



HARDIN COUNTY
Board of Supervisors

Wednesday, September 22, 2021

NOTICE: Meetings will be held electronically and in-person. To access and participate in meetings remotely, please call 641-939-8108 for Zoom meeting information.

1. 9:00 A.M. Call To Order
Courthouse Large Conference Room
2. Pledge Of Allegiance
3. Approval Of Agenda
4. Approval Of Minutes

Documents:

[09-08-2021 MINUTES.PDF](#)
[09-08-2021 CHAT LOG.PDF](#)
[09-15-2021 MINUTES.PDF](#)
[09-15-2021 CHAT LOG.PDF](#)

5. Approval Of Claims For Payment

Documents:

[VENDOR PUBLICATION REPORT 9.22.21.PDF](#)

6. Utility Permits & Secondary Roads Department

Documents:

[HEART OF IOWA UTILITY PERMIT UT-21-15.PDF](#)

7. 9:02 A.M. Public Hearing – Deeding Roadways Within The Unincorporated Towns Of Abbott And Robertson

Documents:

[ABBOTT RD ALLEY DEED DESCRIPTIONS.PDF](#)
[ABBOTT TAX SALE 2021-MAP 8-19-21.PDF](#)
[ROBERTSON ALLEY DEED DESCRIPTIONS.PDF](#)
[ROBERTSON DEED MAP 2.PDF](#)

8. Approve Final Plans For BRS-SWAP-0077(601)—FF-42 — Bridge 3267, Main Street Alden Over Iowa River

Documents:

[CHECK PLANS.PDF](#)

9. Quit Claim Deed To S And I Properties, LLC

Documents:

[QUIT CLAIM DEED.PDF](#)

10. Request For Waiver Of Right To Appeal Issuance Of Final Construction Permit – Schiller Site, Section 3, Alden Township

Documents:

[REQUEST FOR WAIVER - SCHILLER SITE.PDF](#)

11. Resolution Approving Waiver Of Right To Appeal Issuance Of Final Construction Permit For The Construction Of Confined Animal Feeding Operation By The Iowa DNR

Documents:

[RESOLUTION APPROVING WAIVER.PDF](#)

12. Resolution Re: Election Misconduct And Penalties Act

Documents:

[RESOLUTION RE ELECTION MISCONDUCT AND PENALTIES ACT.PDF](#)

13. Changes Of Status – Secondary Roads

Documents:

[CHANGE OF STATUS 1 - SECONDARY ROADS.PDF](#)
[CHANGE OF STATUS 2 - SECONDARY ROADS.PDF](#)
[CHANGE OF STATUS 3 - SECONDARY ROADS.PDF](#)

14. Other Business

15. Adjournment/Recess

16. 9:30 A.M. Drainage
Courthouse Large Conference Room

17. 11:15 A.M. Motions To Deed Roadways Within The Unincorporated Towns Of Abbott And Robertson
Courthouse Large Conference Room

HARDIN COUNTY BOARD OF SUPERVISORS
MINUTES – SEPTEMBER 8, 2021
WEDNESDAY - 8:02 A.M.
COURTHOUSE LARGE CONFERENCE ROOM

Chair BJ Hoffman called the meeting to order. Also present were Supervisors René McClellan and Lance Granzow; and Jolene Pieters, Michael Pearce, Lee Gallentine, Matt Rezab, Taylor Roll, and Angela Silvey. Attending via Zoom: Cheryl Lawrence, Elaine Loring, Marian Kuper, Julie Duhn, Lisa Whelan, Donna Juber, Connie Mesch, Becca Junker, Jacob Bolson, Quinn Slaven, Curt Groen, Jamie Geisler, and Lori Kadner.

Quinn Slaven presented on Summit Carbon Solutions' project to capture, compress, and liquefy carbon dioxide emissions from 31 ethanol plants in the Midwest, including one in Hardin County, and transport emissions via pipeline to North Dakota for underground storage. Slaven also touched upon the history of Summit Agricultural Group and economic and environmental impacts of the project.

Questions were posed by Times Citizen Reporter Matt Rezab.

Slaven invited the public to attend a hearing on September 13, 2021 in Steamboat Rock to learn more about the project.

At 8:16 a.m., Granzow moved, McClellan seconded to adjourn. Motion carried.

At 9:00 a.m. Hoffman called the regular meeting to order. Also present were Supervisors McClellan and Granzow; and Michael Pearce, Lee Gallentine, Pauline Lloyd, Taylor Roll, Jolene Pieters, Dave McDaniel, Matt Rezab, Joe Donald, Evan Del Val, Machel Eichmeier, Darrell Meyer, and Angela Silvey. Attending via Zoom: JD Holmes, Allison Munro, Elaine Loring, Lori Kadner, Julie Duhn, Donna Juber, Connie Mesch, Curt Groen, Cheryl Lawrence, Kristi Swalve, Lisa Lawler, Laura Cunningham, Megan Harrell, Denise Smith, Mark Buschkamp, and Thomas Craighton.

The Pledge of Allegiance was recited.

McClellan moved, Granzow seconded to approve the agenda as posted. Motion carried.

Granzow moved, McClellan seconded to approve the minutes of September 1, 2021. Motion carried.

McClellan moved, Granzow seconded to approve the September 8, 2021 claims for payment. Motion carried.

Evan Del Val, engineer with ISG Inc., spoke about County inspection requirements tied to the carbon dioxide pipeline coming through the county and ISG Inc.'s services. No action taken.

Utility Permits: None.

Secondary Roads: No update.

Granzow moved, McClellan seconded that the following Resolution No. 2021-38, Resolution to Publish Notice of Letting for Lease of Agricultural Land, be adopted. Granzow asked if the lease allowed hunting, and County Engineer Taylor Roll advised the lease was for agricultural use only. Roll Call Vote: "Ayes" Granzow, McClellan, and Hoffman. "Nays" None. Resolution No. 2021-38 is hereby adopted as follows:

RESOLUTION 2021-38

**RESOLUTION TO PUBLISH NOTICE OF LETTING FOR LEASE OF
AGRICULTURAL LAND**

WHEREAS, there are no existing leases for the following agricultural land totaling 8.25 acres, more particularly described as follows:

The SW ¼ of the SE ¼, except the north 225 feet, the west 830 feet, and the south 250 feet, of Section 17, Township 89 North, Range 20 West of the 5th P.M., Hardin County, Iowa.

WHEREAS, the County intends to lease this agricultural land and provide access to the highest bidder; and

WHEREAS, Iowa Code requires that notice of letting bids be published.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of Hardin County, Iowa, that the Hardin County Board of Supervisors shall take bids on lease of agricultural land described above herein; and the County shall publish notice the below notice:

**NOTICE OF LETTING FOR LEASE OF AGRICULTURAL LAND
BY HARDIN COUNTY, IOWA**

To Whom It May Concern:

You and each of you are hereby notified that sealed cash rent bids will be received by the Hardin County Board of Supervisors for the cash rent lease of agricultural land in Hardin County, Iowa, totaling 8.25 acres, more particularly described as follows:

The SW ¼ of the SE ¼, except the north 225 feet, the west 830 feet, and the south 250 feet, of Section 17, Township 89 North, Range 20 West of the 5th P.M., Hardin County, Iowa.

The sealed bids should be on a per acre basis. Said bids must be received in the Hardin County Auditor's Office, 1215 Edgington Avenue, Suite 1, Eldora, IA 50627, in a sealed envelope on or before 4:00 p.m. on October 14, 2021. The timely received bids will be opened at the 9:00 a.m. Board meeting on October 20, 2021. The top five bidders then will be contacted by the Board with the top amount to allow the top five bidders to raise their bids at a meeting to take place later that day at 12:00 p.m., October 20, 2021 in the large conference room, Hardin County Courthouse, 1215 Edgington Avenue, Eldora, Iowa.

The period of lease shall be for a term of four (4) years commencing on March 1, 2022 and ending on February 28, 2026, with the cash rent to be paid as follows: one-quarter due on or before April 1, 2022; one-quarter due on or before April 1, 2023; one-quarter due on or before April 1, 2024; one-quarter due on or before April 1, 2025. A copy of the lease document can be obtained from the Auditor's Office.

The Board reserves the right to reject any and all bids.

PASSED AND APPROVED this 8th day of September, 2021.

HARDIN COUNTY BOARD OF SUPERVISORS

ATTEST:

/s/ BJ Hoffman
BJ Hoffman, Chair

/s/ Jolene Pieters
Jolene Pieters, Auditor

McClellan moved, Granzow seconded that the following Resolution No. 2021-39, Resolution to Enter 28E Between Hardin County and Marshall County on Asphalt Resurfacing of County Highway S75, be adopted. Roll Call Vote: "Ayes" McClellan, Granzow, and Hoffman. "Nays" None. Resolution No. 2021-39 is hereby adopted as follows:

**HARDIN RESOLUTION NO. 2021-39
MARSHALL RESOLUTION NO. _____
ENTER 28E BETWEEN HARDIN COUNTY AND MARSHALL COUNTY ON
ASPHALT RESURFACING OF COUNTY HIGHWAY S75**

WHEREAS, THIS AGREEMENT made and entered into this ____ day of _____, 2021, by and between Hardin County, Iowa, (hereinafter “Hardin”), and Marshall County, Iowa, (hereinafter “Marshall”), WITNESSETH:

WHEREAS, the Parties hereto are separate governmental units within the State of Iowa as defined by Section 28E.2, Code of Iowa; and

WHEREAS, Section 28E.3, Code of Iowa, provides that any power or powers, privileges or authority exercised or capable of exercise by a public agency of the State of Iowa may be exercised and enjoyed jointly by a public agency of the State of Iowa having such power or powers, and

WHEREAS, both Parties are responsible for maintaining the public streets and highways within their respective jurisdictions; and

WHEREAS, the Parties hereto are in agreement authorizing Hardin to administer and submit for letting of contract documents for the asphalt resurfacing of County Highway S75 (hereinafter “Project”) through both jurisdictions’ individual Farm to Market Account on behalf of both Parties.

NOW, THEREFORE, IT IS HEREBY MUTUALLY AGREED by and between the parties hereto as follows:

1. Hardin will administer said project and will be the contracting authority per Iowa Dept. of Transportation, on behalf of Hardin and Marshall. Said project is anticipated for construction in 2022.
2. Project is located on County Highway S75 from County Highway E18 (Marshall) north to 310th Street (Hardin).
3. Each county’s Farm-to-Market account shall be responsible for their portion of material costs, divided by the county line. This shall be designated through separate divisions and project numbers on the project plans, as well as separate pay vouchers with the Office of Finance.
4. Hardin shall be responsible for performing all planning and contracting administration of the project without reimbursement.
5. Each county shall be responsible for all survey, engineering, and inspection in their respective counties.
6. Hardin and Marshall agree to save and indemnify and keep harmless, each other against all liabilities, judgements, costs, and expenses which may in any way come against either County or which in any way result from carelessness, neglect, omissions, or any acts of either party or its agents, employees, or workmen in any respect whatsoever.
7. Each party to this Agreement warrants that the execution of the Agreement, in two original copies, has been authorized by the Board of Supervisors of Hardin and Marshall.

- HARDIN COUNTY -

- MARSHALL COUNTY -

/s/ BJ Hoffman
BJ Hoffman, Chairperson
Hardin County Board of Supervisors

David Thompson, Chairperson
Marshall County Board of Supervisors

ATTEST:

ATTEST:

/s/ Jolene Pieters
Hardin County Auditor

Marshall County Auditor

09/08/21
Date

Date

McClellan moved, Granzow seconded that the following Resolution No. 2021-40, a resolution accepting bid and awarding contract for Iowa River’s Edge joint trail projects NRT-C042(87)—9G-42 and TAP-R-C042(104)--8T-42, be adopted. Roll Call Vote: “Ayes” McClellan, Granzow, and Hoffman. “Nays” None. Resolution No. 2021-40 is hereby adopted as follows:

RESOLUTION 2021-40

WHEREAS, the Board of Supervisors, hereafter referred to as “the Board”, believes the Iowa River's Edge joint trail projects NRT-C042(87)--9G-42 and TAP-R-C042(104)--8T-42, hereafter referred to as “the project” is in the best interest of Hardin County, Iowa, and the residents thereof. The project is defined as bridge rehabilitation and concrete paving; and

WHEREAS, the Board has sought appropriate professional guidance for the concept and planning for the project and followed the steps as required by the Code of Iowa for notifications, hearings, and bidding/letting; and

WHEREAS, The Board finds this resolution appropriate and necessary to protect, preserve, and improve the rights, privileges, property, peace, safety, health, welfare, comfort, and convenience of Hardin County and its citizens, all as provided for in and permitted by section 331.301 of the Code of Iowa; and

IT IS THEREFORE RESOLVED by Board to accept the bid from Jasper Construction Services, Inc. in the amount of \$1,847,131.75 and awards the associated contract(s) to the same;

BE IT FURTHER RESOLVED that all other resolutions or parts of resolutions in conflict with this resolution are hereby repealed. If any part of this resolution is adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the resolution or action of The Board as a whole or any part thereof not adjudged invalid or unconstitutional. This resolution shall be in full force and effect from and after the date of its approval as provided by law; and

BE IT FURTHER RESOLVED by the Board of Supervisors of Hardin County, Iowa, that after receiving the necessary contract documents, including but not limited to, the contractor's bond and certificate of insurance, Taylor Roll, the Engineer for Hardin County, Iowa, be and is hereby designated, authorized, and empowered on behalf of the Board of Supervisors of said County to execute the contracts in connection with the afore awarded construction project let through the DOT for this county.

Dated at Eldora, Hardin County, Iowa, this 8th day of September, 2021.

Board of Supervisors of Hardin County, Iowa

/s/ BJ Hoffman

/s/ Reneé McClellan

/s/ Lance Granzow

ATTEST:

By /s/ Jolene Pieters
County Auditor

Granzow moved, McClellan seconded to set September 22, 2021 at 9:02 a.m. for public hearing on deeding roadways within the unincorporated towns of Abbott and Robertson. Motion carried.

McClellan moved, Granzow seconded to approve the Northeast Iowa Area Agency on Aging 28E Agreement. Motion carried.

After Hoffman read aloud a National Voter Registration Month Proclamation, and Granzow expressed unease with its mention of online voter registration, the following action was taken:

McClellan moved, Granzow seconded to approve the National Voter Registration Month Proclamation. Motion carried.

McClellan moved, Granzow seconded to approve the abatement of 2020 taxes for David and Renee Hoyt on Parcel No. 87-19-07-152-019, Order No. 5929. Motion carried.

Granzow moved, McClellan seconded to approve the Recorder's Monthly Report for August 2021. Motion carried.

McClellan moved, Granzow seconded to approve the Sheriff's Monthly Report for August 2021. Motion carried.

Granzow moved, McClellan seconded to approve the retirement of Kevin Wykle, Truck Driver, effective 12/31/2021. Motion carried.

Granzow moved, McClellan seconded to approve the retirement of Bruce Haskin, Truck Driver, effective 09/30/2021. Motion carried.

McClellan moved, Granzow seconded to approve the hiring of Drake Baade, part-time Correctional Officer, at a rate of \$18.90/hour, effective 09/08/2021. Motion carried.

McClellan moved, Granzow seconded to approve the resignation of Jennifer Kappel, full-time Jailer, effective 09/08/2021. Motion carried.

McClellan moved, Granzow seconded to approve the hiring of Ian N. Showers, part-time Correctional Officer, at a rate of \$18.90/hour, effective 09/08/2021. Motion carried.

Other Business:

Hoffman announced that public comment will return to the agenda under new procedures.

McClellan moved, Granzow seconded to adjourn. Motion carried.

At 10:01 a.m. the meeting was reconvened. Present: Supervisors Hoffman, McClellan, and Granzow; and Pauline Lloyd, Michael Pearce, Kyle Janes, Kent Krause, and Angela Silvey. Attending via Zoom: Dan Tilkes, Julie Duhn, and Amber Wiese.

McClellan moved, Granzow seconded to approve the agenda as posted. Motion carried.

Chair Hoffman opened the public hearing on the Animal Feeding Operation Construction Permit – Schiller Site, Section 3, Alden Township.

Proof of publication was verified by Angela Silvey, Board Secretary.

Kent Krause reviewed the construction permit application. Temporary Sanitarian Dan Tilkes noted the DNR will be surveying from an existing hog site to the proposed hog site to ensure distance is correct.

No written comments were received. Oral comments were heard from Julie Duhn.

Hoffman requested Tilkes provide the survey results to the Board.

There being no other comments or objections, McClellan moved, Granzow seconded to close the public hearing. Motion carried.

At 10:15 a.m. Granzow moved, McClellan seconded to adjourn. Motion carried.

BJ Hoffman, Chair
Board of Supervisors

Jolene Pieters
Hardin County Auditor

Chat Log from 9/8/2021

08:46:49 From Hardin County to Owner(Direct Message):

Can we get your name for the record

08:48:49 From Owner to Hardin County(Direct Message):

KATHY STOCKDALE

08:48:58 From Hardin County to Owner(Direct Message):

Thank you

09:05:18 From Donna Juber to Everyone:

Can anyone attend that meeting?

09:07:42 From Donna Juber to Everyone:

Can anyone attend the Steamboat meeting or only landowners who have received a letter?

09:08:59 From Thomas A. Craighton to Everyone:

If these guys find a problem, what is the way to address the issue

09:10:15 From Donna Juber to Everyone:

Thank you

09:20:51 From Julie Duhn to Everyone:

Is Lance saying he does not want to include information concerning online voter registration?

HARDIN COUNTY BOARD OF SUPERVISORS
MINUTES – SEPTEMBER 15, 2021
WEDNESDAY - 9:00 A.M.
COURTHOUSE LARGE CONFERENCE ROOM

Chair BJ Hoffman called the meeting to order. Also present were Supervisors McClellan and Granzow; and Michael Pearce, Thomas Craighton, Jolene Pieters, Taylor Roll, Lee Gallentine, Kent Krause, Carey Callaway Morton, Angela De La Riva, Machel Eichmeier, Pauline Lloyd, and Angela Silvey. Attending via Zoom: Connie Mesch, Curt Groen, Cheryl Lawrence, Matt Rezab, Lori Kadner, Mark Buschkamp, Elaine Loring, Lisa Lawler, Julie Duhn, Rocky Reents, Donna Juber, Denise Smith, and Allison Munro.

The Pledge of Allegiance was recited.

McClellan moved, Granzow seconded to approve the agenda as posted. Motion carried.

Granzow moved, McClellan seconded to approve the September 15, 2021 claims for payment. Motion carried.

Utility Permits: None.

Secondary Roads:

County Engineer Taylor Roll updated the Board on bridge projects.

After brief discussion on Clapsaddle-Garber Associates (CGA) versus ISG Inc. engineering firms, McClellan moved, Granzow seconded to approve the engagement letter from CGA for carbon pipeline inspection services. Motion carried.

Hoffman acknowledged receipt of a hog site separation distance survey, and the following action was taken: Granzow moved, McClellan seconded to recommend approval to the DNR on Animal Feeding Operation Construction Permit Application: Schiller Site, Section 3, Alden Township. Motion carried.

McClellan moved, Granzow seconded to approve the Application for Use of Courthouse Grounds submitted by Jennifer Nazario for a 99 County Bible Reading Marathon slated for October 6-7, 2021. Motion carried.

Granzow moved, McClellan seconded to approve the Auditor's Monthly Report for August 2021. Motion carried.

McClellan moved, Granzow seconded to approve the discharge of Brock Kinney, Correctional Officer, effective 09/02/2021. Motion carried.

McClellan moved, Granzow seconded to approve the resignation of Cyrus Thomas, Correctional Officer, effective 09/10/2021. Motion carried.

Other Business:

McClellan moved, Granzow seconded to approve a Constitution Week 2021 Proclamation. Motion carried.

Granzow moved, McClellan seconded to adjourn. Motion carried.

At 10:36 a.m. the meeting was reconvened. Present: Supervisors Hoffman, McClellan, and Granzow; and Darrell Meyer and Angela Silvey.

McClellan moved, Granzow seconded to go into closed session pursuant to Iowa Code 21.5(1)(c). Roll Call Vote: "Ayes" McClellan, Granzow, and Hoffman. "Nays" None. Motion carried. The Board entered closed session at 10:36 a.m.

Following discussion, Granzow moved, McClellan seconded to exit closed session. Roll Call Vote: "Ayes" Granzow, McClellan, and Hoffman. "Nays" None. Motion carried. Closed session ended at 10:56 a.m.

At 10:56 a.m. McClellan moved, Granzow seconded to adjourn. Motion carried.

BJ Hoffman, Chair
Board of Supervisors

Jolene Pieters
Hardin County Auditor

Chat Log from 9/15/2021

09:06:57 From Donna Juber to Everyone:

Doesn't DNR have to receive it first?

09:08:39 From Julie Duhn to Everyone:

Is the Darrell Meyer going to ask people not to bring guns to his event on courthouse grounds Sept. 16?

09:10:11 From Julie Duhn to Everyone:

Like censoring public comment with some rules?



Vendor Publication Report

Payment Date Range: 09/22/2021 - 09/22/2021

Vendor Name	Vendor Number	Total Payments
AgVantage FS	690V	39,485.57
Airgas North Central	633V	411.05
Alliant Energy	4253V	16,179.77
Angela De La Riva	100411	238.95
Black Hills Energy	4450V	74.24
Bonnie Wiederkehr	2485V	153.60
Campbell Supply Co	620V	280.07
Central Lock & Key, Inc	2316V	305.00
Christine Axiotis	100739	90.30
Cintas Corporation-Cincinnati	1545V	419.96
Cintas-Chicago	2475V	194.62
City of Iowa Falls	509V	31.43
City of Radcliffe	517V	65.80
Connie Surls	2545V	76.50
Contech Engineered Solutions	2398V	30,510.20
Donald C Orgel	116E	105.00
Eldora Family Dentistry LLC	1108V	940.00
Eldora Tire & Alignment	62947V	91.61
Franklin Rural Elec Co-Op	1128V	30.00
GECRB/AMAZON	2403V	1,097.36
Greenbelt Home Care	61807V	4,708.72
Ia Dept of Public Safety	5048V	2,119.50
IACME, Iowa Association of County Medical Examiners	100925	200.00
IFADC	62574V	7,000.00
Iowa Law Enforcement Academy	1810V	1,750.00
James D Johnson	9237E	16.65
Joel Weeks	100732	67.50
Julie Bolhuis	100603	54.00
Kathryn Gimer	100733	153.30
Ken Brownlee	1595V	17.50
Machel R Eichmeier	288E	82.00
Marla Kay Williams	2268V	294.50
Mid-America Publishing Corp	62056V	178.48
Murphy Tractor & Equipment Co., Inc	2286V	2,163.33
Orkin, 538-Waterloo	100827	60.00
Patsy Daniel	2420V	167.30
Perry AG Services, Inc.	100574	22,117.50
Pitney Bowes Inc-Reserve	773V	395.65
Premier Office Equipment, Inc.	62320V	232.87
Quality Automotive Inc	61237V	275.45
Steven G Recker	219E	159.00
Summit Food Service LLC	2332V	4,479.68
Times Citizen	538V	37.44
US Bank Equipment Finance	954V	1,260.84
Van Wall Equipment, Inc.	2924V	85.88
Verizon Connect Nwf, Inc-Dallas	100620	18.19
Verlyn Mensing	100703	400.00
Virtual Radiologic	100193	417.00
Wayne Riskedahl	100313	15.75
William J Hoffman	596E	166.50
Ziegler Incorporated	1463V	293.72
Grand Total:		140,169.28



HARDIN COUNTY UTILITY PERMIT APPLICATION

Permit No: UT-21-15

- Underground, Aerial, Permanent Installation, Temporary Installation

This is a Utility Permit Application for telecommunications, electric, gas, water and sewer utilities. The applicant agrees to comply with the following permit requirements. Compliance shall be determined by the sole discretion of the County Engineer as deemed necessary to promote public health, safety, and general welfare. These requirements shall apply unless waived in writing by the County Engineer prior to installation.

APPLICANT NAME: Heart of Iowa Communications Cooperative
STREET ADDRESS: 502 Main Street PO Box 130
CITY: Union STATE: IA ZIP: 50258
PHONE: 641-486-2211 FAX: jduncan@heartofiowa.coop CONTACT PERSON: Jay Duncan
TYPE OF WORK: Install 1" HDPE duct and 4 fiber cable for new house.

