

Cohen, Leon D

From: Satterly, Mark <MarkSatterly@fawilhelm.com>
Sent: Thursday, September 19, 2024 2:06 PM
To: Cohen, Leon D; Eshelman, Justin D CIV USARMY CELRL (USA); Berger, Nolan
Cc: Crowell, Nate; Winenger, Justin
Subject: Re: INAW Richmond Temporary Weir Permitting

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon Leon,

Thanks for getting back to me with the information. I'll pass that along to the PM and sounds like we're in the clear.

Best,

Mark

Mark Satterly, CPESC, CESSWI
Civil Engineer – Preconstruction Services



F.A. Wilhelm Construction Co., Inc.
3914 Prospect Street | Indianapolis, IN 46203

O 317.359.5411
M 463.224.3493

FAWilhelm.com

From: Cohen, Leon D <LCohen@idem.IN.gov>
Sent: Wednesday, September 18, 2024 8:48 AM
To: Satterly, Mark <MarkSatterly@fawilhelm.com>; Eshelman, Justin D CIV USARMY CELRL (USA) <Justin.D.Eshelman@usace.army.mil>; Berger, Nolan <NolanBerger@fawilhelm.com>
Cc: Crowell, Nate <NateCrowell@fawilhelm.com>; Winenger, Justin <justinwinenger@fawilhelm.com>
Subject: RE: INAW Richmond Temporary Weir Permitting

Hi Mark,

The same applies for the Section 401 WQC from IDEM or State Regulated Wetland permit. Nothing needed from us based on the information provided indicating no temporary or permanent discharge of fill into Waters of the State.

Please let me know if you have any questions or if the scope of the project changes

Have a great day,

L. David Cohen, Wetlands Project Manager
Office of Water Quality
100 North Senate Avenue, Room 1255



Indianapolis, Indiana 46204
(317) 450-5380 • LCohen@idem.IN.gov

Indiana Department of Environmental Management



IDEM values your feedback.

Please take two minutes and complete this brief survey.



From: Satterly, Mark <MarkSatterly@fawilhelm.com>

Sent: Tuesday, September 17, 2024 2:01 PM

To: Eshelman, Justin D CIV USARMY CELRL (USA) <Justin.D.Eshelman@usace.army.mil>; Berger, Nolan <NolanBerger@fawilhelm.com>

Cc: Cohen, Leon D <LCohen@idem.IN.gov>; Crowell, Nate <NateCrowell@fawilhelm.com>; Winenger, Justin <justinwinenger@fawilhelm.com>

Subject: Re: INAW Richmond Temporary Weir Permitting

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon Justin,

Thanks for the feedback and sounds good. Once again, thank you for your responses and guidance through the process.

Best,

Mark

Mark Satterly, CPESC, CESSWI

Civil Engineer – Preconstruction Services



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3914 Prospect Street | Indianapolis, IN 46203

O 317.359.5411

M 463.224.3493

FAWilhelm.com

From: Eshelman, Justin D CIV USARMY CELRL (USA) <Justin.D.Eshelman@usace.army.mil>

Sent: Tuesday, September 17, 2024 12:18 PM

To: Berger, Nolan <NolanBerger@fawilhelm.com>; Satterly, Mark <MarkSatterly@fawilhelm.com>

Cc: Cohen, Leon D <LCohen@idem.IN.gov>; Crowell, Nate <NateCrowell@fawilhelm.com>; Winenger, Justin <justinwinenger@fawilhelm.com>

Subject: RE: INAW Richmond Temporary Weir Permitting

Thanks Nolan and Mark,

Since the proposed project would not require any temporary or permanent discharge of fill material within any potential water of the U.S., there is no need to submit a Department of Army permit application. If the scope of work or project details change, please reach out to me with an additional description of the changes. Please let me know if you have any questions or need anything else.

Thanks and have a great day,
Justin

Justin Eshelman
Team Leader, Indianapolis Regulatory Office
Regulatory Division
USACE, Louisville District
Indianapolis Regulatory Office
8902 Otis Avenue, Suite S106B
Indianapolis, IN 46216
Phone: 317-543-9424 Ext. 5

Please comment on our service. Our National Customer Service Survey is located at:
<https://regulatory.ops.usace.army.mil/customer-service-survey/>

From: Berger, Nolan <NolanBerger@fawilhelm.com>
Sent: Tuesday, September 17, 2024 8:40 AM
To: Satterly, Mark <MarkSatterly@fawilhelm.com>
Cc: Cohen, Leon D <LCohen@idem.IN.gov>; Eshelman, Justin D CIV USARMY CELRL (USA) <Justin.D.Eshelman@usace.army.mil>; Crowell, Nate <NateCrowell@fawilhelm.com>; Winenger, Justin <justinwinenger@fawilhelm.com>
Subject: [Non-DoD Source] RE: INAW Richmond Temporary Weir Permitting

This project will not have any fill material used. We will be removing overgrowth vegetation and built up sedimentation away from the Low Head Dam Wall to allow for proper operation of the panels.

Nolan Berger

Project Manager

F.A. Wilhelm Construction Co., Inc.
3914 Prospect Street | Indianapolis, IN 46203
O 317.359.5411
M 260.450.4462
FAWilhelm.com

From: Satterly, Mark <MarkSatterly@fawilhelm.com>
Sent: Tuesday, September 17, 2024 8:30 AM
To: Berger, Nolan <NolanBerger@fawilhelm.com>
Cc: Cohen, Leon D <LCohen@idem.IN.gov>; Eshelman, Justin D CIV USARMY CELRL (USA) <Justin.D.Eshelman@usace.army.mil>; Crowell, Nate <NateCrowell@fawilhelm.com>; Winenger, Justin <justinwinenger@fawilhelm.com>
Subject: Re: INAW Richmond Temporary Weir Permitting

Nolan,

Please see the email from Justin with the USACE below. Will there be any fill material placed below the OHWM or other potential waters of the US? From what I was told, it doesn't seem like any fill will be added for the project.

Thanks,

Mark

Mark Satterly, CPESC, CESSWI
Civil Engineer – Preconstruction Services



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3914 Prospect Street | Indianapolis, IN 46203
O 317.359.5411
M 463.224.3493

FAWilhelm.com

From: Eshelman, Justin D CIV USARMY CELRL (USA) <Justin.D.Eshelman@usace.army.mil>
Sent: Tuesday, September 17, 2024 7:13 AM
To: Satterly, Mark <MarkSatterly@fawilhelm.com>
Cc: Cohen, Leon D <LCohen@idem.IN.gov>
Subject: RE: INAW Richmond Temporary Weir Permitting

Mark,

Received. I have assigned the submittal the Corps ID No. LRL-2024-00688-jde.

The application form does not indicate a discharge of fill below the OHWM of the East Fork Whitewater River. Can you confirm that no fill, either temporary or permanent, would be placed below the OHWM or any other potential waters of the U.S.? If so, no DA permit would be required.

Please let me know if you have any questions or need anything else,
Justin

Justin Eshelman
Team Leader, Indianapolis Regulatory Office
Regulatory Division
USACE, Louisville District
Indianapolis Regulatory Office
8902 Otis Avenue, Suite S106B
Indianapolis, IN 46216
Phone: 317-543-9424 Ext. 5

Please comment on our service. Our National Customer Service Survey is located at:
<https://regulatory.ops.usace.army.mil/customer-service-survey/>

From: Satterly, Mark <MarkSatterly@fawilhelm.com>
Sent: Wednesday, September 11, 2024 11:31 AM
To: Eshelman, Justin D CIV USARMY CELRL (USA) <Justin.D.Eshelman@usace.army.mil>; Cohen, Leon D

<LCohen@idem.IN.gov>

Cc: Berger, Nolan <NolanBerger@fawilhelm.com>; Winenger, Justin <justinwinenger@fawilhelm.com>; Crowell, Nate <NateCrowell@fawilhelm.com>

Subject: [Non-DoD Source] INAW Richmond Temporary Weir Permitting

Good morning Justin and Leon,

I've attached the IDEM Section 401 Permit for the Indiana American Water temporary weir repair project located in Richmond, IN. I've also attached the files sent to me for reference with regards to plans, site photos, and location.

Please let me know what else I need to do to keep this process moving forward and ideally towards a permit to proceed with the project.

Best,

Mark

Mark Satterly, CPESC, CESSWI
Civil Engineer – Preconstruction Services



F.A. Wilhelm Construction Co., Inc.
3914 Prospect Street | Indianapolis, IN 46203

O 317.359.5411
M 463.224.3493

FAWilhelm.com



SECTION 401 WQC REGIONAL GENERAL PERMIT NOTIFICATION

State Form 51937 (R5/7-18)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) and U.S. ARMY CORPS OF ENGINEERS (USACE)

Authorities: Section 401 Water Quality Certification, Section 404 of the Clean Water Act,
and Section 10 of the Rivers and Harbor Act

INSTRUCTIONS: 1. Familiarize yourself with the terms and conditions of this permit.
2. Read the instructions before filling out this form.
3. All applicable sections of this two (2) page form must be completed.

AGENCY USE ONLY

Date Received (mm/dd/yyyy)

IDEM ID

Processing Date (mm/dd/yyyy)

APPLICANT INFORMATION

Name of Project: Temporary Weir Repair on East Fork Whitewater River	Designation Number:
Applicant: Indiana American Water	Agent (Name of Company): F.A. Wilhelm Construction
Contact Person: William Cole	Contact Person: Nolan Berger
Address (number and street): 1710 Sylvan Nook Drive	Address (number and street): 3914 Prospect Street
City: Richmond State: IN ZIP Code: 47374	City: Indianapolis State: IN ZIP Code: 46203
Telephone Number: 765-259-1705	Telephone Number: (317) 359-5411
E-mail Address: William.Cole@amwater.com	E-mail Address: nolanberger@fawilhelm.com

PROJECT LOCATION

County: Wayne	Nearest Town: Richmond, Indiana
Quad Name: Richmond Section: 26	Township: 14 North Range: 1 West
Latitude: 39.8457	Longitude: -84.8471

Project Address and Driving Directions:
The project is located at 1307 Elks Road Richmond, IN 47374. Arrive at the address. The project location is directly across the road from the entrance to the Indiana American Water facility location.

EXISTING CONDITIONS ON THE PROJECT SITE

Lake: ☐ Yes ☒ No	Name of Lake: N/A
Stream: ☒ Yes ☐ No	Name of Stream: East Fork Whitewater River Stream Type: ☒ Perennial ☐ Intermittent ☐ Ephemeral
Wetlands: ☒ Yes ☒ No	Acreage on the site by Wetland Type(s): _____ Emergent _____ Scrub-Shrub _____ Forested
	Date (mm/dd/yyyy) of Wetland Delineation: Date (mm/dd/yyyy) of the U.S. Army Corps of Engineers Jurisdiction Correspondence:

PROJECT IMPACTS

Activity Description:
The scope of the entire project is as follows:
- to remove and install identical replacements of the 3 damaged low head dam walls
- clean up vegetation and silt build-up behind the two dam walls on both riverbanks
- remove fallen tree debris and trash from the surrounding area of the dam walls

Purpose of Project:
The purpose of the project is to repair damaged weir infrastructure on site as well as to clean any vegetative debris or sediment buildup on site that would interfere with proper infrastructure function.

