



COLORADO WATER CONSERVATION BOARD



WATER SUPPLY RESERVE ACCOUNT GRANT APPLICATION FORM

**Jackson County Water Conservancy District's
Structures For Water Control: Headgates and Diversion**

Name of Water Activity/Project

Approving Basin Roundtable

\$128,828.00

Amount from Statewide Account

0.00

Total Amount of Funds Requested

Amount from Basin Account

\$128,828.00

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Water Supply Reserve Account – Grant Application Form

Form Revised March 2009

Instructions

To receive funding from the Water Supply Reserve Account (WSRA), a proposed water activity must be approved by the local Basin Roundtable AND the Colorado Water Conservation Board (CWCB). The process for Basin Roundtable consideration/approval is outlined in Attachment 1.

Once approved by the local Basin Roundtable, the applicant should submit this application, a detailed statement of work, detailed project budget, and project schedule to the CWCB staff by the application deadline.

The application deadlines are:

- * Basin Account – 60 calendar days prior to the bi-monthly Board meeting
- * Statewide Account – 60 calendar days prior to the September Board meeting

Board Meeting Dates	Basin Account Deadlines	Statewide Account Deadlines
July 20-21, 2010	May 21, 2010	n/a
September 21-22	July 23, 2010	July 23, 2010
November 16-17	September 17, 2010	n/a
January 2011	60 days prior	n/a
March 2011	60 days prior	n/a
May 2011	60 days prior	n/a
July 2011	60 days prior	n/a
September 2011	60 days prior	60 days prior

When completing this application, the applicant should refer to the WSRA Criteria and Guidelines available at: <http://cwcb.state.co.us/IWMD>.

The application, statement of work, budget, and schedule must be submitted in electronic format (Microsoft Word or text-enabled PDF are preferred) and can be emailed or mailed on a disk to:

Mr. Todd Doherty
Colorado Water Conservation Board
Water Supply Planning Section
WSRA Application
1580 Logan Street, Suite 200
Denver, CO 80203
Todd.Doherty@state.co.us

If you have questions or need additional assistance, please contact Todd Doherty of the Water Supply Planning Section at 303-866-3441 x3210 or todd.doherty@state.co.us.

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Part A. - Description of the Applicant (Project Sponsor or Owner);

1.	Applicant Name(s):	Jackson County Water Conservancy District	
	Mailing address:	P.O. Box 1019 Walden, CO. 80480 Attention: Kent Crowder	
	ID#:	84-0934121	Email address: kentcrowder@aol.com
	Phone Numbers: Office:	970-723-4660	
	Cell:	970-218-4532	
	Fax:	970-723-4706	

2. **Person to contact regarding this application if different from above:**

Name:	Kent Crowder
Position/Title	Board President

3. **Eligible entities that may apply for grants from the WSRA include the following. What type of entity is the Applicant?**

- ☐ Public (Government) – municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities and the local entity should be the grant recipient. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
- ☒ Public (Districts) – special, water and sanitation, conservancy, conservation, irrigation, or water activity enterprises.
- ☐ Private Incorporated – mutual ditch companies, homeowners associations, corporations.
- ☐ Private individuals, partnerships, and sole proprietors are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
- ☐ Non-governmental organizations – broadly defined as any organization that is not part of the government.

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4. Provide a brief description of your organization

The owners of the irrigated and non-irrigated lands, and the lands embraced in the incorporated limits of towns, all situated within the limits of Jackson County, petitioned for the formation of the Jackson County Water Conservancy District under the provisions of Article VI of Chapter 149, Colorado Revised Statutes 1953, as amended, and the Jackson County Water Conservancy District was created by order of the District Court in and for the County of Jackson State of Colorado on the 7th day of November 1961. The board consists of 7 elected directors, 1 from each division.

The Jackson County Water Conservancy District (JCWCD) was formed as a political subdivision of the State of Colorado and a body corporate with all the powers of a public corporation with the boundaries of the District being co-extensive with the exterior boundary lines of Jackson County, Colorado. The District was established to obtain, from water originating in Colorado, the highest duty for domestic uses, irrigation, and future development pursuant to the equitable apportionment provisions of *Nebraska v. Wyoming*, 325 U.S. 589 (1945) as modified in 345 U.S. 981 (1953) (the “U.S. Supreme Court Decree”).

5. If the Contracting Entity is different then the Applicant (Project Sponsor or Owner) please describe the Contracting Entity here.

Not applicable

6. Successful applicants will have to execute a contract with the CWCB prior to beginning work on the portion of the project funded by the WSRA grant. In order to expedite the contracting process the CWCB has established a standard contract with provisions the applicant must adhere to. A copy of this standard contract is included in Attachment 3. Please review this contract and check the appropriate box.

☒ The Applicant will be able to contract with the CWCB using the Standard Contract

☐ The Applicant has reviewed the standard contract and has some questions/issues/concerns. Please be aware that any deviation from the standard contract could result in a significant delay between grant approval and the funds being available.

7. The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

Not Applicable. The JCWCD has been de-Bruced by approval of the voters of the district.

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Part B. - Description of the Water Activity

1. Name of the Water Activity/Project:

*Jackson County Water Conservancy District's
Structures for Water Control: Headgates and Diversion*

2. What is the purpose of this grant application? (Please check all that apply.)

☐

Environmental compliance and feasibility study

☐

Technical Assistance regarding permitting, feasibility studies, and environmental compliance

☐

Studies or analysis of structural, nonstructural, consumptive, nonconsumptive water needs, projects

Study or Analysis of:

☐

Structural project or activity

☐

Nonstructural project or activity

☐

Consumptive project or activity

☐

Non-consumptive project or activity

☐

x

Structural and/ or nonstructural water project or activity

3. Please provide an overview/summary of the proposed water activity (no more than one page). Include a description of the overall water activity and specifically what the WSRA funding will be used for.

The Jackson County Water Conservancy District, proposes to replace four old, deteriorating headgate structures and install one new, permanent diversion structure within Jackson County. Each of the proposed structures is critical in the delivery of irrigation water to storage and/or to irrigated ground.

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Currently the existing headgate structures are in extremely poor condition. They are deteriorating and incapable of safely, effectively and efficiently controlling and regulating water flow into the Bostwick, Mutual, Staples 1, and Squibob ditches. At the present time, there is no permanent diversion structure, in the Michigan River. A temporary combination of rocks, sod, pipe and wire panels are annually installed in order to divert water into the Richmond Ditch.

The proposed new headgate structures will allow the water user's to safely, effectively and efficiently control and regulate the amount of water entering each of the associated ditches. The proposed diversion structure will serve as a permanent check structure, thus eliminating annual damage to the streambanks and reducing sediment discharge. Installing these improved structures will not only help to maintain our current agricultural economic base, but they will help to meet the identified consumptive need of increasing irrigated acres within the county. Improved water efficiency is a benefit to all consumptive and associated non-consumptive uses of irrigation water.

The installation of the structures will also address both the agricultural and environmental water needs in a cost effective, collaborative way. The structures proposed, on the five different ditches, provide irrigation water to nineteen different individuals and entities that irrigate over 12,000 acres of hay and pasture land in Jackson County. In addition to irrigating the highly valuable hayland, the irrigation water creates irrigation induced wetlands and riparian areas that provide habitat for many species of big game, waterfowl and upland birds, including the Greater Sage Grouse. The ditches, wetlands and riparian areas all provide a variety of recreational opportunities as well.

The Jackson County Water Conservancy District has received technical and engineering assistance through the Natural Resources Conservation Service (NRCS) for the survey and design of the proposed structures. NRCS will continue to provide technical support throughout the construction, revegetation, and maintenance phases of the project.

Ninety percent of the requested WSRA funds will be used in the actual construction and installation of the new, shovel ready structure projects. The remaining ten percent of the requested funds will be used for the clerical/administration costs associate with the projects.

Part C. – Threshold and Evaluation Criteria

1. **Describe how the water activity meets these Threshold Criteria. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)**
 - a. The participants and the projects are all eligible under the criteria outlined in “Threshold Criteria (a.)”.
 - b. The water activity will be consistent with Section 37-75-102 Colorado Revised Statutes.¹ Implementation of this project will not harm, nor adversely affect any other appropriations, but will in fact improve the water holder’s and commissioner’s abilities to better manage the water rights associated with the Bostwick, Mutual, Staples 1., Squibob and Richmond Ditches.
 - c. This proposal will be evaluated by the North Park Basin Round Table (NPBRT) at their June, 2011 meeting. Results of their evaluation and decision will be submitted in the future.
 - d. Mr. Kent Crowder, Chairman of NPBRT, has provided the attached letter of approval of this application.

2. **Matching Requirement: For requests from the Statewide Fund, the applicants is required to demonstrate a 20 percent (or greater) match of the request from the Statewide Account. Sources of matching funds include but are not limited to Basin Funds, in-kind services, funding from other sources, and/or direct cash match. Past expenditures directly related to the project may be considered as matching funds if the expenditures occurred within 9 months of the date the application was submitted to the CWCB. Please describe the source(s) of matching funds. (NOTE: These matching funds should also be reflected in your Detailed Budget in Part D of this application)**

This is not a request for Statewide Account funds.

¹ 37-75-102. Water rights - protections. (1) It is the policy of the General Assembly that the current system of allocating water within Colorado shall not be superseded, abrogated, or otherwise impaired by this article. Nothing in this article shall be interpreted to repeal or in any manner amend the existing water rights adjudication system. The General Assembly affirms the state constitution's recognition of water rights as a private usufructuary property right, and this article is not intended to restrict the ability of the holder of a water right to use or to dispose of that water right in any manner permitted under Colorado law. (2) The General Assembly affirms the protections for contractual and property rights recognized by the contract and takings protections under the state constitution and related statutes. This article shall not be implemented in any way that would diminish, impair, or cause injury to any property or contractual right created by intergovernmental agreements, contracts, stipulations among parties to water cases, terms and conditions in water decrees, or any other similar document related to the allocation or use of water. This article shall not be construed to supersede, abrogate, or cause injury to vested water rights or decreed conditional water rights. The General Assembly affirms that this article does not impair, limit, or otherwise affect the rights of persons or entities to enter into agreements, contracts, or memoranda of understanding with other persons or entities relating to the appropriation, movement, or use of water under other provisions of law.

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3. **For Applications that include a request for funds from the Statewide Account, describe how the water activity meets the Evaluation Criteria. (Detailed in Part 3 of the Water Supply Reserve Account Criteria and Guidelines.)**

Not Applicable – No statewide funds requested.

Part D. – Required Supporting Material

1. **Water Rights, Availability, and Sustainability**

The Bostwick Ditch: Donald Culver and Silver Spur Ranches own a total of 82.5 cubic feet of irrigation and stock water.

The Mutual Ditch: Evans Cattle Co., Kohlmans O.K. LP, Boyer Ridge, Felch & Nichols, Ray Stevens Trust and James Elliot own a total of 158 cubic feet of irrigation, stock and domestic water.

The Staples 1. Ditch: Jim Chance, AH VanValkenburg and Gruber own a total of 100 cubic feet of irrigation water.

The Squibob Ditch: Baller Livestock, Bernard Gateau, Michigan River Cons District and Markus Funk own a total of 106.5 cubic feet of irrigation and stock water.

The Richmond Ditch: Murphy Ranch owns a total of 6 cubic feet of irrigation water.

***** Reference: the attached water right information.

Each of the above ditches shall be affected by the installation of the new structures. However, measures shall be taken to assure that implementation of this project will not harm nor adversely affect any appropriations, but will in fact improve the water user's and commissioner's abilities to better manage the water rights and flows associated with the Bostwick, Mutual, Staples 1., Squibob and Richmond Ditches.

2. **Please provide a brief narrative of any related or relevant previous studies.**

Not Applicable

3. Statement of Work, Detailed Budget, and Project Schedule

Statement of Work

**WATER ACTIVITY NAME – Jackson County Water Conservancy District’s
Structures For Water Control: Headgates and Diversion**

GRANT RECIPIENT – Jackson County Water Conservancy District

FUNDING SOURCE – WSRA: North Platte Basin Roundtable Allocation

INTRODUCTION AND BACKGROUND:

Provide a brief description of the project. (Please limit to no more than 200 words; this will be used to inform reviewers and the public about your proposal)

The Jackson County Water Conservancy District, proposes to replace four old, deteriorating headgate structures and install one new, permanent diversion structure within Jackson County. Each of the proposed structures is critical in the delivery of irrigation water to storage and/or to irrigated ground.

The proposed new headgate structures will allow the water user’s to safely, effectively and efficiently control and regulate the amount of water entering each of the associated ditches. The proposed diversion structure will serve as a permanent check structure, thus eliminating annual damage to the streambanks and reducing sediment discharge. Installing these improved structures will not only help to maintain our current agricultural economic base, but they will help to meet the identified consumptive need of increasing irrigated acres within the county. Improved water efficiency is a benefit to all consumptive and associated non-consumptive uses of irrigation water.

The installation of the structures will also address both the agricultural and environmental water needs in a cost effective, collaborative way. In addition to irrigating the highly valuable hayland, the irrigation water creates irrigation induced wetlands and riparian areas that provide habitat for many species of big game, waterfowl and upland birds, including the Greater Sage Grouse. The ditches, wetlands and riparian areas all provide a variety of recreational opportunities as well.

The Jackson County Water Conservancy District has received technical and engineering assistance through the Natural Resources Conservation Service (NRCS) for the survey and design of the proposed structures. NRCS will continue to provide technical support throughout the construction, revegetation, and maintenance phases of the project.

OBJECTIVES:

1. To install Structures for Water Control that will safely, efficiently and effectively control or divert water flows into the Bostwick, Mutual, Staples 1., Squibob and Richmond Ditches.
2. To provide the water users and commissioners with a better means of controlling and administering the water rights and flows associated with each of the ditches above.

TASKS:

TASK 1 – Determination of Project Need and Feasibility (COMPLETED)

Description of Task – Determine the need and feasibility of installing the new structures.

Method/Procedure – Site visits: A owner representative for each of the proposed structures and a NRCS Representative shall view and inspect each of the proposed structures.

- ✓ Assessed the current condition of each of the existing structures and determined the need, feasibility and cost of installing new structures.

Deliverable – Proposed structures were determined to be needed and feasible.

TASK 2 – Engineering Survey and Design (COMPLETED)

Description of Task - Perform the on-site engineering survey and design the planned structures.

Method/Procedure - Follow-up visit: NRCS staff

- ✓ Surveyed and designed each of the proposed structures.

Deliverable – An engineering plan, structure design and copy of NRCS's Standards and Specifications shall be provided to the owner representative for each structure once application is approved. Each structure is now a **shovel ready project**.

**** Reference: the attached NRCS Structure for Water Control designs.

TASK 3 – Project Construction and Installation

Description of Task – The planned Structures for Water Control shall be installed.

Method/Procedure – On site: Contractor (NRCS staff and owner representative when needed)

- ✓ the structures shall be constructed/installed
- ✓ the sites shall be smoothed and reseeded

Deliverable - Complete and properly functioning Structures for Water Control.