1. LOCATION PLAN

An applicant shall file a completed location plan as an attachment to this Utility Permit Application. The location plan shall set forth the location of the proposed line on the secondary road system and include a description of the proposed installation.

2. WRITTEN NOTICE

At least five (5) working days prior to the proposed installation, an applicant shall file with the County Engineer a written notice stating the time, date, location, and nature of the proposed installation.

3. INSPECTION

The County Engineer may provide a full-time inspector during the installation of all lines to ensure compliance with this Utility Permit. The inspector shall have the right, during reasonable hours and after showing proper identification, to enter any installation site in the discharge of the inspector's official duties, and to make any inspection or test that is reasonably necessary to protect the public health, safety, and welfare.

4. INSPECTION FEES

The applicant shall pay actual costs directly attributable to the installation inspection conducted by the County Engineer. Within thirty (30) days after completion of the installation, the County Engineer shall submit a statement for inspection services rendered. The applicant agrees to reimburse the county within thirty (30) days of billing.

5. REQUIREMENTS

The installation inspector shall assure that the following requirements have been met:

- A. Construction signing shall comply with the Manual on Uniform Traffic Control Devices
B. Depth - (Add additional depth if ditch has silted to the thickness of the deposited silt.) The minimum depth of cover shall be as follows:
Telecommunications... 36" Electric.....48"
Gas.....48" Water.....60"
Sewer.....60"
C. Minimum roadway overhead clearance for utility lines shall be 20 feet.
D. The applicant shall use reference markers in the right-of-way (ROW) boundary to locate line and changes in alignment as required by the County Engineer. A permanent warning tape shall be placed one (1) foot above all underground utility lines.
E. All tile line locations shall be marked with references located in the ROW line.
F. No underground utility lines shall cross over a crossroad drainage structure without approval from the County Engineer.
G. Residents along the utility route shall have uninterrupted access to the public roads. An all weather access shall be maintained for residents adjacent to the project.
H. After construction, granular surfacing shall be added to the road by the applicant to restore the road to its original condition. After surfacing has been applied, the road surface shall be reviewed by the County Engineer once the road has been saturated, to determine if additional surfacing on the roadway by the applicant is necessary.
I. All damaged areas within the ROW shall be repaired and restored to at least their former condition by the applicant or the cost of any repair work caused to be performed by the county will be assessed against the applicant.
J. Areas disturbed during construction which present an erosion problem shall be solved by the applicant in a manner approved by the County Engineer.
K. All trenches, excavations, and utilities that are knifed shall be properly tamped.
L. All utilities shall be located between the bottom of the backslope and the bottom of the foreslope, unless otherwise approved in writing by the County Engineer prior to installation.
M. Road crossing shall be bored. The depth below the road surface shall match the minimum depth of cover for the respective utility.

6. NON-CONFORMING WORK

The County Engineer may halt the installation at any time if the applicant's work does not meet the requirements set forth in this Utility Permit Application.

7. COUNTY INFRACTION

Violation of this permit is a county infraction under Iowa Code Section 331.307, punishable by a civil penalty of \$100 for each violation. Each day that a violation occurs or is permitted to exist by the applicant constitutes a separate offense.

8. HOLD HARMLESS

The utility company shall save this county harmless of any damages resulting from the applicant's operations. A copy of a certificate of insurance naming this county as an additional insured for the permit work shall be filed in the County Engineer's Office prior to installation. The minimum limits of liability under the insurance policy shall be \$1,000,000.

9. PERMIT REQUIRED

No applicant shall install any lines unless such applicant has obtained a Utility Permit from the County Engineer and has agreed in writing that said installation will comply with all ordinances and requirements of the county for such work. Applicants agree to hold the county free from liability for all damage to applicant's property which occurs proximately as a result of the applicant's failure to comply with said ordinances or requirements.

10. RELOCATION

The applicant shall, at any time subsequent to installation of utility lines, at the applicant's own expense, relocate or remove such lines as may become necessary to conform to new grades, alignment or widening of ROW resulting from maintenance or construction operations for highway improvements.

DATE: 9/20/2021 COMPANY: Heart of Iowa Communications Cooperative

SIGNATURE: Filled out online

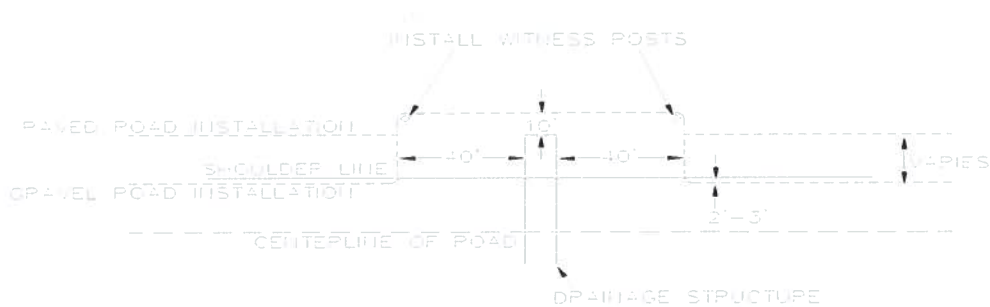
RECOMMENDED FOR APPROVAL:

DATE: _____ COUNTY ENGINEER

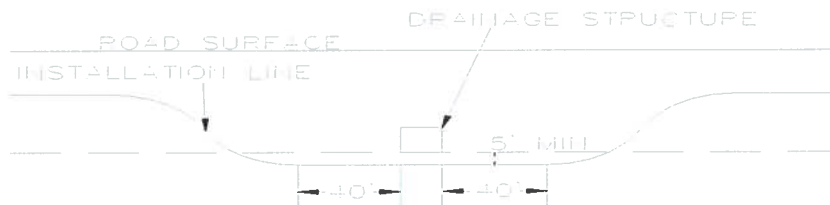
APPROVAL:

DATE: _____ CHAIRMAN, BOARD OF SUPERVISORS

NON-BORED INSTALLATION DETAIL



BORED INSTALLATION DETAIL



Abbott Deed Descriptions, / Map 8/19/21

Maple Grove Investments Inc.

- 1) A 20 foot-wide (north-south) alley lying west and adjacent to lots 1 through 6 in block 11, located in the unincorporated town of Abbott, Hardin County, Iowa.

OHP 1, LC

- 2) East 160 feet of First Street lying between block 10 and 11, located in the unincorporated town of Abbott, Hardin County, Iowa.
- 3) A 20 foot-wide (north-south) alley lying west and adjacent to lots 1 through 6 in block 10, located in the unincorporated town of Abbott, Hardin County, Iowa.
- 4) East half of Johnson Street lying west and adjacent to lots 7 through 10 in block 10, and the east half of Johnson Street lying west and adjacent to Second Street, located in the unincorporated town of Abbott, Hardin County, Iowa.
- 4A) Second Street lying south and adjacent to lot 7, block 10, located in the unincorporated town of Abbott, Hardin County, Iowa.

Abby Trust

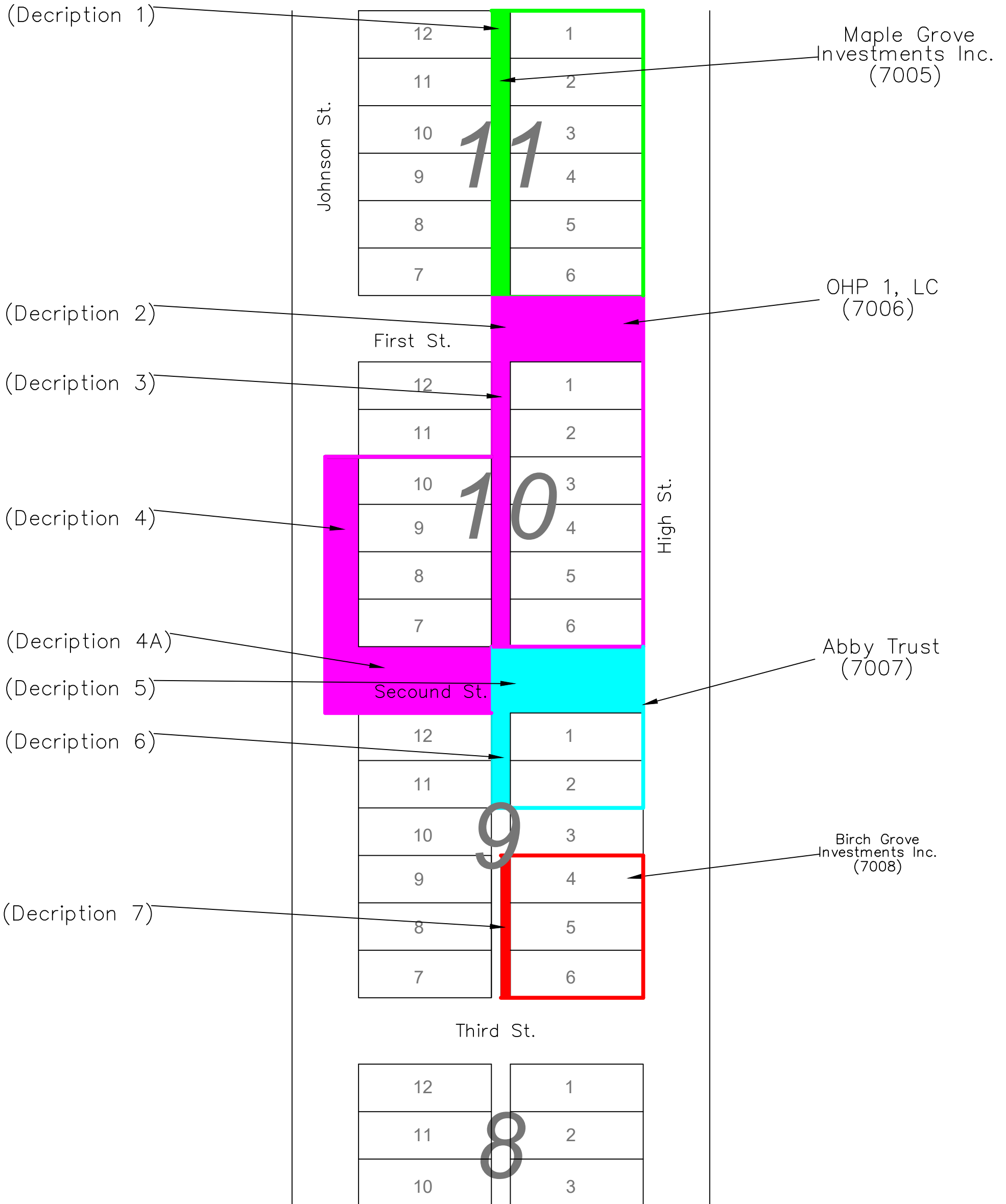
- 5) East 160 feet of Second Street lying between blocks 9 and 10, located in the unincorporated town of Abbott, Hardin County, Iowa.
- 6) A 20 foot-wide (north-south) alley lying west and adjacent to lots 1 and 2 in block 9, located in the unincorporated town of Abbott, Hardin County, Iowa.

Birch Grove Investments Inc.

- 7) East half of a 20 foot-wide (north-south) alley lying west and adjacent to lots 4,5,6 in block 9, located in the unincorporated town of Abbott, Hardin County, Iowa.

A Portion of Abbott Plat

PROPOSED DEEDS TO STREETS & ALLEYS FOR TAX SALE



Robertson Alley Deed Descriptions

Dona Allen LLC.

The South half of a 20 foot-wide (east-west) alley laying north and adjacent to lots 9 and 10 in block 2, located in the unincorporated town of Robertson, Hardin County, Iowa.

The North half of First Street adjacent to lots 9 and 10 in block 2, located in the unincorporated town of Robertson, Hardin County, Iowa.



1" = 100'
Scale

Mabel R. Brass

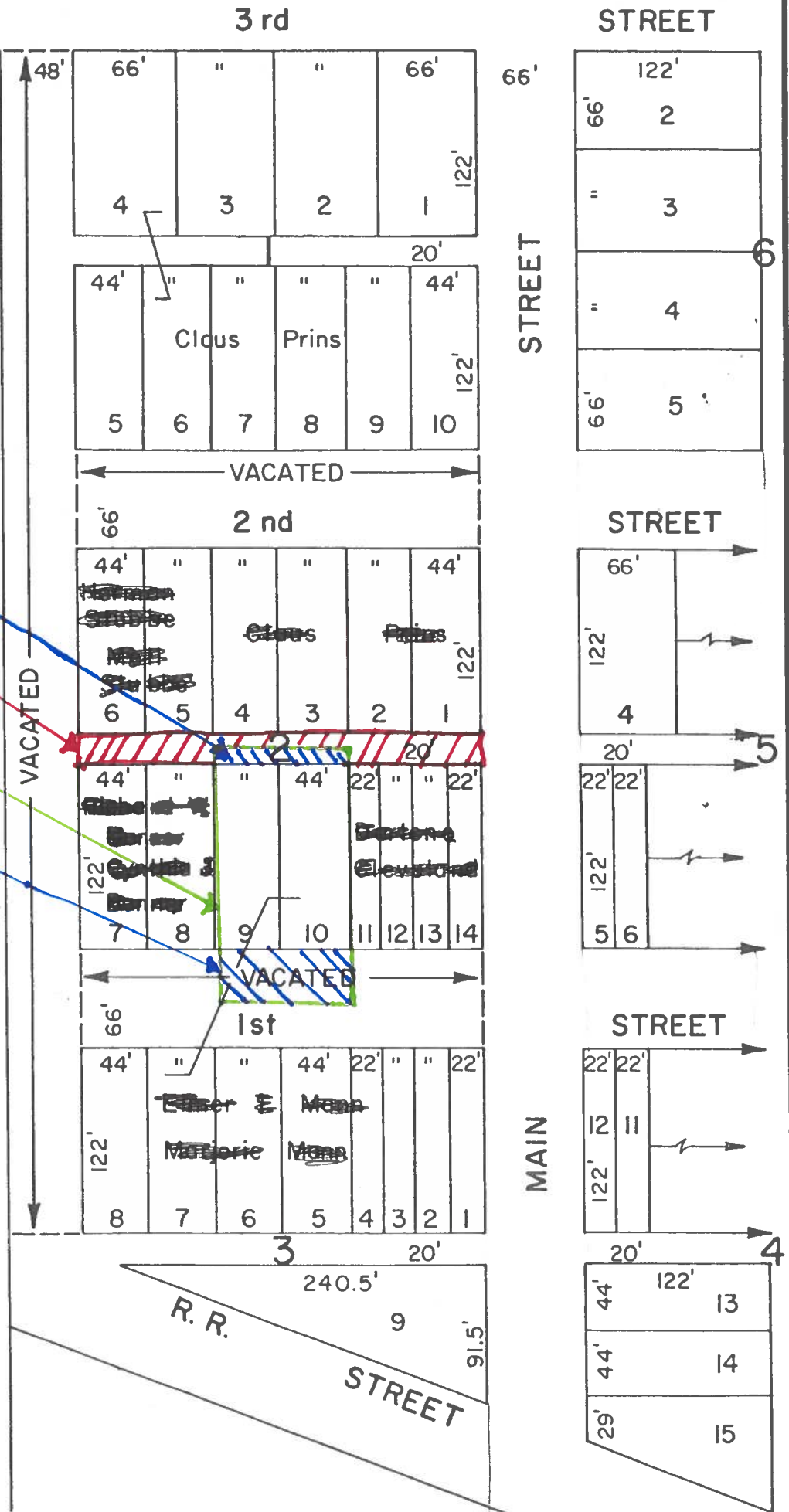
Alley
Deed

Alley Vacated 1899

NOREM'S
Parcel

Alley Deed

VACATIONS IN
ROBERTSON, IOWA
SEC. 19 T-89N R-19W



STANDARD ROAD PLANS
STANDARD ROAD PLANS ARE LISTED ON SHEET 55.

SECTION 404 PERMIT AND CONDITIONS 281-1
10-18-16
CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT 14, PERMIT NO. 2019-1131. A COPY OF THIS PERMIT IS AVAILABLE FROM THE IOWA DOT WEBSITE (<http://envpermits.iowadot.gov/>). THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

THIS PROJECT IS COVERED BY IOWA DNR FLOODPLAIN CONSTRUCTION PERMIT NO. 2020-1429FP-01, DATED: 02-11-2021



PLANS OF PROPOSED IMPROVEMENT ON THE
FARM TO MARKET SYSTEM
HARDIN COUNTY

PROJECT NO. BRS-SWAP-0077(601)--FF-42
BRIDGE REPLACEMENT - CCS

IN THE CITY OF ALDEN, ON MAIN ST. ALDEN, OVER IOWA RIVER, S18 T89 R21

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

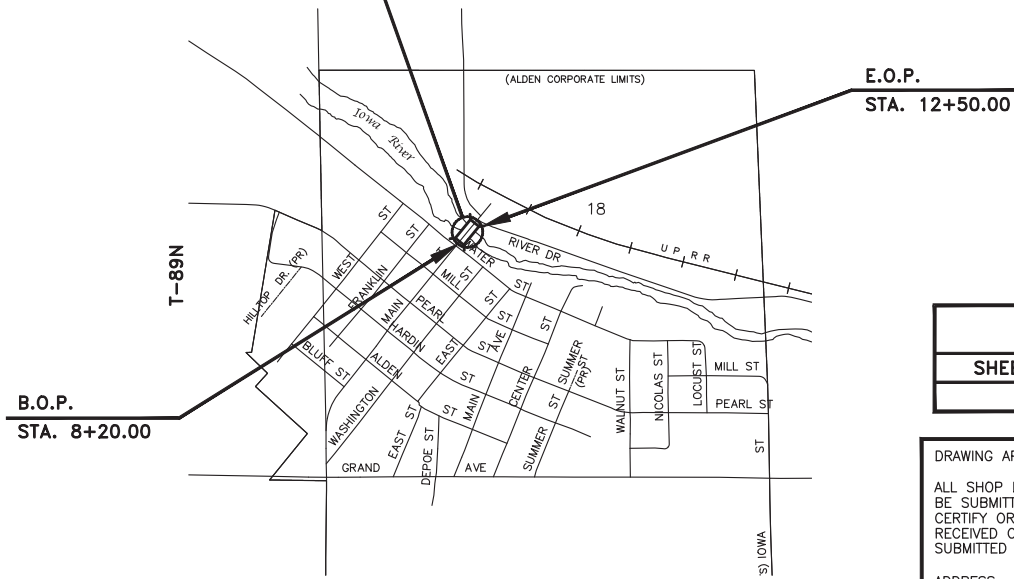
THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS A PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

UTILITY CONTACTS			
COMPANY	UTILITY	CONTACT	PHONE #

INDEX OF SHEETS

1. TITLE SHEET
- 2.-3. QUANTITY SUMMARY
4. SITUATION PLAN
5. GENERAL PLAN
6. GENERAL NOTES & STAKING DIAGRAM
7. POLLUTION PREVENTION PLAN
- 8.-10. SOUNDING DATA
11. REMOVAL DETAILS
- 12.-17. SOUTH ABUTMENT DETAILS
- 18.-21. NORTH ABUTMENT DETAILS
22. SOUTH ABUTMENT BACKFILL DETAILS
23. NORTH ABUTMENT BACKFILL DETAILS
24. ABUTMENT BACKFILL DETAILS
25. PIER NO. 1 DETAILS
26. PIER NO. 2 DETAILS
27. PIER NO. 3 DETAILS
28. PIER DETAILS
- 29.-32. SUPERSTRUCTURE DETAILS
- 33.-34. WEST CLOSED RAIL DETAILS
- 35.-36. EAST OPEN RAIL DETAILS
37. STEEL HANDRAIL DETAILS
- 38.-39. SIDEWALK PILASTER DETAILS
- 40.-41. STEEL RAILING DETAILS
42. PILASTER HANDRAIL DETAILS
- 43.-44. NORTHWEST WING RAILING DETAILS
- 45.-46. SOUTHWEST WING RAILING DETAILS
47. LIGHTING DETAILS
48. RAISED SIDEWALK DETAILS
49. SOUTH APPROACH PAVEMENT DETAILS
50. NORTH APPROACH PAVEMENT DETAILS
51. SOUTHWEST APPROACH SIDEWALK SLAB DETAILS
52. NORTHWEST APPROACH SIDEWALK SLAB DETAILS
- 53.-54. SIDEWALK DETAILS
55. TYPICAL SECTIONS & TABULATIONS
- 56.-57. TABULATIONS
- 58.-59. CROSS SECTIONS - MAIN STREET
- 60.-61. CROSS SECTIONS - RIVER DRIVE

B.O.P. STA. 8+20.00
E.O.P. STA. 12+50.00
FHWA NO. 000110
STATION 10+00.00
PROPOSED 167'-0" x 28'-0" CONTINUOUS CONCRETE SLAB BRIDGE WITH 5' SIDEWALK, 0° SKEW



MILEAGE SUMMARY		
LOCATION	LIN.FT.	MILES
MAIN ST. STA. 8+20.00 TO STA. 12+50.00	430.00	0.0814
RIVER DR. STA. 101+73.52 TO STA. 103+93.28	219.76	0.0416
TOTAL LENGTH	649.76	0.1231

2017, TRAFFIC COUNT = 1660 V.P.D. - MAIN STREET
2017, TRAFFIC COUNT = 790 V.P.D. - RIVER DRIVE

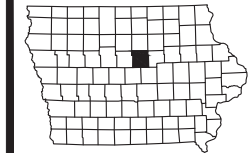
INDEX OF SEALS		
SHEET NO.	NAME	TYPE
8	DAVID LOGEMANN	SOILS

DRAWING APPROVAL
ALL SHOP DRAWINGS AND FALSEWORK DRAWINGS THAT REQUIRE APPROVAL SHALL BE SUBMITTED TO AND APPROVED BY THE CONTRACTOR, WHO SHALL STAMP, CERTIFY OR PROVIDE OTHER SUCH EVIDENCE ON THE DRAWINGS THAT THEY HAVE RECEIVED CONTRACTOR APPROVAL. THE APPROVED DRAWINGS SHALL THEN BE SUBMITTED TO CALHOUN-BURNS AND ASSOCIATES, INC., FOR REVIEW AND APPROVAL.
ADDRESS : 1500 30TH STREET
WEST DES MOINES, IOWA 50266
TELEPHONE : (515) 224-4344
FAX : (515) 224-1385
SHOP DRAWINGS SHALL BE INDEPENDENT DRAWINGS WITH ADEQUATE DIMENSIONING FOR FABRICATION OF INDIVIDUAL PIECES OF EACH COMPONENT. PHOTOCOPIES OF PLAN DRAWINGS AND NON-CONTRACTOR APPROVED PLANS WILL BE REJECTED.
THESE DRAWINGS SHALL NOT BE SENT TO IOWA D.O.T. OFFICE OF BRIDGES AND STRUCTURES.