For Lake Impact (Acceptable fill is defined in the instructions):

(1) Linear feet of shoreline impact (Example - Seawall): N/A

(2) Type of fill below the Ordinary High Water Mark: N/A Volume (Cubic Yards): _____ Acres: _____

(3) Does the shoreline or open water area have vegetation present? ☐ Yes ☐ No
If Yes, are you proposing natural shoreline stabilization? ☐ Yes ☐ No Description: _____

(4) Open water fill beyond shoreline (Examples - Boat Well, Underwater Beach): Type of Fill: _____ Acres: _____

For Stream Impact (Acceptable fill is defined in instructions):

- (1) Total linear feet of stream impact (Examples - bank stabilization, bridge construction or culvert placement, seawall work): 50'
- (2) Total acre(s) of stream impact: 0.0781
- (3) Type of fill below the Ordinary High Water Mark: N/A Volume (Cubic Yards): N/A
- (4) Proposed start date of work in the stream (mm/dd/yyyy): _____ Proposed end date of work in the stream (mm/dd/yyyy): _____
- (5) Channel width in feet (See instructions): ~80' Channel depth in feet (See instructions): _____
- (6) Cross-sectional area below the Ordinary High Water Mark: _____
- (7) For stream crossings, type of structure proposed to be installed (Examples: three-sided or four-sided culvert, bridge, pipe): Temporary Weir
- (8) For stream crossings, width of culvert structure/diameter of pipe to be installed (feet): N/A Length of culvert structure/pipe (feet): N/A
- (9) For stream crossings, substrate type (i.e. sand, soil or unconsolidated fill, bedrock or consolidated fill): _____
- (10) Open water fill that projects beyond the stream bank: Type of fill: N/A Acre(s) of open water impact: N/A

For Wetland Impact (Acceptable fill is defined in instructions):

- (1) Type of fill: N/A
- (2) Acre(s) of impact: _____ Emergent 0.0781 Scrub-Shrub 0.0781 Forested _____

SIGNATURE OF APPLICANT – STATEMENT OF AFFIRMATION

I swear or affirm, under penalty of perjury as specified by IC 35-44.1-2-1 and other penalties specified by IC 13-30-10, that the statements and representations in this notification are true, accurate, and complete.

I certify that I have the authority to undertake and will undertake the activities exactly as described in this notification form. I am aware that there are penalties for submitting false information. I understand that any changes in project design subsequent to IDEM's and the USACE's granting of authorization to discharge to a water of the U.S. are not authorized, and that I may be subject to civil and criminal penalties for proceeding without proper authorization. I agree to allow representatives of IDEM and the USACE to enter and inspect the project site. I understand that the granting of other permits by local, state, or federal agencies does not release me from the requirement of obtaining the authorization requested herein before commencing the project.

Signature of Applicant: _____ Date (mm/dd/yyyy): 09/11/2024

Printed Name of Applicant: Mark Satterly Title: Civil Engineer

Enclose copies of the following documents (all enclosures must be on 8.5" by 11" paper). Failure to provide all applicable documents and information may result in a determination that the proposed project is out of scope.

- (1) ☒ Location Map
- (2) ☒ Drawings of existing site and proposed project
- (3) ☐ Cross sections of proposed activities showing extent of fill waterward (for seawall, shoreline, and stream bank stabilization impacts)
- (4) ☐ Cross sections of proposed activities showing the bankfull width or Ordinary High Water Mark of the stream
- (5) ☒ At least three photos of the site, labeled
- (6) ☐ Copy of wetland delineation report (for projects with wetland impacts)
- (7) ☒ Copies of all correspondence from the USACE (for projects with wetland impacts)
- (8) ☐ Copies of all correspondence from the Indiana Department of Natural Resources, Division of Nature Preserves (required)

Please Note:

- (1) It is recommended that you send this form and the attachments via certified mail. The agencies will not notify you when this form is received.
- (2) IDEM and the USACE will review this form and all attachments for completeness and accuracy. You will not be contacted during the application process unless deficiencies are identified at which time the agencies may require additional information to verify that the project meets all conditions of the Regional General Permit and the Section 401 Water Quality Certification (WQC). If you are not contacted by IDEM within thirty (30) days of the date IDEM receives this notification form, your project is authorized, subject to the terms and conditions of the Section 401 Water Quality Certification and its conditions. You will not receive a written confirmation of authorization from IDEM, however the USACE will issue written authorization.
- (3) Read all the terms and conditions of the IDEM Regional General Permit, including all USACE and IDEM conditions. The terms and conditions of this general permit as instituted by IDEM can be found at: <http://www.in.gov/idem/wetlands/2353.htm>. Do not submit this notification form or commence work on the proposed project until you understand and are familiar with the limitations and restrictions of the IDEM Regional General Permit Notification Form.
- (4) Consult this webpage for more information: <http://www.in.gov/idem/wetlands/index.htm>

Upon completion of the application, mail this form and all enclosures to:

Indiana Department of Environmental Management
Office of Water Quality, Wetlands and Stormwater Section
Section 401 WQC/Isolated Wetlands Program
100 North Senate Avenue, GCN, Room 1255
Indianapolis, Indiana 46204-2251

U.S. Army Corps of Engineers
Regulatory Branch

For office locations serving Indiana, please visit:
<http://www.usace.army.mil/Locations.aspx>

Instructions for Completing the IDEM Regional General Permit Notification

Please read these instructions carefully before completing the notification form. Sections labeled as mandatory must be completed accurately and completely in order for IDEM to process this notification form. IDEM will reject your notification form should you fail to complete all mandatory sections of the form.

DO NOT use this form if your project will impact ANY isolated wetlands. Consult with IDEM staff to determine the correct application form for use with your project.

If you have any questions or are unsure if your project qualifies for or requires this authorization, contact IDEM:

Indiana Department of Environmental Management
Office of Water Quality, Wetlands and Stormwater Section
Section 401 WQC : Isolated Wetlands Program
100 North Senate Avenue, GCN 1255
Indianapolis, Indiana 46204-2251
Telephone: (317) 233-8488

Print clearly or type.

Attach additional information on 8.5" x 11" sheets or folded 11" x 17" sheets only.

BLOCK 1 – APPLICANT INFORMATION

1. **MANDATORY:** Provide the applicant's name, address, email address, and telephone number. Applicants MUST provide a contact name. Provide a specific project name for any future correspondence.

2. **OPTIONAL:** Provide the agent's address and telephone information (*an agent is anyone representing the applicant on the project, such as an attorney or consultant*). Applicants are not required to have an agent. This information should be included if a person other than the applicant is submitting the form and that person is designated as the contact point for questions regarding the proposed project. If the project is fully or partially funded by Federal Highway funds provide the specified Designation Number.

BLOCK 2 – PROJECT LOCATION

MANDATORY: Complete all blocks within this section. Most information required in this section can be obtained from the United States Geological Survey (USGS) 7.5-Minute Series Topographic Quadrangle maps, your local Soil and Water Conservation District (SWCD) office, or similar computer desktop mapping software and geo-positioning software. An address or descriptive location must be provided in order to allow for compliance inspections of the project.

BLOCK 3 – EXISTING CONDITIONS ON THE PROJECT SITE

MANDATORY: This section provides information on the types of aquatic resources present on the project site PRIOR TO any proposed impacts.

Check the appropriate box as to whether or not lakes, streams, or wetlands are present on the site. For wetlands, provide the acreage of each wetland type – your wetland delineation report will state the acreage of each wetland type delineated on the site.

For wetlands, acreages and types must be confirmed with a wetland delineation conducted in accordance with the 1987 U.S. Corps of Engineers Wetland Delineation Manual and Regional Supplements. Please attach a copy of this delineation and letter of confirmation from the U.S. Corps of Engineers for all projects that will impact wetlands. Correspondence from the U.S. Army Corps of Engineers confirming that the Waters in question are regulated under the Clean Water Act must be provided. Any letter or email from the U.S. Army Corps of Engineers that describes the extent of Waters of the U.S. on the site will be considered acceptable by IDEM. Common examples include: a jurisdictional determination verification letter, a U.S. Army Corps of Engineers Public Notice, an "RGP pending" letter.

BLOCK 4 – PROJECT IMPACTS

MANDATORY: Complete both "Activity Description" and "Purpose of Project" blocks within this section. Attach additional sheets if needed.

1. **Activity description** refers to WHAT you intend to do – examples include filling a certain acreage of wetland, placing a certain quantity of riprap into a stream, constructing bridge piers, or installing a specific type of culvert.

2. **Project description** refers to WHY you need to do this activity – to create a driveway, to stabilize a streambank, to install a bridge or culvert in a stream to access a site, to develop a site for commercial use, for example:

When calculating stream impacts, all areas that are affected by placement of fill, bank armoring, piping, installing culverts, excavation, or any other activity must be counted. Any proposed project involving the creation of dams or in-channel pools CANNOT use this notification form.

When calculating impacts, all areas within lakes, rivers, streams and the like, must be counted. This includes areas under new bridge piers, footprints of underwater beaches, and footprints of boat ramps, as examples.

The Ordinary High Water Mark means that line on the shore of a waterbody established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, natural destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

Channel width means the average distance from one bank of the stream to the other bank measured on the level at the bankfull stage elevation.

IDEM will accept the Ordinary High Water Mark as a surrogate measurement for the bankfull stage elevation.

Channel depth means the average distance from the bankfull stage elevation to the deepest part of the channel (thalweg). IDEM will accept the Ordinary High Water Mark as a surrogate measurement for the bankfull stage elevation.

Bankfull stage elevation means the elevation where any additional increase in stage elevation would result in water leaving the channel and entering the floodplain. The bankfull discharge is the same as the *effective discharge*. Determining the bankfull stage elevation from field indicators is also acceptable. The U.S. Army Corps of Engineers has information available for determining the ordinary high water mark at http://www.nps.usace.army.mil/Portals/39/docs/regulatory/idd_guidebook_351207final.pdf.

In addition, the website (<http://eh.iupui.edu/docs/determining-bankfull-stage-terminology/>) will provide information related to bankfull stage elevation. IDEM will also accept the Ordinary High Water Mark as a surrogate measurement for the bankfull stage elevation. Note that IDEM does not require that a responsible party survey the bankfull stage elevation, but rather requires that width and depth measurements be taken relative to this elevation.

Acceptable fill material must be clean earthen fill that is free from any hazardous waste or regulated solid waste. Examples: clean earthen fill dirt, glacial stone, riprap, sand, freshly poured concrete.

BLOCK 5 – SIGNATURE OF APPLICANT - STATEMENT OF AFFIRMATION

MANDATORY: The name and signature must match the name of the applicant on the first page. Notification forms signed by any person other than the applicant will not be approved.

NOTE - The listed supplemental information must be provided in order to verify that your project qualifies for the terms and conditions of this regional general permit.

You may wish to hire a private environmental consultant to assist you with the completion of this form, assessing impact totals, and the creation of all required submittals (maps, photos, plans, cross-sections, IDNR and U.S. Army Corps of Engineers correspondence, etc.).