REPORTING AND FINAL DELIVERABLE

Reporting: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the statement of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Deliverable: At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

- ✓ *A final report will be provided to the CWCB after the construction and installation of the project is completed.*

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BUDGET

Total Cost Estimate		
Task	Labor/Equipment/Materials	Cost
Task 1 – Need and Feasibility	NRCS staff: In-Kind Contribution Project Contact Person: In-Kind Contribution	1,500.00
Task 2 – Survey and Design	NRCS staff: In-Kind Contribution	12,000.00
Task 3 – Construction and Installation	Contractor : Materials & Labor Bostwick Headgate Mutual Headgate Staples 1. Headgate Squibob Headgate Richmond Diversion	26,630.00 35,350.00 26,313.00 20,185.00 20,350.00
Task 3 – Administration	JCWCD administrative assistance (10% of total cost)	12,883.00
Total Cost Estimate:		155,211.00
Contributions		
Applicant / Landowner Contribution: Bostwick: 2,663.00 Mutual: 3,535.00 Staples 1.: 2,631.00 Squibob: 2,019.00 Richmond: 2,035.00 NRCS In-Kind Contribution: 13,500.00 WRSA Contribution: 128,828.00 Total Contributions: 155,211.00		

- * *The Water Right Owners shall contribute 10% of the total costs occurred for construction and installation (Task 3.).*
- * *The Water Right Owners shall be responsible for any and all cost over-rides.*
- * *If the final project completion cost is less than the requested WRSA funds, the remaining funds will be returned to the Basin Account*

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SCHEDULE

Task	Estimated Start Date	Estimated Completion Date
1. Need and Feasibility	COMPLETED	
2. Survey and Design	COMPLETED	
3. Construction and Installation	10/01/2011	11/31/2012

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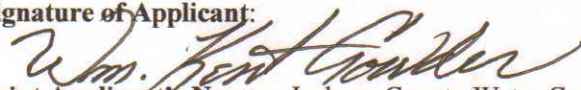
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PAYMENT

Payment will be made based on actual expenditures and invoicing by the applicant. Invoices from any other entity (i.e. subcontractors) cannot be processed by the State. The request for payment must include a description of the work accomplished by major task, and estimate of the percent completion for individual tasks and the entire water activity in relation to the percentage of budget spent, identification of any major issues and proposed or implemented corrective actions. The last 5 percent of the entire water activity budget will be withheld until final project/water activity documentation is completed. All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and help promote the development of a common technical platform.

The above statements are true to the best of my knowledge:

Signature of Applicant:



Print Applicant's Name: Jackson County Water Conservancy District

Project Title: Structures for Water Control: Headgates and Diversion

Return this application to:

Mr. Todd Doherty
Intrastate Water Management and Development Section
COLORADO WATER CONSERVATION BOARD
1580 Logan Street, Suite 200
Denver, CO 80203

To submit applications by Email, send to: todd.doherty@state.co.us

Attachment 1
Reference Information

The following information is available via the internet. The reference information provides additional detail and background information.

Colorado Water Conservation Board (<http://cwcb.state.co.us/>)

Loan and Grant policies and information are available at – <http://cwcb.state.co.us/Finance/>

Interbasin Compact Committee and Basin Roundtables (<http://ibcc.state.co.us/>)

Interbasin Compact Committee By-laws and Charter (under Helpful Links section) –

<http://ibcc.state.co.us/Basins/IBCC/>

Legislation

House Bill 05-1177 - Also known as the Water for the 21st Century Act –

<http://cwcbweblink.state.co.us/DocView.aspx?id=105662&searchhandle=28318>

House Bill 06-1400 – Adopted the Interbasin Compact Committee Charter –

<http://cwcbweblink.state.co.us/DocView.aspx?id=21291&searchhandle=12911>

Senate Bill 06-179 – Created the Water Supply Reserve Account –

<http://cwcbweblink.state.co.us/DocView.aspx?id=21379&searchhandle=12911>

Statewide Water Supply Initiative

General Information – <http://cwcb.state.co.us/IWMD/>

Phase 1 Report –

Attachment 2
Insurance Requirements

NOTE: The following insurance requirements taken from the standard contract apply to WSRA projects that exceed \$25,000 in accordance with the policies of the State Controller's Office. Proof of insurance as stated below is necessary prior to the execution of a contract.

13. INSURANCE

Grantee and its Sub-grantees shall obtain and maintain insurance as specified in this section at all times during the term of this Grant: All policies evidencing the insurance coverage required hereunder shall be issued by insurance companies satisfactory to Grantee and the State.

A. Grantee

i. Public Entities

If Grantee is a "public entity" within the meaning of the Colorado Governmental Immunity Act, CRS §24-10-101, et seq., as amended (the "GIA"), then Grantee shall maintain at all times during the term of this Grant such liability insurance, by commercial policy or self-insurance, as is necessary to meet its liabilities under the GIA. Grantee shall show proof of such insurance satisfactory to the State, if requested by the State. Grantee shall require each Grant with Sub-grantees that are public entities, providing Goods or Services hereunder, to include the insurance requirements necessary to meet Sub-grantee's liabilities under the GIA.

ii. Non-Public Entities

If Grantee is not a "public entity" within the meaning of the GIA, Grantee shall obtain and maintain during the term of this Grant insurance coverage and policies meeting the same requirements set forth in §13(B) with respect to sub-Grantees that are not "public entities".

B. Sub-Grantees

Grantee shall require each Grant with Sub-grantees, other than those that are public entities, providing Goods or Services in connection with this Grant, to include insurance requirements substantially similar to the following:

i. Worker's Compensation

Worker's Compensation Insurance as required by State statute, and Employer's Liability Insurance covering all of Grantee and Sub-grantee employees acting within the course and scope of their employment.

ii. General Liability

Commercial General Liability Insurance written on ISO occurrence form CG 00 01 10/93 or equivalent, covering premises operations, fire damage, independent Grantees, products and completed operations, blanket Grantual liability, personal injury, and advertising liability with minimum limits as follows: (a) \$1,000,000 each occurrence; (b) \$1,000,000 general aggregate; (c) \$1,000,000 products and completed operations aggregate; and (d) \$50,000 any one fire. If any aggregate limit is reduced below \$1,000,000 because of claims made or paid, Sub-grantee shall immediately obtain additional insurance to restore the full aggregate limit and furnish to Grantee a certificate or other document satisfactory to Grantee showing compliance with this provision.

iii. Automobile Liability

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Automobile Liability Insurance covering any auto (including owned, hired and non-owned autos) with a minimum limit of \$1,000,000 each accident combined single limit.

iv. Additional Insured

Grantee and the State shall be named as additional insured on the Commercial General Liability and Automobile Liability Insurance policies (leases and construction Grants require additional insured coverage for completed operations on endorsements CG 2010 11/85, CG 2037, or equivalent).

v. Primacy of Coverage

Coverage required of Grantee and Sub-grantees shall be primary over any insurance or self-insurance program carried by Grantee or the State.

vi. Cancellation

The above insurance policies shall include provisions preventing cancellation or non-renewal without at least 45 days prior notice to the Grantee and the State by certified mail.

vii. Subrogation Waiver

All insurance policies in any way related to this Grant and secured and maintained by Grantee or its Sub-grantees as required herein shall include clauses stating that each carrier shall waive all rights of recovery, under subrogation or otherwise, against Grantee or the State, its agencies, institutions, organizations, officers, agents, employees, and volunteers.

C. Certificates

Grantee and all Sub-grantees shall provide certificates showing insurance coverage required hereunder to the State within seven business days of the Effective Date of this Grant. No later than 15 days prior to the expiration date of any such coverage, Grantee and each Sub-grantee shall deliver to the State or Grantee certificates of insurance evidencing renewals thereof. In addition, upon request by the State at any other time during the term of this Grant or any sub-grant, Grantee and each Sub-grantee shall, within 10 days of such request, supply to the State evidence satisfactory to the State of compliance with the provisions of this §13.

Attachment 3
Water Supply Reserve Account Standard Contract

NOTE: The following contract is required for WSRA projects that exceed \$100,000. (Projects under this amount will normally be funded through a purchase order process.) Applicants are encouraged to review the standard contract to understand the terms and conditions required by the State in the event a WSRA grant is awarded. Significant changes to the standard contract require approval of the State Controller's Office and often prolong the contracting process.

It should also be noted that grant funds to be used for the purchase of real property (e.g. water rights, land, conservation easements, etc.) will require additional review and approval. In such cases applicants should expect the grant contracting process to take approximately 3 to 6 months from the date of CWCB approval.

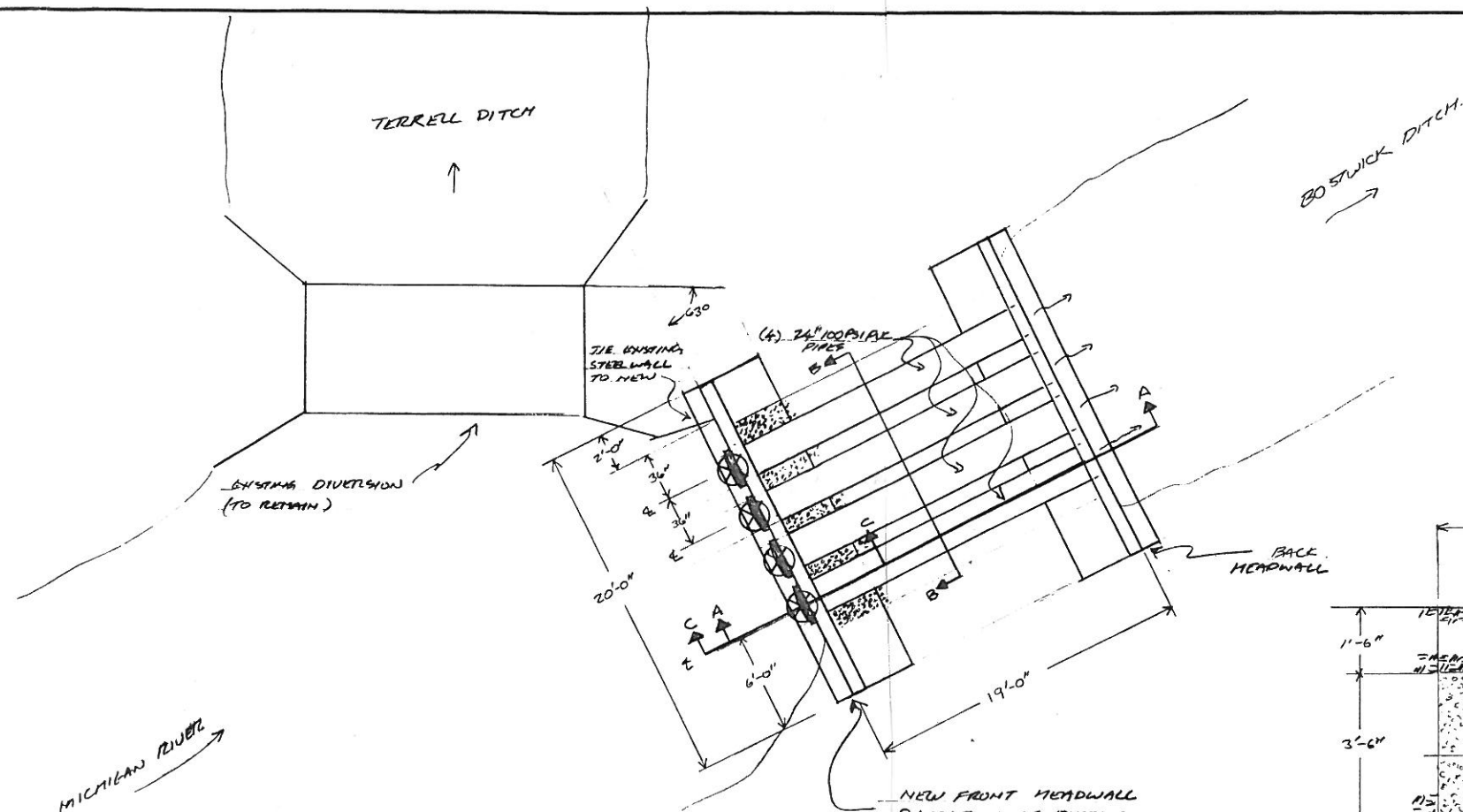
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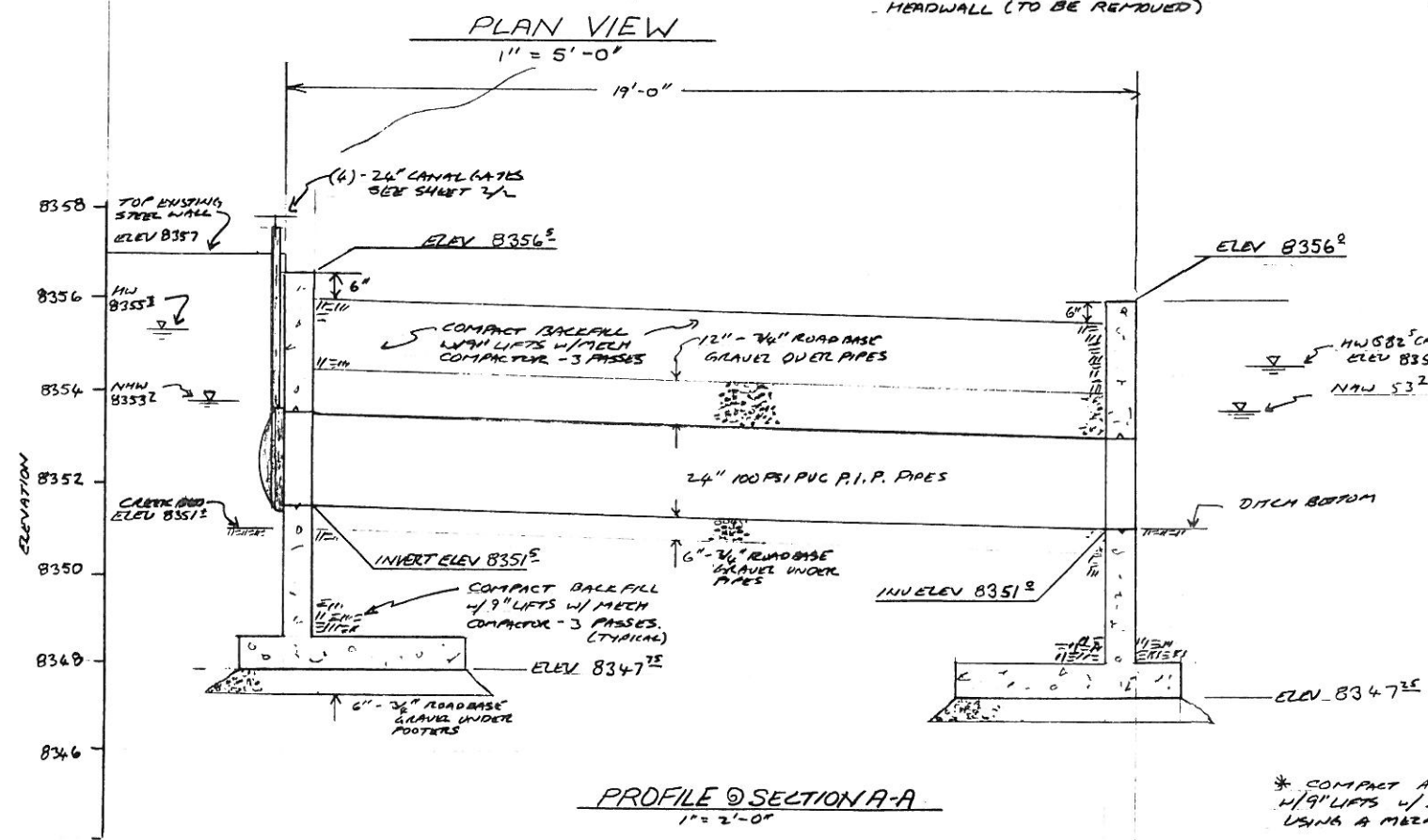
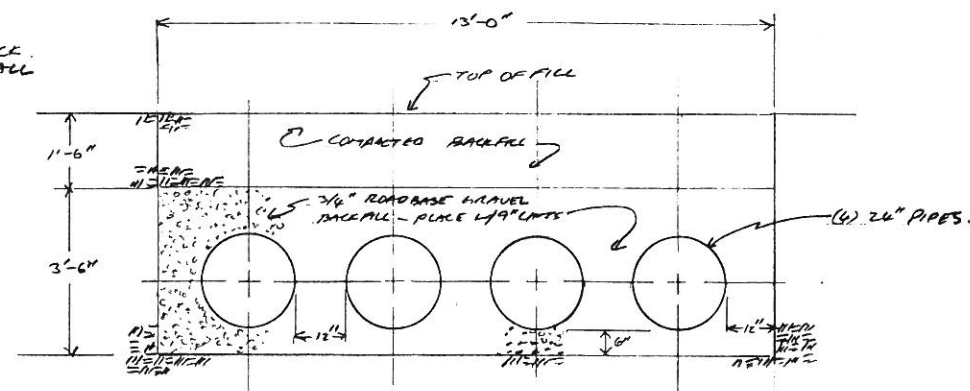
Attachment 4

W-9 Form

NOTE: A completed W-9 form is required for all WSRA projects prior execution of a contract or purchase order. Please submit this form with the completed application.