CITY OF ALDEN, IOWA	
MAYOR	JEFF FISCUS
COUNCIL	JANAAN HARDING JERRY HARTEMA ROBERT HOVERSTEN MARK OLIVER MICHAEL OLIVER
CLERK	LORRIE WATTS
APPROVED: MAYOR	ATTEST: CLERK
JEFF FISCUS	LORRIE WATTS

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
DATE: _____
LOWELL G. MILLER, P.E.
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2022.
PAGES OR SHEETS COVERED BY THIS SEAL: _____
NOT FOR CONSTRUCTION CHECK PLANS

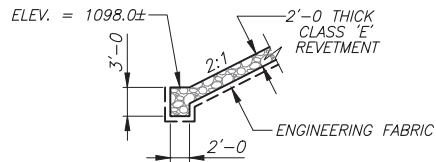
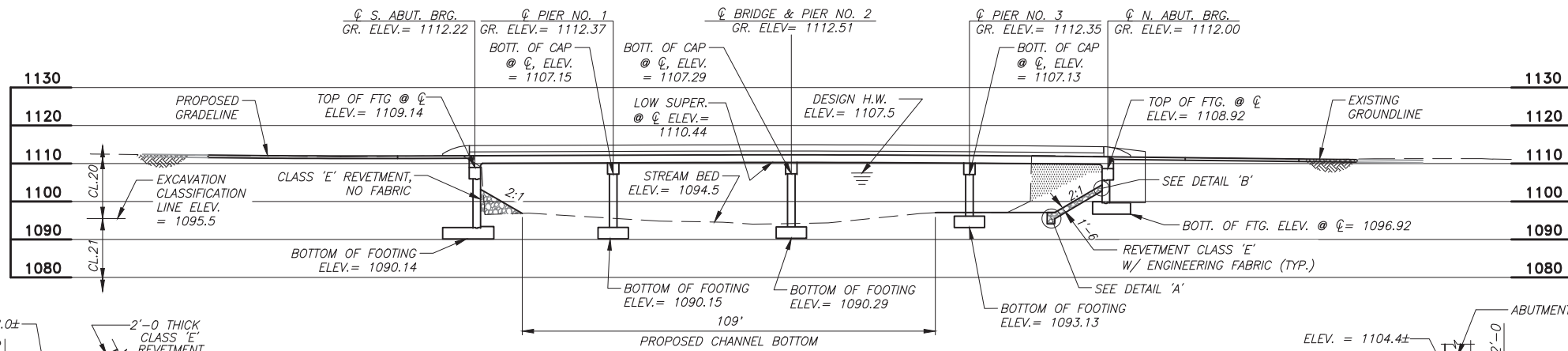
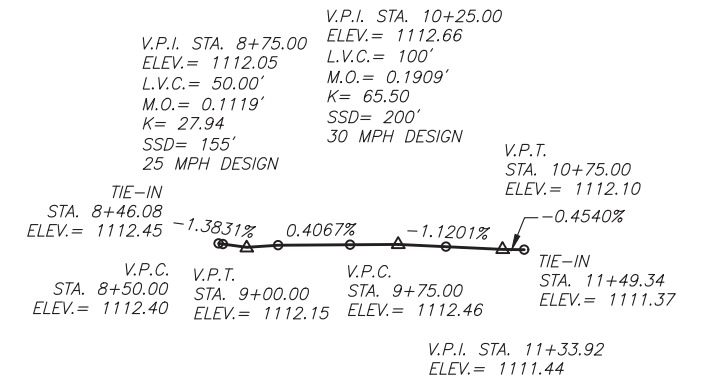
APPROVED	
HARDIN COUNTY ENGINEER	DATE
BOARD OF SUPERVISORS	DATE



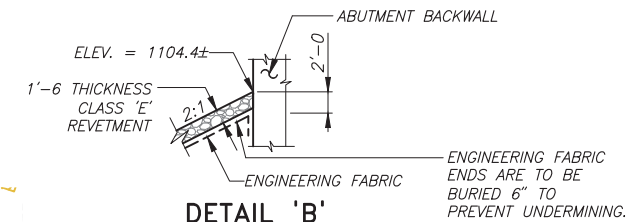
PROJECT LOCATION
(NOT TO SCALE)



BENCH MARK: CP #1, CUT 'X', STA. 8+19, 26' RT. ELEV.= 1110.25
 CP #2, 1/2" REBAR, STA. 11+15, 41' LT. ELEV.= 1112.69

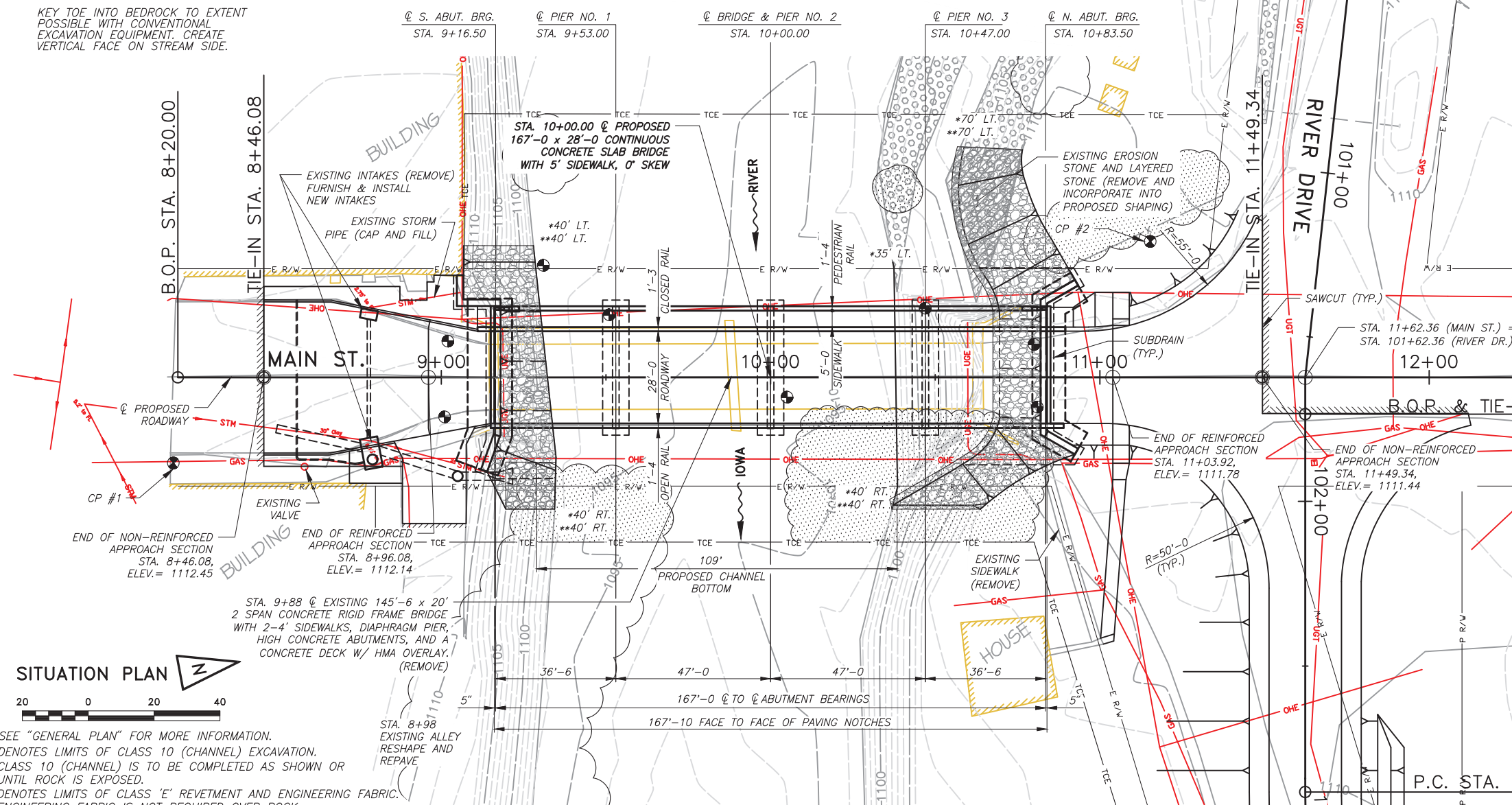


LONGITUDINAL SECTION ALONG Q ROADWAY



PROPOSED GRADE (MAIN ST.)

KEY TOE INTO BEDROCK TO EXTENT POSSIBLE WITH CONVENTIONAL EXCAVATION EQUIPMENT. CREATE VERTICAL FACE ON STREAM SIDE.



LOCATION

CITY OF ALDEN
 HARDIN COUNTY
 T-89N, R-21W
 SECTION 18
 ALDEN TOWNSHIP
 OVER IOWA RIVER

HYDRAULIC DATA

DRAINAGE AREA = 636.0 SQ. MI.
 DESIGN DISCHARGE = 11,800 C.F.S.
 DESIGN HIGH WATER ELEV. = 1107.5
 MANNING SLOPE = 0.00155 FT./FT.
 BRIDGE WATERWAY AREA = 1716 SQ. FT.
 DESIGN VELOCITY = 6.9 F.P.S.
 Q25 = 9,990 C.F.S. STAGE ELEV. = 1106.4
 Q50 = 11,800 C.F.S. STAGE ELEV. = 1107.5 (DESIGN)
 Q100 = 13,800 C.F.S. STAGE ELEV. = 1108.5
 Q200 = 16,000 C.F.S. STAGE ELEV. = 1109.6
 Q500 = 18,400 C.F.S. STAGE ELEV. = 1110.6
 EXT. H.W. ELEV. = 1109.4± (1998)
 ANTICIPATED Q200 SCOUR ELEV. = 1092.0± (BEDROCK)
 ANTICIPATED Q500 SCOUR ELEV. = 1092.0± (BEDROCK)

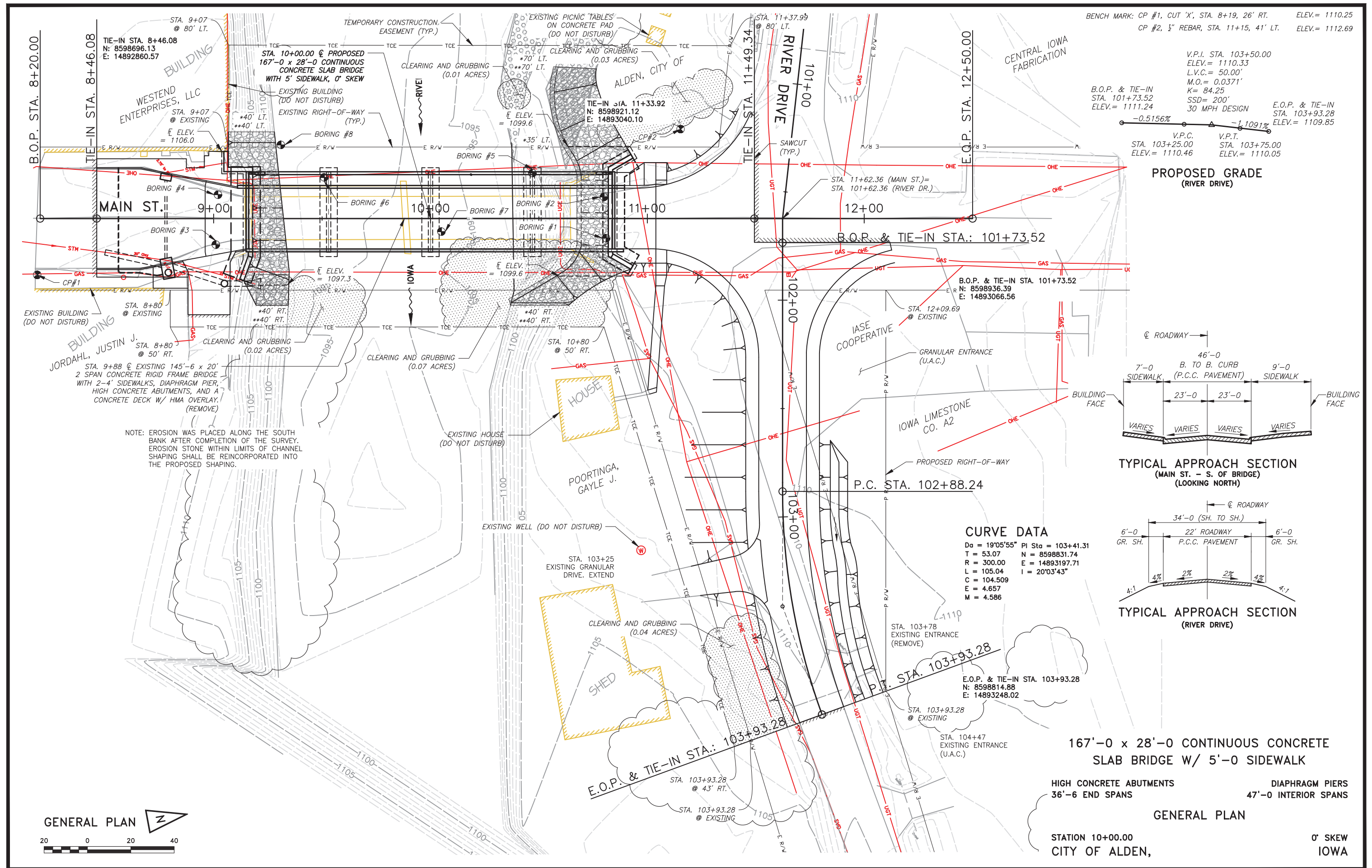
NOTE: THIS BRIDGE IS DESIGNED TO WITHSTAND APPLICABLE EFFECTS OF ICE AND THE HORIZONTAL STREAM LOADS AND UPLIFT FORCES ASSOCIATED WITH THE Q100.

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SITUATION PLAN

STATION 10+00.00
 CITY OF ALDEN,
 IOWA



BENCH MARK: CP #1, CUT 'X', STA. 8+19, 26' RT. ELEV.= 1110.25
 CP #2, 1/2" REBAR, STA. 11+15, 41' LT. ELEV.= 1112.69

V.P.I. STA. 103+50.00
 ELEV.= 1110.33
 L.V.C.= 50.00'
 M.O.= 0.0371'
 K= 84.25
 SSD= 200'
 30 MPH DESIGN

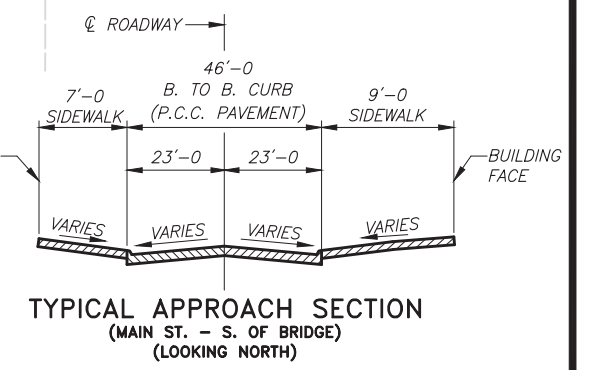
E.O.P. & TIE-IN
 STA. 103+93.28
 ELEV.= 1109.85

B.O.P. & TIE-IN
 STA. 101+73.52
 ELEV.= 1111.24

V.P.C. STA. 103+25.00
 ELEV.= 1110.46

V.P.T. STA. 103+75.00
 ELEV.= 1110.05

PROPOSED GRADE
 (RIVER DRIVE)



CURVE DATA

Da = 19°05'55" PI Sta = 103+41.31
 T = 53.07 N = 8598831.74
 R = 300.00 E = 14893197.71
 L = 105.04 I = 20°03'43"
 C = 104.509
 E = 4.657
 M = 4.586

**167'-0" x 28'-0" CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0" SIDEWALK**

HIGH CONCRETE ABUTMENTS
 36'-6" END SPANS

DIAPHRAGM PIERS
 47'-0" INTERIOR SPANS

GENERAL PLAN

STATION 10+00.00
 CITY OF ALDEN,
 IOWA

0° SKEW
 IOWA



SPECIFICATIONS

DESIGN: AASHTO LRFD 8TH EDITION, SERIES OF 2017, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

CONSTRUCTION: THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS GENERAL SUPPLEMENTAL SPECIFICATIONS; AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS, SHALL APPLY TO THE CONSTRUCTION ON THIS PROJECT.

DESIGN STRESSES

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, SERIES 2017, EXCEPT AS NOTED IN THE CURRENT IOWA BRIDGE DESIGN MANUAL.

REINFORCING STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 5, GRADE 60.
CONCRETE IN ACCORDANCE WITH LRFD AASHTO SECTION 5, F'C=4,000 PSI.

GENERAL NOTES

THIS DESIGN IS FOR A 167'-0" x 28'-0" REINFORCED CONCRETE SLAB BRIDGE WITH A 5'-0" SIDEWALK ON MAIN STREET OVER THE IOWA RIVER IN THE CITY OF ALDEN, IOWA.

THIS BRIDGE SUPERSTRUCTURE IS DESIGNED FOR HL-93 LOADING PLUS 20 LBS. PER SQ. FT. OF ROADWAY FOR FUTURE WEARING SURFACE. THE BRIDGE SUBSTRUCTURES ARE DESIGNED FOR HL-93 LOADING PLUS 20 LBS. PER SQ. FT. OF ROADWAY FOR FUTURE WEARING SURFACE AND SIDEWALK LIVE LOAD WAS APPLIED AT 75 LBS. PER SQUARE FOOT.

ACCESS SHALL BE MAINTAINED TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE PRIME CONTRACTOR SHALL EMPLOY CONTROLS TO REDUCE THE EROSIVENESS OF LAND ADJACENT TO SURFACE WATERS AND WETLANDS, INCLUDING ESTABLISHMENT AND MAINTENANCE OF EROSION CONTROL DURING AND AFTER CONSTRUCTION AND REVEGETATION OF ALL DISTURBED AREAS UPON PROJECT COMPLETION. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL EROSION CONTROL MEASURES.

STANDARD ROAD PLAN EW-401 IS LISTED IN TABULATION 105-4; HOWEVER, IT IS INCLUDED FOR INFORMATION PURPOSES ONLY SINCE IT IS AN OPTION. NO QUANTITIES ASSOCIATED WITH CONSTRUCTING EW-401 ARE INCLUDED IN ANY BID ITEMS.

STANDARD ROAD PLANS ARE AVAILABLE FROM THE IOWA DEPARTMENT OF TRANSPORTATION WEBSITE: <http://www.iowadot.gov/erl/index.html>.

UTILITY NOTES

SEE SECTION 1107.15 OF THE STANDARD SPECIFICATION REGARDING UTILITY COORDINATION.

WASTE AND DISPOSAL NOTES

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT AREAS (INCLUDING HAUL ROADS) SELECTED FOR WASTE OR DISPOSAL NOT IMPACT 1) CULTURALLY SENSITIVE SITES OR GRAVES OR 2) WETLANDS OR "WATERS OF THE U.S.", INCLUDING STREAMS OR STREAM BANKS BELOW THE "ORDINARY HIGH WATER MARK", WITHOUT AN APPROVED U.S. ARMY CORPS OF ENGINEERS SECTION 404 PERMIT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE ENGINEER.

HAZARDOUS MATERIALS NOTES

AN INSPECTION FOR THE PRESENCE OF ASBESTOS CONTAINING MATERIALS WAS COMPLETED BY: SCOTT BROWN OF IOWA ENVIRONMENTAL SERVICES
IA LICENSE NUMBER: 18-09041
DATE INSPECTED: 04/10/2019
PHONE: 515-279-8042

A SCRAPE SAMPLE OF THE EXISTING PAINT WAS TAKEN FROM THE RAILING OF THIS BRIDGE TO GET AN INDICATION OF THE EXISTENCE AND OF THE LEVEL OF TOTAL CHROMIUM AND TOTAL LEAD. ANALYSIS OF TOTAL LEAD ON THIS SAMPLE WAS 71,800 PART PER MILLION (PPM). ANALYSIS OF TOTAL CHROMIUM ON THIS SAMPLE WAS 75 PPM. THESE ANALYSES SHOW THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS. LEVELS INDICATED BY THESE TESTS COULD CREATE CONDITIONS ABOVE REGULATORY LIMITS FOR HEALTH AND SAFETY REQUIREMENTS. NO OTHER CONSTITUENTS WERE ANALYZED. THE BIDDER SHOULD NOT RELY ON THE COUNTY'S TESTING AND ANALYSIS FOR ANY PURPOSE OTHER THAN AS AN INDICATION OF THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS.

THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A MANNER THAT ANY PAINT REMOVED DURING REMOVAL IS CONTAINED, COLLECTED, AND DISPOSED OF IN ACCORDANCE WITH SECTION 2508 OF THE STANDARD SPECIFICATIONS.

BEFORE DELIVERY OF ANY SCRAP STEEL THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE RECEIVING FACILITY. THIS NOTICE SHALL AT A MINIMUM INCLUDE:

1. A NOTICE THAT THE SCRAP STEEL IS COATED WITH PAINT THAT HAS REGULATED MATERIALS AT LEVELS THAT COULD BE HAZARDOUS TO EMPLOYEES OR THE ENVIRONMENT.
2. A COPY OF THE SCRAPE SAMPLE PROVIDED IN THE CONTRACT DOCUMENTS.
3. A SIGNATURE BLOCK FOR THE RECEIVING FACILITY TO CONFIRM THEIR RECEIPT OF THIS INFORMATION. A COPY OF THIS NOTICE, SIGNED BY THE RECEIVING FACILITY, SHALL BE RETURNED TO THE ENGINEER BEFORE ANY SCRAP STEEL IS REMOVED FROM THE PROJECT.

ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THE ABOVE REMOVAL AND DISPOSAL REQUIREMENTS WILL BE INCIDENTAL TO "REMOVAL OF EXISTING BRIDGE."

CONCRETE AND REINFORCING STEEL NOTES

ALL REINFORCING STEEL SHALL BE SECURELY WIRED IN PLACE BEFORE CONCRETE IS PLACED. BAR CHAIRS SPACED AT NOT MORE THAN 3'-0" CENTERS IN EITHER DIRECTION SHALL BE USED TO SUPPORT ALL REINFORCING IN ACCORDANCE WITH THE SECTION 2404 OF THE STANDARD SPECIFICATIONS.

TOP AND BOTTOM REINFORCING STEEL IS TO BE SUPPORTED AS NOTED ON SHEET 29.
CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

ALL EXPOSED CORNERS 90 DEGREES OR SHARPER ARE TO BE FILLETED WITH A 3/4" DRESSED AND BEVELED STRIP.

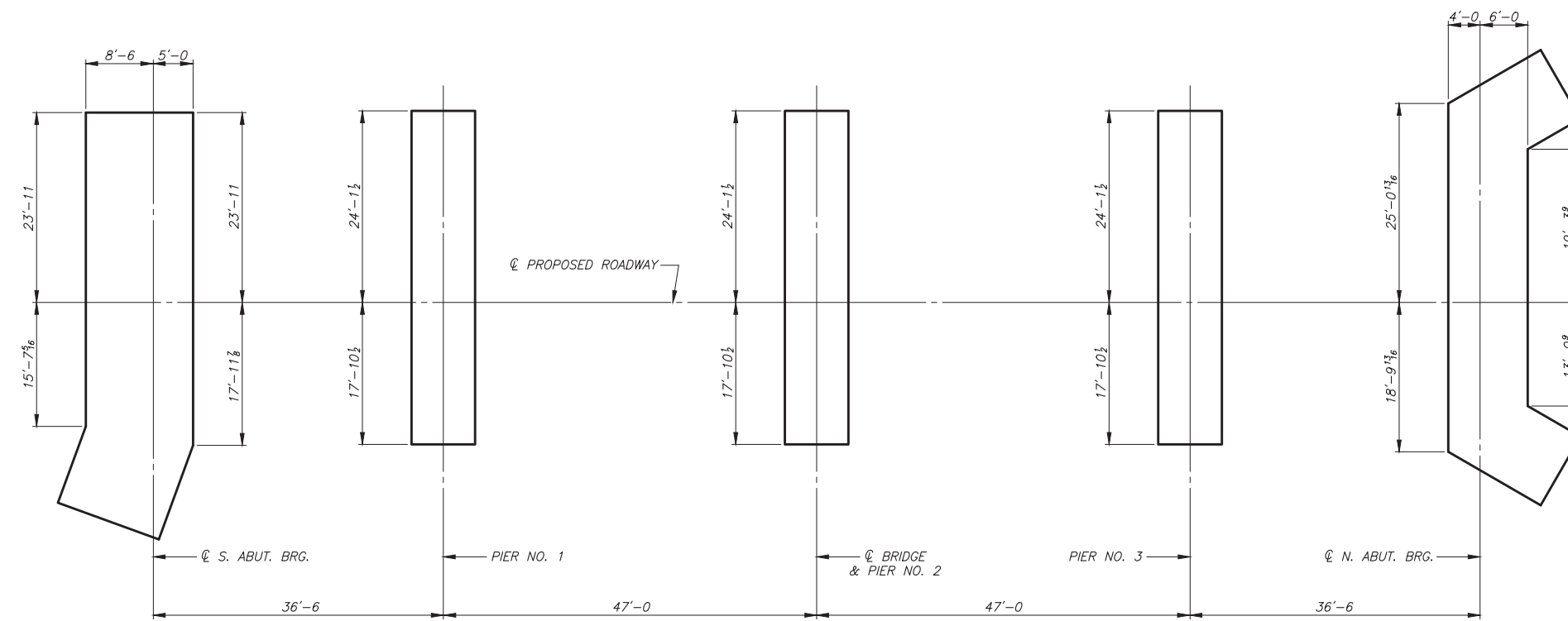
ALL REINFORCING BARS AND BARS NOTED AS DOWELS SUPPLIED FOR THIS STRUCTURE SHALL BE DEFORMED REINFORCEMENT UNLESS OTHERWISE NOTED OR SHOWN.