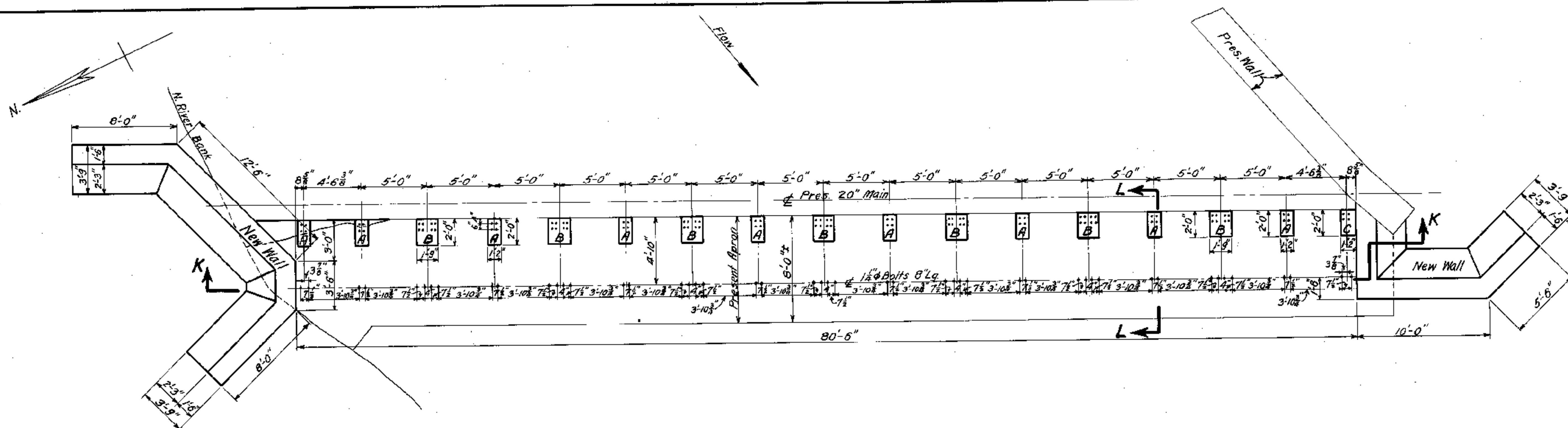
Upon request, IDEM can provide you with a list of private environmental consultants that work in Indiana. If you are proposing impacts to wetlands, you will need to hire an environmental consultant to complete a wetland delineation for your property.

BLOCK 6 – ENCLOSURES

MANDATORY: Complete all applicable sections and include with notification submission.

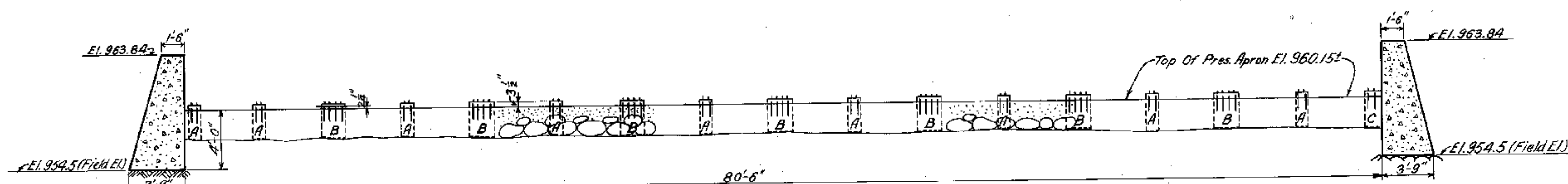
1. **Location Map** should include a general overview as well as zoomed in location with nearest intersections shown.
2. **Drawings of existing site and project** should include existing conditions and impact areas.
3. **Cross sections showing water ward fill** should show the extent of fill from top of bank to below the Ordinary High Water Mark with the Ordinary High Water Mark shown.
4. **Cross sections showing encapsulation or open water fill** should show the full bank to bank cross section as well as the structure to be placed and all stream dimensions along with the Ordinary High Water Mark.
5. **Photos of the Site:** Include at least three photos with descriptions of all impact locations.
6. **Wetland Delineation for Wetland Impacts:** Supply a copy of the wetland delineation completed of the project site using the 1987 US Army Corps of Engineers Wetland Delineation Manual and appropriate Regional Supplement, completed during the growing season for all projects with wetland impacts or avoided wetland impacts.
7. **Copy of all USACE correspondence:** This may be in the form of an Approved Jurisdictional Determination, Preliminary Jurisdictional Determination, or in rare instances, e-mail correspondence.
8. **Copies of all IDNR correspondence:** You must submit, with this notification form, correspondence from the IDNR, Division of Nature Preserves, which states that no state endangered, threatened, or rare species is documented on a permanent or seasonal basis within a $\frac{1}{4}$ (0.50) mile radius of the proposed project site by the Indiana Natural Heritage Data Center. Alternately, you may provide written documentation from the IDNR, Division of Nature Preserves, which states that the proposed activities will not constitute a violation of state laws protecting state endangered, threatened, or rare species if they are documented on a permanent or seasonal basis within a $\frac{1}{4}$ (0.50) mile radius of the proposed project site. Additional information regarding how to request Indiana Natural Heritage Data, including fees, required information, and timeframes, is available at the following:

IDNR - Division of Nature Preserves
Attn: Natural Heritage Data Manager
402 W. Washington St., Room 4267
Indianapolis, IN 46204
Fax number: 317-233-0133
<https://www.IN.gov/dnr/naturepreserve/4746.htm>
IClark2@DNR.IN.Gov



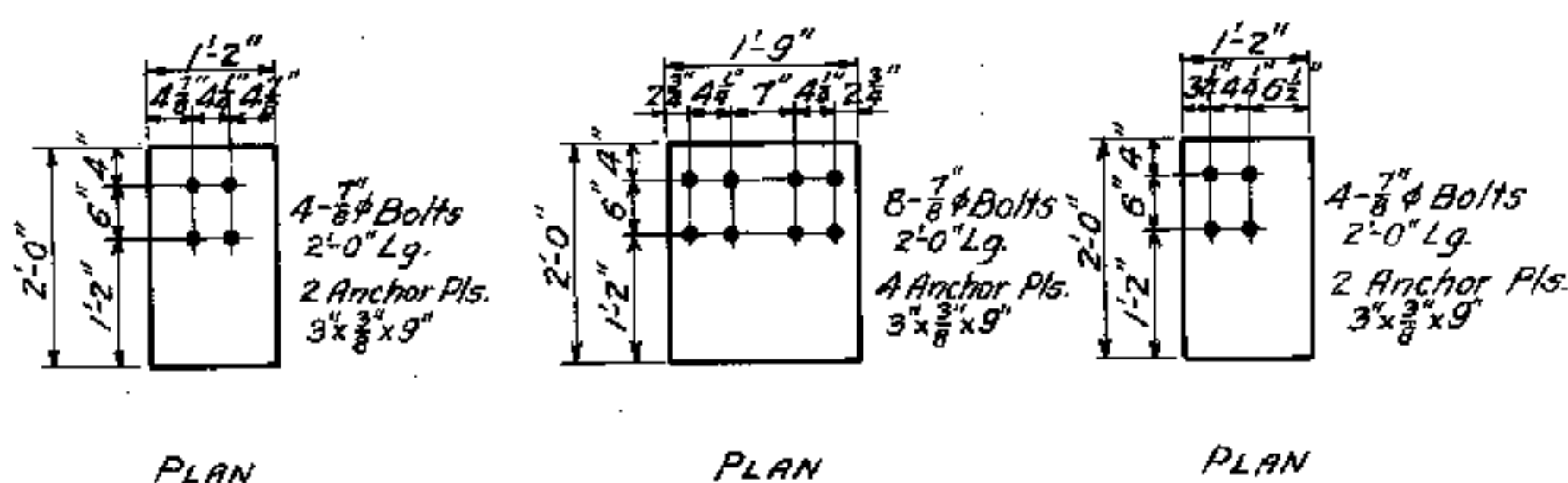
PLAN

Scale: $\frac{3}{16}'' = 1'-0''$



SECTION K-K

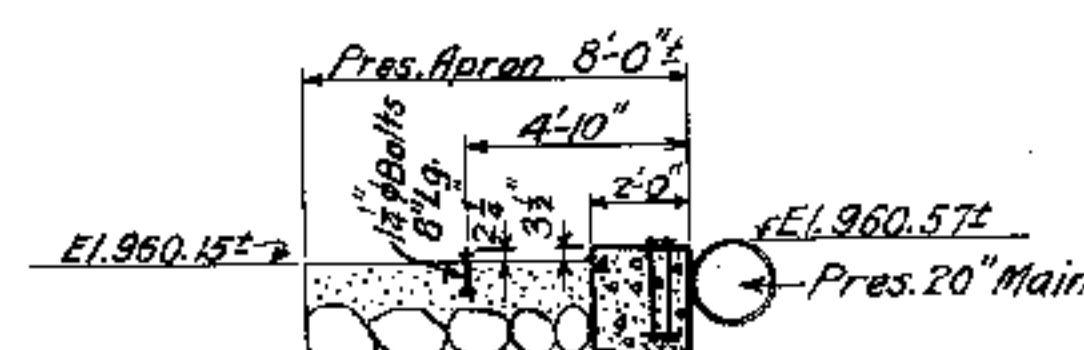
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PLAN