* TBM - TOP OF REBAR
ELEV = 8356.35



DESIGN QUANTITIES

3/4" GRAVEL, ROADBASE	40 cu yds.
REINFORCED CONCRETE	14 cu yds
CANAL GATES	4-24" GATES.
EXCAVATED MATERIAL	80 cu yds.
STRUCTURE REMOVAL	HEADGATE + 100LF PIPES.
PLASTIC IRRIGATION PIPE	100LF X 24"

BOSTWICK DITCH HEADGATE PLANVIEW & PROFILE

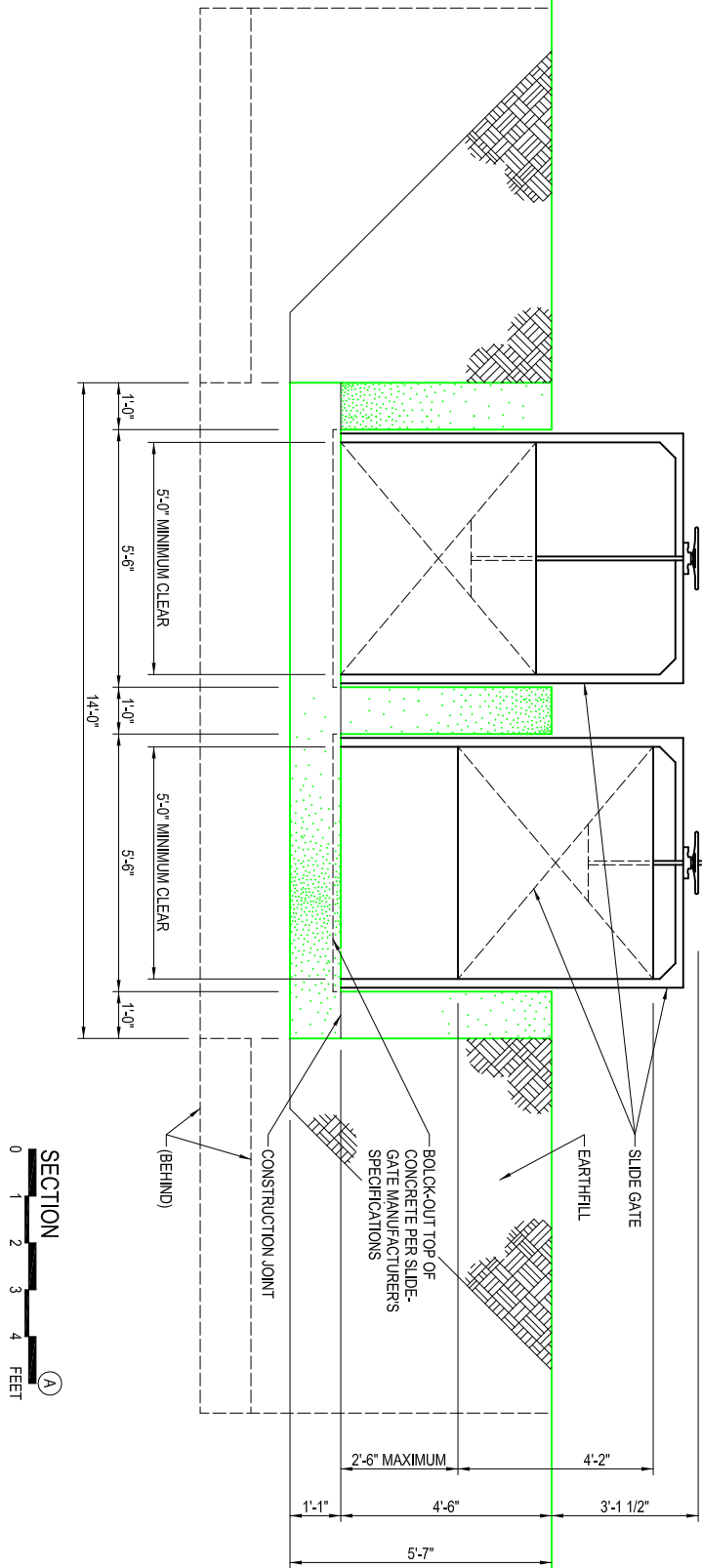
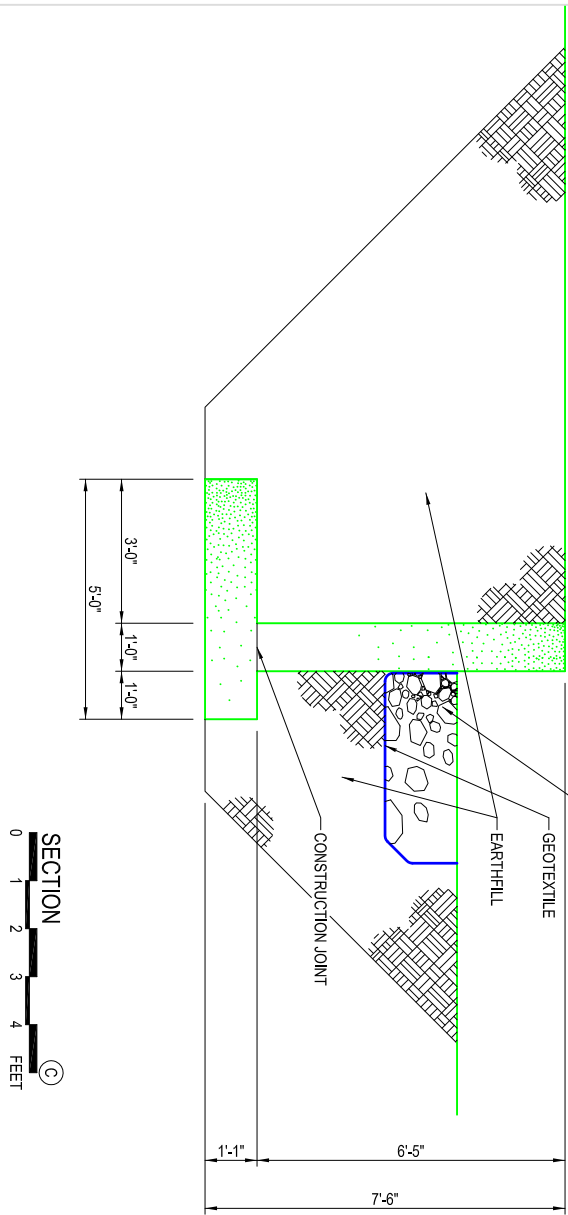
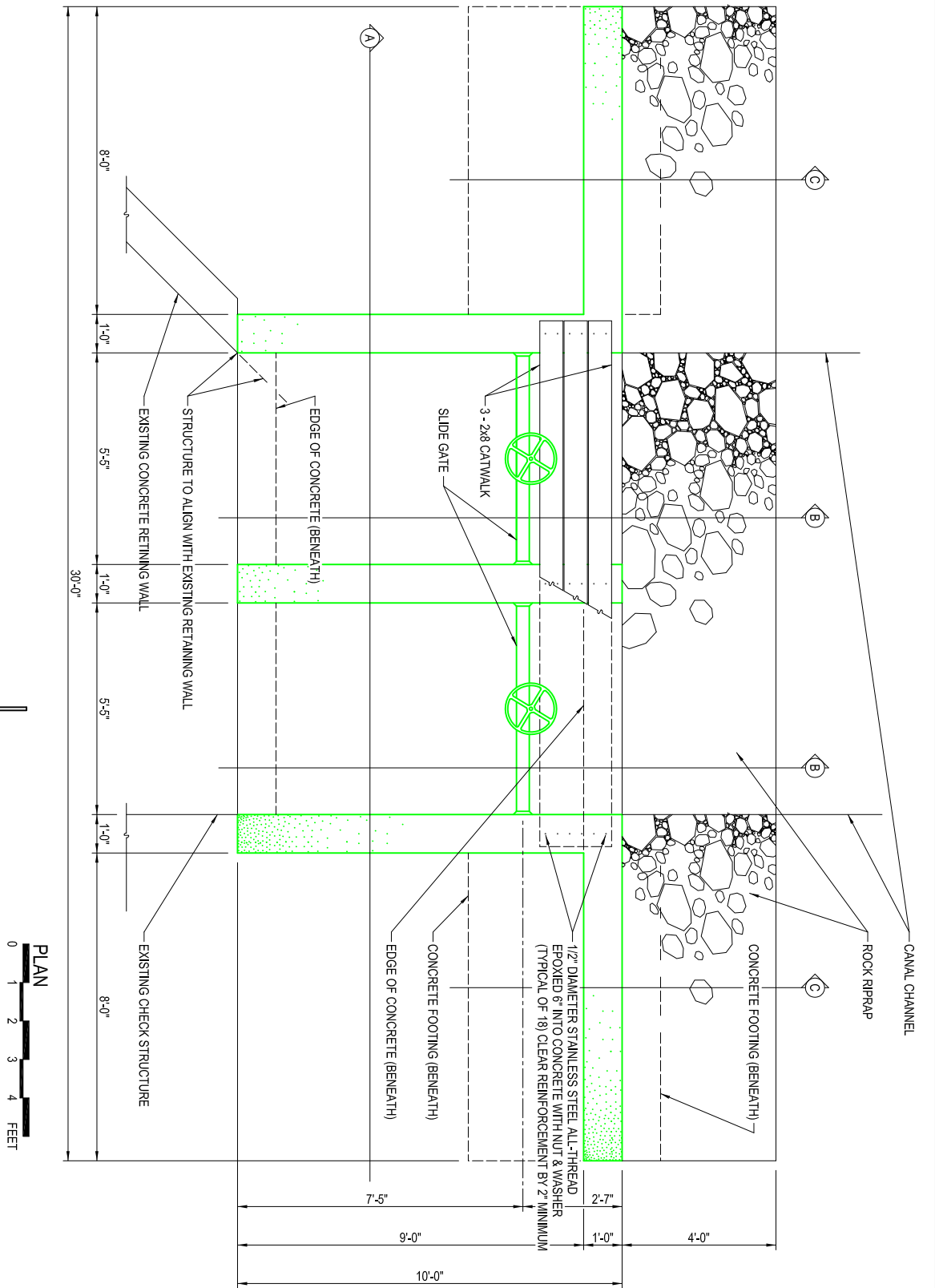
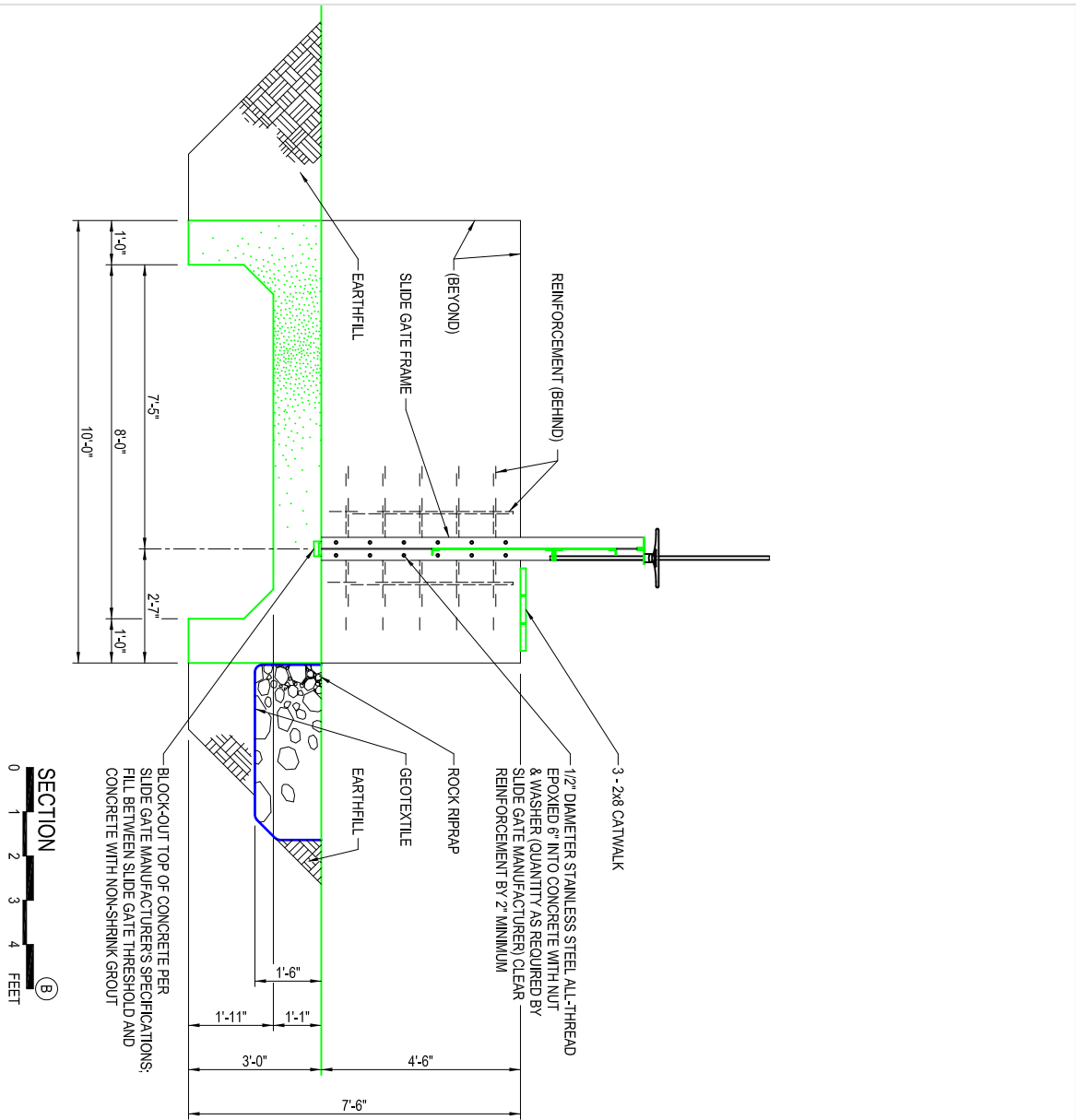
NADEEN - F.D. DESIGN FEED = 87 1/2 CFS