KEYWAY DIMENSIONS SHOWN ON THE PLANS ARE BASED ON NOMINAL DIMENSIONS UNLESS STATED OTHERWISE. IN ADDITION, THE BEVEL USED ON THE KEYWAY SHALL BE LIMITED TO A MAXIMUM OF 10 DEGREES FROM THE VERTICAL.

CONCRETE PAVING BLOCKS ARE NOT REQUIRED, HOWEVER, IF IT BECOMES NECESSARY TO PREVENT DAMAGE TO THE END OF THE BRIDGE DECK OR BACKWALL FROM CONSTRUCTION EQUIPMENT, AN APPROPRIATE METHOD OF PROTECTION APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE BRIDGE CONTRACTOR. ANY DAMAGE TO THE DECK OR BACKWALL SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE AUTHORIZED FOR THIS WORK.

CONTRACTOR'S WORK AREA

THE CONTRACTOR'S WORK AND MATERIAL STORAGE AREA SHALL BE DEFINED BY THE CONTRACTOR AND NOTED TO THE ENGINEER. THE CONTRACTOR SHALL SHAPE, FERTILIZE, AND SEED THIS CONTRACTOR'S AREA IN ORDER TO RETURN IT TO ITS ORIGINAL CONDITION. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR "SEEDING AND FERTILIZING (URBAN)" AND "MULCHING" BID ITEMS. AREAS OUTSIDE THE CONTRACTOR'S AREA DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION, AS DETERMINED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE AUTHORIZED FOR THIS WORK.



STAKING DIAGRAM

167'-0" x 28'-0" CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0" SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6" END SPANS
DIAPHRAGM PIERS 47'-0" INTERIOR SPANS

GENERAL NOTES & STAKING DIAGRAM

STATION 10+00.00
CITY OF ALDEN, IOWA
0' SKEW

POLLUTION PREVENTION PLAN

THIS PROJECT IS REGULATED BY THE REQUIREMENTS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. 2 OR AN IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) INDIVIDUAL STORM WATER PERMIT. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF THIS PERMIT AND THE POLLUTION PREVENTION PLAN (PPP).

THIS BASE PPP INCLUDES INFORMATION ON ROLES AND RESPONSIBILITIES, PROJECT SITE DESCRIPTION, CONTROLS, MAINTENANCE PROCEDURES, INSPECTION REQUIREMENTS, NON-STORM WATER CONTROLS, POTENTIAL SOURCES OF OFF RIGHT-OF-WAY POLLUTION, AND DEFINITIONS. THIS PLAN REFERENCES OTHER DOCUMENTS RATHER THAN REPEATING THE INFORMATION CONTAINED IN THE DOCUMENTS. A COPY OF THIS BASE POLLUTION PREVENTION PLAN, AMENDED AS NEEDED DURING CONSTRUCTION, WILL BE READILY AVAILABLE FOR REVIEW.

ALL CONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT CONTROLS POLLUTANTS, MINIMIZES EROSION, AND PREVENTS SEDIMENTS FROM ENTERING WATERS OF THE STATE AND LEAVING THE HIGHWAY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND IMPLEMENTATION OF THE PPP FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP.

I. ROLES AND RESPONSIBILITIES

- A. DESIGNER:
 1. PREPARES BASE PPP INCLUDED IN THE PROJECT PLAN.
- B. OWNER
 1. PREPARES NOTICE OF INTENT (NOI) SUBMITTED TO IOWA DNR.
 2. IS SIGNATURE AUTHORITY ON THE BASE PPP.
- C. CONTRACTOR:
 1. SIGNS A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP. ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
 2. DESIGNATES A WATER POLLUTION CONTROL MANAGER (WPCM), WHO HAS THE DUTIES AND RESPONSIBILITIES AS DEFINED IN SPECIFICATIONS SECTION 2602 OF THE STANDARD SPECIFICATIONS.
 3. SUBMITS AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND ECIP UPDATES ACCORDING TO SPECIFICATIONS SECTION 2602 OF THE STANDARD SPECIFICATIONS.
 4. INSTALLS AND MAINTAINS APPROPRIATE CONTROLS. THIS WORK MAY BE SUBCONTRACTED AS DOCUMENTED THROUGH SUBCONTRACTOR REQUEST FORMS (FORM 830231).
 5. SUPERVISES AND IMPLEMENTS GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.
 6. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH INSPECTION STAFF. WHEN CONTRACTOR IS NOT MOBILIZED ON SITE, CONTRACTOR MAY DELEGATE THIS RESPONSIBILITY TO A TRAINED OR CERTIFIED SUBCONTRACTOR. CONTRACTING AUTHORITY ALSO MAY WAIVE JOINT INSPECTION REQUIREMENT DURING WINTER SHUTDOWN. IN BOTH CIRCUMSTANCES, WPCM (OR TRAINED OR CERTIFIED DELEGATE FROM THE CONTRACTOR) IS STILL RESPONSIBLE TO REVIEW AND SIGN INSPECTION REPORTS.
 7. COMPLIES WITH TRAINING AND CERTIFICATION REQUIREMENTS OF SECTION 2602 OF THE STANDARD SPECIFICATIONS.
 8. SUBMITS AMENDED PPP SITE MAP ACCORDING TO SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- D. SUBCONTRACTORS:
 1. SIGN A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP IF RESPONSIBLE FOR SEDIMENT OR EROSION CONTROLS, INVOLVED IN LAND DISTURBING ACTIVITIES, OR PERFORMING WORK THAT IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP. SUBCONTRACTED WORK ITEMS ARE IDENTIFIED IN SUBCONTRACTOR REQUEST FORMS (FORM 830231). ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
 2. IMPLEMENT GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.
- E. RCE/PROJECT ENGINEER:
 1. IS PROJECT STORM WATER MANAGER.
 2. TAKES ACTIONS NECESSARY TO ENSURE COMPLIANCE WITH STORM WATER REQUIREMENTS INCLUDING, WHERE APPROPRIATE, ISSUING STOP WORK ORDERS, AND DIRECTING ADDITIONAL INSPECTIONS AT CONSTRUCTION PROJECT SITES THAT ARE EXPERIENCING PROBLEMS WITH ACHIEVING PERMIT COMPLIANCE.
 3. ORDERS THE TAKING OF MEASURES TO CEASE, CORRECT, PREVENT, OR MINIMIZE THE CONSEQUENCES OF NON-COMPLIANCE WITH THE STORM WATER REQUIREMENTS OF THE APPLICABLE PERMIT.
 4. SUPERVISES ALL WORK NECESSARY TO MEET STORM WATER REQUIREMENTS AT THE PROJECT, INCLUDING WORK PERFORMED BY CONTRACTORS AND SUBCONTRACTORS.
 5. REQUIRES EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS TO TAKE APPROPRIATE RESPONSIVE ACTION TO COMPLY WITH STORM WATER REQUIREMENTS, INCLUDING REQUIRING ANY SUCH PERSON TO CEASE OR CORRECT A VIOLATION OF STORM WATER REQUIREMENTS, AND TO ORDER OR RECOMMEND SUCH OTHER ACTIONS AS NECESSARY TO MEET STORM WATER REQUIREMENTS.
 6. IS FAMILIAR WITH THE PROJECT PPP AND STORM WATER SITE MAP.
 7. IS THE POINT OF CONTACT FOR THE PROJECT FOR REGULATORY OFFICIALS, INSPECTOR, CONTRACTORS, AND SUBCONTRACTORS REGARDING STORM WATER REQUIREMENTS.
 8. IS SIGNATURE AUTHORITY ON NOTICE OF DISCONTINUATION.
 9. MAINTAINS AN UP-TO-DATE RECORD OF CONTRACTORS, SUBCONTRACTORS, AND SUBCONTRACTED WORK ITEMS THROUGH SUBCONTRACTOR REQUEST FORMS (FORM 830231).
 10. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.
- F. INSPECTOR:
 1. UPDATES PPP THROUGH FIELDBOOK ENTRIES AND STORM WATER SITE INSPECTION REPORTS IF THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS FROM THE PROJECT.
 2. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.
 3. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH THE CONTRACTOR/SUBCONTRACTOR.
 4. COMPLETES AN INSPECTION REPORT AFTER EACH INSPECTION.
 5. IS SIGNATURE AUTHORITY ON STORM WATER INSPECTION REPORTS.

II. PROJECT SITE DESCRIPTION

- A. THIS POLLUTION PREVENTION PLAN (PPP) IS FOR THE CONSTRUCTION OF A 167'-0" X 28'-0" CONTINUOUS CONCRETE SLAB BRIDGE WITH A 5'-0" SIDEWALK ON MAIN STREET OVER THE IOWA RIVER IN THE CITY OF ALDEN, IOWA.
- B. THIS PPP COVERS APPROXIMATELY 1.5 ACRES WITH AN ESTIMATED 1.1 ACRES BEING DISTURBED. THE PORTION OF THE PPP COVERED BY THIS CONTRACT HAS 1.1 ACRES DISTURBED.
- C. THE PPP IS LOCATED IN AN AREA OF ONE SOIL ASSOCIATION(S) (CLARION-NICOLLET-WEBSTER). THE ESTIMATED WEIGHTED AVERAGE RUNOFF COEFFICIENT NUMBER FOR THIS PPP AFTER COMPLETION WILL BE 0.49.
- D. STORM WATER SITE MAP - MULTIPLE SOURCES OF INFORMATION COMPRISE THE BASE STORM WATER SITE MAP INCLUDING:
 1. DRAINAGE PATTERNS – SITUATION PLAN AND GENERAL PLAN.
 2. PROPOSED SLOPES – CROSS SECTIONS.
 3. AREAS OF SOIL DISTURBANCE – CONSTRUCTION LIMITS SHOWN ON SITUATION PLAN AND GENERAL PLAN.
 4. LOCATION OF STRUCTURAL CONTROLS – TABULATIONS.
 5. LOCATIONS OF NON-STRUCTURAL CONTROLS – TABULATIONS.
 6. LOCATIONS OF STABILIZATION PRACTICES – GENERALLY WITHIN CONSTRUCTION LIMITS SHOWN ON SITUATION PLAN AND GENERAL PLAN.

7. SURFACE WATERS (INCLUDING WETLANDS) – PROJECT LOCATION MAP, SITUATION PLAN AND GENERAL PLAN.
 8. LOCATIONS WHERE STORM WATER IS DISCHARGED – SITUATION PLAN AND GENERAL PLAN.
- E. THE BASE STORM WATER SITE MAP IS AMENDED BY CONTRACT MODIFICATIONS AND PROGRESS PAYMENTS (FIELDBOOK ENTRIES) OF COMPLETED EROSION CONTROL WORK. ALSO, DUE TO PROJECT PHASING, EROSION AND SEDIMENT CONTROLS SHOWN ON PROJECT PLANS MAY NOT BE INSTALLED UNTIL NEEDED, BASED ON SITE CONDITIONS. FOR EXAMPLE, SILT FENCE DITCH CHECKS WILL TYPICALLY NOT BE INSTALLED UNTIL THE DITCH HAS BEEN INSTALLED. INSTALLED LOCATIONS WILL BE DOCUMENTED BY FIELDBOOK ENTRIES AND AMENDED PPP SITE MAP.
 - F. RUNOFF FROM THIS WORK WILL FLOW INTO THE IOWA RIVER.

III. CONTROLS

- A. THE CONTRACTOR'S ECIP SPECIFIED IN ARTICLE 2602.03 OF THE STANDARD SPECIFICATIONS FOR ACCOMPLISHMENT OF STORM WATER CONTROLS SHOULD CLEARLY DESCRIBE THE INTENDED SEQUENCE OF MAJOR ACTIVITIES AND FOR EACH ACTIVITY DEFINE THE CONTROL MEASURE AND THE TIMING DURING THE CONSTRUCTION PROCESS THAT THE MEASURE WILL BE IMPLEMENTED.
- B. PRESERVE VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION.
- C. SECTIONS 2601 AND 2602 OF THE STANDARD SPECIFICATIONS DEFINE REQUIREMENTS TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES. ACTUAL QUANTITIES USED AND INSTALLED LOCATIONS MAY VARY FROM THE BASE PPP AND AMENDMENT OF THE PLAN WILL BE DOCUMENTED VIA FIELDBOOK ENTRIES, AMENDED PPP SITE MAP, OR BY CONTRACT MODIFICATION. ADDITIONAL EROSION AND SEDIMENT CONTROL ITEMS MAY BE REQUIRED AS DETERMINED BY THE INSPECTOR AND/OR CONTRACTOR DURING STORM WATER SITE INSPECTIONS. IF THE WORK INVOLVED IS NOT APPLICABLE TO ANY CONTRACT ITEMS, THE WORK WILL BE PAID FOR ACCORDING TO ARTICLE 1109.03 PARAGRAPH B OF THE STANDARD SPECIFICATIONS.
 1. EROSION AND SEDIMENT CONTROLS
 - a. STABILIZATION PRACTICES
 - 1) SITE PLANS WILL ENSURE THAT EXISTING VEGETATION OR NATURAL BUFFERS ARE PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED.
 - 2) INITIALIZE STABILIZATION OF DISTURBED AREAS IMMEDIATELY AFTER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE:
 - a) PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR
 - b) TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - 3) STAGED PERMANENT AND/OR TEMPORARY STABILIZING SEEDING AND MULCHING SHALL BE COMPLETED AS THE DISTURBED AREAS ARE COMPLETED. INCOMPLETE AREAS SHALL BE STABILIZED ACCORDING TO PARAGRAPH III, C, 1, a, 2, b ABOVE.
 - 4) PERMANENT AND TEMPORARY STABILIZATION PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION LOCATED IN THE PLANS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION.
 - 5) PRESERVATION OF EXISTING VEGETATION WITHIN RIGHT-OF-WAY OR EASEMENTS WILL ACT AS VEGETATIVE BUFFER STRIPS.
 - 6) PRESERVATION OF TOPSOIL: BID ITEMS TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION LOCATED IN THE PLANS. ADDITIONAL INFORMATION MAY BE FOUND IN TABULATIONS OF THE PLANS OR IS REFERENCED IN STANDARD SECTION 2105 OF THE STANDARD SPECIFICATIONS.
 - b. STRUCTURAL PRACTICES
 - 1) STRUCTURAL PRACTICES WILL BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS AND DETAIN OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ADDITIONALLY, STRUCTURAL PRACTICES MAY INCLUDE: SILT BASINS THAT PROVIDE 3600 CUBIC FEET OF STORAGE PER ACRE DRAINED OR EQUIVALENT SEDIMENT CONTROLS, OUTLET STRUCTURES THAT WITHDRAW WATER FROM SURFACE WHEN DISCHARGING BASINS, AND CONTROLS TO DIRECT STORM WATER TO VEGETATED AREAS.
 - 2) STRUCTURAL PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE DEVICES TO BE USED ON THIS PROJECT CAN BE FOUND IN THE PLANS OR ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION.
 - c. STORM WATER MANAGEMENT
 - 1) MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THIS MAY INCLUDE VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS AND ALONG LENGTH OF OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSION VELOCITY FLOW FROM STRUCTURE TO WATER COURSE. IF INCLUDED WITH THIS PROJECT, THESE ITEMS ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.
 2. OTHER CONTROLS
 - a. CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. IN THE EVENT OF A CONFLICT WITH OTHER GOVERNMENTAL LAWS, RULES AND REGULATIONS, THE MORE RESTRICTIVE APPLICABLE LAWS, RULES OR REGULATIONS SHALL APPLY.
 - 1) VEHICLE ENTRANCES AND EXITS - CONSTRUCT AND MAINTAIN ENTRANCES AND EXITS TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.
 - 2) MATERIAL DELIVERY, STORAGE AND USE - IMPLEMENT PRACTICES TO PREVENT DISCHARGE OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE.
 - 3) STOCKPILE MANAGEMENT - INSTALL CONTROLS TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING.
 - 4) WASTE DISPOSAL - DO NOT DISCHARGE ANY MATERIALS, INCLUDING BUILDING MATERIALS, INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
 - 5) SPILL PREVENTION AND CONTROL - IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES TO CONTAIN AND CLEAN-UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM AND WATERS OF THE STATE.
 - 6) CONCRETE RESIDUALS AND WASHOUT WASTES - WASTE SHALL NOT BE DISCHARGED TO A SURFACE WATER AND IS NOT ALLOWED TO ADVERSELY AFFECT A WATER OF THE STATE. DESIGNATE TEMPORARY CONCRETE WASHOUT FACILITIES FOR RINSING OUT CONCRETE TRUCKS. PROVIDE DIRECTIONS TO TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED. DESIGNATED WASHOUT AREAS SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM STORM DRAINS, STREAMS OR OTHER WATER BODIES. CARE SHOULD BE TAKEN TO ENSURE THESE FACILITIES DO NOT OVERFLOW DURING STORM EVENTS.
 - 7) CONCRETE GROOVING/GRINDING SLURRY – DO NOT DISCHARGE SLURRY TO A WATERBODY OR STORM DRAIN. SLURRY MAY BE APPLIED ON FORESLOPES OR REMOVED FROM THE PROJECT.
 - 8) VEHICLE AND EQUIPMENT STORAGE AND MAINTENANCE AREAS - PERFORM ON SITE FUELING AND MAINTENANCE IN ACCORDANCE WITH ALL ENVIRONMENT LAWS SUCH AS PROPER STORAGE OF ONSITE FUELS AND PROPER DISPOSAL OF USED ENGINE OIL OR OTHER FLUIDS ON SITE. EMPLOY WASHING PRACTICES THAT PREVENT CONTAMINATION OF SURFACE AND GROUND WATER FROM WASH WATER. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
 - 9) LITTER MANAGEMENT - ENSURE EMPLOYEES PROPERLY DISPOSE OF LITTER. MINIMIZE EXPOSURE OF TRASH IF EXPOSURE TO PRECIPITATION OR STORM WATER WOULD RESULT IN A DISCHARGE OF POLLUTANTS.

- 10) DEWATERING – PROPERLY TREAT WATER TO REMOVE SUSPENDED SEDIMENT BEFORE IT RE-ENTERS A WATERBODY OR DISCHARGES OFF-SITE. MEASURES ARE ALSO TO BE TAKEN TO PREVENT SCOUR EROSION AT DEWATERING DISCHARGE POINT.
3. APPROVED STATE OR LOCAL PLANS DURING THE COURSE OF THIS CONSTRUCTION, IT IS POSSIBLE THAT SITUATIONS WILL ARISE WHERE UNKNOWN MATERIALS WILL BE ENCOUNTERED. WHEN SUCH SITUATIONS ARE ENCOUNTERED, THEY WILL BE HANDLED ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS IN EFFECT AT THE TIME.

IV. MAINTENANCE PROCEDURES

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING, OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. THIS SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY.

V. INSPECTION REQUIREMENTS

- A. INSPECTIONS SHALL BE MADE JOINTLY BY THE CONTRACTOR AND THE CONTRACTING AUTHORITY AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. STORM WATER SITE INSPECTIONS WILL INCLUDE:
 1. DATE OF THE INSPECTION.
 2. SUMMARY OF THE SCOPE OF THE INSPECTION.
 3. NAME AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION.
 4. REVIEW OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN DISTURBED AREAS FOR THE EFFECTIVENESS IN PREVENTING IMPACTS TO RECEIVING WATERS.
 5. MAJOR OBSERVATIONS RELATED TO THE IMPLEMENTATION OF THE PPP.
 6. IDENTIFICATION OF CORRECTIVE ACTIONS REQUIRED TO MAINTAIN OR MODIFY EROSION AND SEDIMENT CONTROL MEASURES.
- B. INCLUDE STORM WATER SITE INSPECTION REPORTS IN THE AMENDED PPP. INCORPORATE ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DETERMINED AS A RESULT OF THE INSPECTION. IMMEDIATELY BEGIN CORRECTIVE ACTIONS ON ALL DEFICIENCIES FOUND WITHIN 3 CALENDAR DAYS OF THE INSPECTION AND COMPLETE WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF IT IS DETERMINED THAT MAKING THE CORRECTIONS LESS THAN 72 HOURS AFTER THE INSPECTION IS IMPRACTICABLE, IT SHOULD BE DOCUMENTED WHY IT IS IMPRACTICABLE AND INDICATE AN ESTIMATED DATE BY WHICH THE CORRECTIONS WILL BE MADE.

VI. NON-STORM WATER DISCHARGES

THIS INCLUDES SUBSURFACE DRAINS (I.E. LONGITUDINAL AND STANDARD SUBDRAINS) AND SLOPE DRAINS. THE VELOCITY OF THE DISCHARGE FROM THESE FEATURES MAY BE CONTROLLED BY THE USE OF HEADWALLS OR BLOCKS, CLASS A STONE, EROSION STONE OR OTHER APPROPRIATE MATERIALS. THIS ALSO INCLUDES UNCONTAMINATED GROUNDWATER FROM DEWATERING OPERATIONS, WHICH WILL BE CONTROLLED AS DISCUSSED IN SECTION III OF THE PPP.

- VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION SILTS, SEDIMENT, AND OTHER FORMS OF POLLUTION MAY BE TRANSPORTED ONTO HIGHWAY RIGHT-OF-WAY (ROW) AS A RESULT OF A STORM EVENT. POTENTIAL SOURCES OF POLLUTION LOCATED OUTSIDE HIGHWAY ROW ARE BEYOND THE CONTROL OF THIS PPP. POLLUTION WITHIN HIGHWAY ROW WILL BE CONVEYED AND CONTROLLED PER THIS PPP.

VIII. DEFINITIONS

- A. BASE PPP - INITIAL POLLUTION PREVENTION PLAN.
- B. AMENDED PPP - BASE PPP AMENDED DURING CONSTRUCTION. MAY INCLUDE PLAN REVISIONS OR CONTRACT MODIFICATIONS FOR NEW ITEMS, STORM WATER SITE INSPECTION REPORTS, FIELDBOOK ENTRIES MADE BY THE INSPECTOR, AMENDED PPP SITE MAP BY THE CONTRACTOR, ECIP, NOI, CO-PERMITTEE CERTIFICATIONS, AND SUBCONTRACTOR REQUEST FORMS. ITEMS AMENDING THE PPP ARE STORED ELECTRONICALLY AND ARE READILY AVAILABLE UPON REQUEST.
- C. FIELDBOOK ENTRIES - THIS CONTAINS THE INSPECTOR'S DAILY DIARY AND BID ITEM POSTINGS.
- D. CONTROLS - METHODS, PRACTICES, OR MEASURES TO MINIMIZE OR PREVENT EROSION, CONTROL SEDIMENTATION, CONTROL STORM WATER, OR MINIMIZE CONTAMINANTS FROM OTHER TYPES OF WASTE OR MATERIALS. ALSO CALLED BEST MANAGEMENT PRACTICES (BMPs).
- E. SIGNATURE AUTHORITY - REPRESENTATIVE AUTHORIZED TO SIGN VARIOUS STORM WATER DOCUMENTS.

CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE

PRINTED OR TYPED NAME

POLLUTION PREVENTION PLAN

CITY OF ALDEN,

IOWA

BORING LOG NO. 3 STATION 9+01 12' RT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1112.2' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/7/2020 Drilling Depth, ft.: 14.1	Drilling Method: 4" CFA Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation
1110	0							HOT MIX ASPHALT (5"±) PCC PAVEMENT (6"±)		SC	0.4	1111.8
								Dark brown clayey sand with limestone pieces, damp to moist FILL				1111.3
	5	1	SSA	13	11.7			Dark brown sandy lean clay, moist COHESIVE ALLUVIUM		CL	5.5	1106.7
		4	SSA	50/2"	5.5			Light brown weathered limestone, damp Less weathered after 7.5'			7	1105.2
	10	2	SSA	50/1"				BEDROCK				
	15	3	SSA	50/0.5"				End of Boring			14.1	1098.1
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												Time: at completion _____ hrs. _____ days Depth to water: Dry _____ ft. _____ ft. _____ ft.
ALLENDER BUTZKE ENGINEERS, INC. Geotechnical - Environmental - Construction Q.C.												