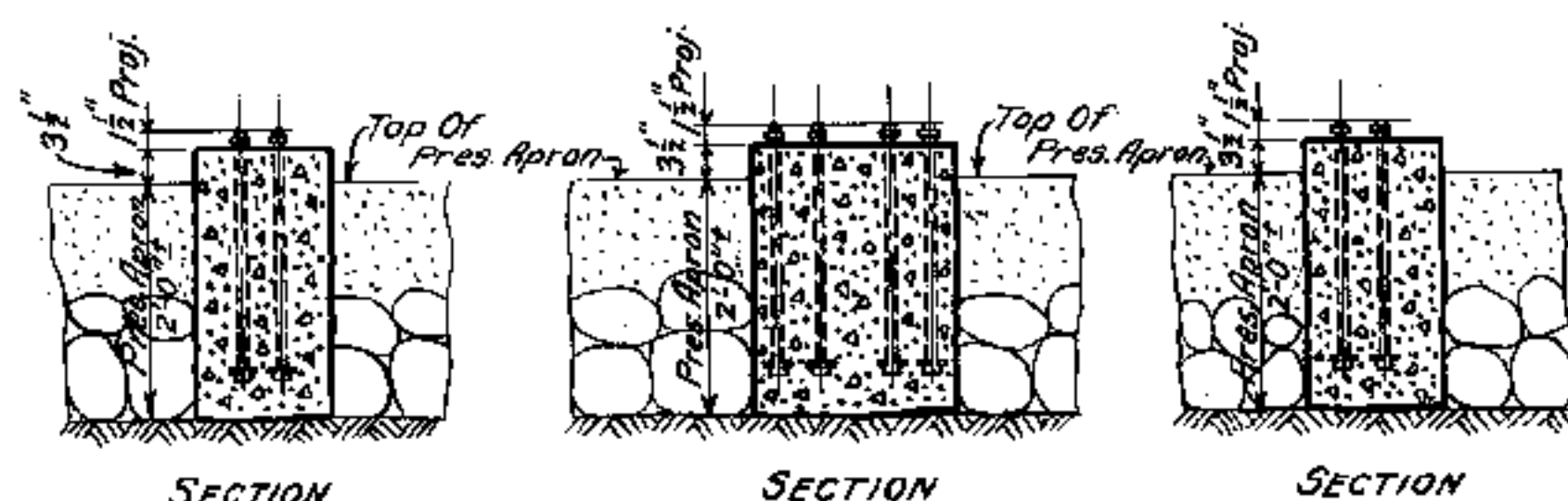
PLAN

PLAN



SECTION L-L

Scale: $\frac{3}{16}'' = 1'-0''$



SECTION

SECTION

SECTION

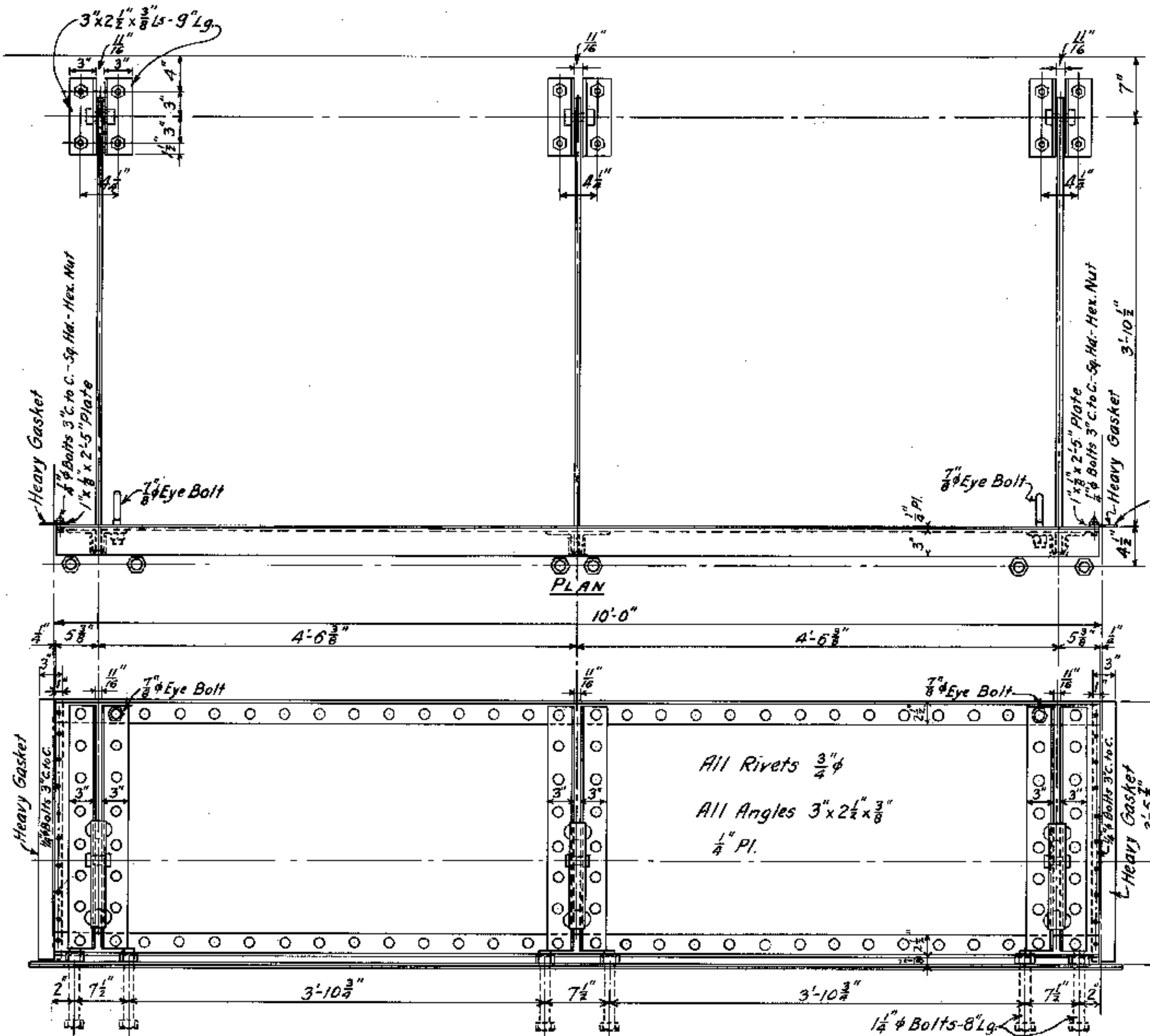
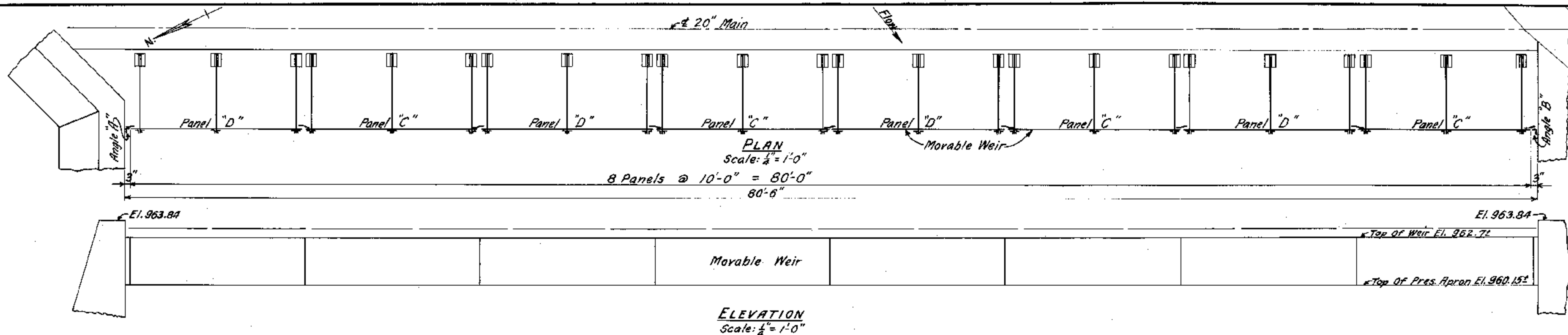
PIER A
9 REQUIRED
Scale: $\frac{1}{2}'' = 1'-0''$

PIER B
7 REQUIRED
Scale: $\frac{1}{2}'' = 1'-0''$

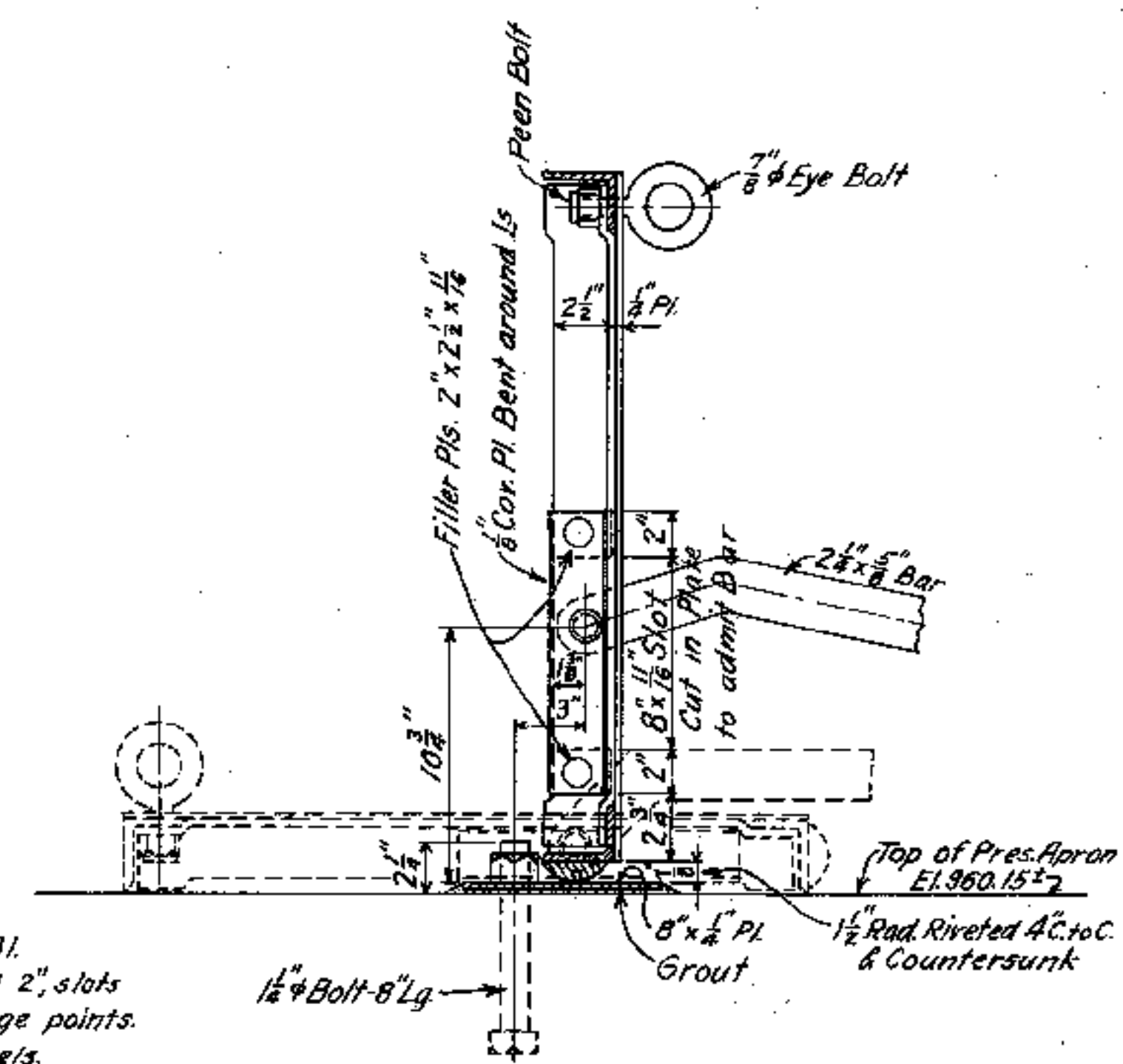
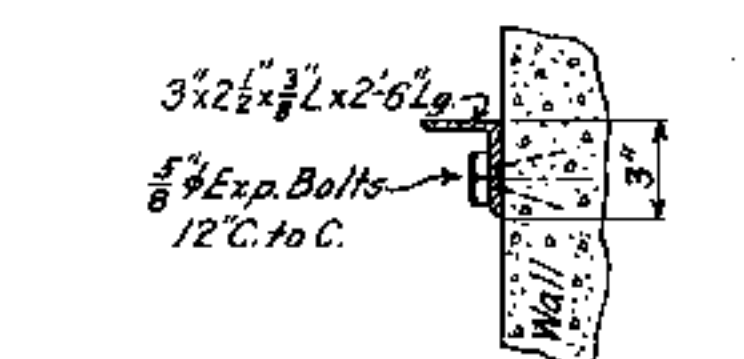
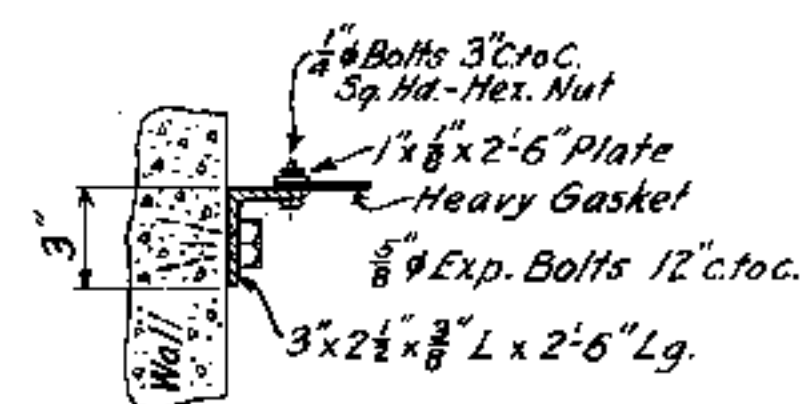
PIER C
1 REQUIRED
Scale: $\frac{1}{2}'' = 1'-0''$

REVISIONS 5-12-31 F.E.G. FIELD ELEVATIONS OF BOT. OF WALLS ADDED 1-20-31 F.E.G. TRACED 11-23-31 F.E.G.	MASONRY FOR MOVABLE WEIR WHITEWATER RIVER NEAR PUMPING STATION RICHMOND WATER WORKS CORP. RICHMOND, IND. AMERICAN CONSTRUCTION AND SECURITIES COMPANY ENGINEERS AND CONTRACTORS 50 BROAD STREET NEW YORK CITY SCALE: $\frac{3}{16}'' = 1'-0''$ USE DIMENSIONS ONLY DRAWN BY F.E.G. DATE: APR. 21, 1931 CHECKED BY APPROVED G.A.W. JOB: 206A INSP. BY M.W.A. USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES
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78-51 H