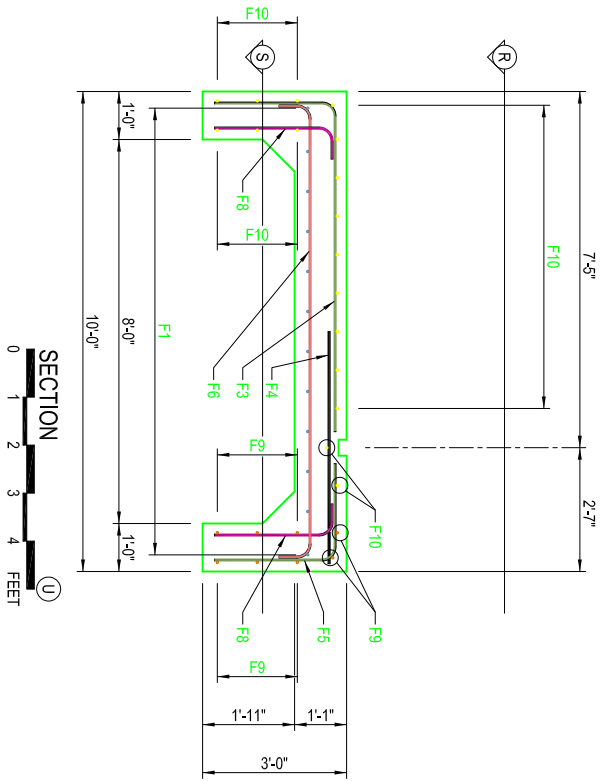
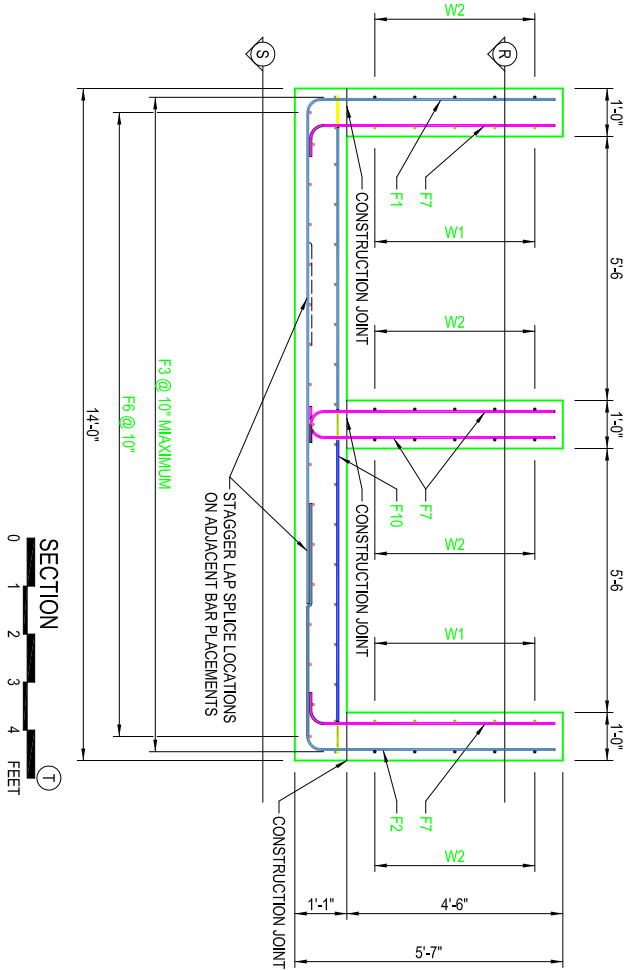
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE - NRCS

Designed: R. HALL	Date: 5/11	Approved by: [Signature]
Drawn: R. HALL	5/11	Title: [Signature]
Traced: [Signature]	5/11	Sheet: 1 of 2
Checked: [Signature]	5/11	Drawing No.:

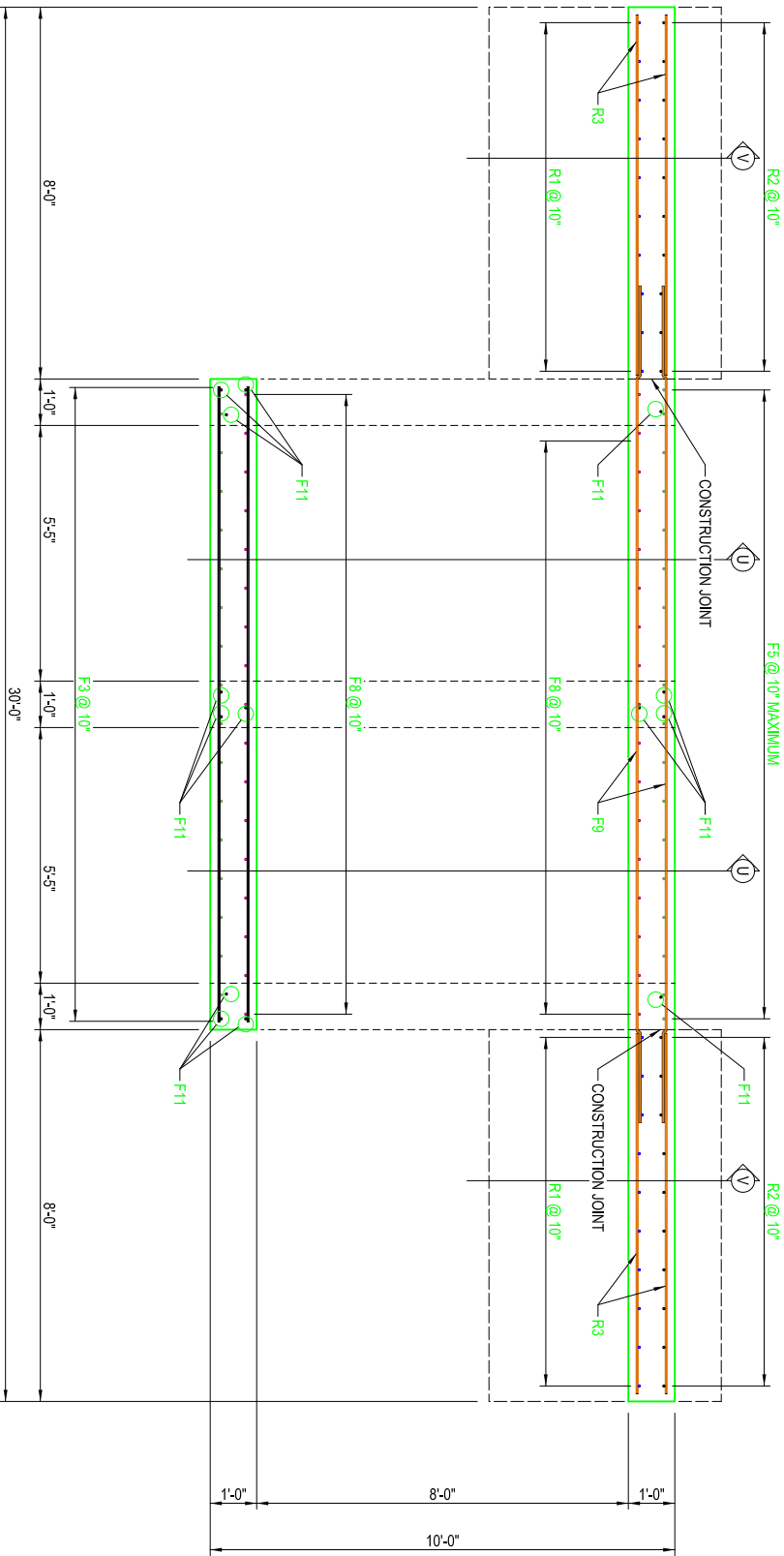
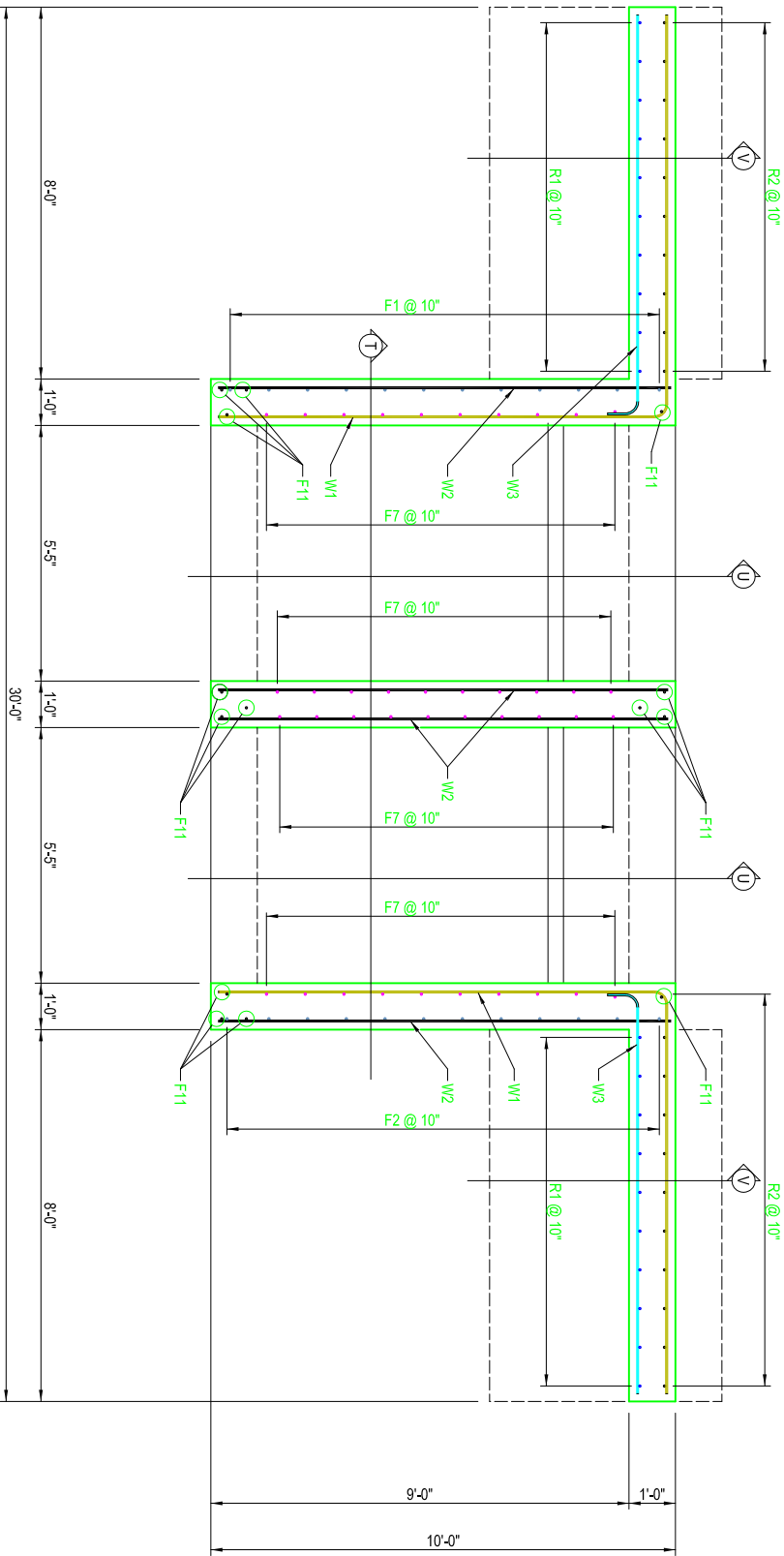
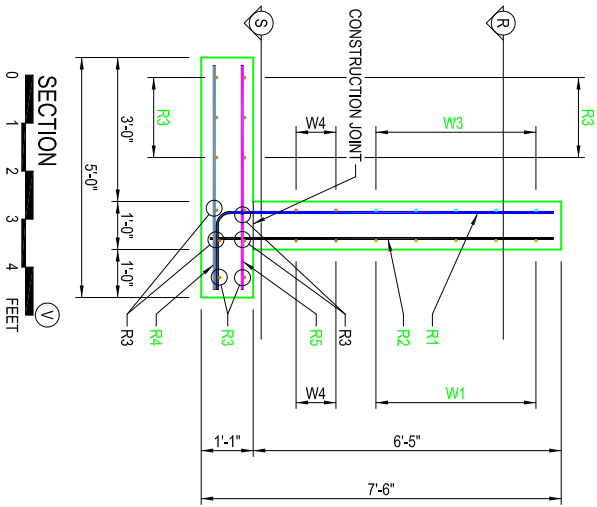
* COMPACT ALL BACKFILL
W/ 9" LIFTS W/ 3 PASSES
USING A M&M COMPACTOR.

TBM - TOP REBAR ELEV = 8356.35





MARK	QTY.	SIZE	A'	B'	C'	COMMENTS
F1	12	#5	133	62	-	#5 BAR
F2	12	#5	62	62	-	#5 BAR
F3	18	#4	83	31	-	
F4	18	#4	88	-	-	
F5	18	#4	25	31	-	
F6	17	#4	12	114	12	
F7	40	#4	12	62	-	
F8	34	#4	12	31	-	
F9	8	#4	204	-	-	
F10	17	#4	164	-	-	
F11	14	#4	-	85	-	SAME AS R2
R1	20	#5	20	85	-	#5 BAR
R2	20	#4	-	85	-	SAME AS F11
R3	24	#4	92	-	-	SAME AS W4
R4	20	#4	56	-	-	
R5	20	#5	56	-	-	#5 BAR
W1	10	#4	116	104	-	
W2	20	#4	116	-	-	
W3	10	#4	12	104	-	
W4	8	#4	92	-	-	SAME AS R3