BORING LOG NO. 4 STATION 9+02 11' LT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1112.1' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/10/2020 Drilling Depth, ft.: 29	Drilling Method: 4" CFA & NX Core Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation
1110	0							HOT MIX ASPHALT (2"±) PCC PAVEMENT (6"±)		SC	0.2	1111.9
		1	SSA	11	8.4			Dark brown clayey sand with limestone pieces, damp FILL				1111.4
	5	2	SSA	5	14.5			Dark brown sandy lean clay, moist COHESIVE ALLUVIUM		CL	5	1107.1
		3	SSA	55	16.6			Light brown weathered limestone, damp Less weathered after 8'			6.8	1105.3
	10	4	SSA	50/2"	5.2			End of Boring				
	15		C1	NX				C1 - Recovery 97%, RQD 0%				
	20		C2	NX		1.5 1.6	156 156	9.9 7.7				
	25					0.5	158	10.5				
	30		C3	NX				C3 - Recovery 100%, RQD 82%			29	
								End of Boring				1083.1
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												Time: at completion _____ hrs. _____ days Depth to water: Dry _____ ft. _____ ft. _____ ft.
ALLENDER BUTZKE ENGINEERS, INC. Geotechnical - Environmental - Construction Q.C.												

BORING LOG NO. 8 STATION 9+31 34' LT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1096.5' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/9/2020 Drilling Depth, ft.: 8.5	Drilling Method: 4" CFA Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation
1095	0							Gray fine to coarse sand with gravel and limestone pieces, saturated GRANULAR ALLUVIUM		SW		
		1	SSA	50/0.5"				Light brown limestone, damp				3.8
	5	2	SSA	50/0.2"				BEDROCK				1092.7
	10	3	SSA	50/0.5"				End of Boring				8.5
	15											1088
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												Time: at completion _____ hrs. _____ days Depth to water: 0 _____ ft. _____ ft. _____ ft.
ALLENDER BUTZKE ENGINEERS, INC. Geotechnical - Environmental - Construction Q.C.												

SOUNDING DATA

(SEE "GENERAL PLAN", SHEET 5, FOR BORING LOCATIONS)

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	DATE: _____ DAVID LOGEMANN, P.E. MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021. PAGES OR SHEETS COVERED BY THIS SEAL: _____ SHEETS 8-10 OF 61

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS

DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

SOUNDING DATA

STATION 10+00.00
 CITY OF ALDEN,

0° SKEW
 IOWA

BORING LOG NO. 6 STATION 9+51 19' LT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1096.1' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/8/2020 Drilling Depth, ft.: 16	Drilling Method: 4" CFA & NX Core Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation ft.
1095	0							Gray medium to coarse sand with gravel and limestone pieces, saturated GRANULAR ALLUVIUM		SW	2	1094.1
	1	SSA	50/2"					Light brown weathered limestone, damp Less weathered after 4.1'				
1090	5	C1	NX		1.6	150	5.5	C1 - Recovery 97%, RQD 33%				
					0.4	154	7.7					
1085	10	C2	NX		0.4	149	8.2	BEDROCK				
								C2 - Recovery 100%, RQD 84%				
1080	15	C3	NX					C3 - Recovery 100%, RQD 95%			16	1080.1
								End of Boring				
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												Time: at completion _____ hrs. _____ days
Depth to water: 0.5 ft. ▽ _____ ft. ▽ _____ ft. ▽												ALLENDER BUTZKE ENGINEERS, INC. Geotechnical - Environmental - Construction Q.C.

BORING LOG NO. 7 STATION 10+05 6' RT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1112.4' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/9/2020 Drilling Depth, ft.: 30.5	Drilling Method: NX Core Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation ft.
1110	0							PCC BRIDGE DECK (30 1/2"±)			2.54	1109.86
1105	5							AIR TO RIVER BED				
1095	15							Gray medium to coarse sand with gravel and limestone pieces, saturated GRANULAR ALLUVIUM		SW	18	1094.4
								Light gray limestone, damp Less fractured after 22.5'				20.5
1090	20				1.0	157	9.9					1091.9
					3.8	148	6.4					
1085	25	C1	NX					BEDROCK				
								C1 - Recovery 100%, RQD 54%				
1080	30							End of Boring			30.5	1081.9
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												Time: at completion _____ hrs. _____ days
Depth to water: 16.7 ft. ▽ _____ ft. ▽ _____ ft. ▽												ALLENDER BUTZKE ENGINEERS, INC. Geotechnical - Environmental - Construction Q.C.

BORING LOG NO. 5 STATION 10+47 21' LT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1097.5' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/8/2020 Drilling Depth, ft.: 14.5	Drilling Method: 4" CFA & NX Core Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation ft.
1095	0							Gray clayey sand, trace gravel, damp to moist GRANULAR ALLUVIUM		SC	1.5	1096
	1	C1	NX	50/0.2"				Light brown weathered limestone, damp Less weathered after 2.5' C1 - Recovery 100%, RQD 46%				
1090	5	C2	NX		4.1	148	8.0					
					1.8	153	9.1					
1085	10	C3	NX		2.6	153	8.8	BEDROCK				
								C2 - Recovery 98%, RQD 54%				
								C3 - Recovery 100%, RQD 73%				
1080	15							End of Boring			14.5	1083
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												Time: at completion _____ hrs. _____ days
Depth to water: 1 ft. ▽ _____ ft. ▽ _____ ft. ▽												ALLENDER BUTZKE ENGINEERS, INC. Geotechnical - Environmental - Construction Q.C.

SOUNDING DATA
 (SEE "GENERAL PLAN", SHEET 5, FOR BORING LOCATIONS)

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK
 HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS
 DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

SOUNDING DATA
 STATION 10+00.00
 CITY OF ALDEN,
 IOWA

BORING LOG NO. 2 STATION 10+80 10' LT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1112.2' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/7/2020 Drilling Depth, ft.: 19.1	Drilling Method: 4" CFA Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation ft.
1110	0							HOT MIX ASPHALT (5"±) CRUSHED ROCK WITH FINES (7"±) Dark brown clayey sand with limestone pieces, damp to moist		SC	1111.8	0.4
	1	1	SSA	27	16.6			FILL Brown and dark brown after 5.5'			1111.2	
1105	5										8	
	10	2	SSA	12	21.0			Dark brown sandy lean clay with gravel, moist COHESIVE ALLUVIUM		CL	1104.2	
1100	10										12.5	
	15	3	SSA	150	8.8			Light brown weathered limestone, damp Gray and less weathered after 14'			1099.7	
	15	5	SSA	50/2"	7.3			BEDROCK				
1095	15										19.1	
	20	4	SSA	50/1"				End of Boring			1093.1	
1090	20											
1085	25											
1080	30											
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												
Time: at completion _____ hrs. _____ days												
Depth to water: Dry ft. _____ ft. _____ ft. _____ ft.												
ALLENDER BUTZKE ENGINEERS, INC.												
Geotechnical - Environmental - Construction Q.C.												

BORING LOG NO. 1 STATION 10+81 9' RT		CBA Job No.: 2018210	Project No.: 201224									
Project: Main Street Bridge Over The Iowa River Section 18, Alden Township Hardin County, Iowa		Client: Calhoun-Burns & Associates, Inc. 1500 30th Street West Des Moines, Iowa 50266										
Surface Elevation: 1112.1' Datum: CL @ Existing N. Abut. = 1112.39'		Date Drilled: 12/7/2020 Drilling Depth, ft.: 22.1	Drilling Method: 4" CFA Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength ksi	Material Description*	Graphic Log	USCS	Water Level Depth	Elevation ft.
1110	0							HOT MIX ASPHALT (4"±) CRUSHED ROCK WITH FINES (11"±) Dark brown clayey sand with limestone pieces, damp to moist		SC	1111.8	0.3
	1	1	SSA	11	8.2						1110.8	
1105	5							FILL				
	10	2	SSA	14	8.4							
1100	10										13.5	
	15	6	SSA	63	8.7			Light brown weathered limestone, damp Less weathered after 14'			1098.6	
	15	3	SSA	50/0.7"								
1095	15							BEDROCK				
	20	4	SSA	50/1"	3.5							
1090	20										22.1	
	25	5	SSA	50/1"	8.8							
1085	25											
1080	30							End of Boring			1090	
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.												
Water Level Observation												
Time: at completion _____ hrs. _____ days												
Depth to water: Dry ft. _____ ft. _____ ft. _____ ft.												
ALLENDER BUTZKE ENGINEERS, INC.												
Geotechnical - Environmental - Construction Q.C.												

SOUNDING DATA

(SEE "GENERAL PLAN", SHEET 5, FOR BORING LOCATIONS)

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS

DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

SOUNDING DATA

STATION 10+00.00
 CITY OF ALDEN,

0° SKEW
 IOWA



REMOVAL AND SALVAGE DETAIL '1'



REMOVAL AND SALVAGE DETAIL '2'

REMOVAL AND SALVAGE NOTES

THE EXISTING BRIDGE IS CONSIDERED HISTORIC AND EXISTING DISTINCT FEATURES ARE REQUIRED TO BE SALVAGED FROM THE BRIDGE PRIOR TO DEMOLITION PER A MEMORANDUM OF AGREEMENT. THE EXISTING DISTINCT FEATURES INCLUDE THE RAILING, CONCRETE END POSTS AND THE LIGHT POLES. SEE PHOTOGRAPHS AND NOTES ON THIS SHEET FOR FURTHER INFORMATION. THE DISTINCT FEATURES SHALL BE CAREFULLY REMOVED FROM THE BRIDGE IN A MANNER WHICH PREVENTS DAMAGE TO SAID FEATURES. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE CAUSED AND SHALL REPAIR ANY DAMAGED AREA TO ITS ORIGINAL CONDITION, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THE REMOVED FEATURES SHALL BE SALVAGED TO THE CITY OF ALDEN. THE CITY OF ALDEN CONTACT SHALL BE MARK OLIVER, WHO CAN BE REACHED AT PHONE NUMBER: 515-859-3344.

THE COST OF REMOVAL AND SALVAGING OF THESE DISTINCT FEATURES SHALL BE INCLUDED IN THE PRICE BID FOR "REMOVAL OF EXISTING BRIDGE".

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

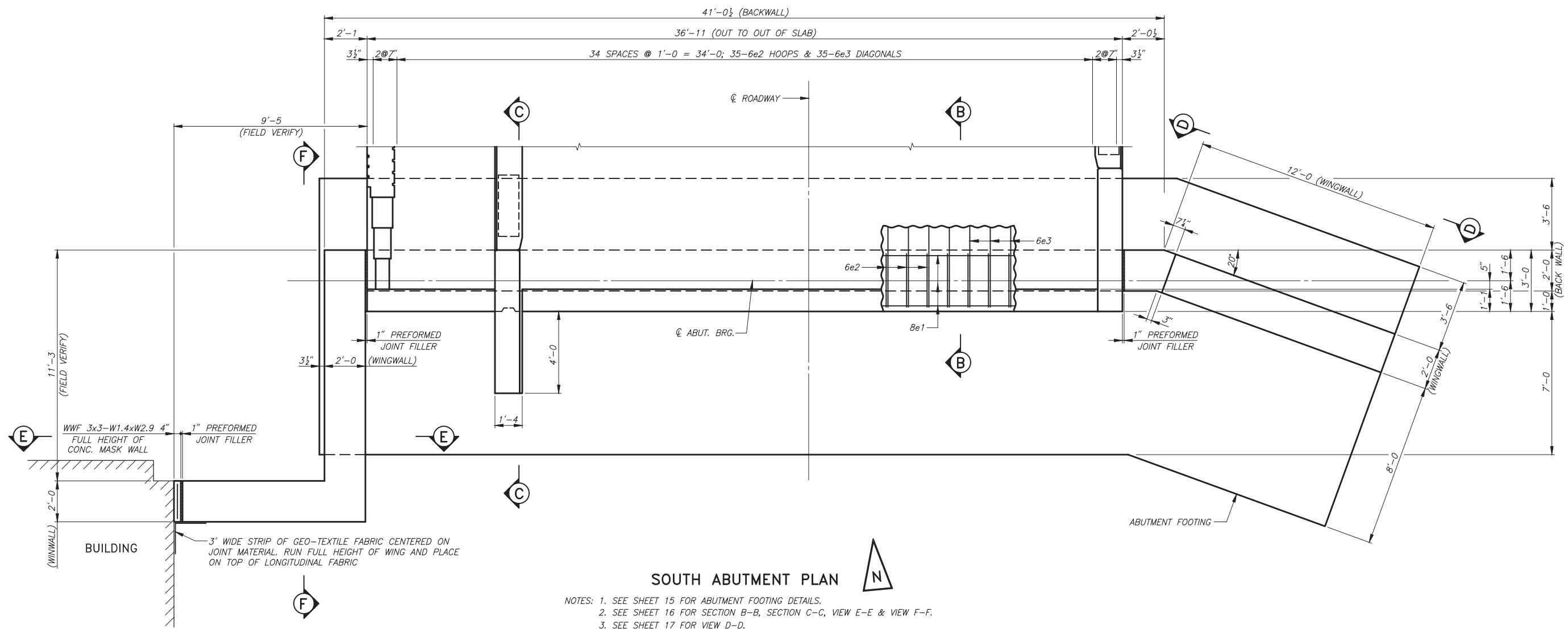
HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS

DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

REMOVAL DETAILS

STATION 10+00.00
 CITY OF ALDEN,

0° SKEW
 IOWA



SOUTH ABUTMENT PLAN



- NOTES: 1. SEE SHEET 15 FOR ABUTMENT FOOTING DETAILS.
 2. SEE SHEET 16 FOR SECTION B-B, SECTION C-C, VIEW E-E & VIEW F-F.
 3. SEE SHEET 17 FOR VIEW D-D.

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

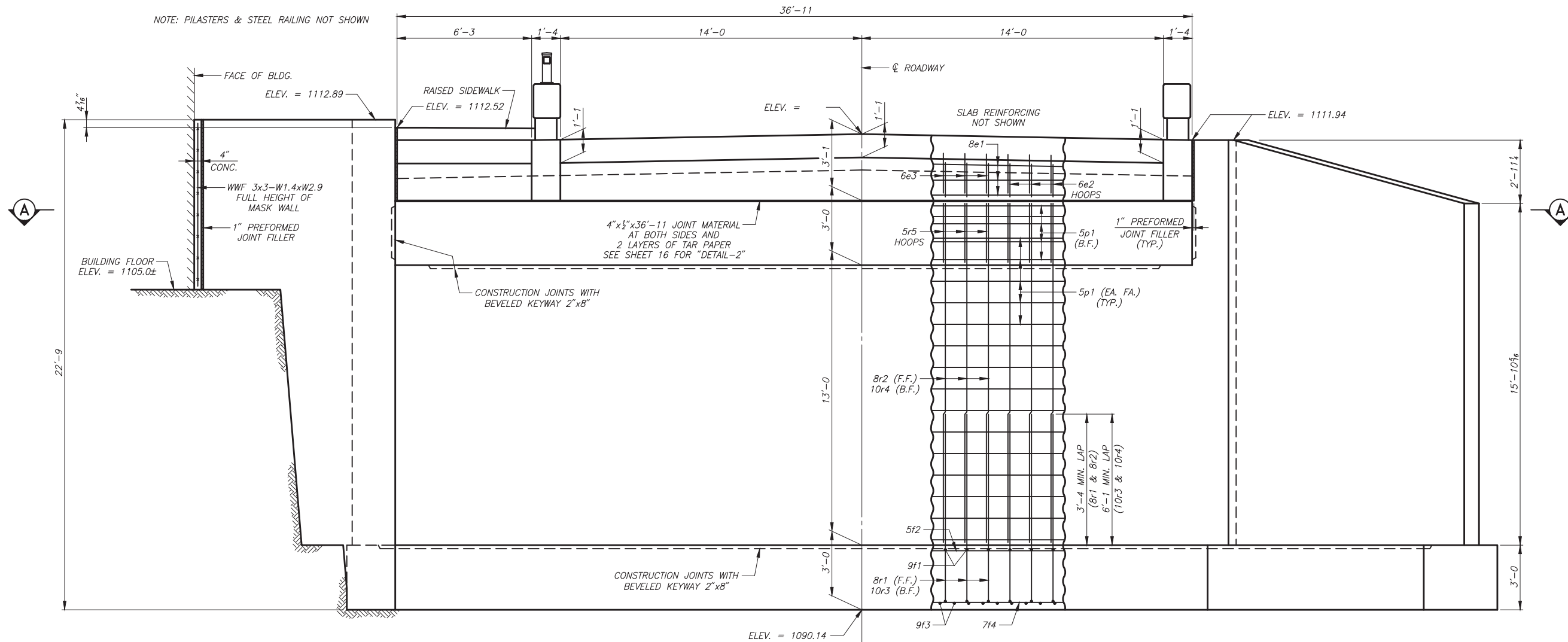
HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS

DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

SOUTH ABUTMENT DETAILS

STATION 10+00.00
 CITY OF ALDEN,

0° SKEW
 IOWA



SOUTH ABUTMENT REAR ELEVATION

(LOOKING NORTH)

NOTE: 1. SEE SHEET 14 FOR SECTION A-A.

2. WEEP HOLES NOT SHOWN. SEE SHEETS 22 & 24 FOR MORE INFORMATION.

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

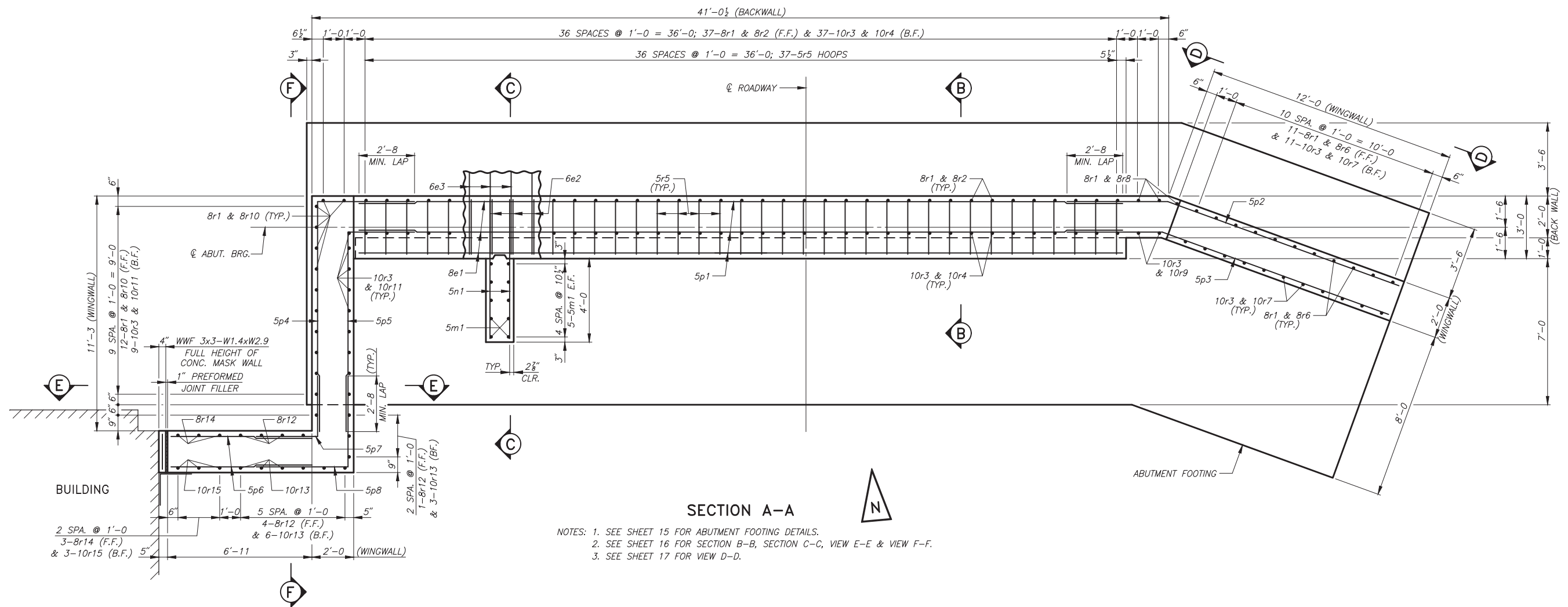
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

SOUTH ABUTMENT DETAILS

STATION 10+00.00
CITY OF ALDEN,

0° SKEW
IOWA



SECTION A-A

- NOTES: 1. SEE SHEET 15 FOR ABUTMENT FOOTING DETAILS.
 2. SEE SHEET 16 FOR SECTION B-B, SECTION C-C, VIEW E-E & VIEW F-F.
 3. SEE SHEET 17 FOR VIEW D-D.

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

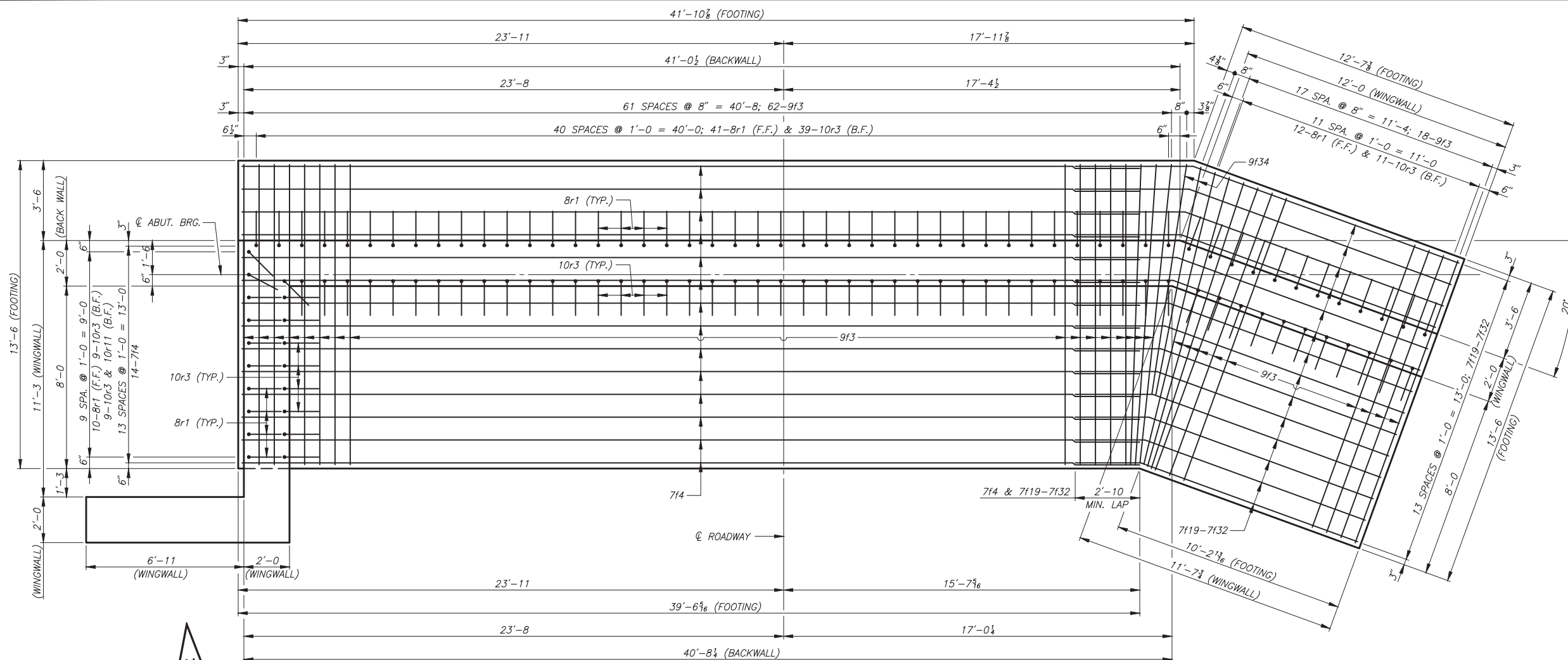
HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS

DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

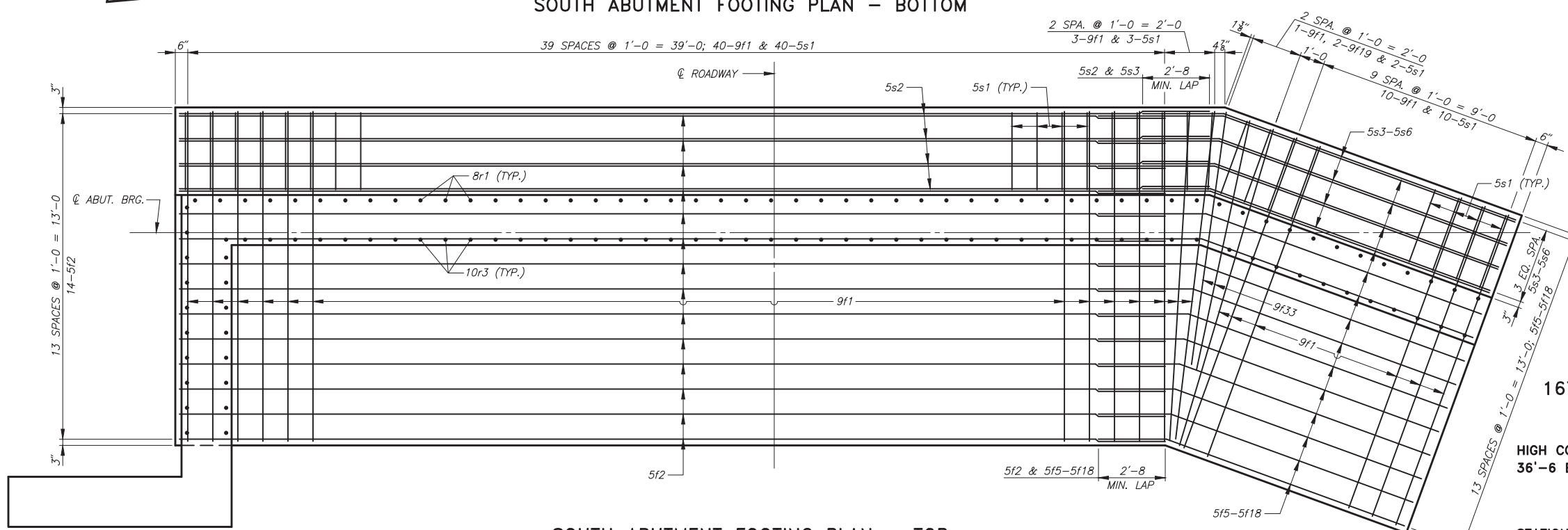
SOUTH ABUTMENT DETAILS

STATION 10+00.00
 CITY OF ALDEN,

0° SKEW
 IOWA



SOUTH ABUTMENT FOOTING PLAN - BOTTOM



SOUTH ABUTMENT FOOTING PLAN - TOP

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

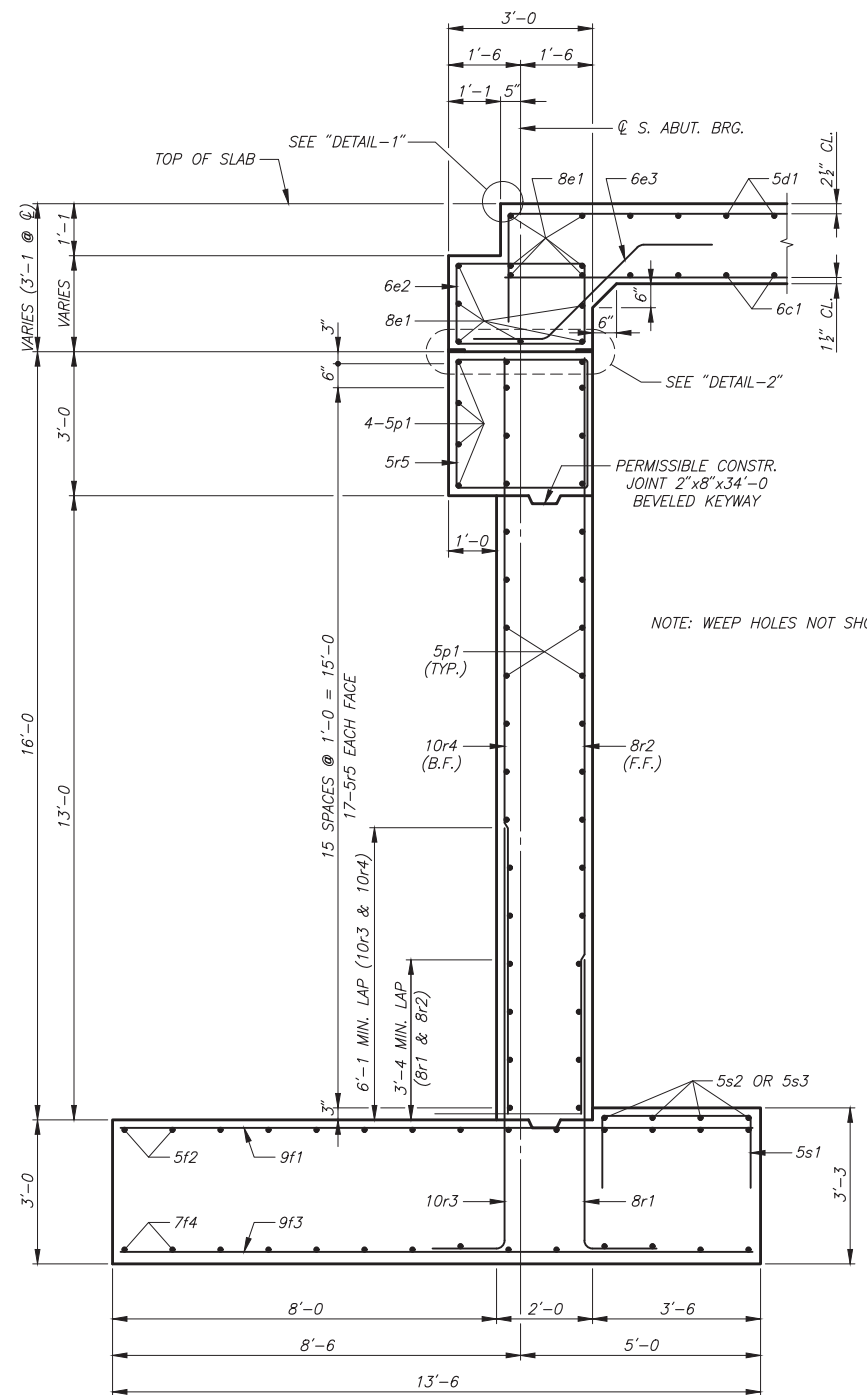
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

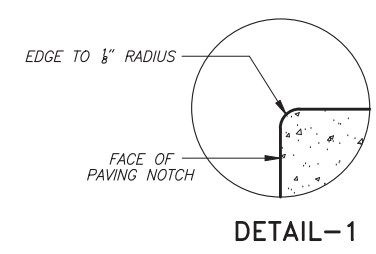
SOUTH ABUTMENT DETAILS

STATION 10+00.00
CITY OF ALDEN,

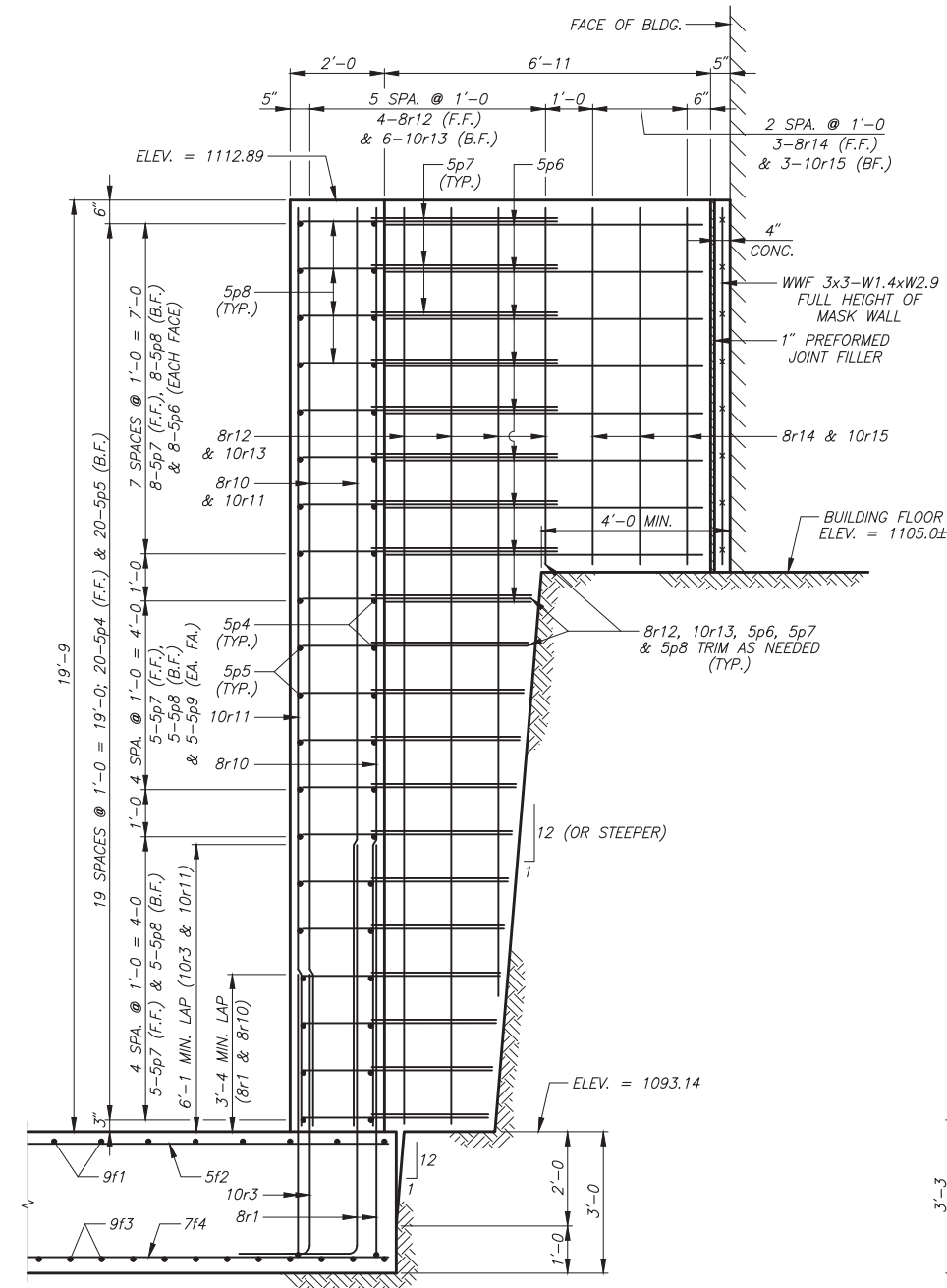
0° SKEW
IOWA



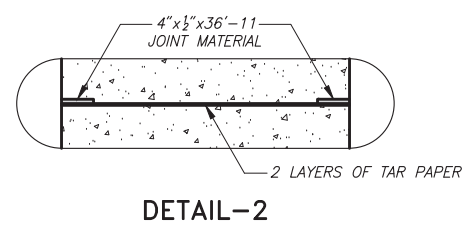
SECTION B-B



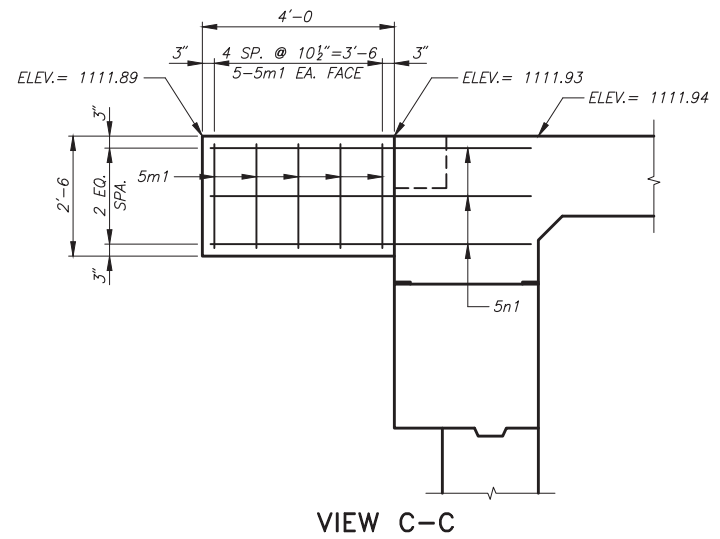
DETAIL-1



VIEW E-E

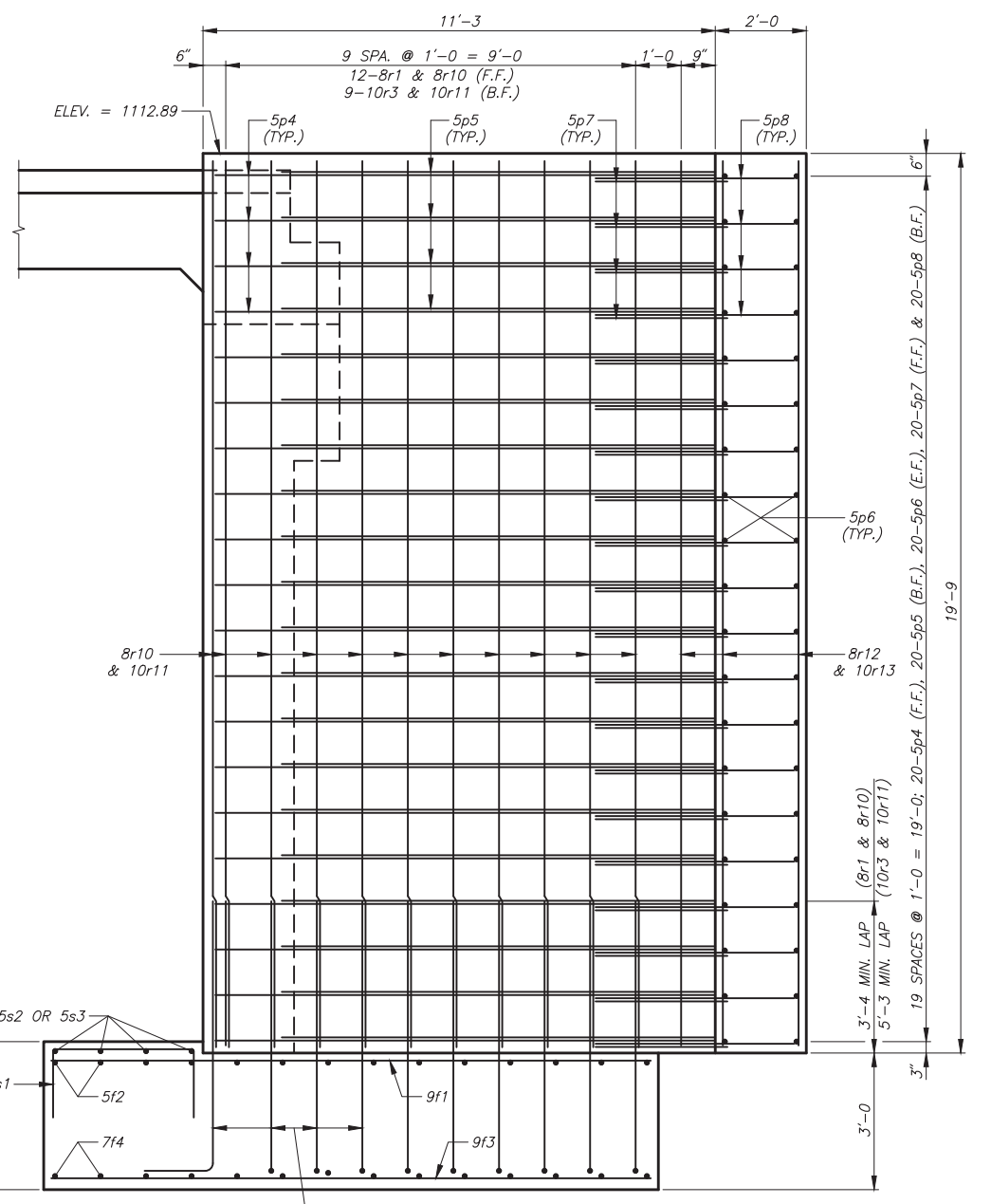


DETAIL-2



VIEW C-C

NOTE: ELEVATIONS AND DIMENSIONS SHOWN ARE AT OUTSIDE FACE.



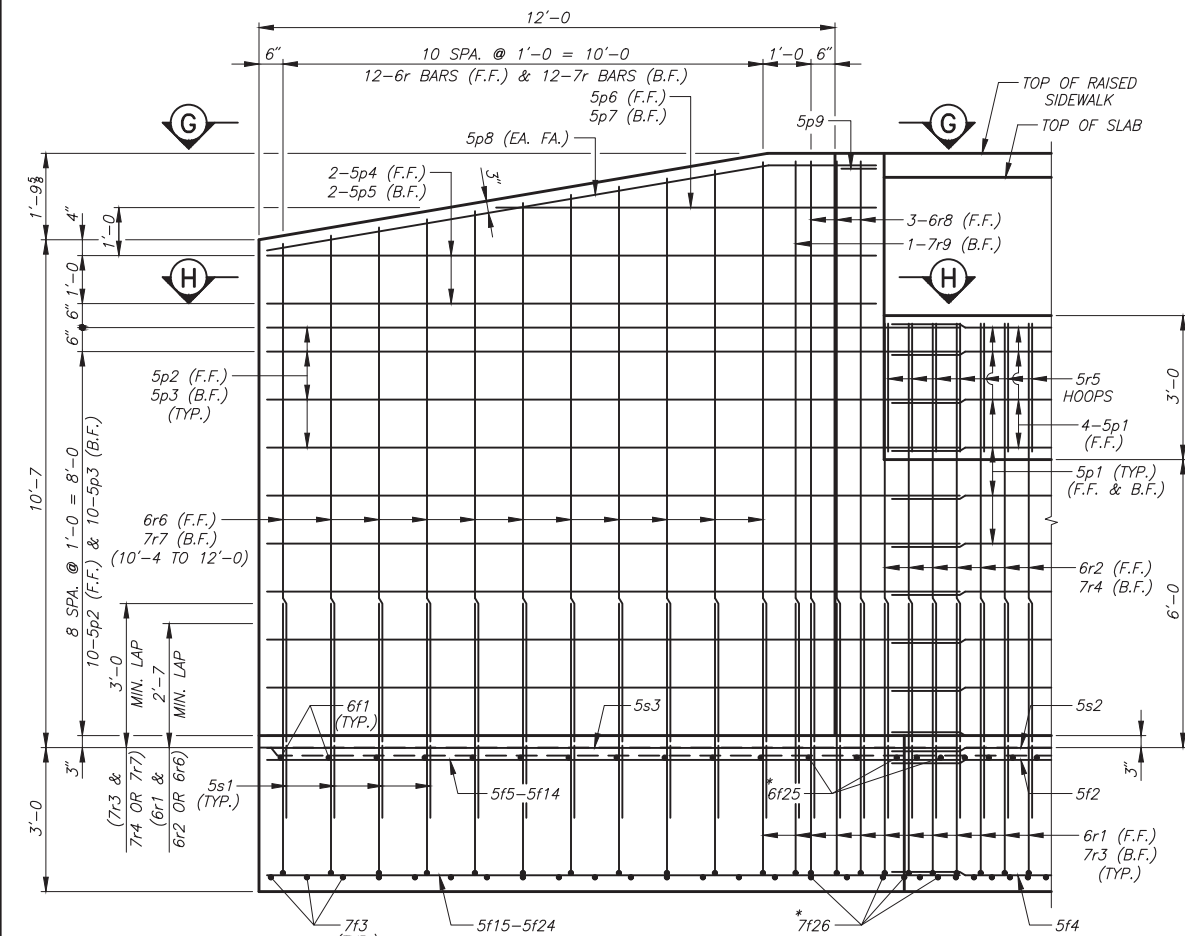
VIEW F-F

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

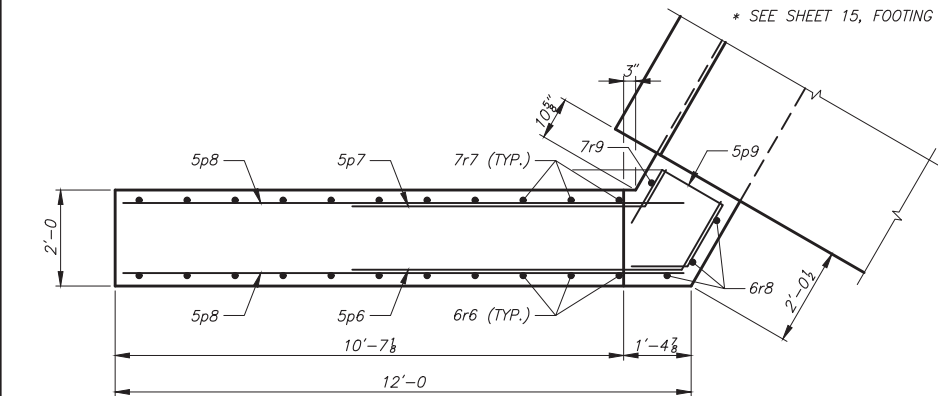
SOUTH ABUTMENT DETAILS

STATION 10+00.00 CITY OF ALDEN, IOWA
 0° SKEW IOWA

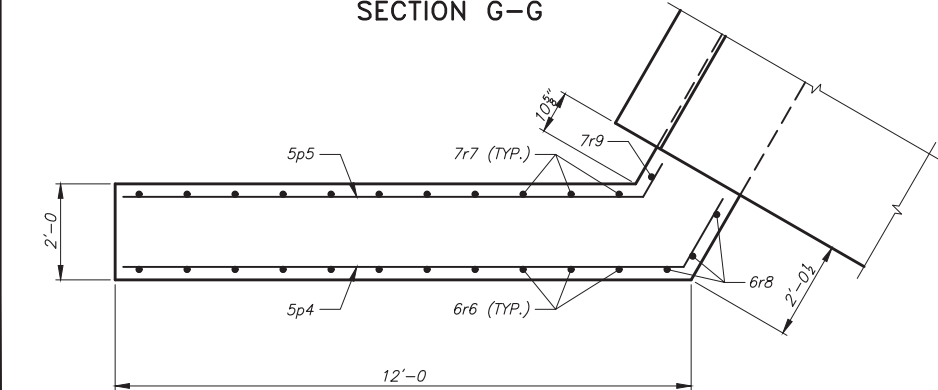


VIEW D-D (SOUTHEAST WINGWALL)

* SEE SHEET 15, FOOTING PLAN, FOR 6I25 & 7I26 SPACINGS.



