIXING

- A. Mix only in mixing pails, suitably sized, nonferrous or oxide metal pans.

- B. Do not add any adulterants or unauthorized thinners.

- C. Keep containers closed tightly.

APPLICATION

- A. Follow manufacturer's written instructions for surface preparation, application and curing of the Repair System.

- B. Repair Mortar:
 - 1. Surface should be saturated surface dry with no standing water.
 - 2. Scrub mortar into substrate filling all pores and voids.
 - 3. Trowel or screed filling and consolidating to produce relatively smooth, even surface covering all exposed existing aggregate.

REPAIR SCHEDULE

- A. Repair Mortar:
 - 1. Top of weir wall.
 - 2. Launder side of weir wall, from top of wall to floor of launder, across floor and to top of exterior launder wall.

CONTRACT DOCUMENT

SPECIAL SPECIFICATIONS

B. Epoxy Coating

1. Top of weir wall.
2. Launder side of weir wall, from top of wall to floor of launder, across floor and to top of exterior launder wall.

C. U.V. Protective Coating.

1. Top of exterior weir wall to three inches below flow line.

FIELD QUALITY CONTROL

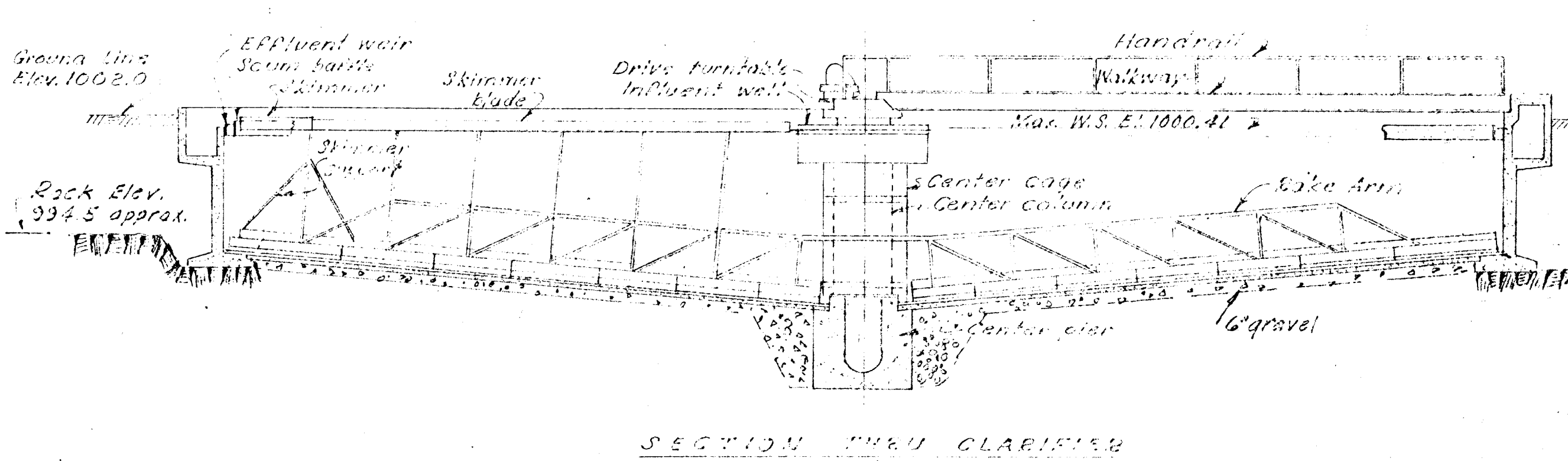
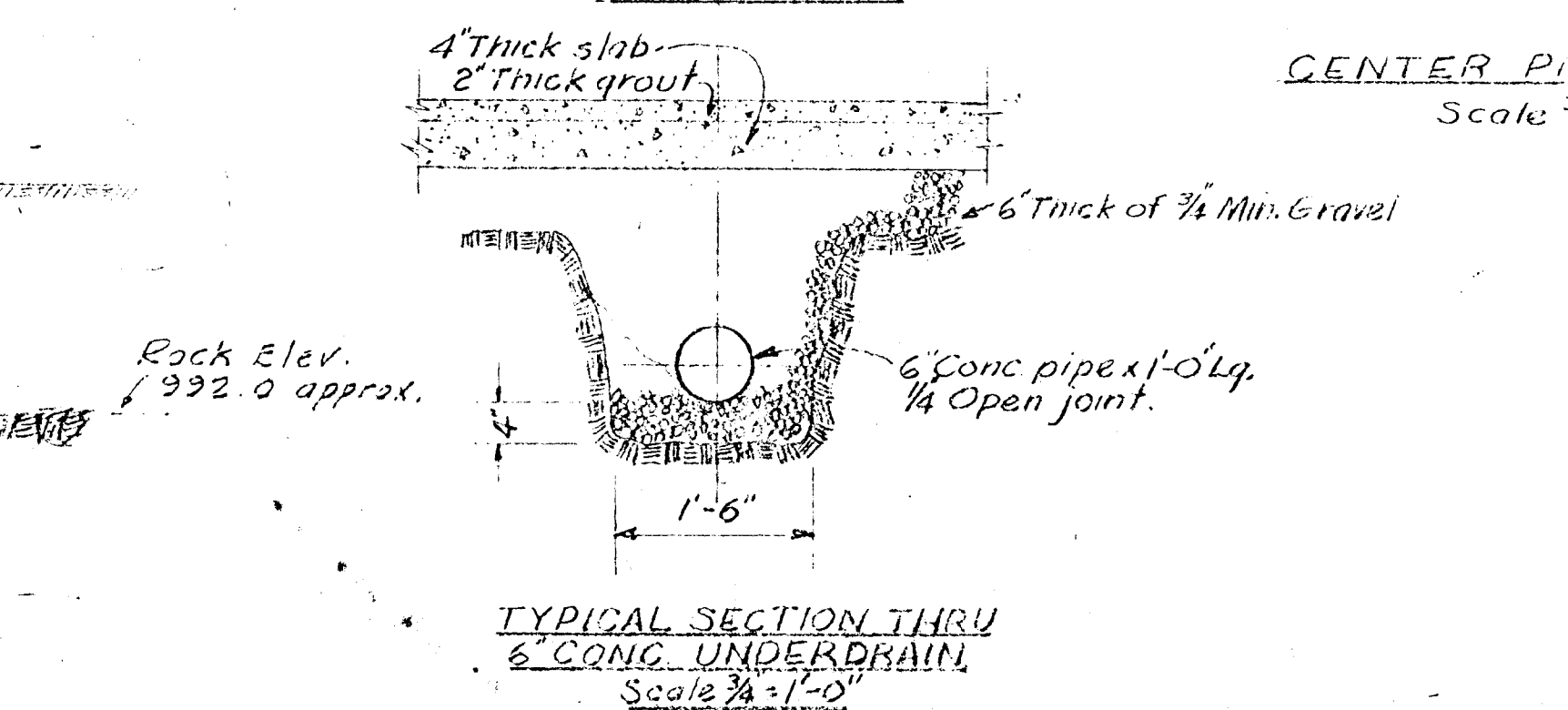
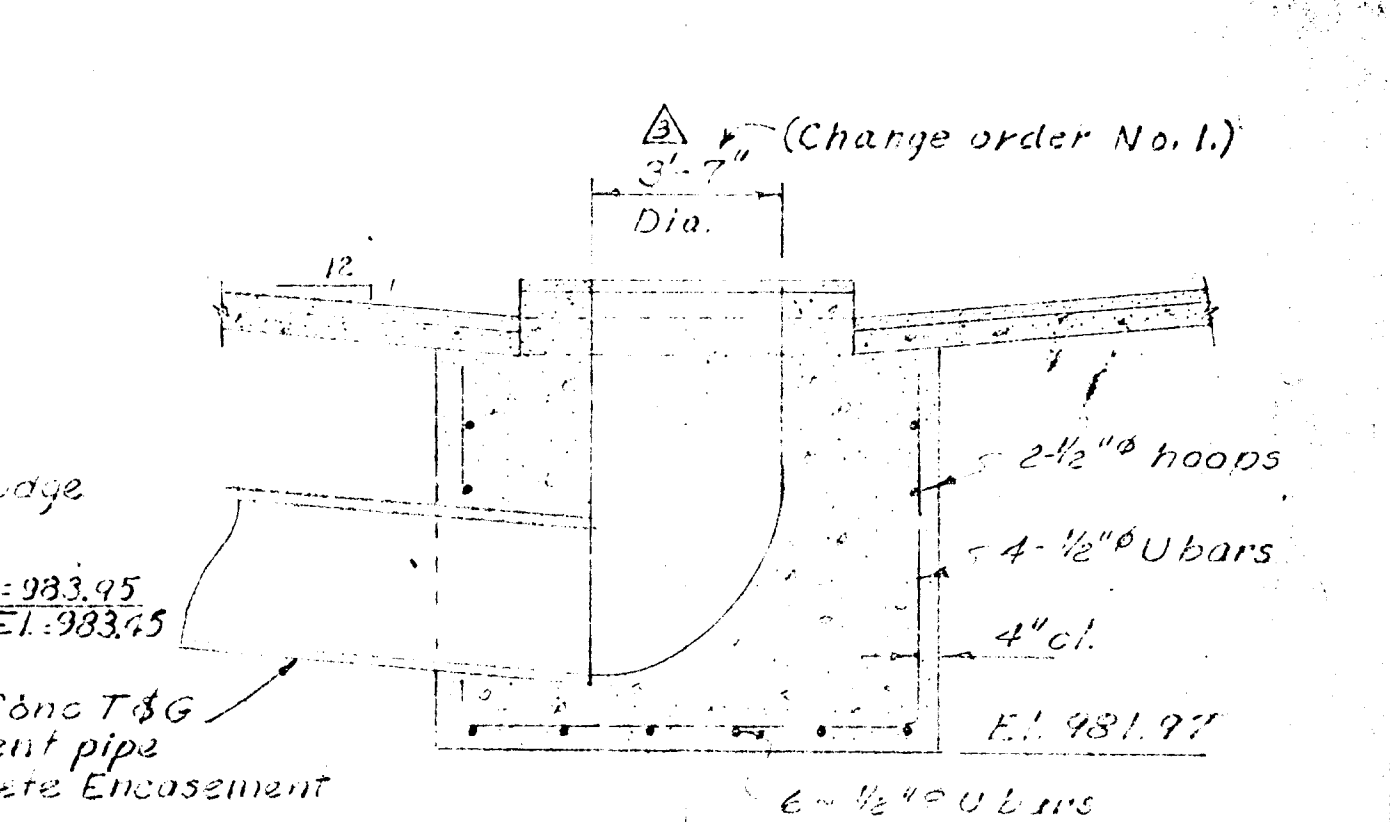