Date

Designed Stambaugh

Drawn Stambaugh

Checked X. XXXXXX

Approved X. XXXXXX

XX-XX

XX-XX

REINFORCEMENT PLANS

MUTUAL DITCH HEADGATE STRUCTURE REPLACEMENT
BOULDER COUNTY



File Name

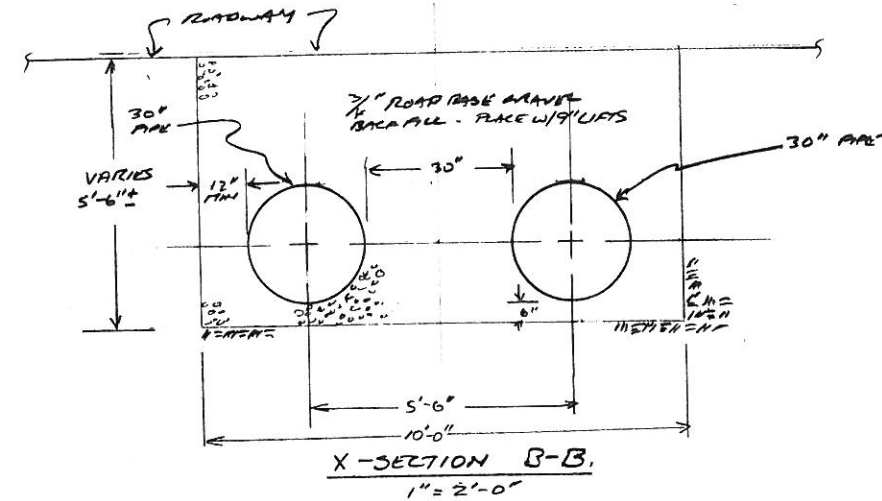
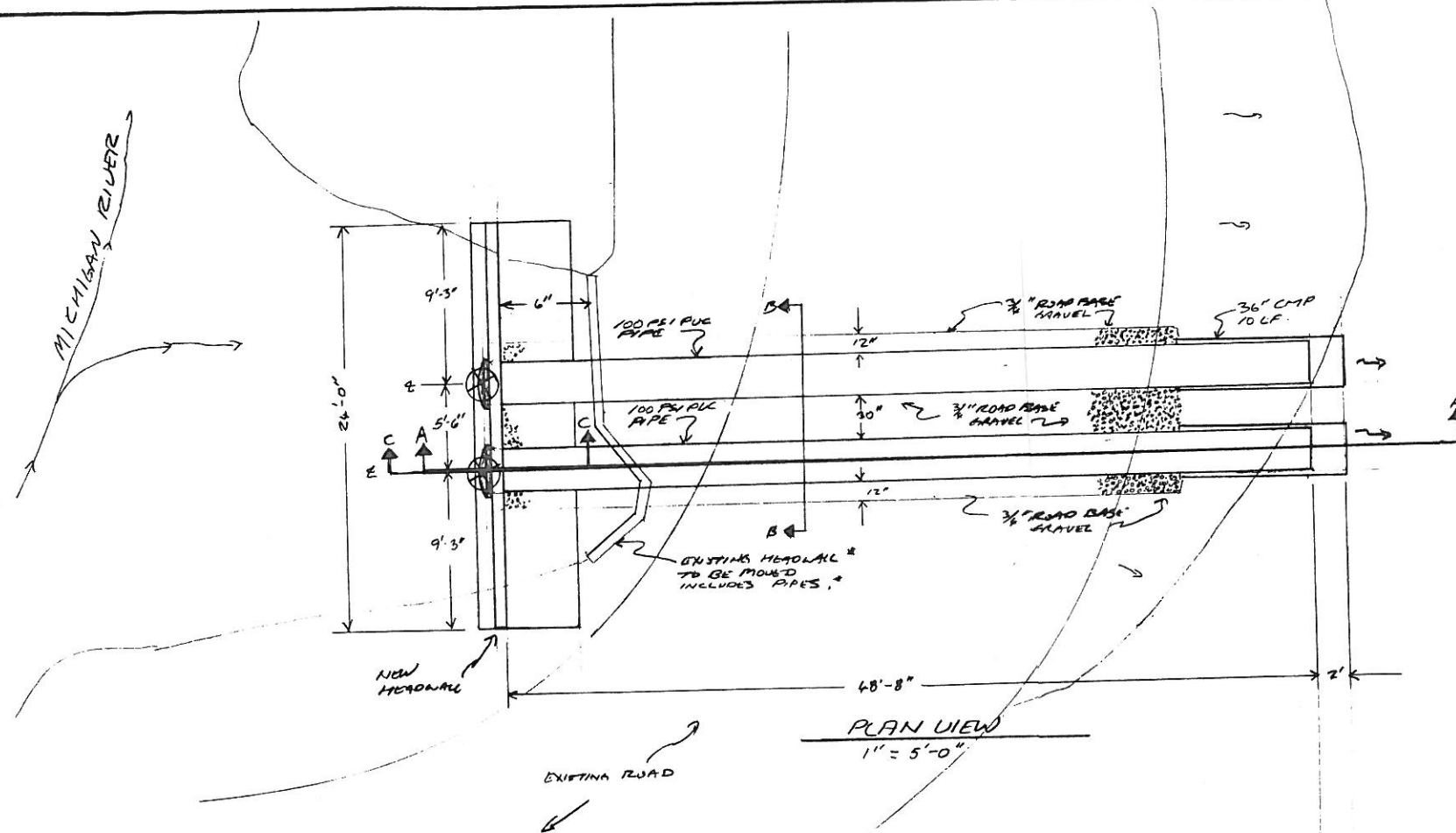
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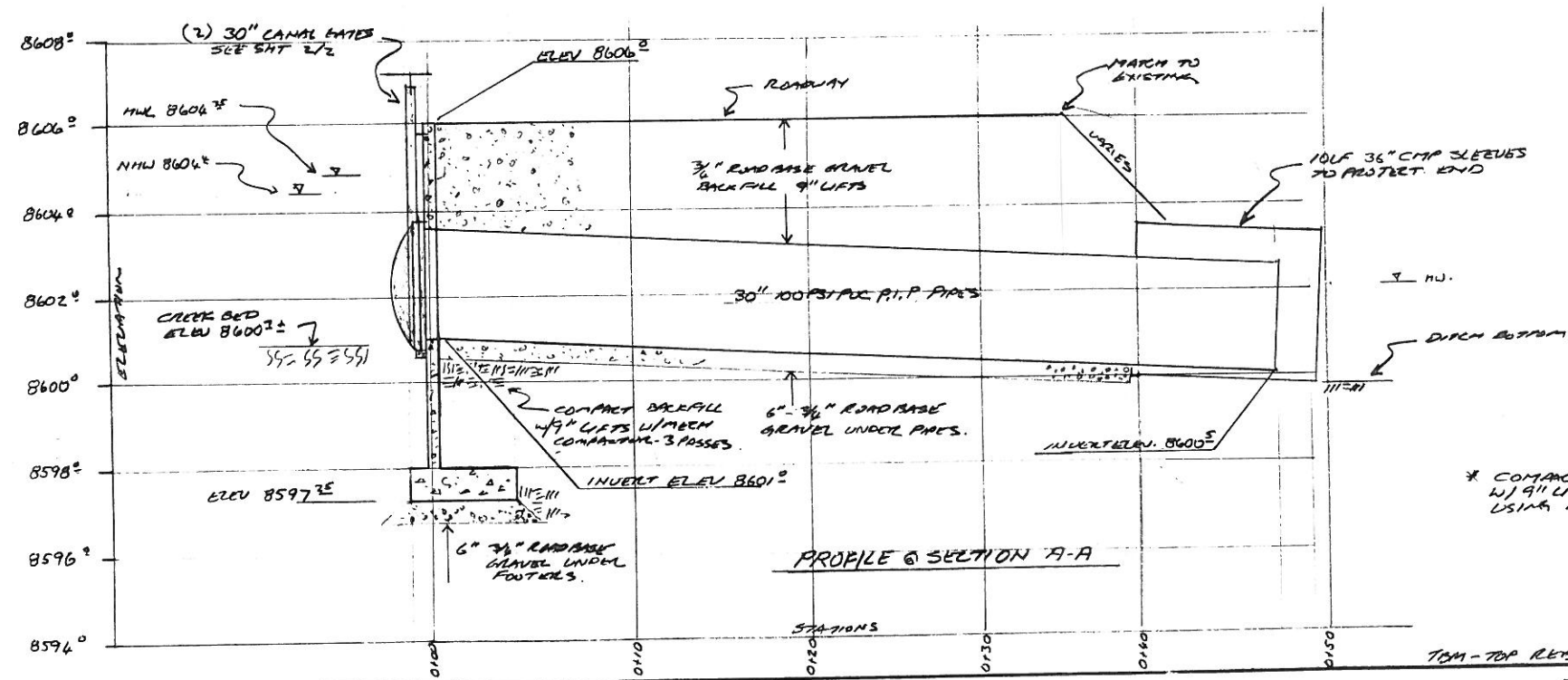
Sheet 3 of 3

X TBM TOP OF REBAR ELEV = 8602.02



DESIGN QUANTITIES

3/4" GRAVEL ROADBASE	100 CU YDS.
REINFORCED CONCRETE	8 CU YDS
CANAL GATES	2 X 30"
CORRUGATED METAL PIPE	20 LF X 36" ROUND
EXCAVATED MATERIAL	140 CU YDS.
STRUCTURE REMOVAL	- HEADGATE + 100 LF P.A.S.
PLASTIC IRRIGATION PIPE	100 LF X 30"

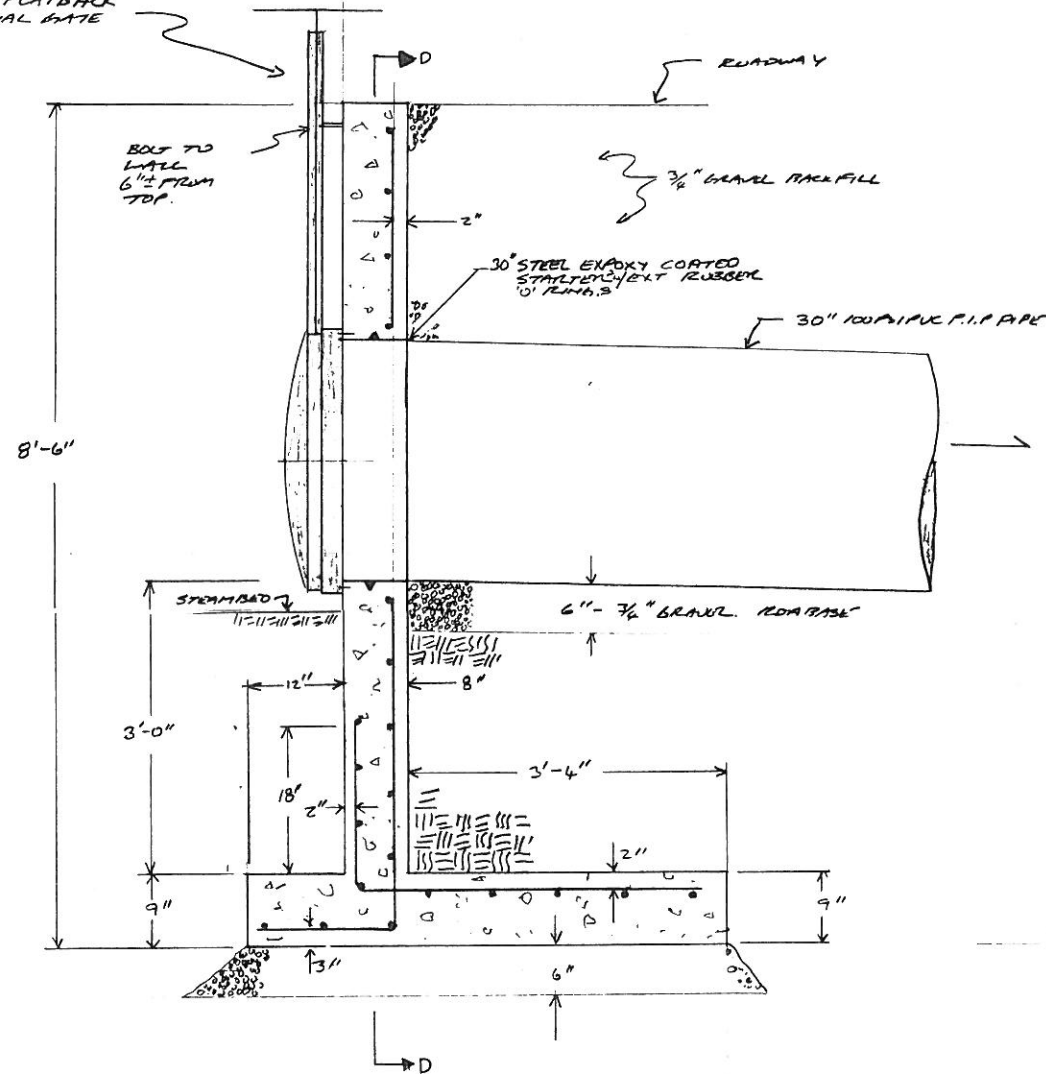


* COMPACT ALL BACKFILL W/ 9" LIFTS W/ 3 PASSES USING A TRENCH COMPACTOR

SQUIBOB DITCH HEADGATE	
PLAN VIEW & PROFILE	
WALDEN F.O.	DESIGN FROM 60 CFS.
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE - NRCS	
Designed: R. HALL	Date: 5/11
Drawn: R. HALL	Title: SQUIBOB DITCH
Traced: R. HALL	Sheet: 1 of 2
Checked: R. HALL	Drawing No.

TBM - TOP REBAR 8602.02

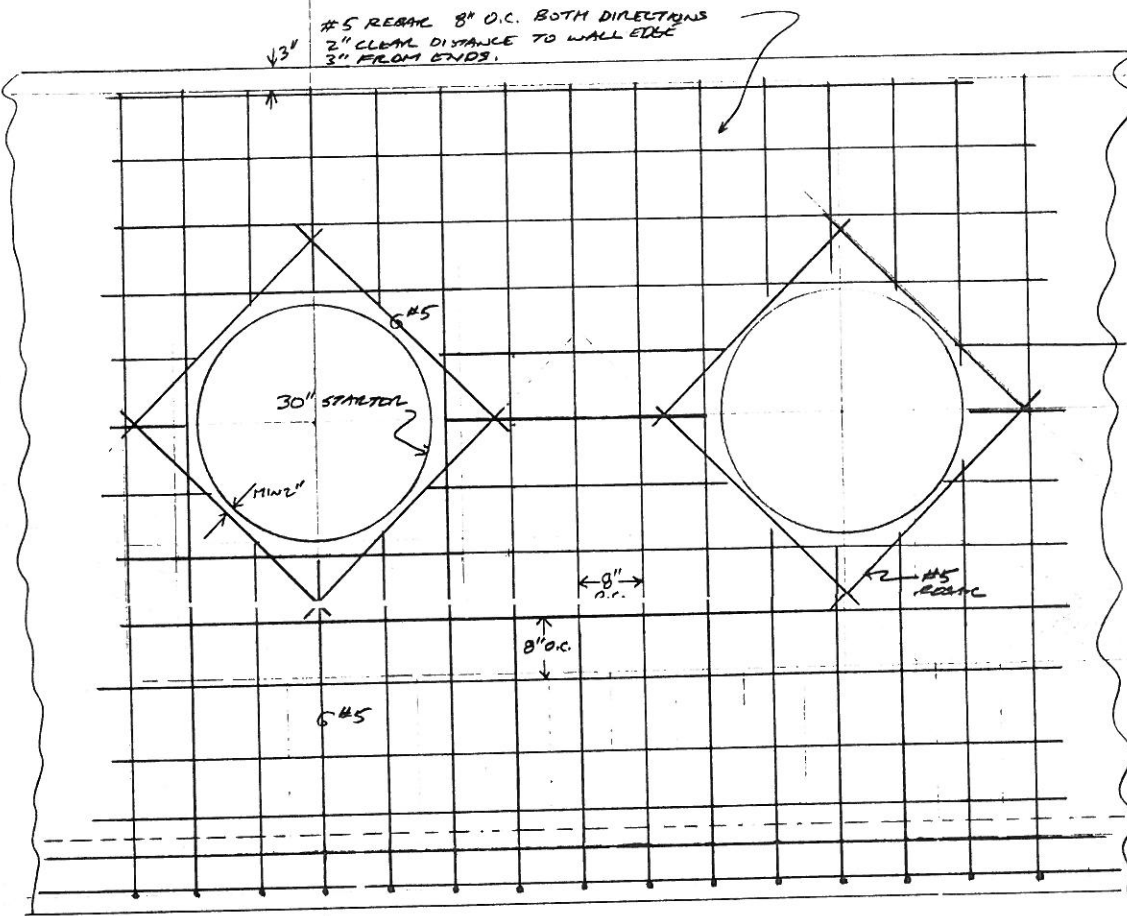
(2) 30" FLATBACK CANAL GATE



X-SECTION C-C

1" = 1'-0"

* SEE SPECS FOR CONCRETE MIX REQUIREMENTS



REBAR DETAIL @ GATES - SECTION D-D.