SECTION G-G



SECTION H-H

REINFORCING BAR LIST - SOUTH ABUTMENT

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
9f1	FOOTING, TOP, TRANSVERSE	—	52	13'-2	2,328
5f2	FOOTING, TOP, LONGITUDINAL	—	14	39'-4	574
9f3	FOOTING, BOTTOM, TRANSVERSE	—	80	13'-2	3,581
7f4	FOOTING, BOTTOM, LONGITUDINAL	—	14	39'-4	1,126
5f5-18	FOOTING, TOP, LONGITUDINAL	—	14	SHOWN	3,088
5f19-32	FOOTING, BOT., LONGITUDINAL	—	14	SHOWN	3,122
9f33	FOOTING, TOP, CORNER, TRANSVERSE	—	2	10'-2	69
9f34	FOOTING, BOT., CORNER, LONGITUDINAL	—	2	10'-2	69
5m1	WING, VERTICAL	—	10	2'-2	23
5n1	WING, HORIZONTAL	—	6	6'-8	42
5p1	BACKWALL, HORIZONTAL	—	38	36'-7	1,450
5p2	WINGWALL, HORIZONTAL, F.F.	—	34	14'-7	517
5p3	WINGWALL, HORIZONTAL, B.F.	—	34	14'-1	499
5p4	WINGWALL, HORIZONTAL, F.F.	—	4	11'-3	47
5p5	WINGWALL, HORIZONTAL, B.F.	—	4	9'-7	40
5p6	WINGWALL, TOP	—	2	10'-9	22
5p7	WINGWALL, TOP	—	2	5'-3	11
8r1	FOOTING TO BACKWALL/WINGWALL, F.F.	—	53	7'-7	1,073
8r2	BACKWALL/WINGWALL, VERTICAL, F.F.	—	53	15'-8	2,217
10r3	FOOTING TO BACKWALL/WINGWALL, B.F.	—	50	10'-4	2,223
10r4	BACKWALL/WINGWALL, VERTICAL, B.F.	—	50	15'-8	3,371
5r5	BACKWALL CAP, HOOPS	—	37	11'-8	450
8r6	WINGWALL, VERTICAL, F.F.	—	12	VARIES	201
10r7	WINGWALL, VERTICAL, B.F.	—	12	VARIES	274
8r8	WINGWALL, CORNER, VERTICAL, F.F.	—	6	12'-0	108
10r9	WINGWALL, CORNER, VERTICAL, B.F.	—	2	12'-0	49
8r10	WINGWALL, VERTICAL, F.F.	—	12	19'-5	622
10r11	WINGWALL, VERTICAL, B.F.	—	9	19'-5	752
8r12	WINGWALL, CORNER, VERTICAL, F.F.	—	5	19'-5	259
10r13	WINGWALL, CORNER, VERTICAL, B.F.	—	9	19'-5	752
8r14	WINGWALL, CORNER, VERTICAL, B.F.	—	3	7'-6	60
10r15	WINGWALL, CORNER, VERTICAL, B.F.	—	3	7'-6	97
5s1	FOOTING, TOE, STIRRUPS	—	53	6'-1	336
5s2	FOOTING, TOE, LONGITUDINAL	—	4	41'-10	175
5s3	FOOTING, TOE, LONGITUDINAL	—	1	14'-7	15
5s4	FOOTING, TOE, LONGITUDINAL	—	1	14'-11	16
5s5	FOOTING, TOE, LONGITUDINAL	—	1	15'-3	16
5s6	FOOTING, TOE, LONGITUDINAL	—	1	15'-7	16
TOTAL (LBS.)					29,690

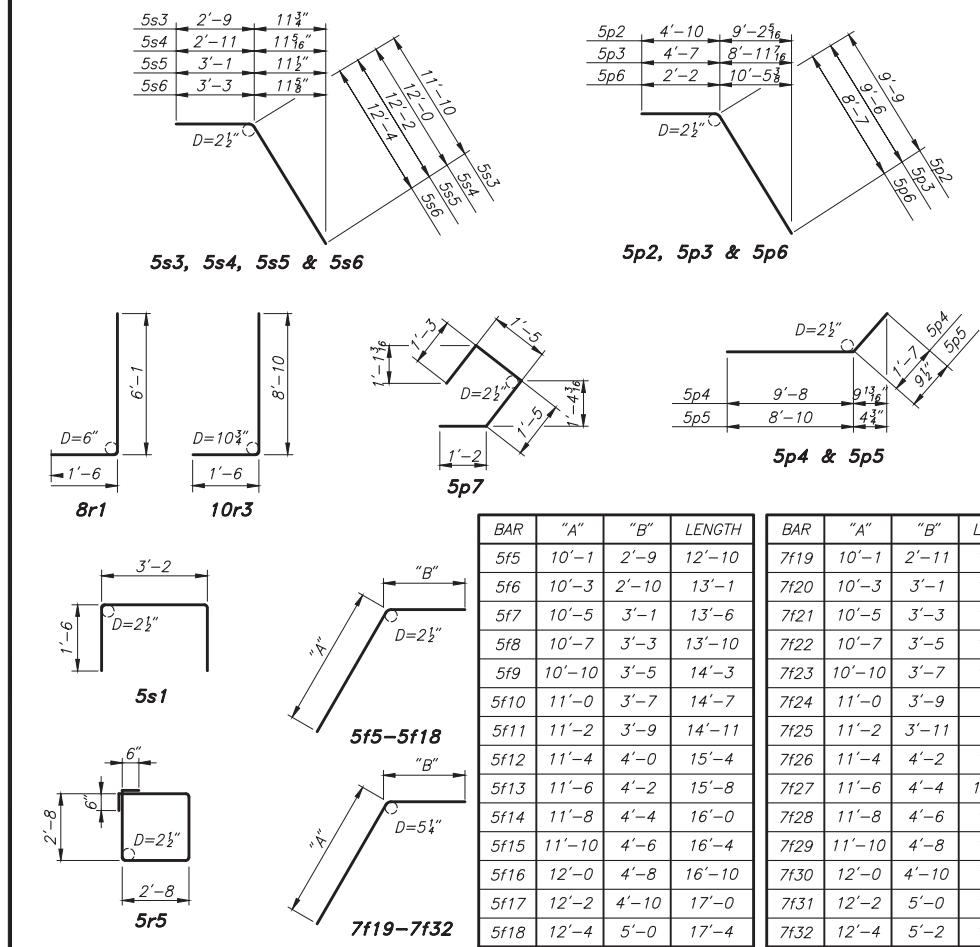
CONCRETE PLACEMENT QUANT.- SOUTH ABUT.

LOCATION	UNIT	QUANTITY
FOOTING	CU.YDS.	80.0
BACKWALL	CU.YDS.	90.6
TOTAL	CU.YDS.	170.6

ESTIMATED QUANTITIES - SOUTH ABUTMENT

ITEM	UNIT	QUANTITY
STRUCTURAL CONCRETE (BRIDGE)	CU.YDS.	170.6
REINFORCING STEEL	LBS.	29,690
EXCAVATION, CLASS 20	CU.YDS.	300
EXCAVATION, CLASS 21	CU.YDS.	25
EXCAVATION, CLASS 22	CU.YDS.	250

BENT BAR DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

SOUTH ABUTMENT NOTES

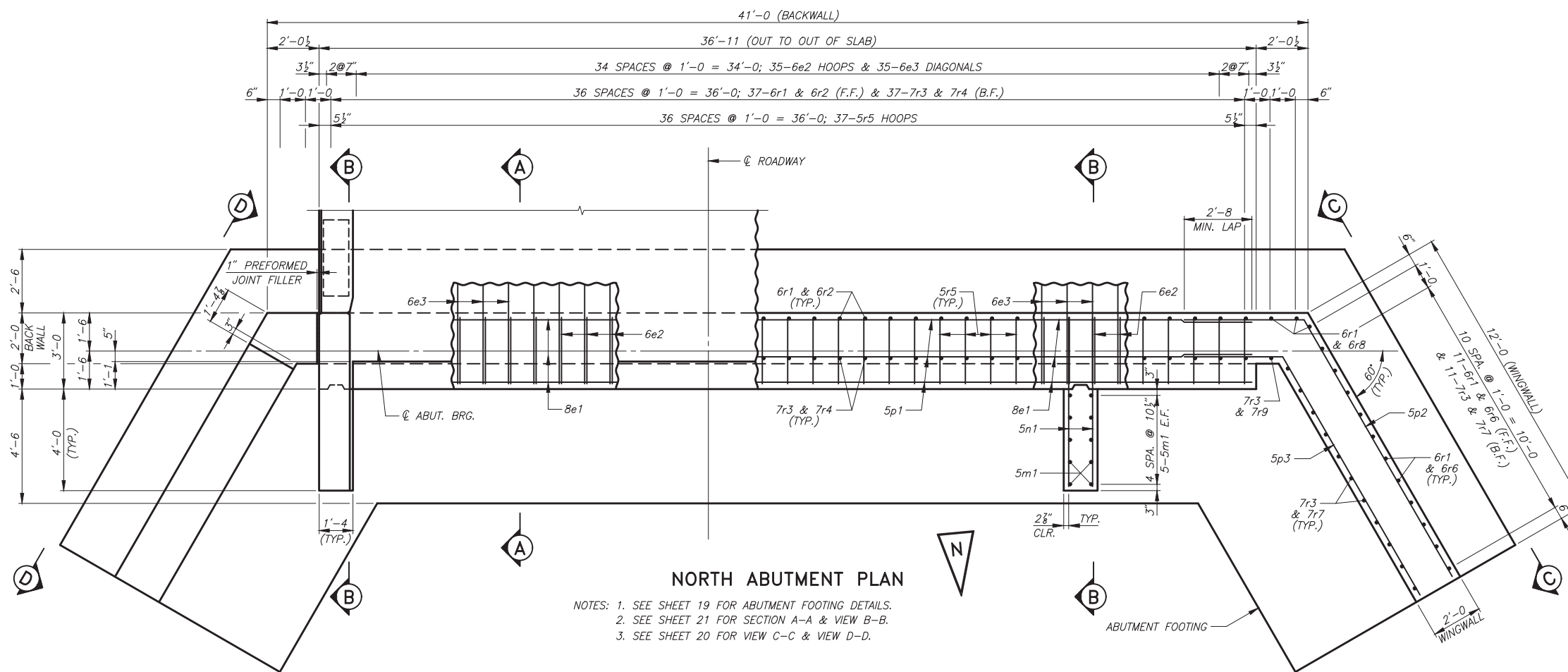
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN. ALL REINFORCING STEEL TO BE SECURELY WIRED IN PLACE AND ADEQUATELY SUPPORTED BEFORE CONCRETE IS POURED. ALL REINFORCING STEEL IS TO BE GRADE 60. ALL WELDED WIRE FABRIC SHALL BE ASTM A185 AND GALVANIZED AS PER ASTM A-641. THE COST OF SUPPLYING AND INSTALLING WELDED WIRE FABRIC SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR "STRUCTURAL CONCRETE (BRIDGE)". ALL EXPOSED CORNERS 90° OR SHARPER ARE TO BE FILLETED WITH A 3/8" DRESSED AND BEVELED STRIP. CONSTRUCTION JOINT KEYWAYS ARE TO BE FORMED WITH BEVELED 2 x 8'S. THE FOOTING SHALL BE FOUNDED IN SOLID LIMESTONE BEDROCK AS DETAILED IN THE PLANS. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 24 KIPS PER SQUARE FOOT (ALLOWABLE SERVICE LOAD BEARING VALUE OF AT LEAST 8 KIPS PER SQUARE FOOT). THE FOOTING IS DESIGNED TO MINIMIZE UPLIFT. EXCAVATION FOR THE ABUTMENT FOOTING AND PLACEMENT OF ABUTMENT FOOTING CONCRETE ARE TO BE PERFORMED IN AS DRY OF CONDITIONS AS PRACTICABLE, USING COFFERDAMS, PUMPS, OR OTHER SUITABLE MEASURES TO ASSURE SUCH CONDITIONS IN ACCORDANCE WITH SECTION 2405 AND SUPPLEMENTAL SPECIFICATIONS. THE COST OF ALL ABUTMENT EXCAVATION AND DEWATERING IS TO BE INCLUDED IN THE LUMP SUM BID FOR "EXCAVATION, CLASS 22". THE NEW ABUTMENT FOOTING SHALL BE KEYED A MINIMUM OF 1'-0" INTO SOUND BEDROCK. THE FINAL 1'-0" OF BEDROCK EXCAVATION IS TO BE NEAT LINES AS SHOWN IN THE PLANS. THE CONTRACTOR AND ENGINEER ARE TO VERIFY THAT THE BEDROCK IS LOCATED AS SHOWN ON THE SOUNDING DATA DETAILED ON THE PLANS. DIFFERENCES WHICH CAUSE CHANGES IN BOTTOM OF FOOTING ELEVATIONS MAY BE CAUSE FOR DESIGN CHANGES. THE ENGINEER WILL RETAIN A QUALIFIED GEOTECHNICAL ENGINEER FOR REVIEW. AFTER EXCAVATING TO WITHIN 6" OF THE DESIGN FOOTING ELEVATION, AT LEAST TWO (2) PROBE HOLES ARE TO BE DRILLED BY THE CONTRACTOR INTO ROCK AT THE BASE OF THE FOOTING EXCAVATION UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE PROBE HOLES SHOULD EXTEND AT LEAST 3'-6" INTO THE ROCK. IF LAYERS UNABLE TO WITHSTAND THE DESIGN BEARING ARE ENCOUNTERED WITHIN THE PROBE LIMITS, THE FOOTING MAY NEED TO BE LOWERED TO SUITABLE BEDROCK. THE PROBE HOLES SHALL BE GROUTED BY THE CONTRACTOR AFTER THE GEOTECHNICAL ENGINEER HAS COMPLETED VERIFICATION OF THE BEARING CAPACITY. COST OF DRILLING THE PROBE HOLES AND GROUTING, INCLUDING EQUIPMENT AND ALL LABOR IS TO BE INCLUDED IN PRICE BID FOR "EXCAVATION, CLASS 22".

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

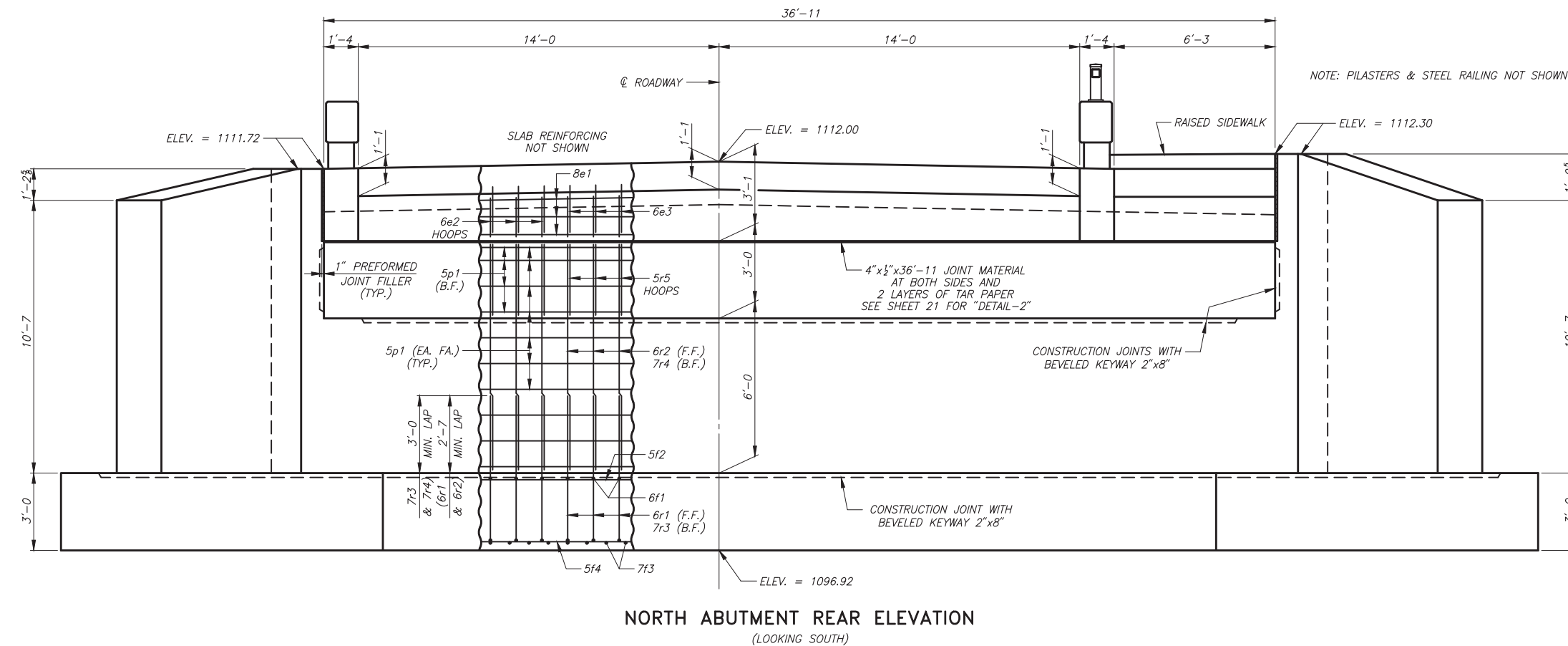
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SOUTH ABUTMENT DETAILS

STATION 10+00.00 CITY OF ALDEN, IOWA 0° SKEW



NOTES: 1. SEE SHEET 19 FOR ABUTMENT FOOTING DETAILS.
 2. SEE SHEET 21 FOR SECTION A-A & VIEW B-B.
 3. SEE SHEET 20 FOR VIEW C-C & VIEW D-D.



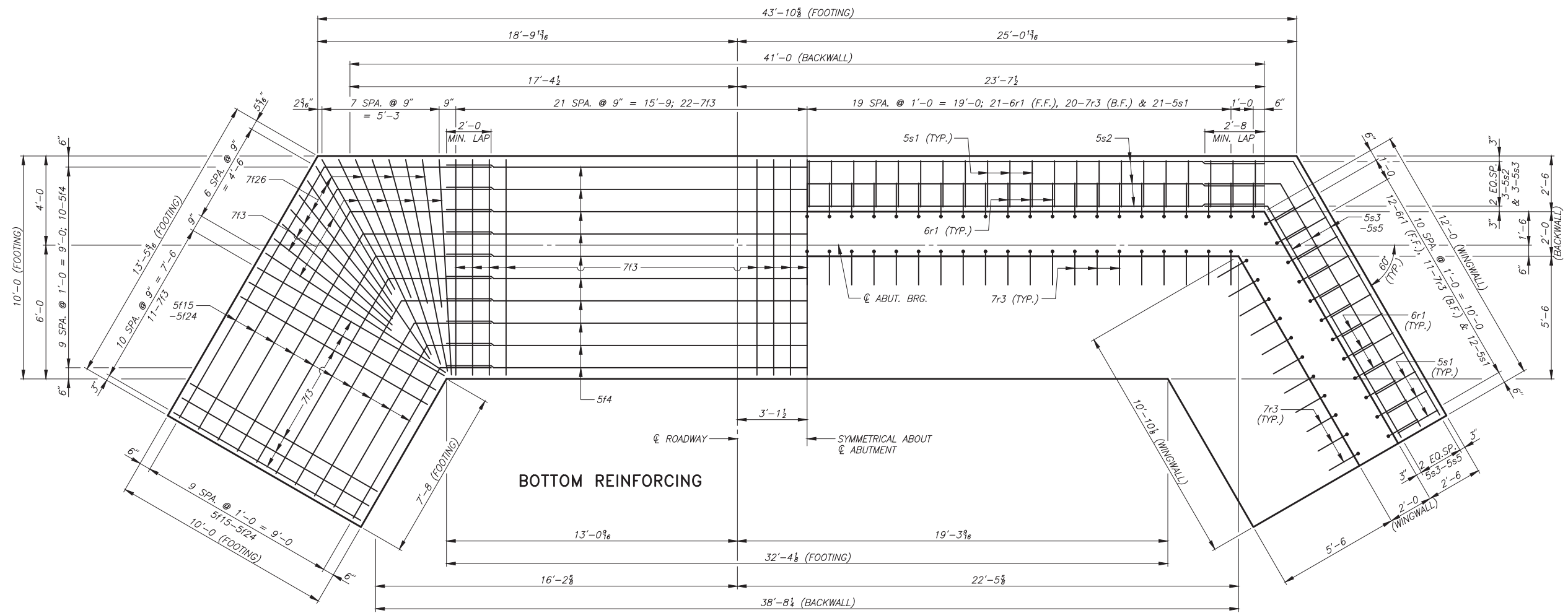
NORTH ABUTMENT REAR ELEVATION
 (LOOKING SOUTH)

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

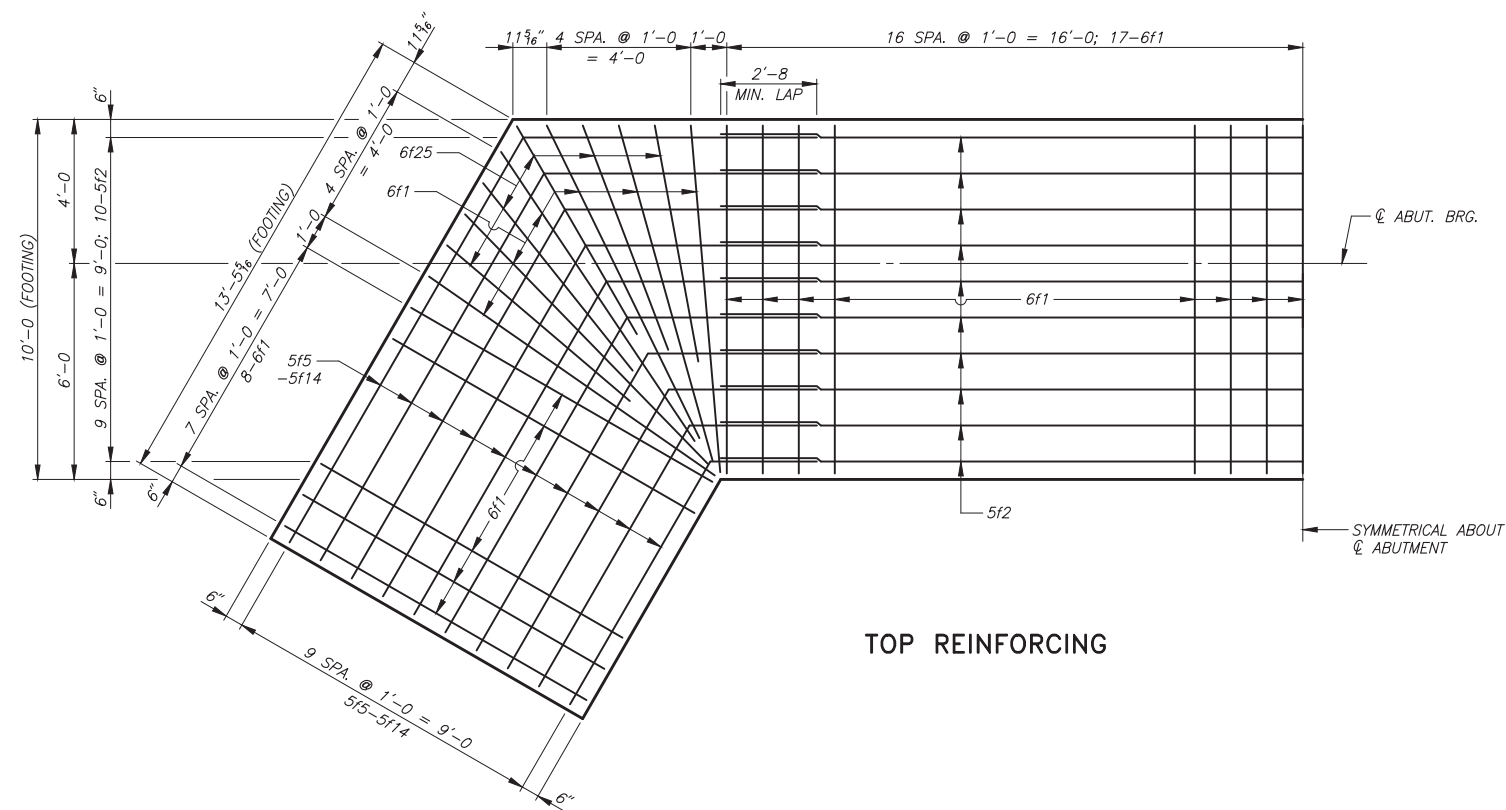
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