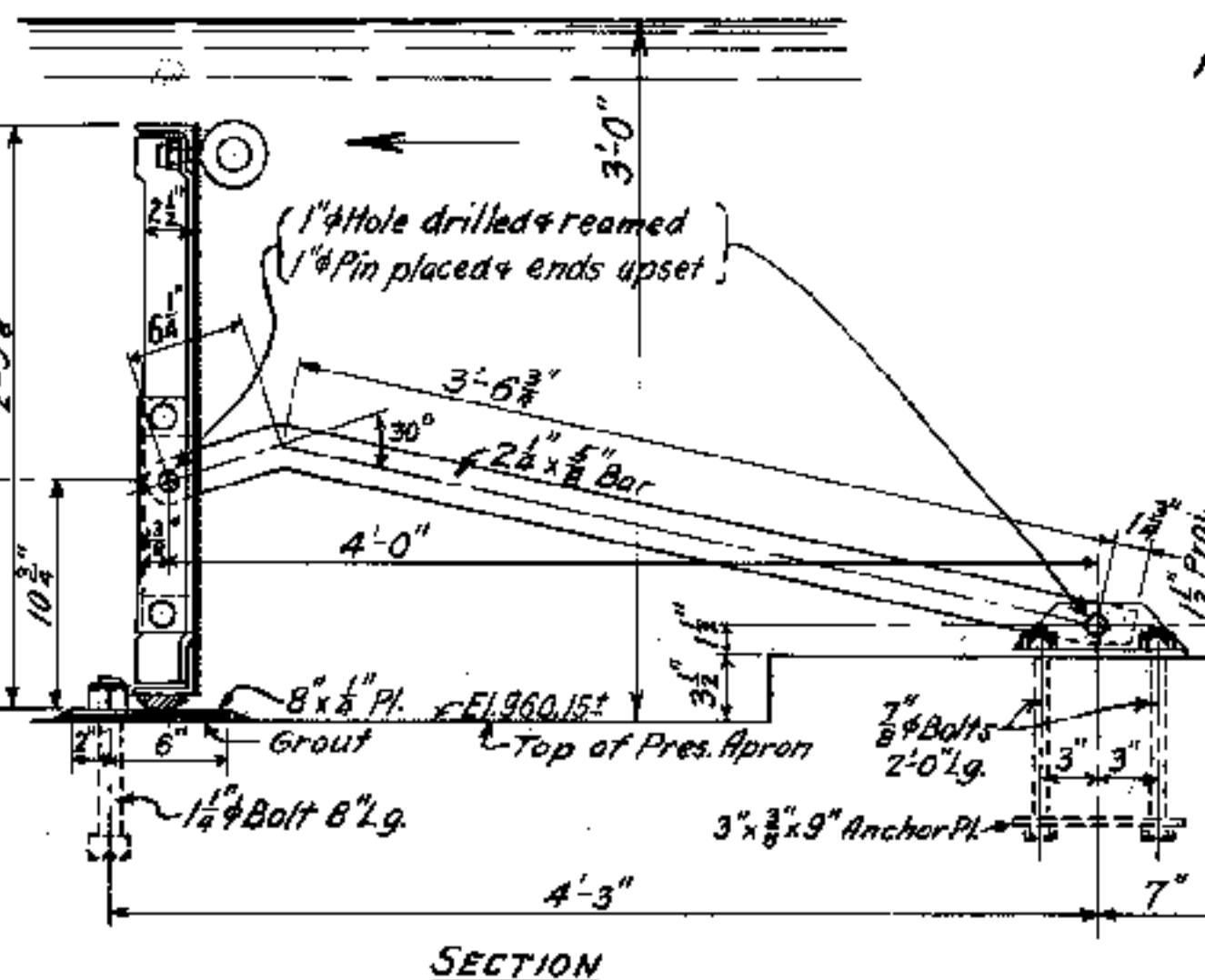
PANEL "C" - As SHOWN - WITH GASKETS - 4 REQUIRED
PANEL "D" WITHOUT GASKETS - 4 REQUIRED
Scale: $1'' = 1'-0''$



26-122 Sept. 21, 1931.
Hinge pin on Panel No. 2 lowered 2", slots lengthened, loosened bolts at hinge points.
5 1/2" wood boards placed on 7 panels.
No. 2 tripped at 3 1/2" over top of No. 2.
No. 2 held in place by cable.
7 others held in place by another cable to both banks.

NOTE:-

Panels shall be placed 10'-0" apart on centers. The heavy gaskets shown shall be provided at each end of Panel "C" and on Angle "A" to form a water-tight joint. Vertical angles of Panels "C" and "D" are to be crimped.
All steel work is to be given one shop coat of red lead in linseed oil and two field coats of Inertol.

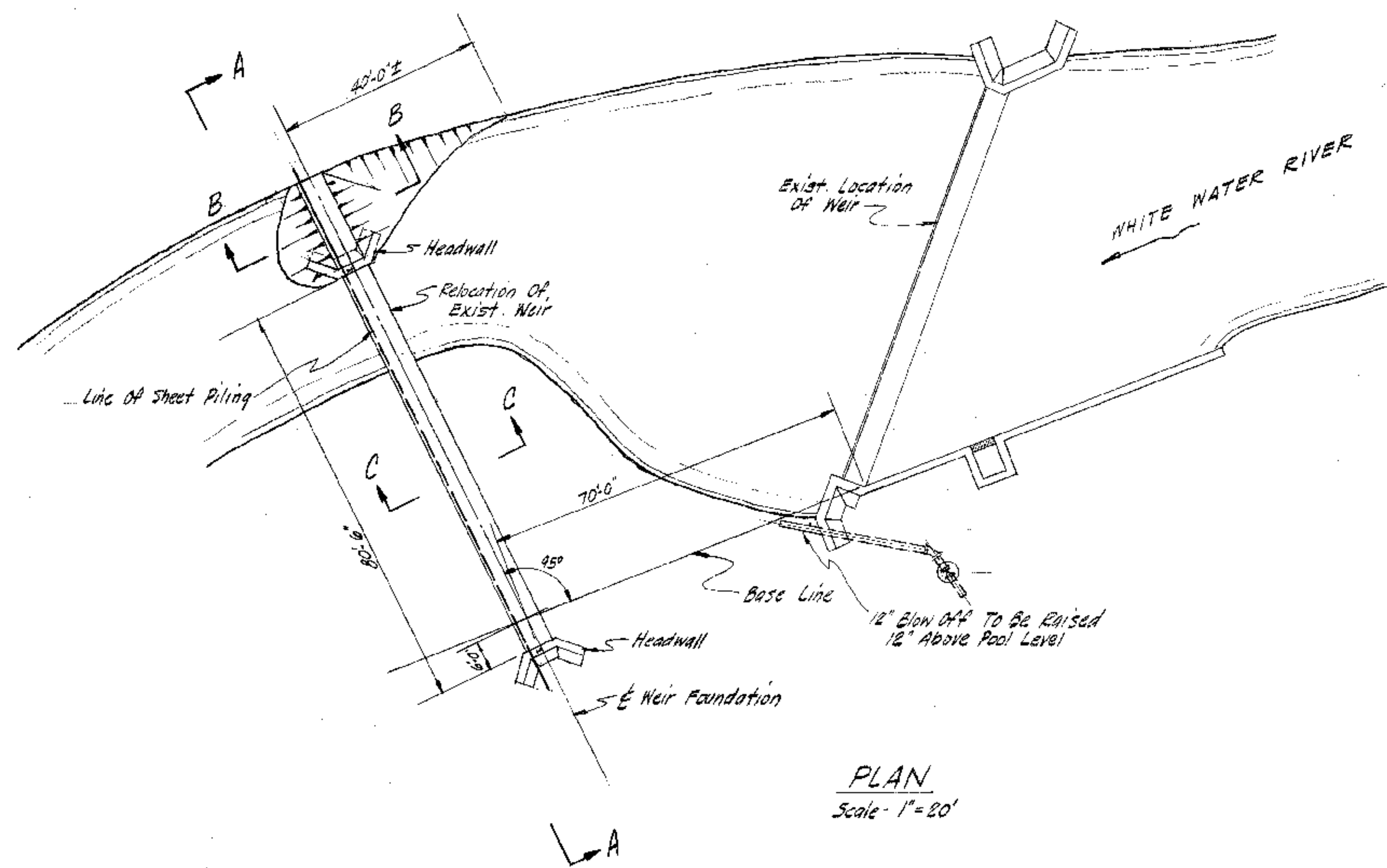
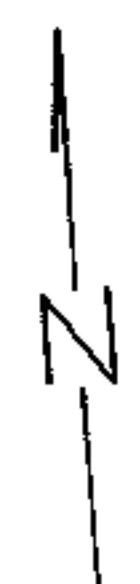


REVISIONS	DATE	BY
5-12-31	F.E.G.	
12-4-31	F.E.G.	

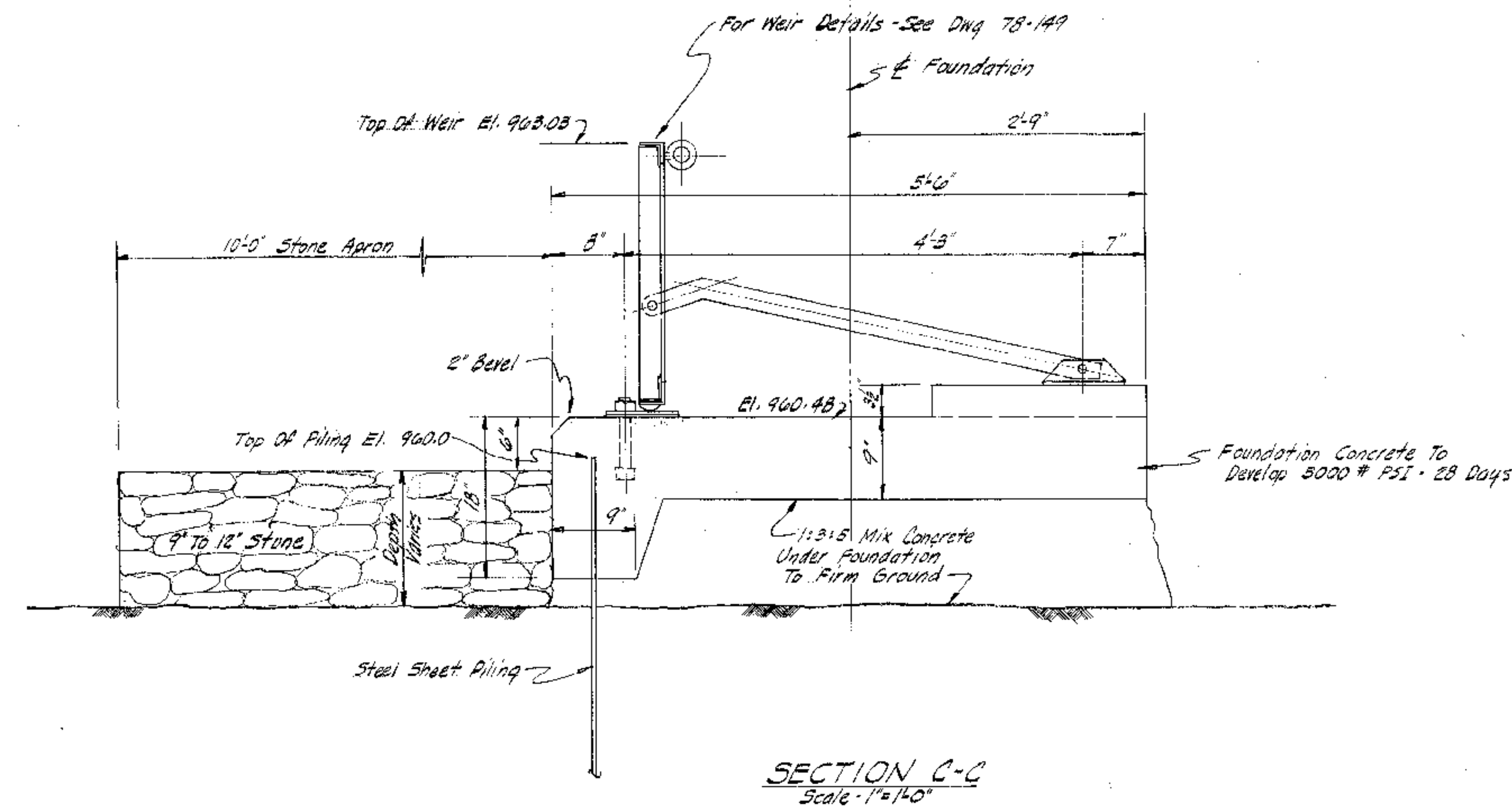
MOVABLE WEIR
WHITEWATER RIVER
NEAR PUMPING STATION
RICHMOND WATER WORKS CORP.
RICHMOND, IND.