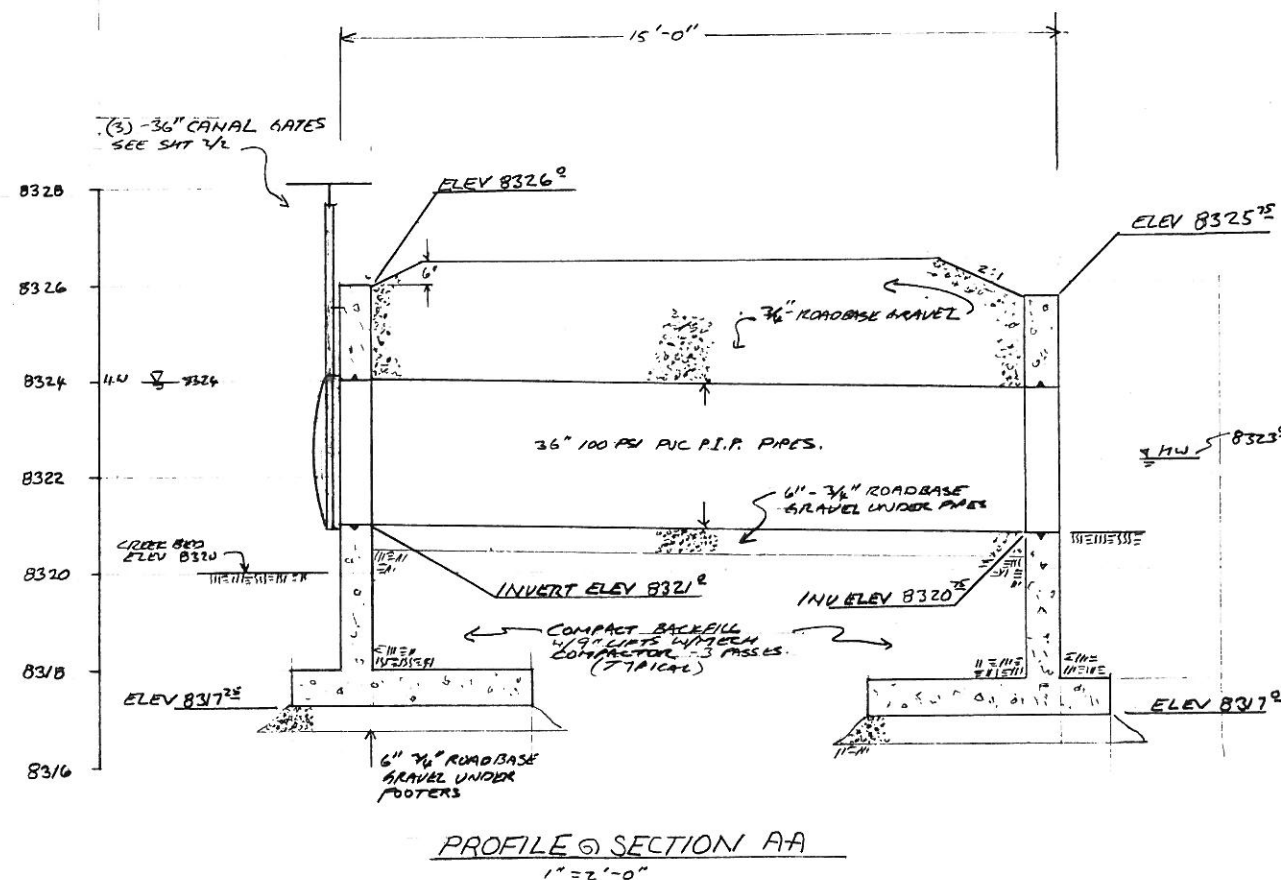
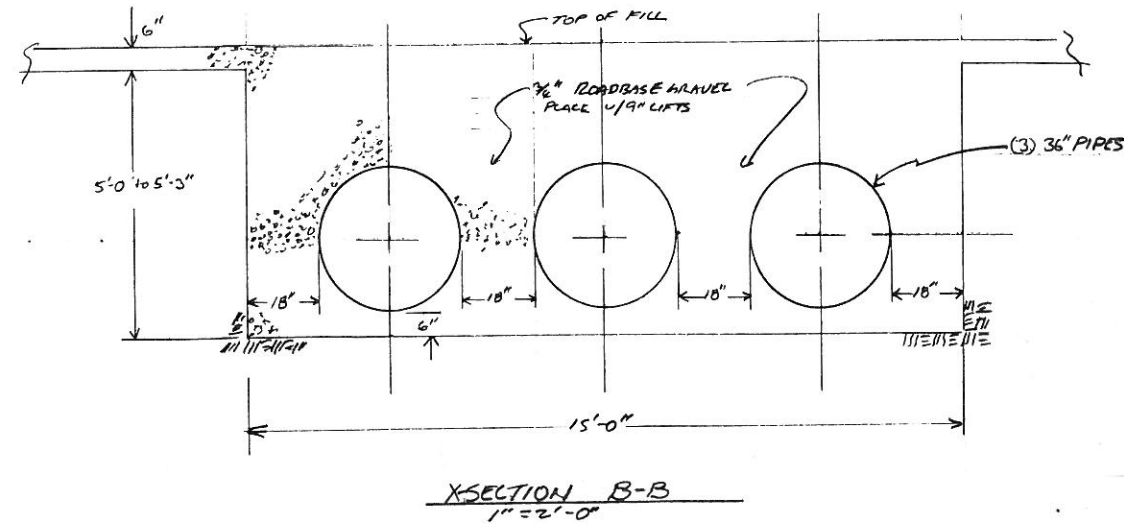
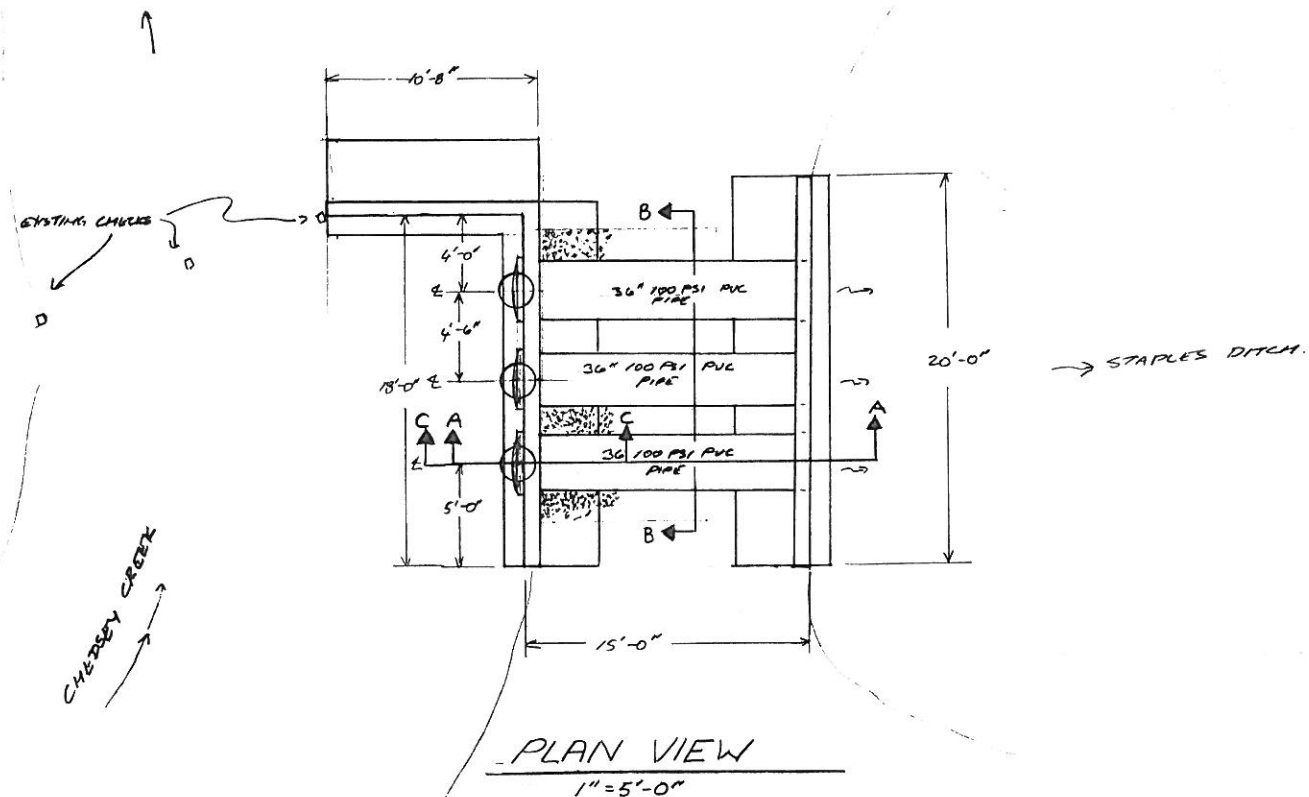
1" = 1'-0"

CONCRETE CONSTRUCTION NOTES.

- 1 - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4"
- 2 - ALL REINFORCING STEEL SHALL CONSIST OF 5/8" DIA (#5) BARS 8" ON CENTERS EACH WAY.
- 3 - ALL REINFORCING STEEL SHALL BE CONTINUOUS FROM WALLS AND FLOODS, WITH A MIN. LAP OF 15"
- 4 - CONCRETE FORMS & REINFORCING STEEL SHALL BE MADE AVAILABLE FOR INSPECTION 24 HOURS PRIOR TO POURING. THE CONCRETE AND INSPECTED WHEN THE FORMS ARE REMOVED.
- 5 - WHITE CURING COMPOUND SHALL BE APPLIED WITHIN ONE HOUR OF THE REMOVAL OF THE FORMS OR THE FORMS SHALL BE LEFT IN PLACE FOR (5) FIVE DAYS.
- 6 - 1" (ONE) SNAP CONES SHALL BE USED WITH ALL FORM TIES.
- 7 - CONCRETE SHALL BE PLACED IN 20" LIFTS MAXIMUM.
- 8 - FOLLOW HP.C.S. STD 1 SPECS #587 FOR ADDITIONAL RECD.

SQUIBOB DITCH HEADGATE HEADWALL DETAILS

WALDEN F.U.		DESIGN FROM 600FS	
U. S. DEPARTMENT OF AGRICULTURE			
SOIL CONSERVATION SERVICE - NRCS			
Designed by R. HALLERGS	Date 5/11	Approved by [Signature]	Title [Signature]
Drawn by R. HALLERGS	Date 5/11	Job Class IV	
Traced	Sheet	Drawing No	
Checked [Signature]	No 2	of 2	



DESIGN QUANTITIES

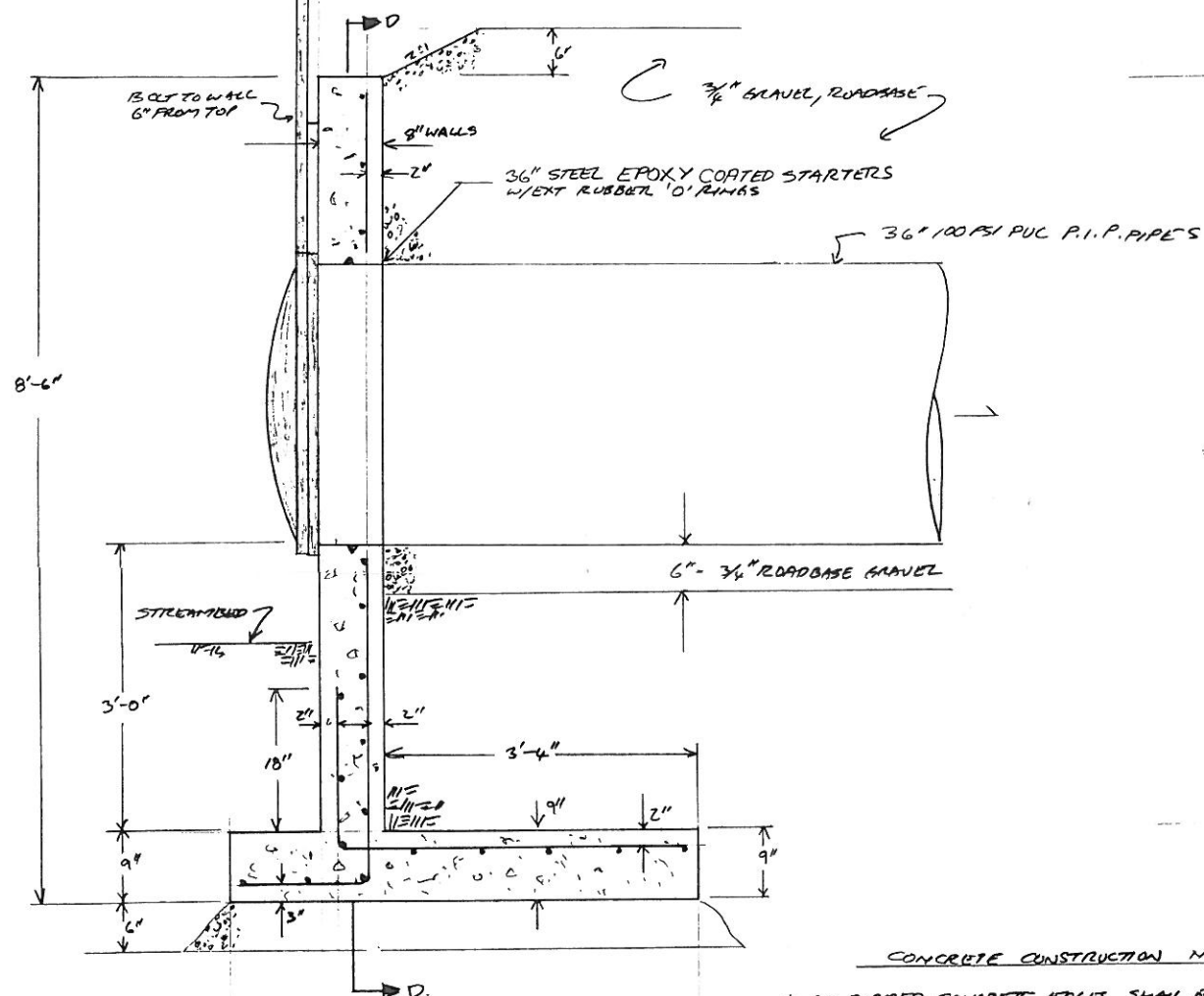
3/4" GRAVEL, ROADBASE	60	cuyds
REINFORCED CONCRETE	17	cuyds
CANAL GATES	3-36" GATES.	
EXCAVATION MATERIAL	75	cuyds
STRUCTURE REMOVAL	HEADGATE + 3 PILES	
PLASTIC IRRIGATION PIPE	45 LF-36"	

STAPLE*1 DITCH HEADGATE PLAN VIEW + PROFILE	
WALDEN, FD. DESIGN SCALE: 100 FT	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE-MRCS	
Designed: R. GALLERUS 5/11	Approved by: [Signature]
Drawn: R. GALLERUS 5/11	Title: Sub. GATES, TX
Traced: [Signature]	Sheet: [Blank]
Checked: [Signature]	Drawing No. [Blank]

* COMPACT ALL BACKFILL
W/ 9" LIFTS W/ 3 PASSES
USING A MECH COMPACTOR.

* 7817 - TOP REBAR ELEV = 8326.05

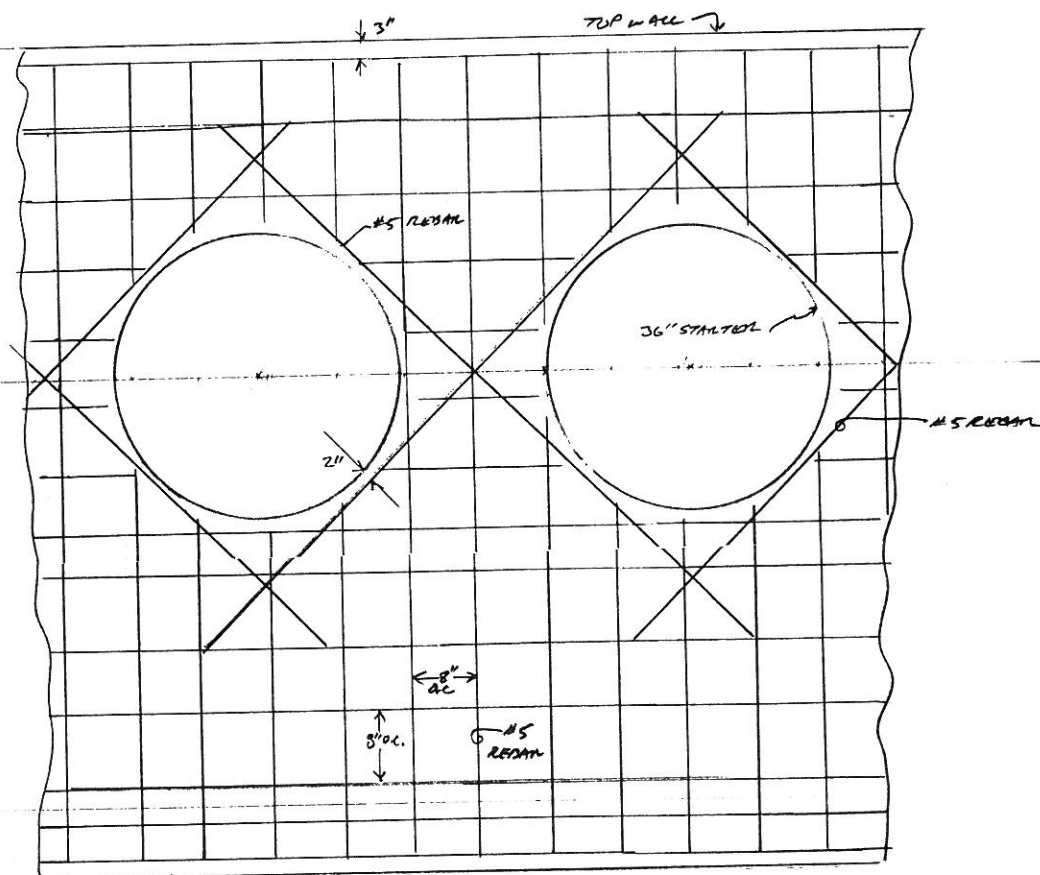
(3) - 36" CANAL GATES
FLAT BACK FRAME



X-SECTION C-C.
1" = 1'-0"

* BACK AND FRONT HEADWALLS DESIGNS TO BE THE SAME WITH OUT THE GATES ON THE HEADWALL WING WALL INCLUDED.