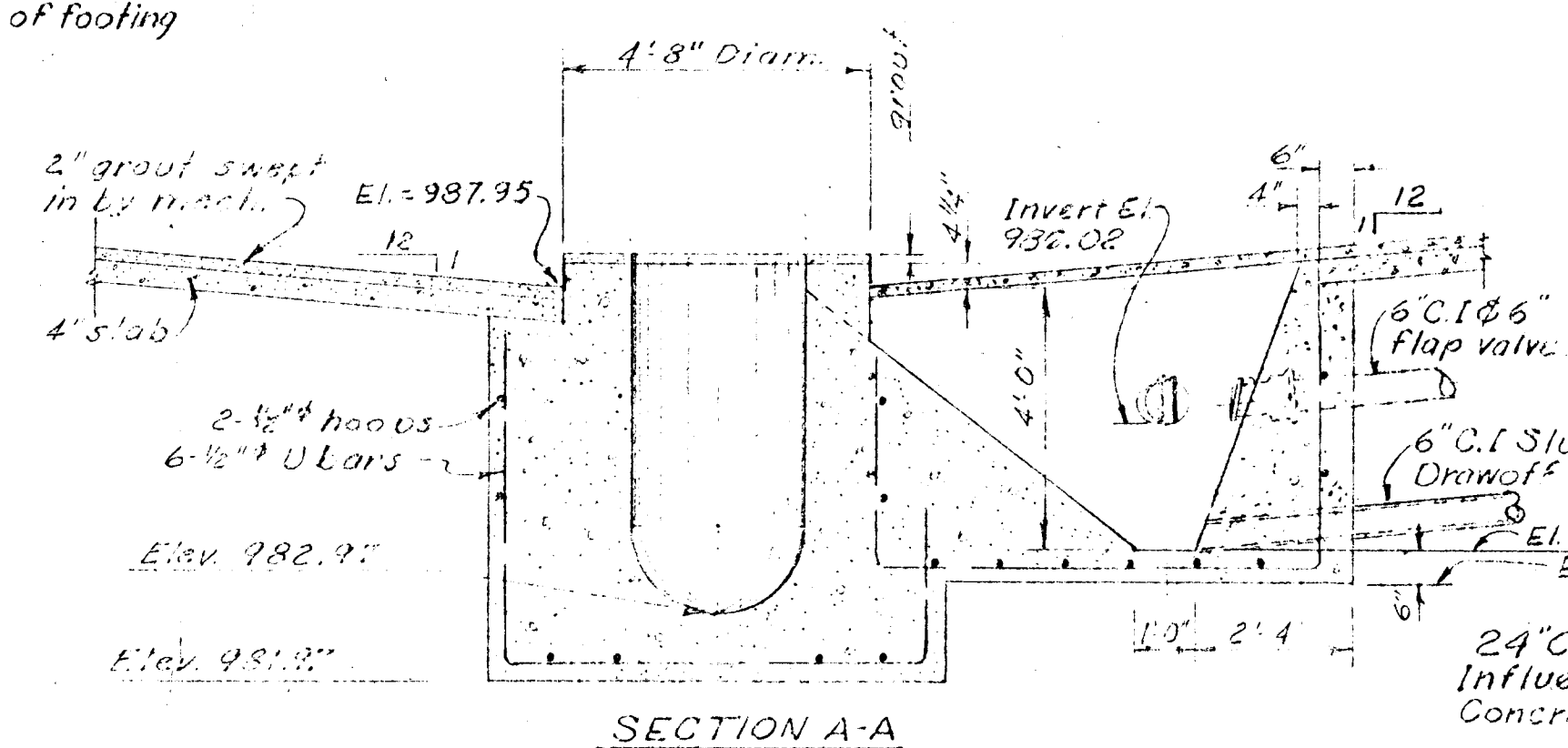
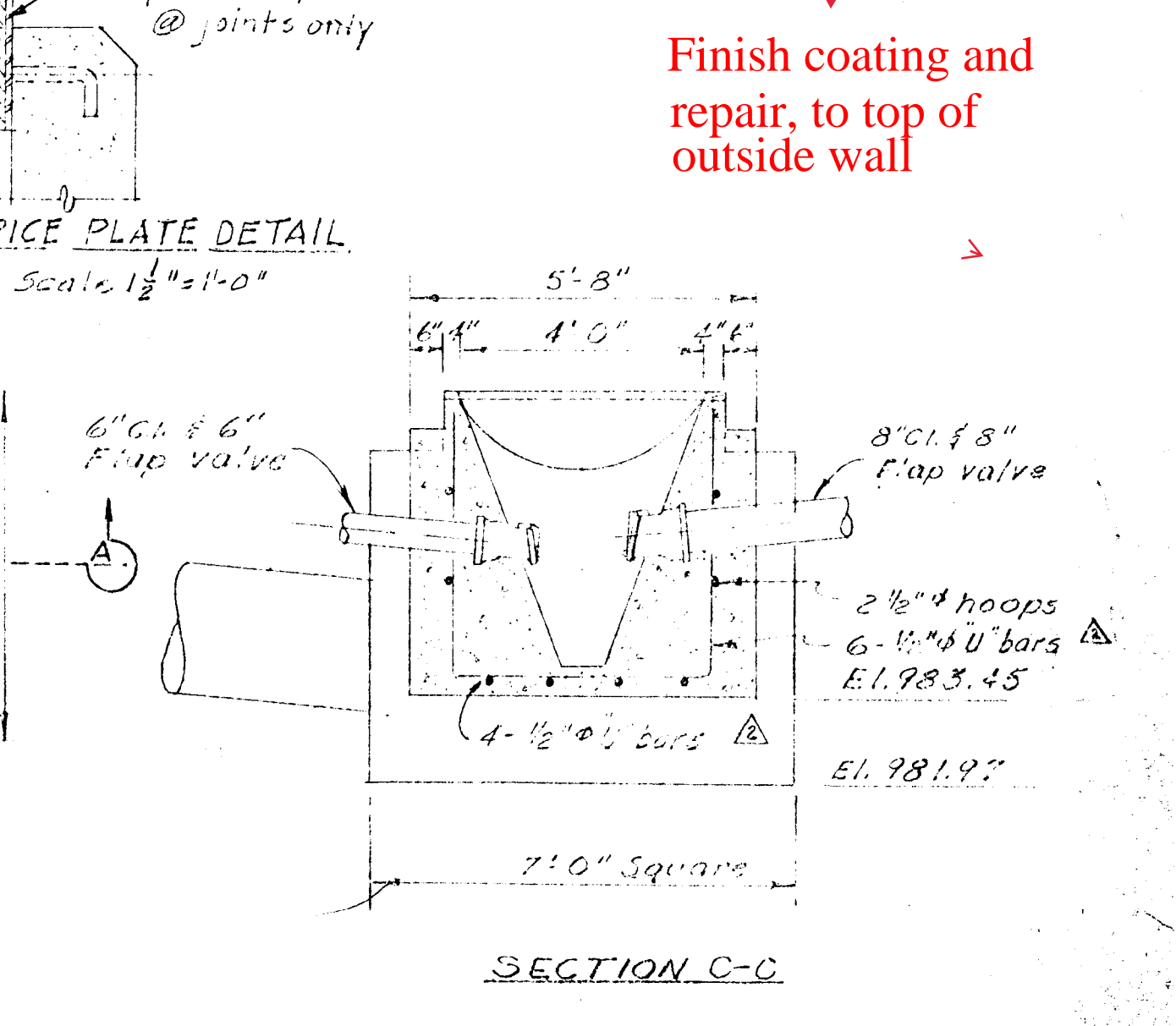
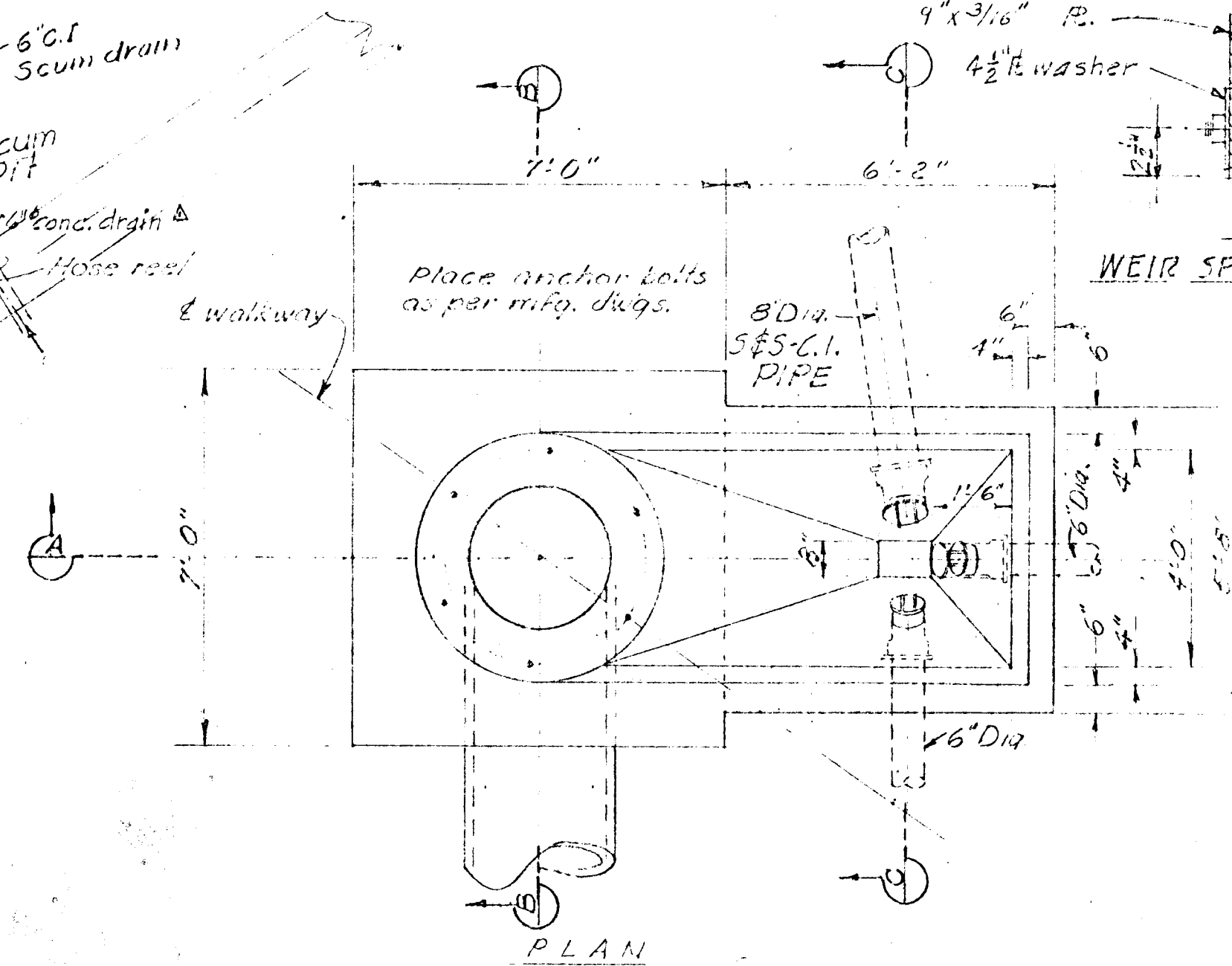
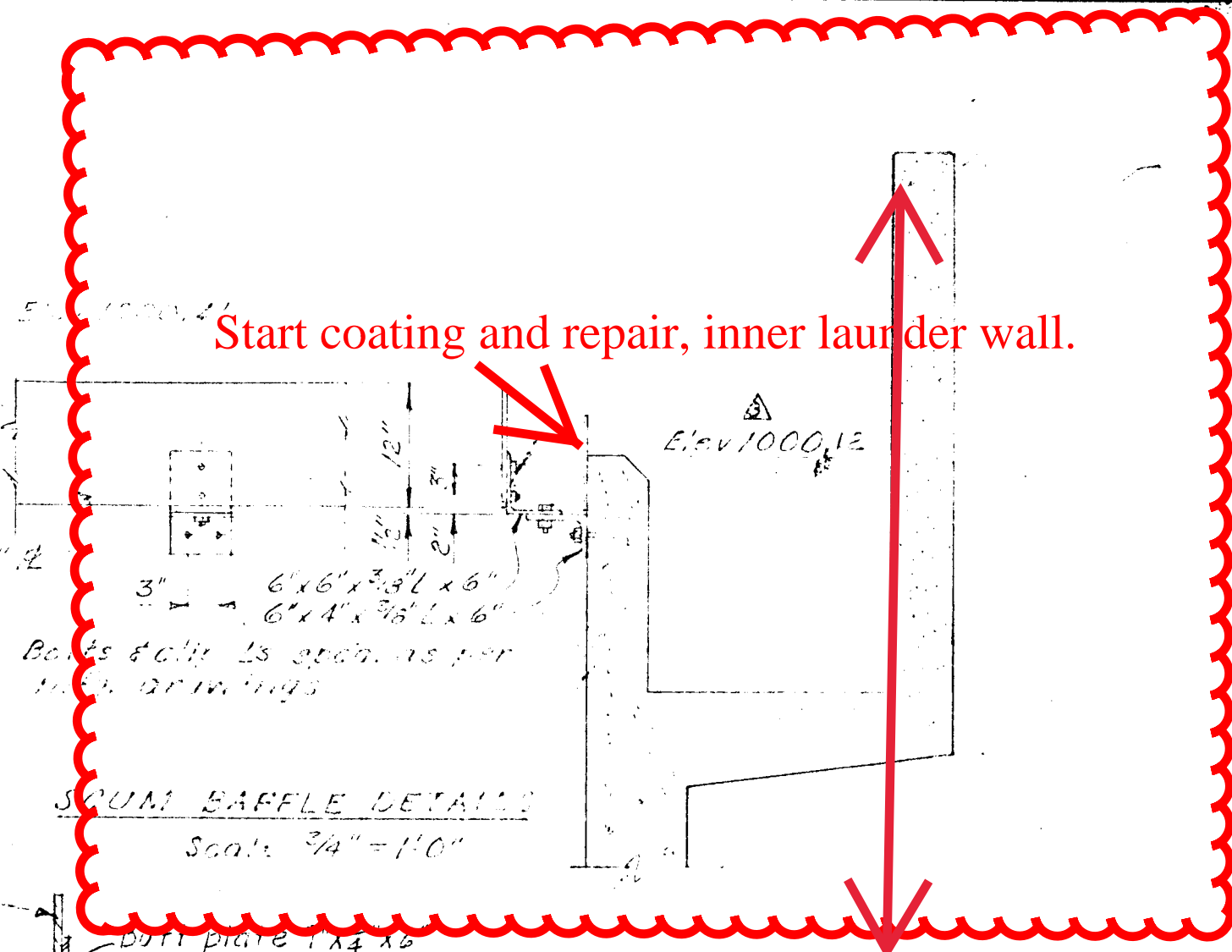
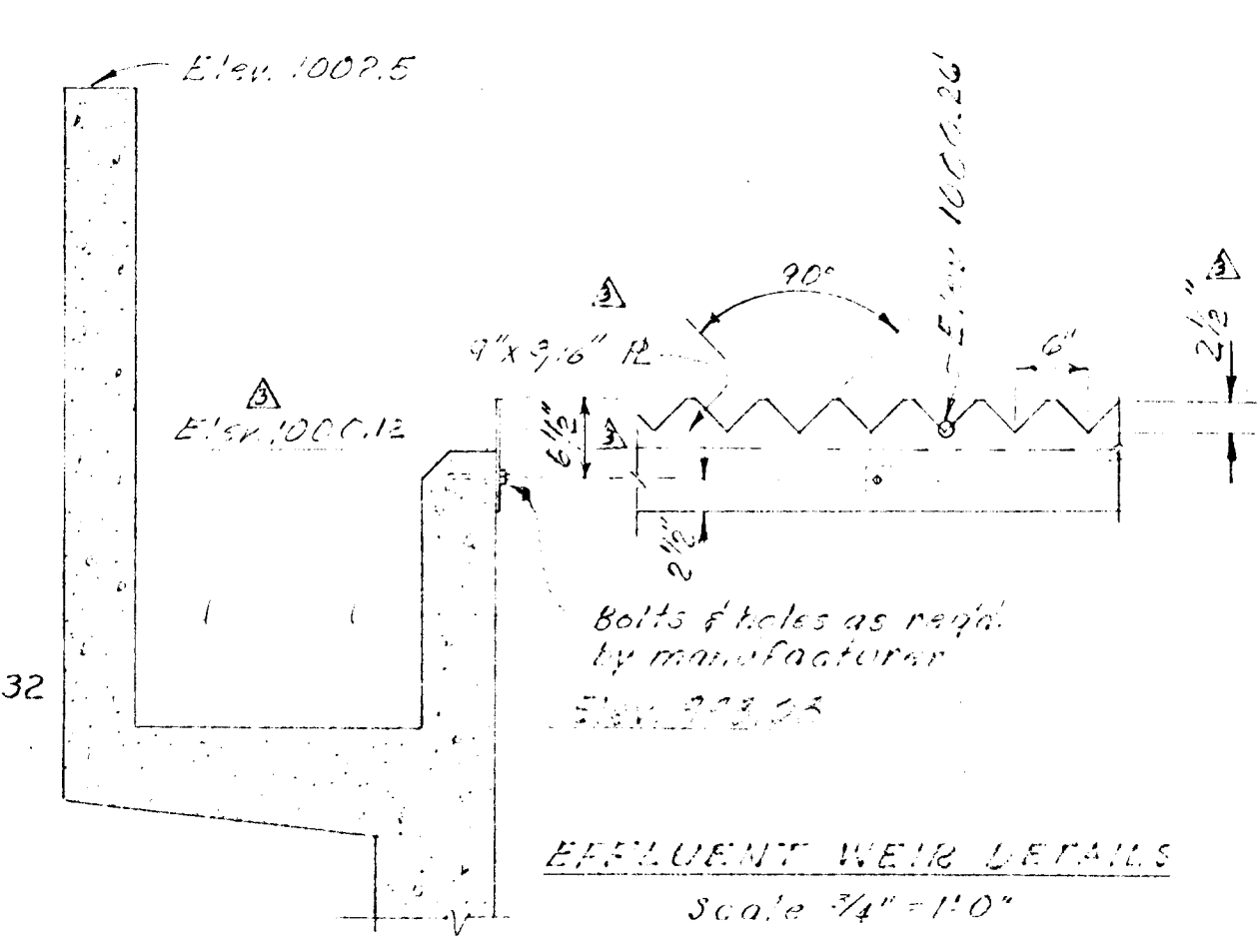
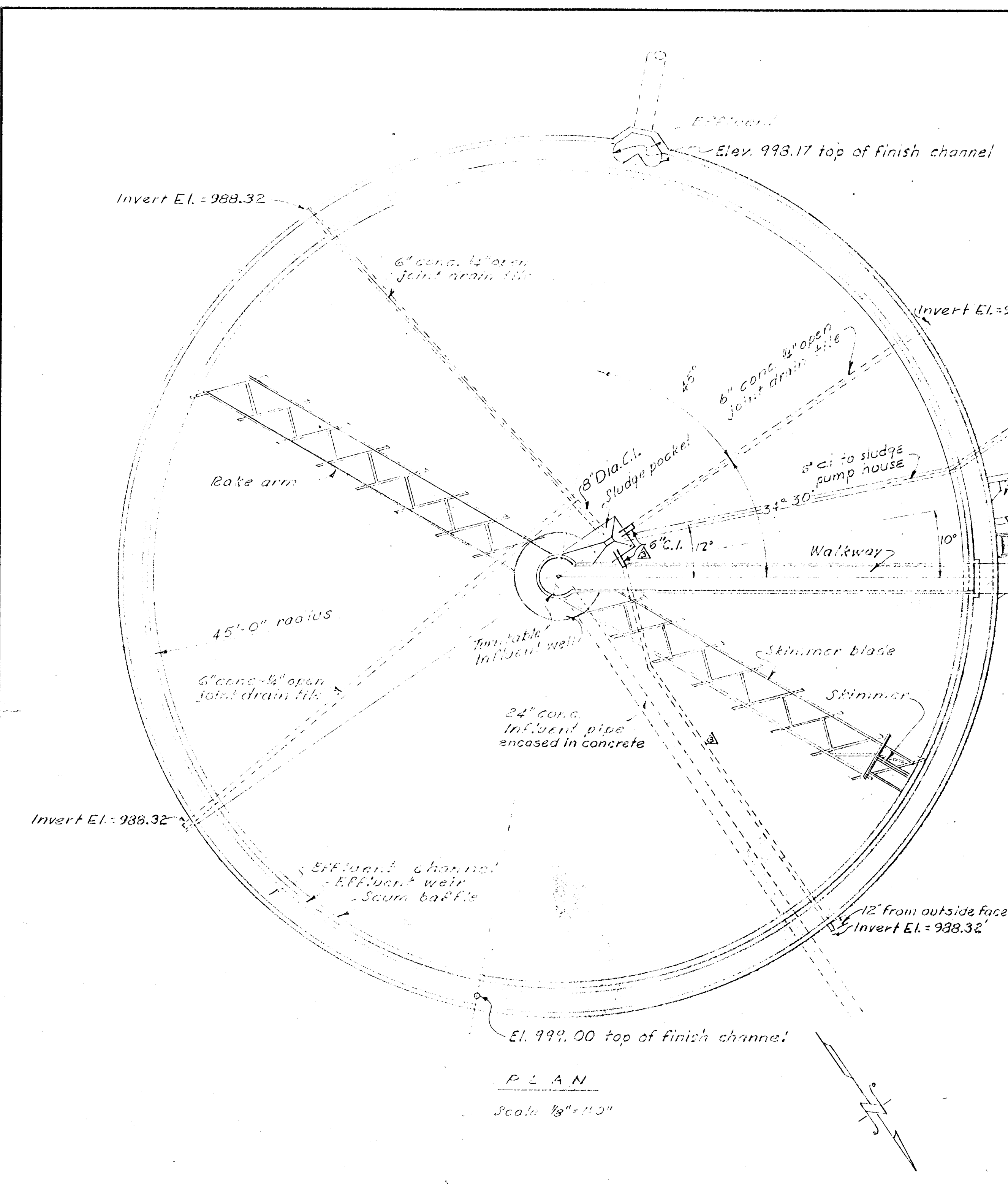
- A. Authorized representative of repair product manufacturer shall inspect the concrete prior to surface preparation to ensure that the specified product is suitable for the existing concrete. Provide documentation of the inspection.
- B. Authorized representative of repair product manufacturer shall inspect and approve the surface preparation of the concrete prior to the application of the product. Provide documentation of the inspection.
- C. Manufacturer's representative shall provide a minimum of 8 hours field service time instructing the Contractor in the proper application and finishing of repair mortar. Provide documentation of the training