AMERICAN CONSTRUCTION AND SECURITIES COMPANY
ENGINEERS AND CONTRACTORS
50 BROAD STREET NEW YORK CITY
SCALE: $\frac{1}{2}''$, $1\frac{1}{2}''$ = 1'-0"
DRAWN BY F.E.G. DATE: APR. 21, 1931 CHECKED BY
APPROVED G.A.W. JOB: 206A INSP. BY A.W.A.
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES

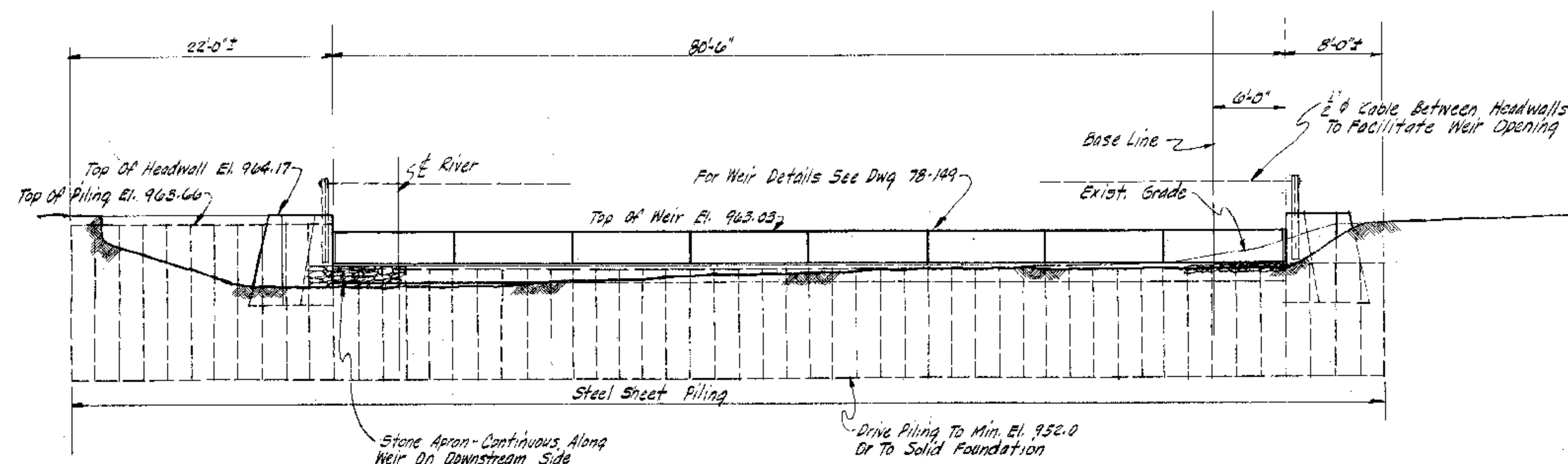
78-52 H



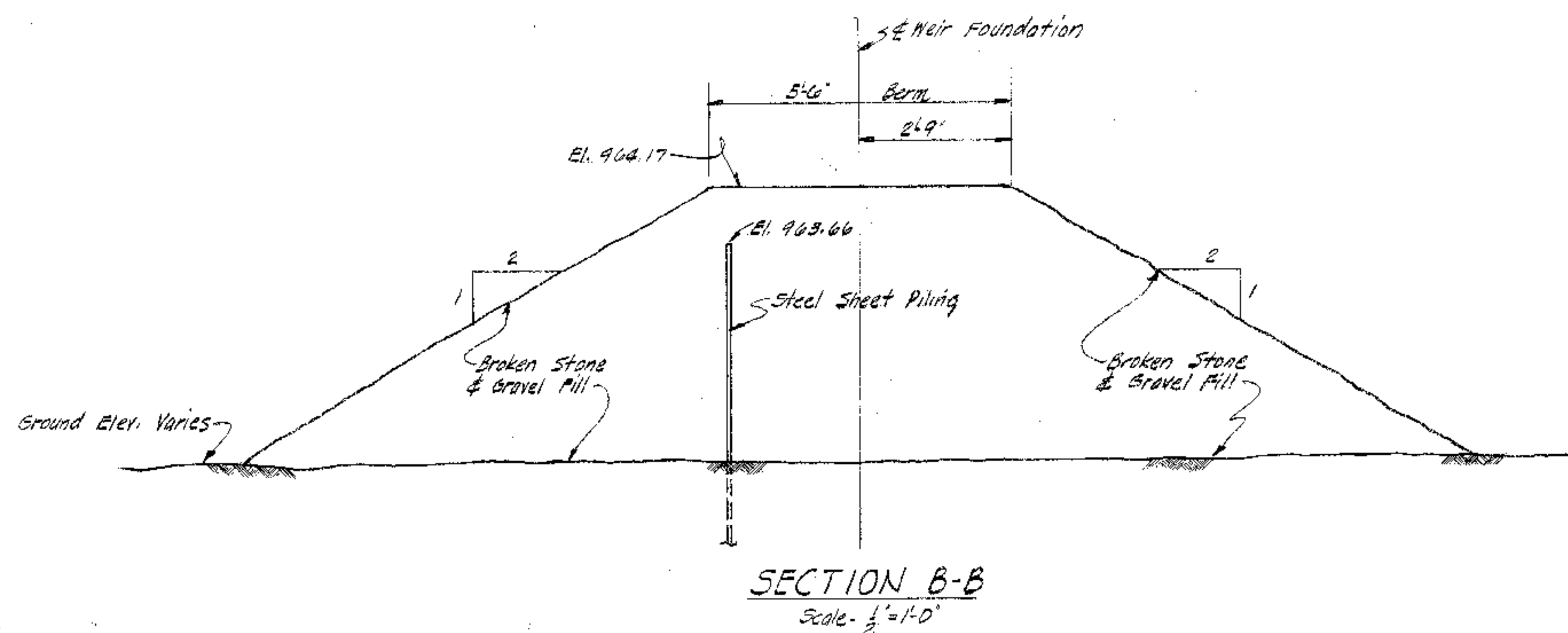
PLAN
Scale - 1" = 20'



SECTION C-C
Scale - 1" = 10'



SECTION A-A
Scale - 1" = 10'

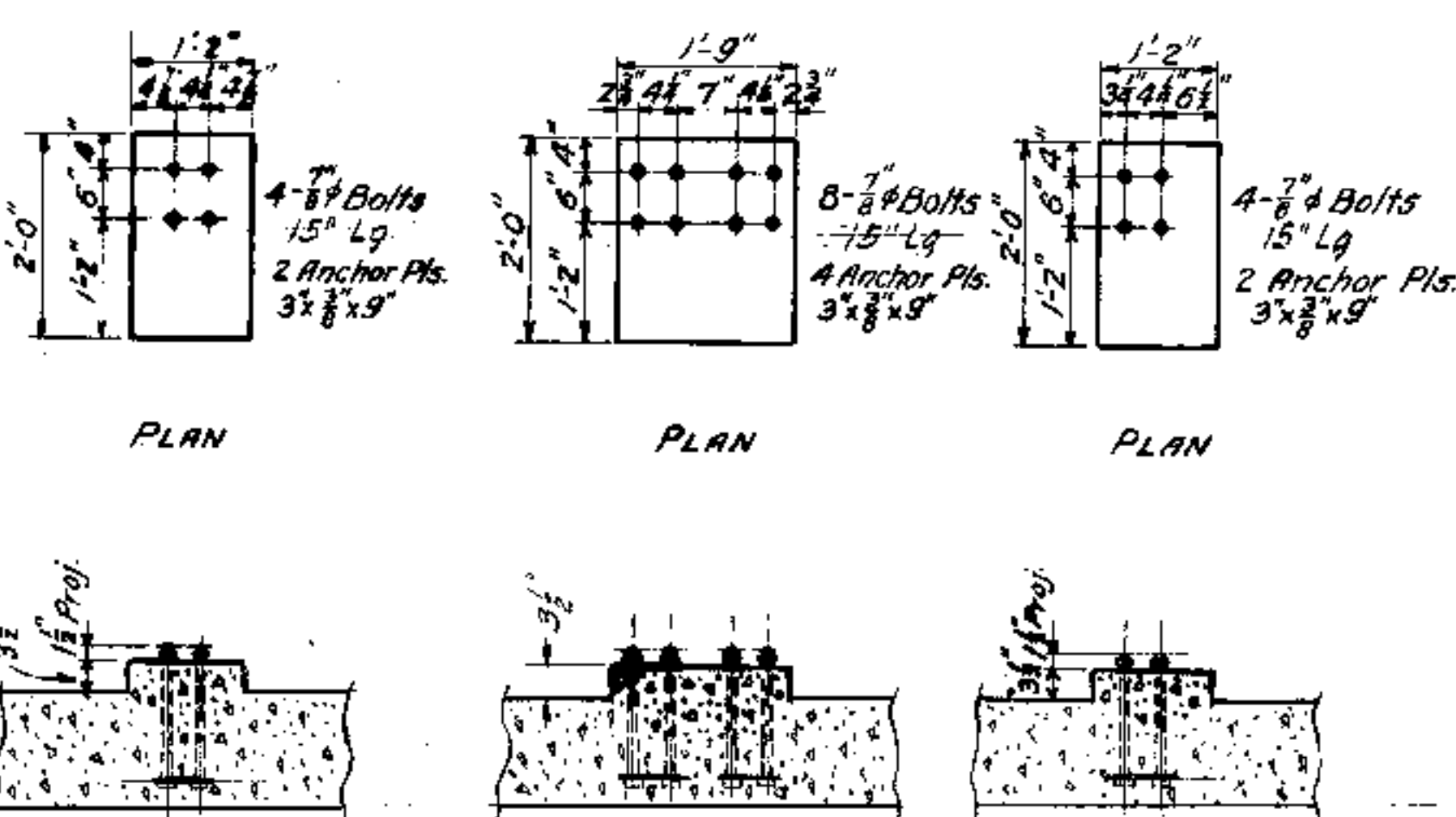
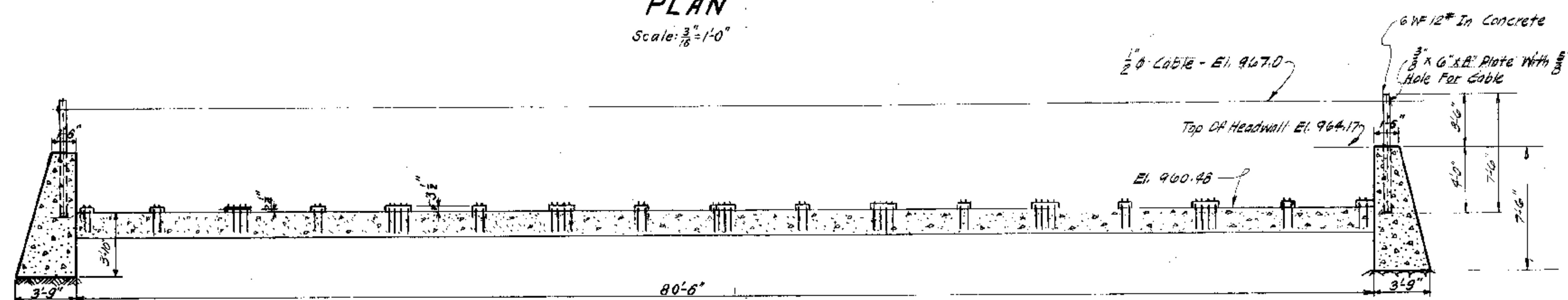
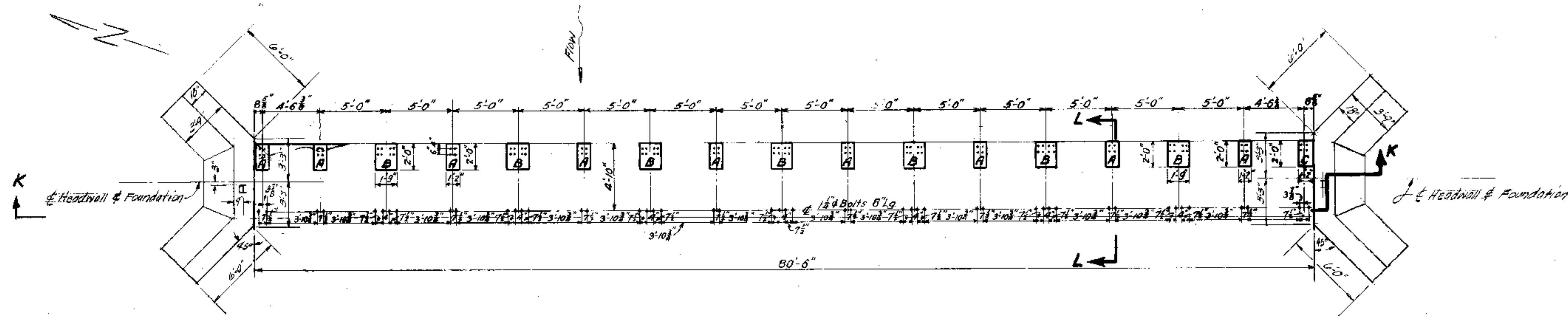