#5 REBAR 8" O.C BOTH DIRECTIONS
2' CLEAR DISTANCE TO WALL EDGE
3" FROM ENDS

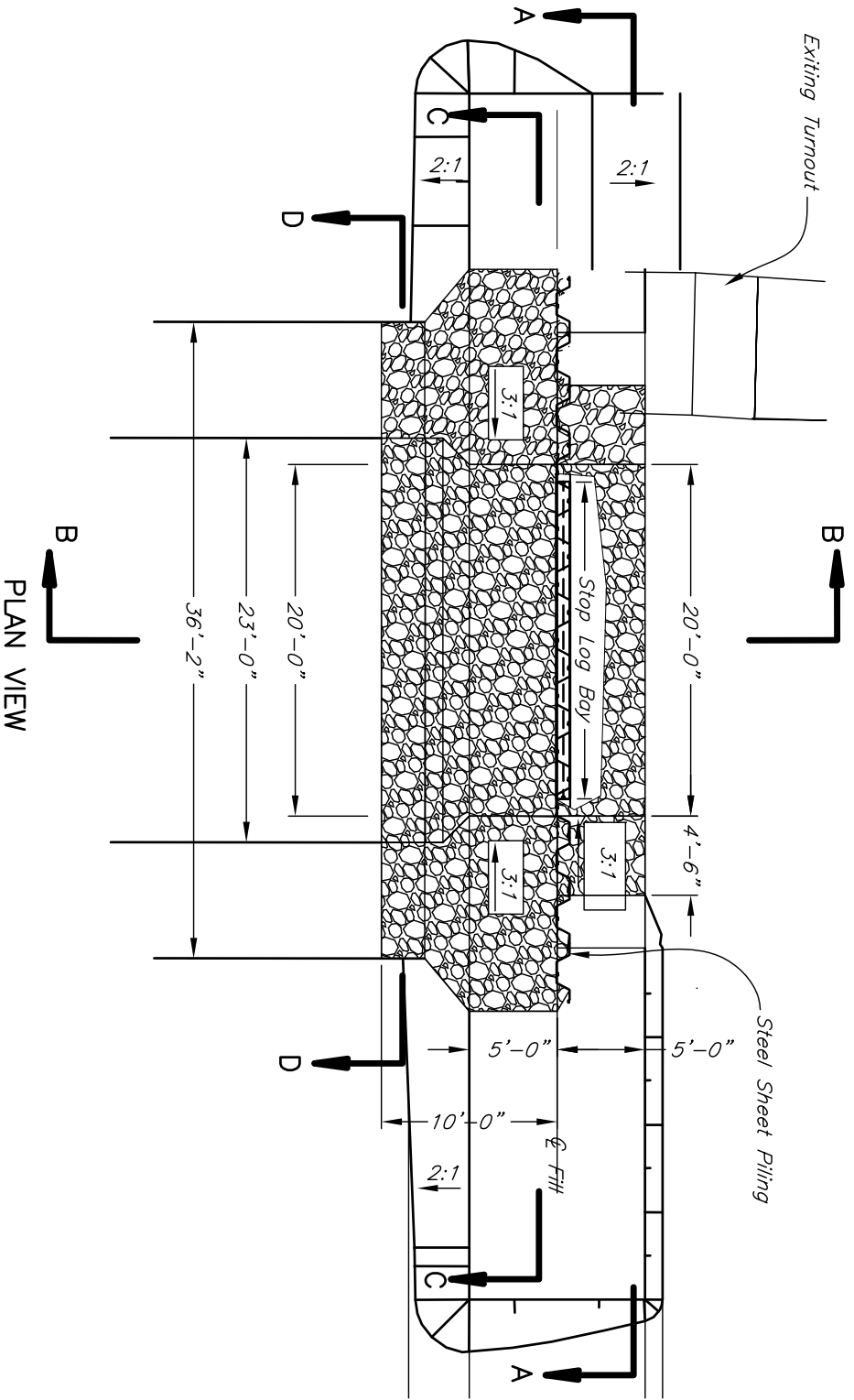


REBAR DETAIL @ GATES - SECTION D-D.
1" = 1'-0"

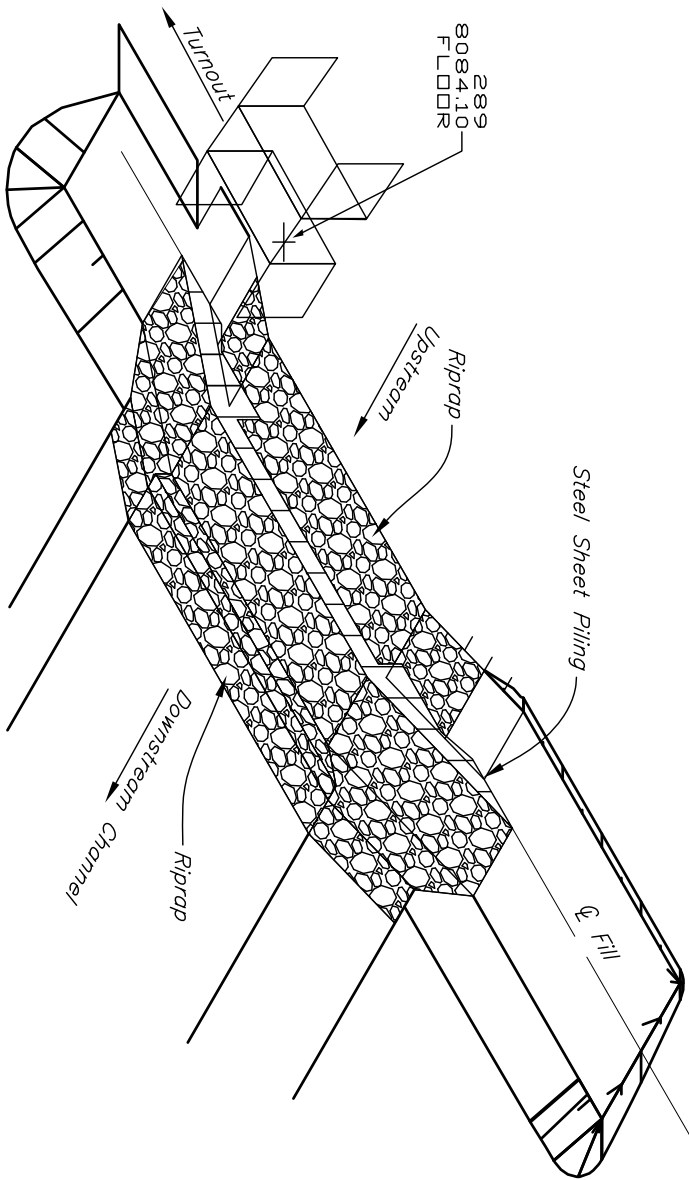
CONCRETE CONSTRUCTION NOTES.

- 1- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED $\frac{3}{4}$ "
 - 2- ALL REINFORCING STEEL SHALL CONSIST OF $\frac{5}{8}$ " DIA (#5) BARS
 - 3- ALL REINFORCING STEEL SHALL BE CONTINUOUS FROM WALLS AND FLOORS, WITH A MIN. LAP LENGTH OF 15"
 - 4- CONCRETE FORMS & REINFORCING STEEL SHALL BE MADE AVAILABLE FOR INSPECTION 24 HOURS PRIOR TO PLACING THE CONCRETE AND INSPECTED WHEN THE FORMS ARE REMOVED
 - 5- WHITE CURING COMPOUND SHALL BE APPLIED WITHIN (1) HOUR OF THE REMOVAL OF THE FORMS OF THE FORMS SHALL BE LEFT IN PLACE FOR (5) DAYS
 - 6- 1" SNAP CONES SHALL BE USED WITH ALL FORM TIES
 - 7- CONCRETE SHALL BE PLACED IN 20' CFTS MAX.
 - 8- FOLLOW A.R.C.S. STD. 1 SPEC #587 FOR ADDITIONAL REQ'D
- * SEE SPEC #587 A.R.C.S. FOR CONCRETE MIX REQUIREMENTS

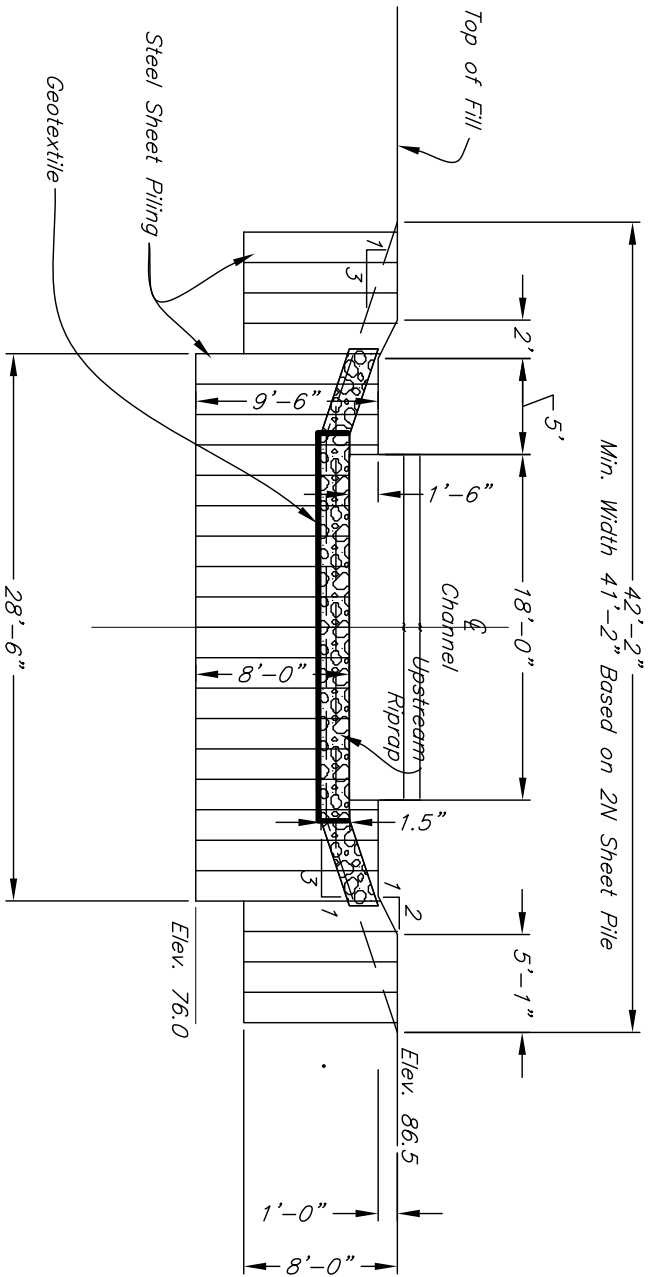
STAPLE #1 DITCH HEADGATE HEADWALL(S) DETAILS			
WALTON F.D.		DESIGN PROJ. = 100 P.S.	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE			
Designed: P. LALLIUS	Date: 5/11	Approved by: [Signature]	Title: [Signature]
Drawn: P. LALLIUS	Sheet: 5/1	Title: [Signature]	
Traced: [Signature]	Sheet: [Signature]	Drawing No. [Signature]	
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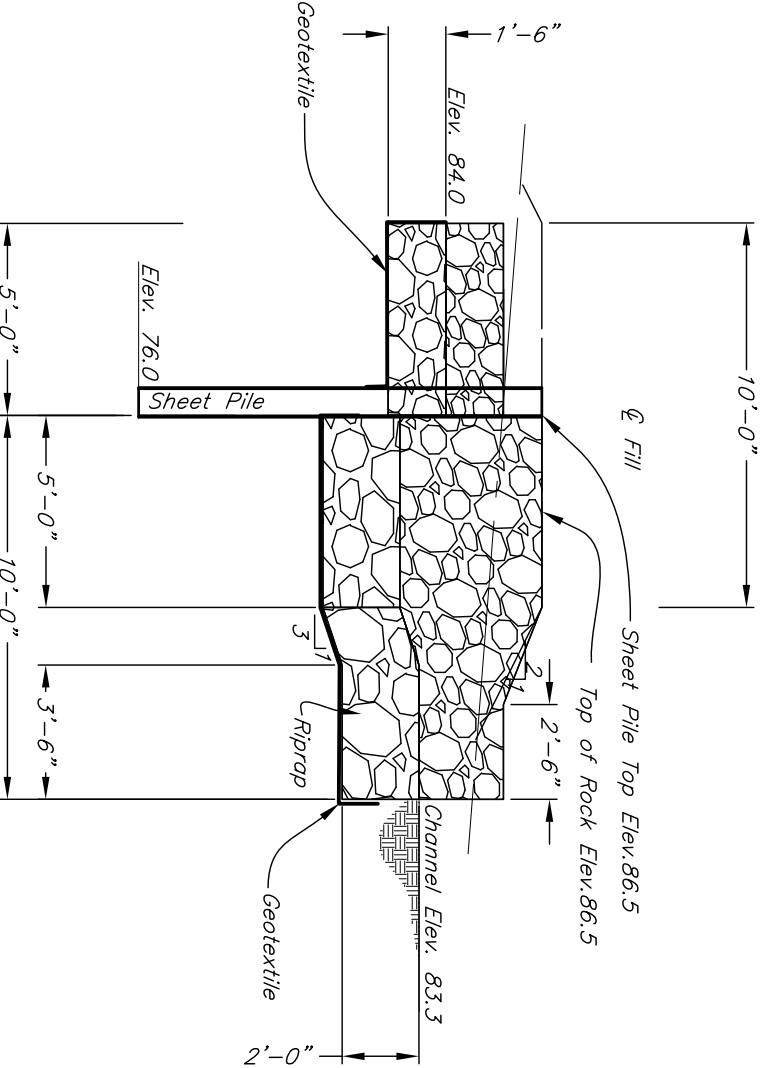
PLAN VIEW