INSPECT AND STARTUP

- A. Readiness Test: Contractor shall inspect the work prior to startup. Inspection shall ensure all surfaces requiring Repair System have been applied, weir plates reinstalled in their original locations, and all hardware has been provided and properly installed.
- B. Submit signed and certified Manufacturer's Certificate of Proper Installation.

BASIS FOR MEASUREMENT AND PAYMENT:

The basis for measurement and payment for all work performed under this Contract shall be lump sum under City issued Purchase Order. Payment to Contractor shall be made as follows: 1) receipt of invoices for approved materials for designated work; and 2) lump sum remainder when all the work has been completed and tested to the satisfaction of the City. This includes any change order considerations.



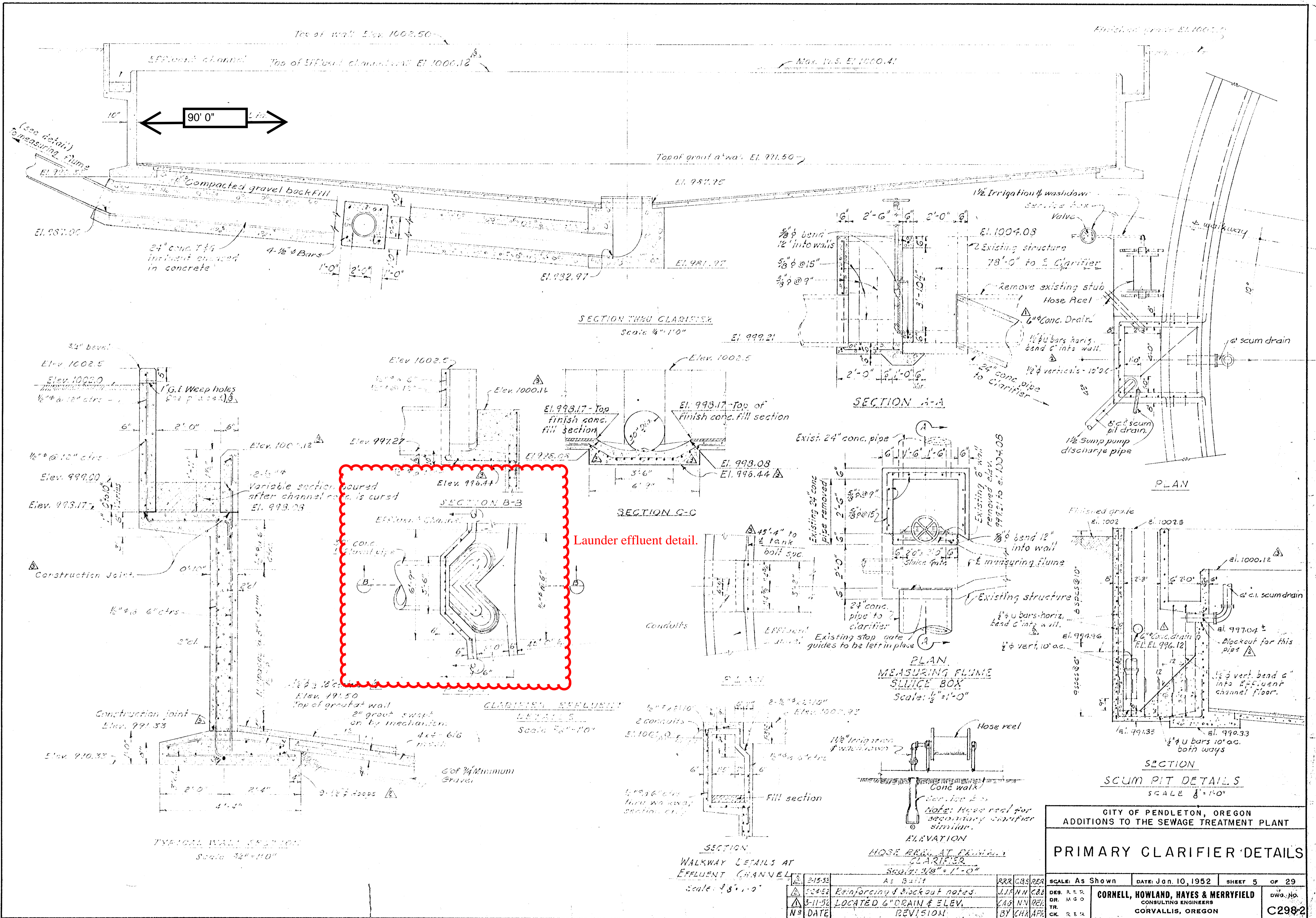
12-15-55	As Built	RRR, R.B. RER
3-11-52	Revisions	J.L.F. M.N. C.B.3
3-11-52	6" WEIR SPICE DETAIL	CAG M.N. RER
12-15-55	REVISIONS	BY CHK. APR

CITY OF PENDLETON, OREGON
ADDITIONS TO THE SEWAGE TREATMENT PLANT

PRIMARY CLARIFIER

SCALE: As Shown DATE: Jan. 10, 1952 SHEET 4 OF 29

DES. RER CORNELL, HOWLAND, HAYES & MERRYFIELD DWG. NO.
DR. WEF CONSULTING ENGINEERS CORVALLIS, OREGON C298-1
TR. CK. RER



CITY OF PENDLETON, OREGON ADDITIONS TO THE SEWAGE TREATMENT PLANT			
PRIMARY CLARIFIER DETAILS			
SCALE: As Shown	DATE: JUN. 10, 1952	SHEET 5 OF 29	
DES. R.E.R.	DR. M.G.O.	CORNELL, HOWLAND, HAYES & MERRYFIELD	
TR. N.W.	BY N.W.	CONSULTING ENGINEERS	
CK. R.E.R.	BY CHR. A.P.E.	CORVALLIS, OREGON	
Dwg. No. C298-2			

2-15-52	As Built	R.R.R.	C.B.S.	R.E.R.
3-24-52	Reinforcing & Blockout notes.	J.J.F.	N.N.	C.B.A.
3-11-52	LOCATED 6" DRAIN & ELEV.	C.A.B.	N.W.	R.E.L.
	REVISION	BY	CHR.	A.P.E.