SECTION B-B
Scale - 1" = 10'

Note:
Existing Weir To Be Relocated At
New Location
All Structural Members & Bolts Not
In Good Condition Are To Be Replaced

REVISIONS		WHITEWATER RIVER DAM MOVABLE WEIR PLAN & SECTIONS	
		RICHMOND WATERWORKS CORP. RICHMOND, IND.	
		AMERICAN WATER WORKS SERVICE COMPANY, INC. 121 SOUTH BROAD STREET PHILADELPHIA 7, PA.	
SCALE: NOTED		USE DIMENSIONS ONLY	
DRAWN BY JTB		DATE: 10-8-58 CHECKED BY	
APPROVED H.J.C.		PROJECT P-21 INSP. BY	
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES		78-148	

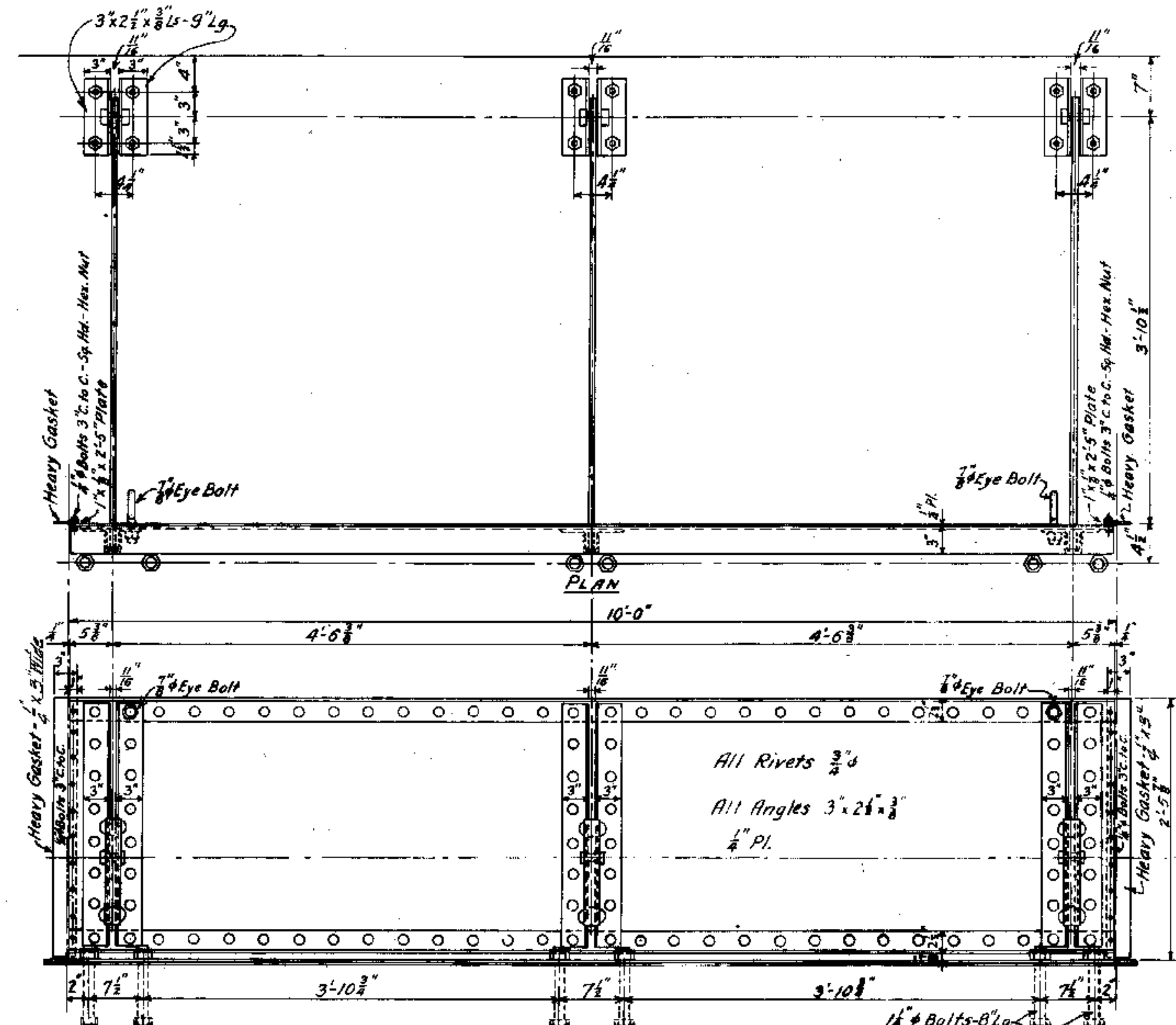
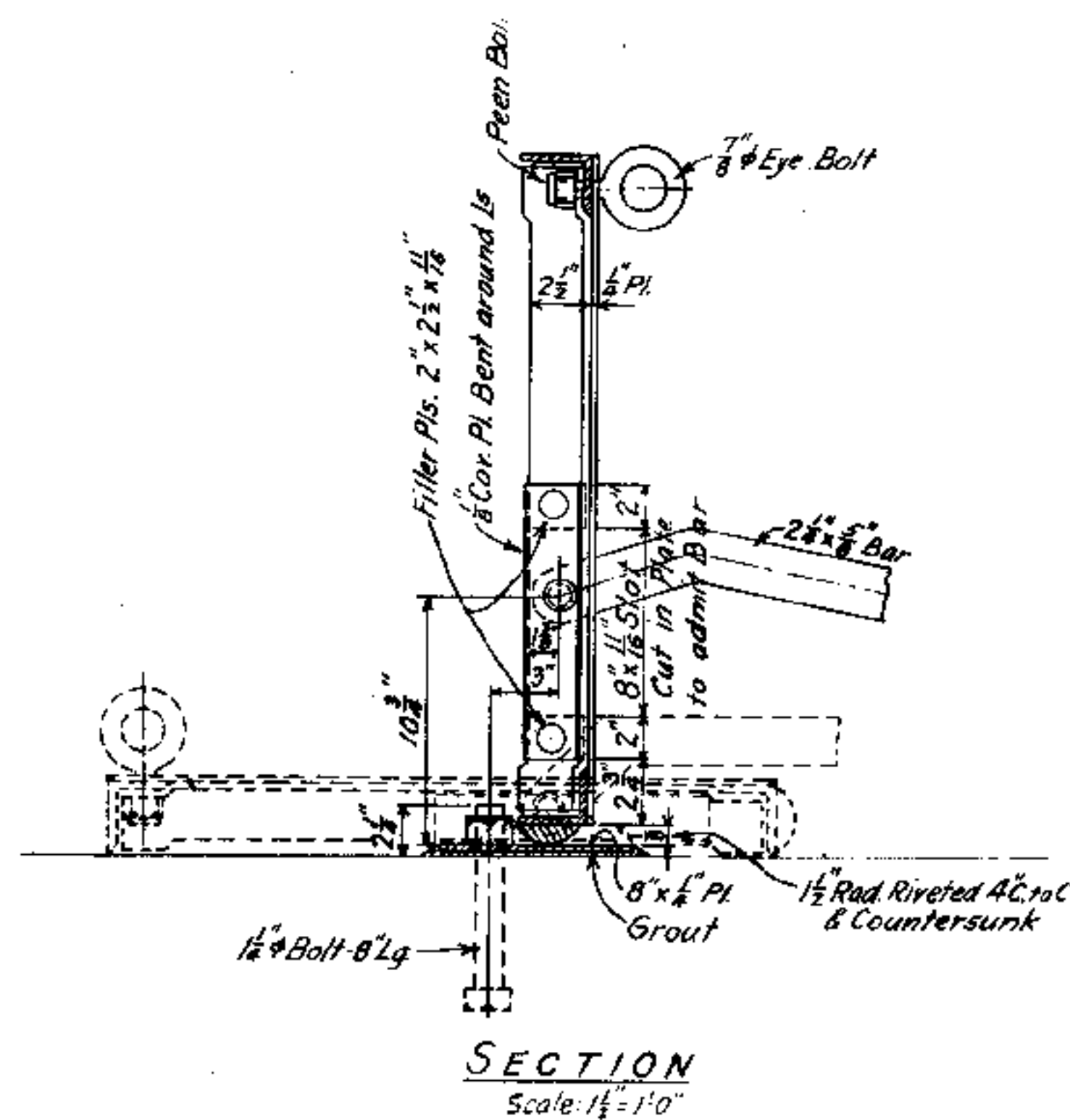
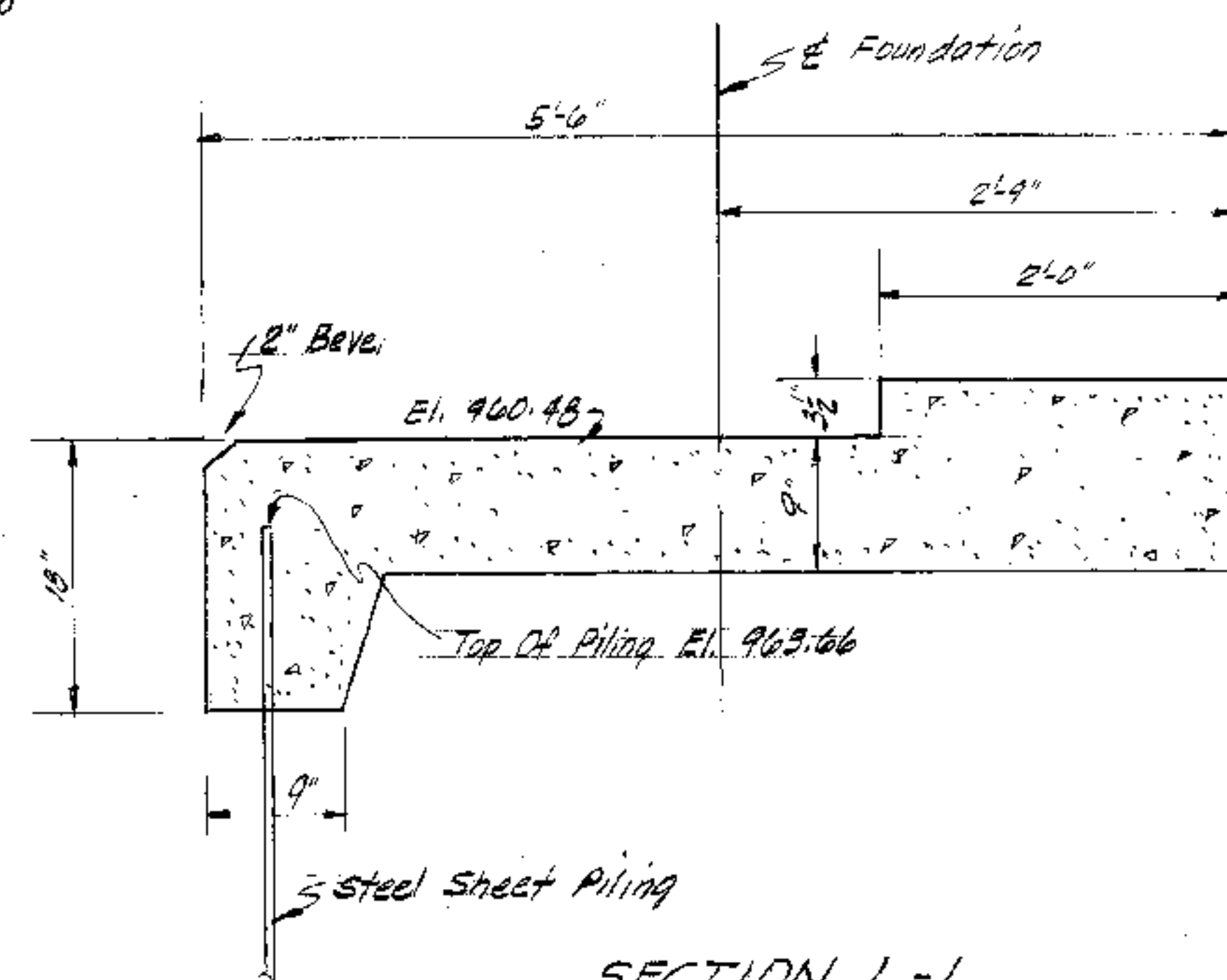
50 DEC 1958