Date	
Designed	
Drawn	
Checked	
Approved	



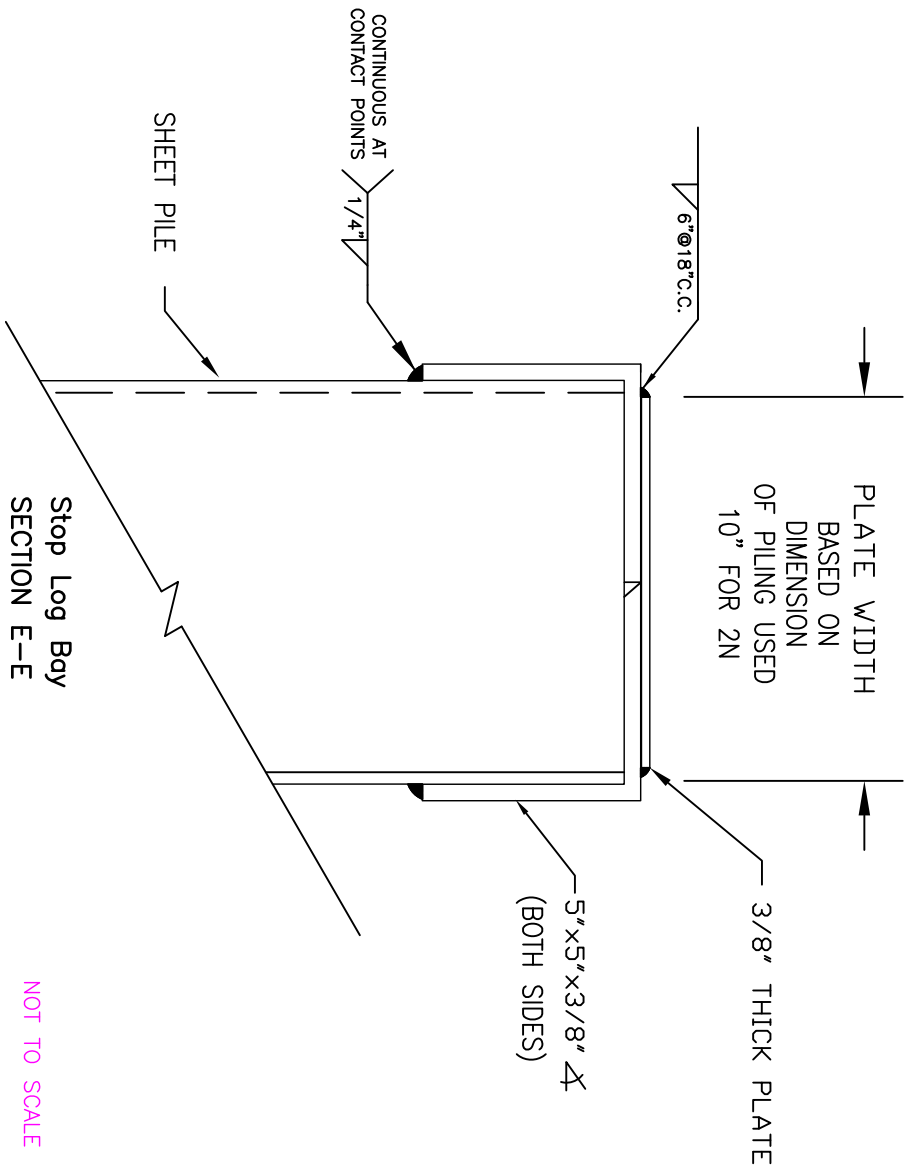
SECTION A-A



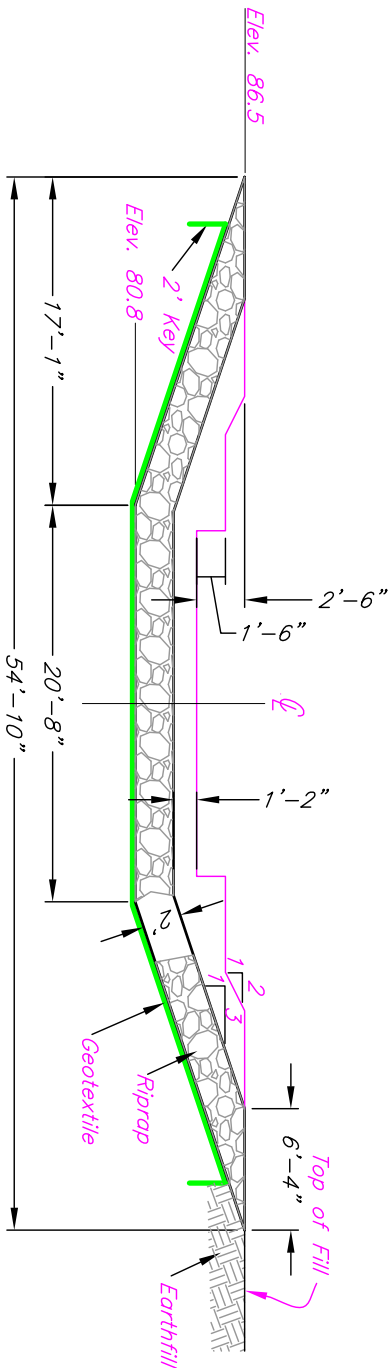
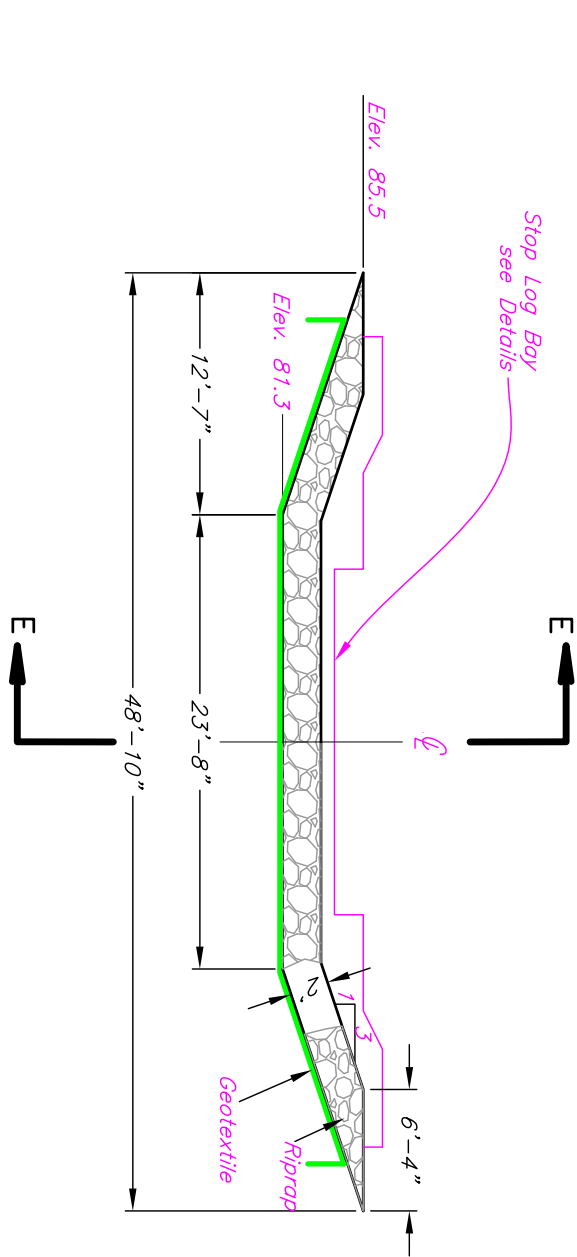
SECTION B-B



RICHMOND DIVERSION
SHEET PILE STRUCTURE



NOT TO SCALE



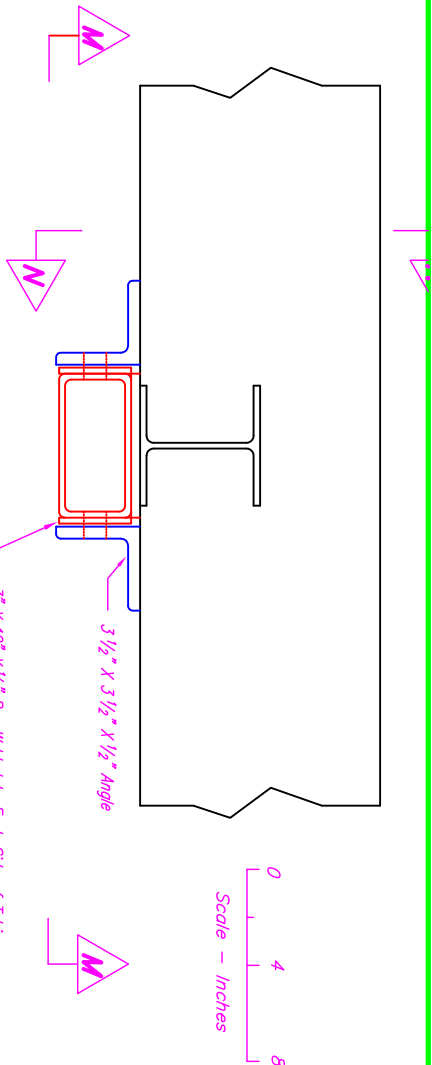
	Date
Designed	
Drawn	
Checked	
Approved	

STEEL SHEET PILE DROP STRUCTURE
Walden

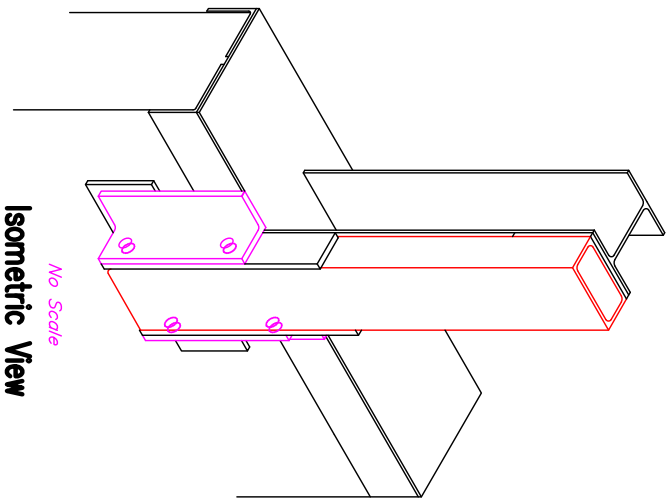


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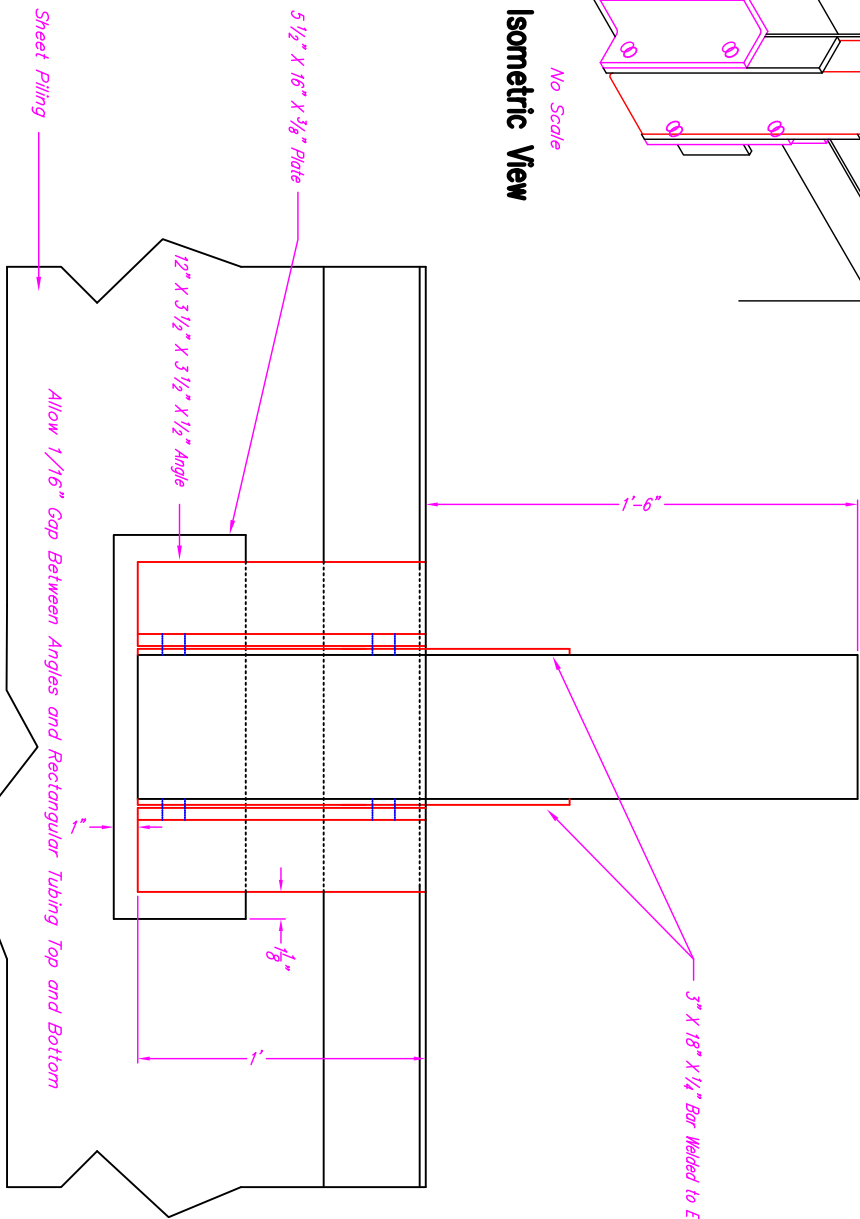
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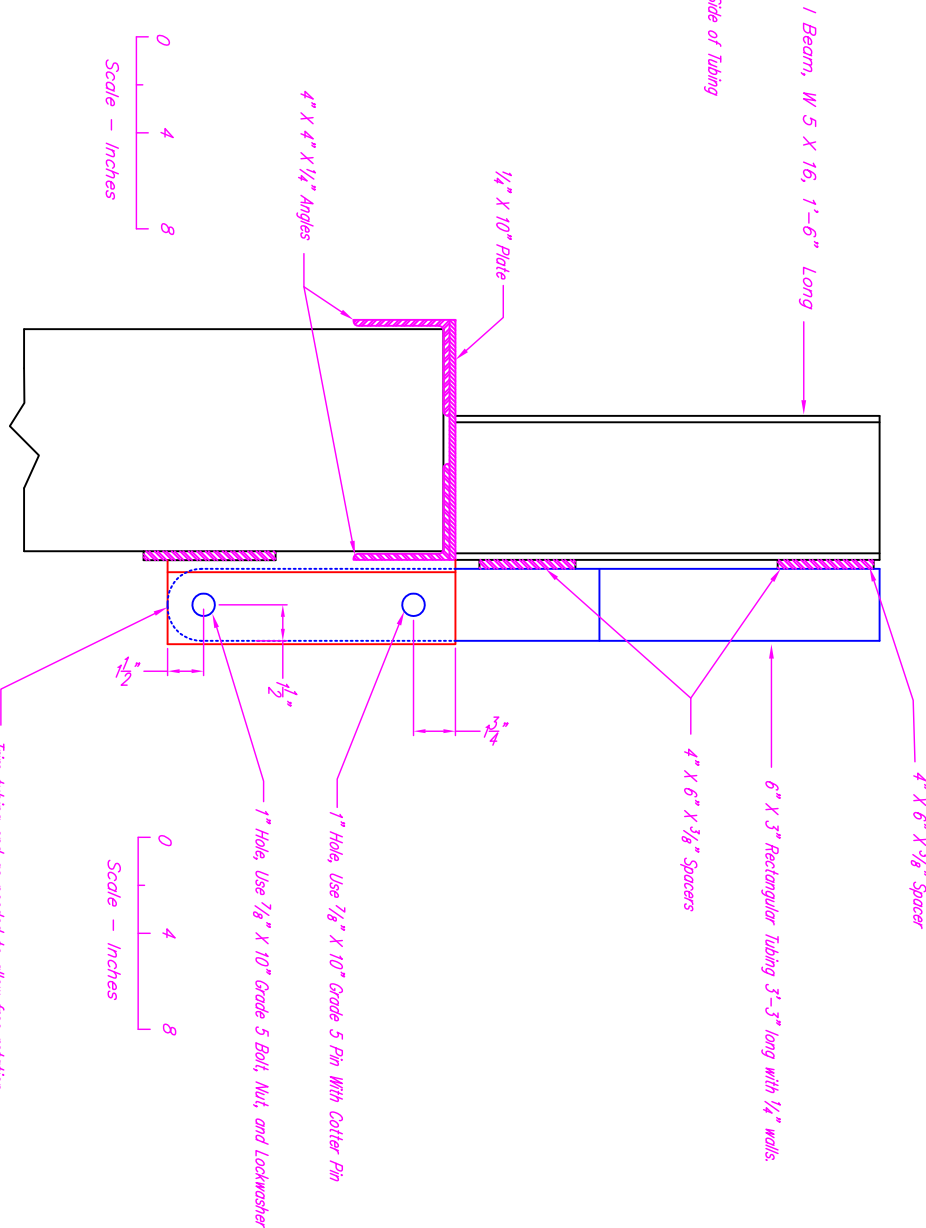
Detail L
Pin and Bolt Not Shown



Isometric View



Section M – M
Pin and Bolt Not Shown



Section N – N

STOP LOG BAT DETAILS Walden



Designed	_____	_____
Drawn	_____	_____
Checked	_____	_____
Approved	_____	_____

Date

File No.
Drawing No.