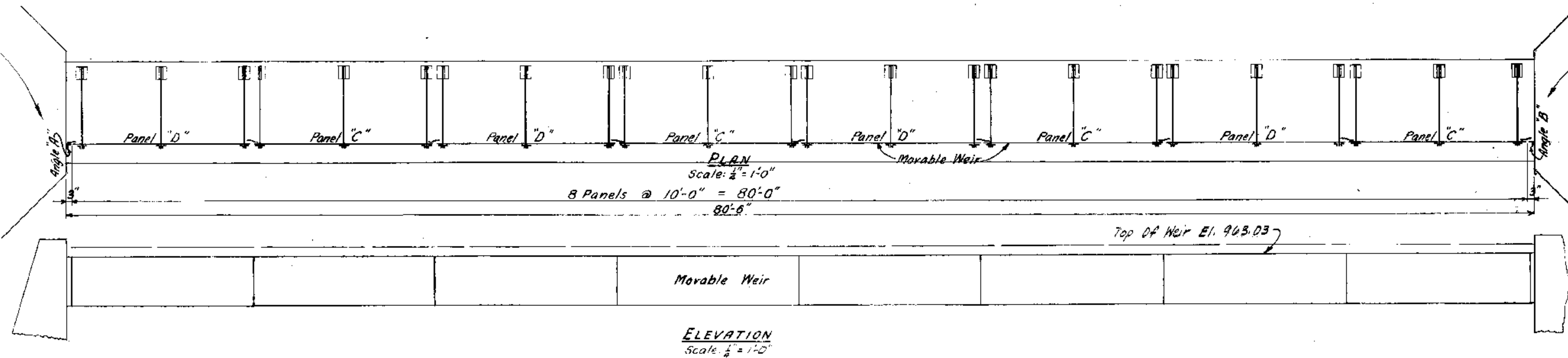
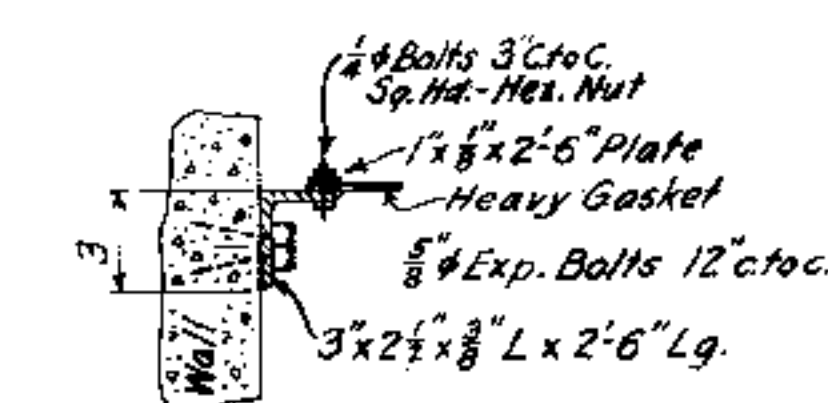
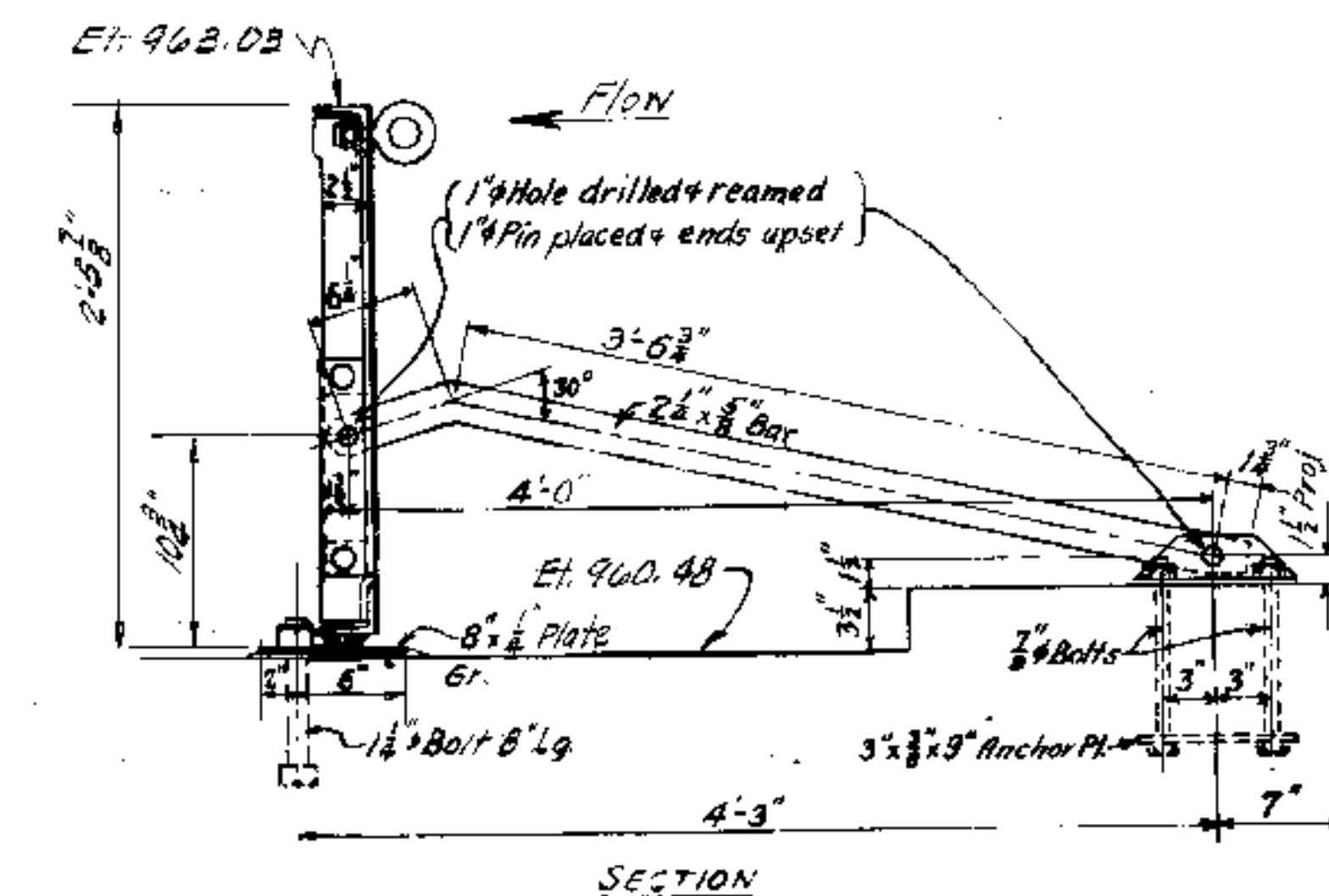
SECTION
PIER A
9 REQUIRED
Scale: $\frac{1}{2}'' = 1'-0''$

SECTION
PIER B
7 REQUIRED
Scale: $\frac{1}{2}'' = 1'-0''$

SECTION
PIER C
1 REQUIRED
Scale: $\frac{1}{2}'' = 1'-0''$



PANEL 'C' - AS SHOWN - WITH GASKETS - 4 REQUIRED
PANEL 'D' WITHOUT GASKETS - 4 REQUIRED
Scale: $1'' = 1'-0''$



DETAIL OF ANGLE 'B'
1 REQUIRED
Scale: $\frac{1}{2}'' = 1'-0''$

REVISIONS	WHITEWATER RIVER DAM MOVABLE WEIR DETAILS		
	RICHMOND WATERWORKS CORP. RICHMOND, IND.		
	AMERICAN WATER WORKS SERVICE COMPANY, INC. 121 SOUTH BROAD STREET PHILADELPHIA 7, PA.		
	SCALE: NOTED	DATE: 10-8-52	USE DIMENSIONS ONLY
	DRAWN BY JTB	CHECKED BY	
	APPROVED H.J.C.	PROJECT P-21	INSP. BY
USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES			78-149