NORTH ABUTMENT DETAILS

STATION 10+00.00
 CITY OF ALDEN, IOWA
 0° SKEW



NORTH ABUTMENT FOOTING PLAN



TOP REINFORCING

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

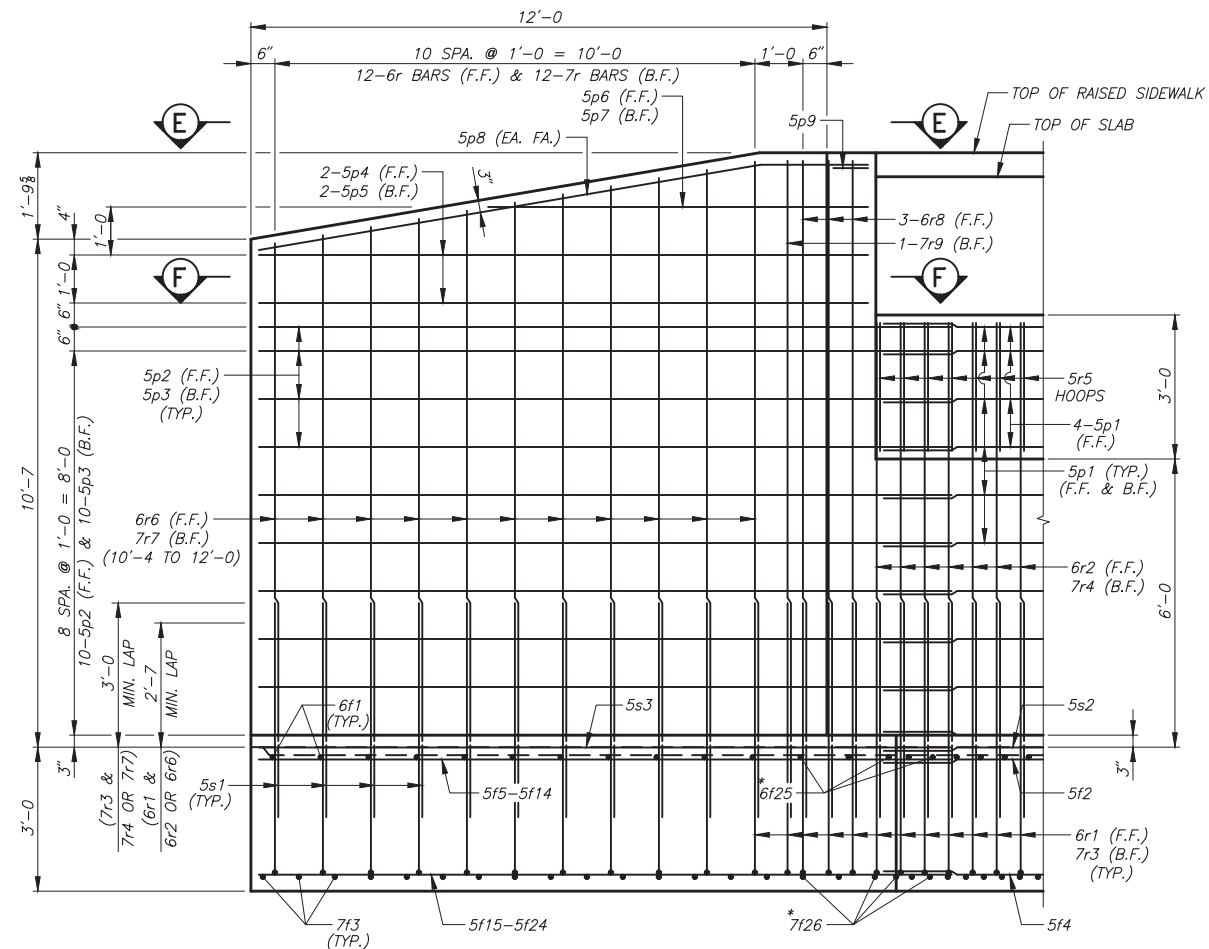
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

NORTH ABUTMENT DETAILS

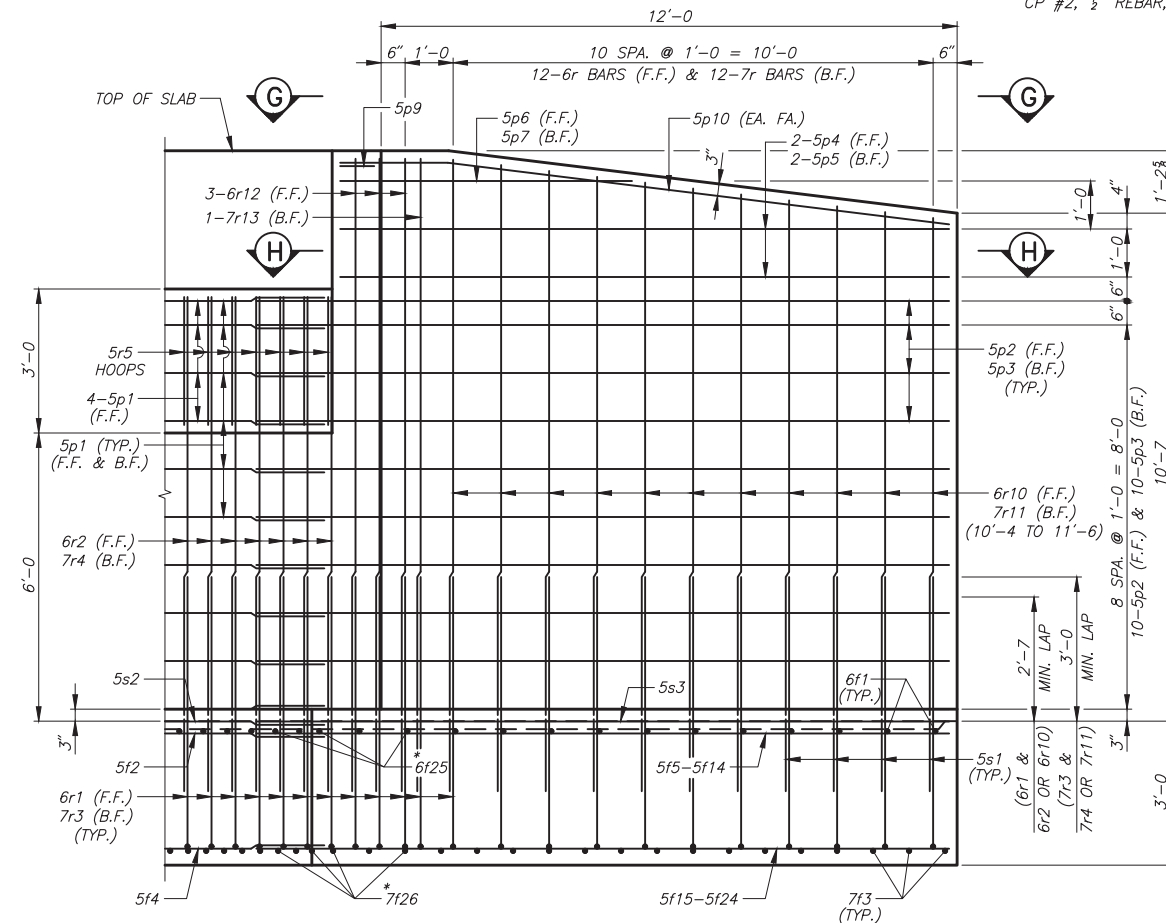
STATION 10+00.00
CITY OF ALDEN,

0° SKEW
IOWA

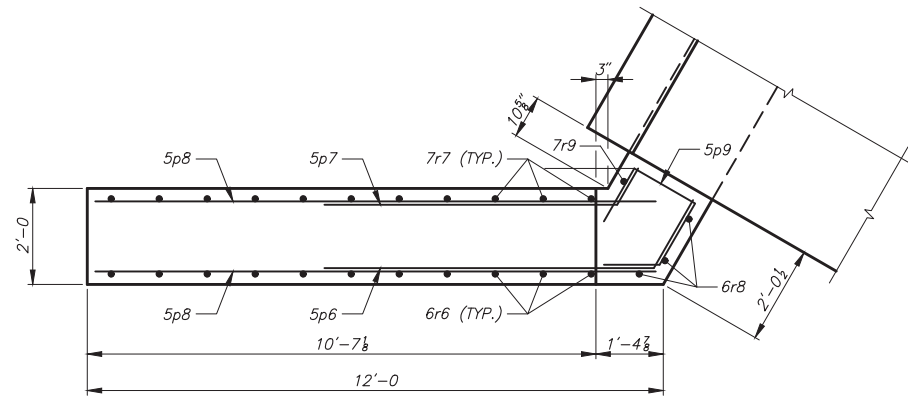


VIEW C-C (NORTHWEST WINGWALL)

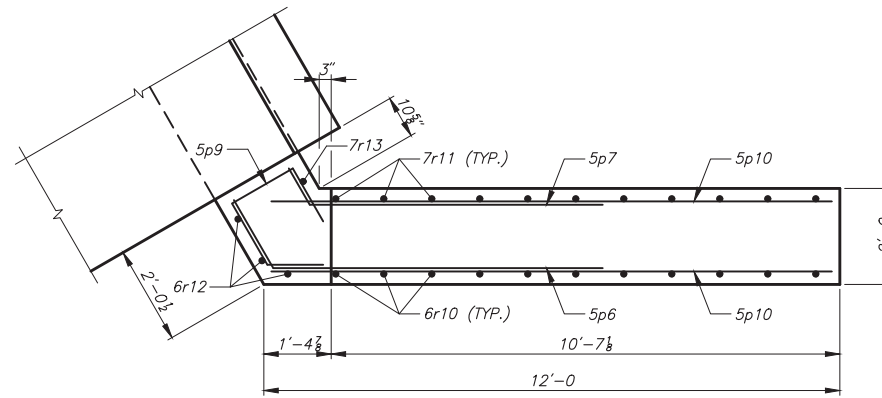
* SEE SHEET 19, FOOTING PLAN, FOR 6f25 & 7f26 SPACINGS.



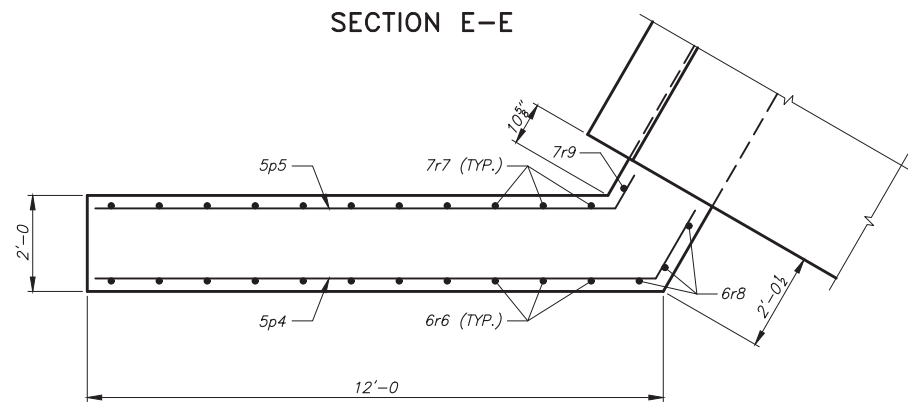
VIEW D-D (NORTHEAST WINGWALL)



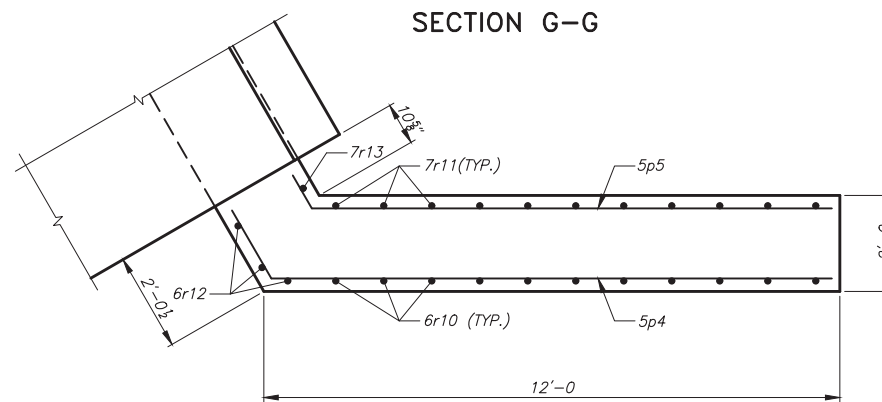
SECTION E-E



SECTION G-G



SECTION F-F



SECTION H-H

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

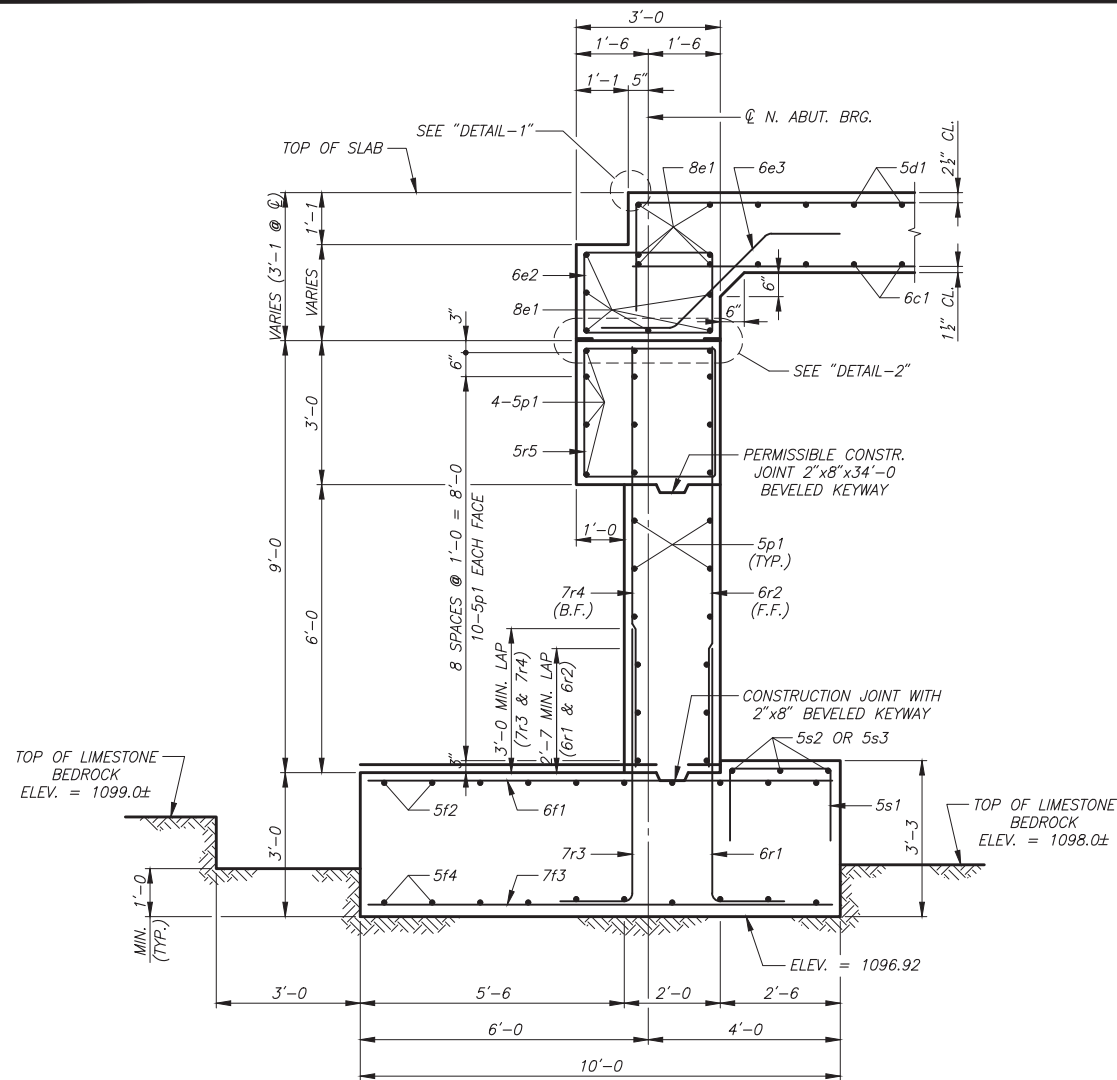
HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS

DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

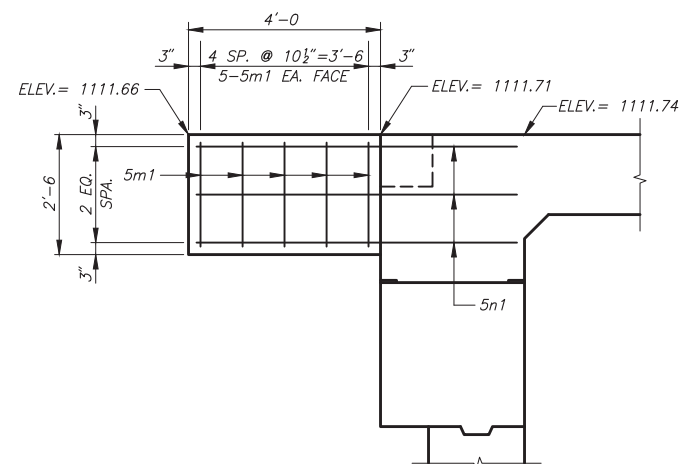
NORTH ABUTMENT DETAILS

STATION 10+00.00
 CITY OF ALDEN,

0° SKEW
 IOWA

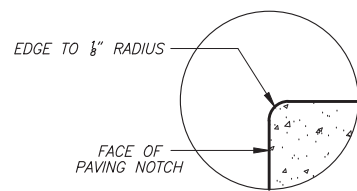


SECTION A-A

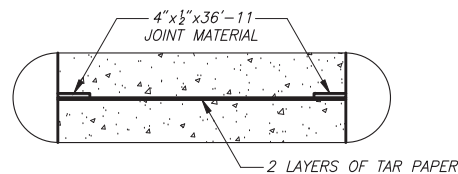


VIEW B-B

NOTE: ELEVATIONS AND DIMENSIONS SHOWN ARE AT OUTSIDE FACE.



DETAIL-1



DETAIL-2

REINFORCING BAR LIST - NORTH ABUTMENT

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
6f1	FOOTING, TOP, TRANSVERSE	—	62	9'-8	900
5f2	FOOTING, TOP, LONGITUDINAL	—	10	32'-4	337
7f3	FOOTING, BOTTOM, TRANSVERSE	—	78	9'-8	1,544
5f4	FOOTING, BOTTOM, LONGITUDINAL	—	10	32'-4	337
5f5-14	FOOTING, TOP, LONGITUDINAL	—	20	SHOWN	3,317
5f15-24	FOOTING, BOTT., LONGITUDINAL	—	20	SHOWN	3,178
6f25	FOOTING, TOP, CORNER, TRANSVERSE	—	10	6'-8	100
7f26	FOOTING, BOTT., CORNER, LONGITUDINAL	—	18	6'-8	245
5m1	WING, VERTICAL	—	20	2'-2	45
5n1	WING, HORIZONTAL	—	12	6'-8	83
5p1	BACKWALL, HORIZONTAL	—	24	36'-7	916
5p2	WINGWALL, HORIZONTAL, F.F.	—	20	16'-5	342
5p3	WINGWALL, HORIZONTAL, B.F.	—	20	14'-8	306
5p4	WINGWALL, HORIZONTAL, F.F.	—	4	13'-3	55
5p5	WINGWALL, HORIZONTAL, B.F.	—	4	11'-8	49
5p6	WINGWALL, HORIZONTAL, F.F.	—	2	8'-5	18
5p7	WINGWALL, HORIZONTAL, B.F.	—	2	6'-11	14
5p8	WINGWALL, TOP	—	2	12'-9	26
5p9	WINGWALL, TOP	—	2	5'-3	11
5p10	WINGWALL, TOP	—	2	12'-8	26
6r1	FOOTING TO BACKWALL/WINGWALL, F.F.	—	66	6'-10	677
6r2	BACKWALL/WINGWALL, VERTICAL, F.F.	—	66	8'-8	859
7r3	FOOTING TO BACKWALL/WINGWALL, B.F.	—	62	7'-3	918
7r4	BACKWALL/WINGWALL, VERTICAL, B.F.	—	62	8'-8	1,098
5r5	BACKWALL CAP, HOOPS	—	37	11'-8	450
6r6	WINGWALL, VERTICAL, F.F.	—	12	VARIES	201
7r7	WINGWALL, VERTICAL, B.F.	—	12	VARIES	274
6r8	WINGWALL, CORNER, VERTICAL, F.F.	—	6	12'-0	108
7r9	WINGWALL, CORNER, VERTICAL, B.F.	—	2	12'-0	49
6r10	WINGWALL, VERTICAL, F.F.	—	12	VARIES	197
7r11	WINGWALL, VERTICAL, B.F.	—	12	VARIES	268
6r12	WINGWALL, CORNER, VERTICAL, F.F.	—	3	11'-6	52
7r13	WINGWALL, CORNER, VERTICAL, B.F.	—	1	11'-6	26
5s1	FOOTING, TOE, STIRRUPS	—	66	5'-1	350
5s2	FOOTING, TOE, LONGITUDINAL	—	3	41'-0	27
5s3	FOOTING, TOE, LONGITUDINAL	—	2	16'-9	35
5s4	FOOTING, TOE, LONGITUDINAL	—	2	15'-11	33
5s5	FOOTING, TOE, LONGITUDINAL	—	2	15'-11	33
TOTAL (LBS.)					17,501

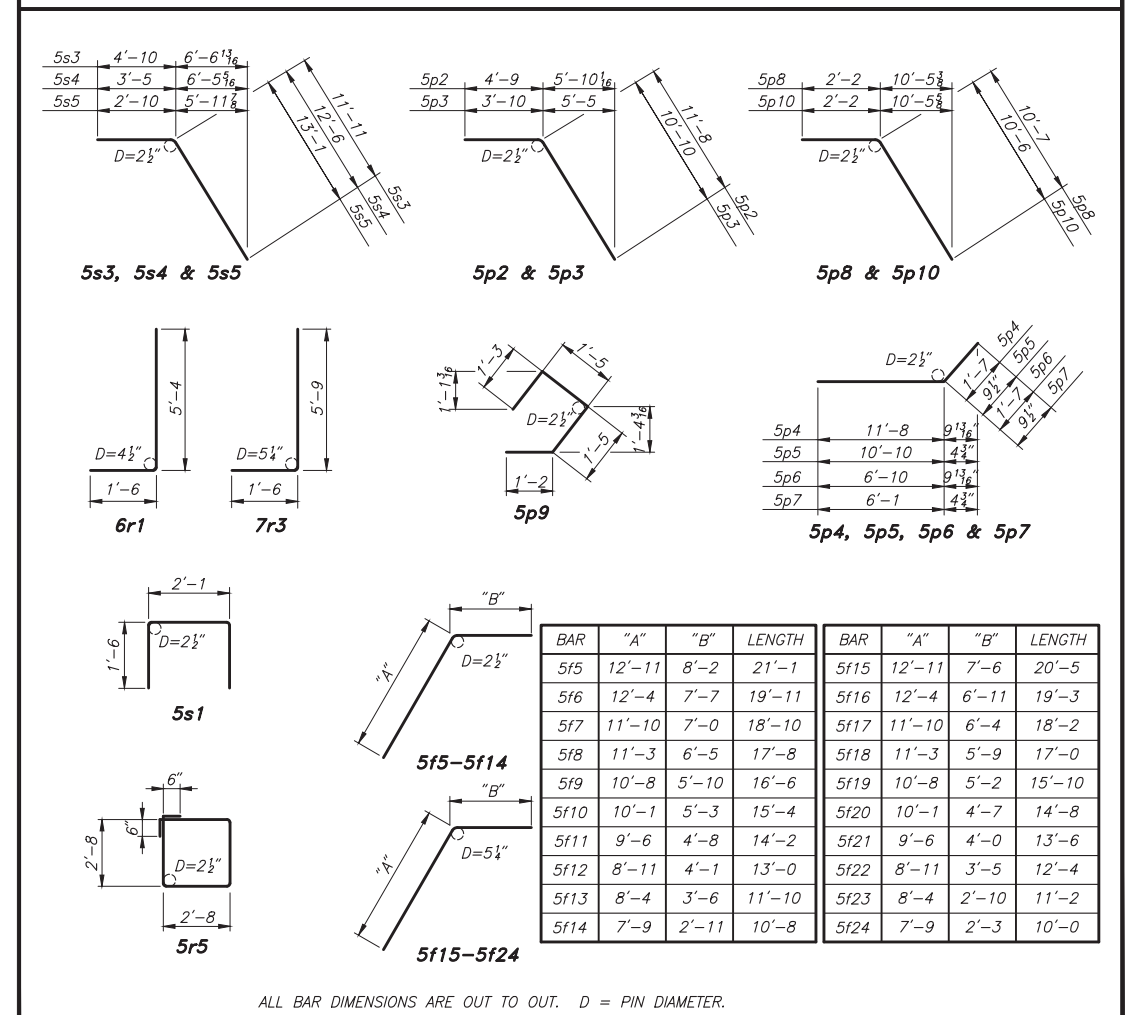
CONCRETE PLACEMENT QUANT.- NORTH ABUT.

LOCATION	UNIT	QUANTITY
FOOTING	CU.YDS.	67.4
BACKWALL	CU.YDS.	50.5
TOTAL	CU.YDS.	117.9

ESTIMATED QUANTITIES - NORTH ABUTMENT

ITEM	UNIT	QUANTITY
STRUCTURAL CONCRETE (BRIDGE)	CU.YDS.	117.9
REINFORCING STEEL	LBS.	17,501
EXCAVATION, CLASS 20	CU.YDS.	325
EXCAVATION, CLASS 22	CU.YDS.	25

BENT BAR DETAILS



NORTH ABUTMENT NOTES

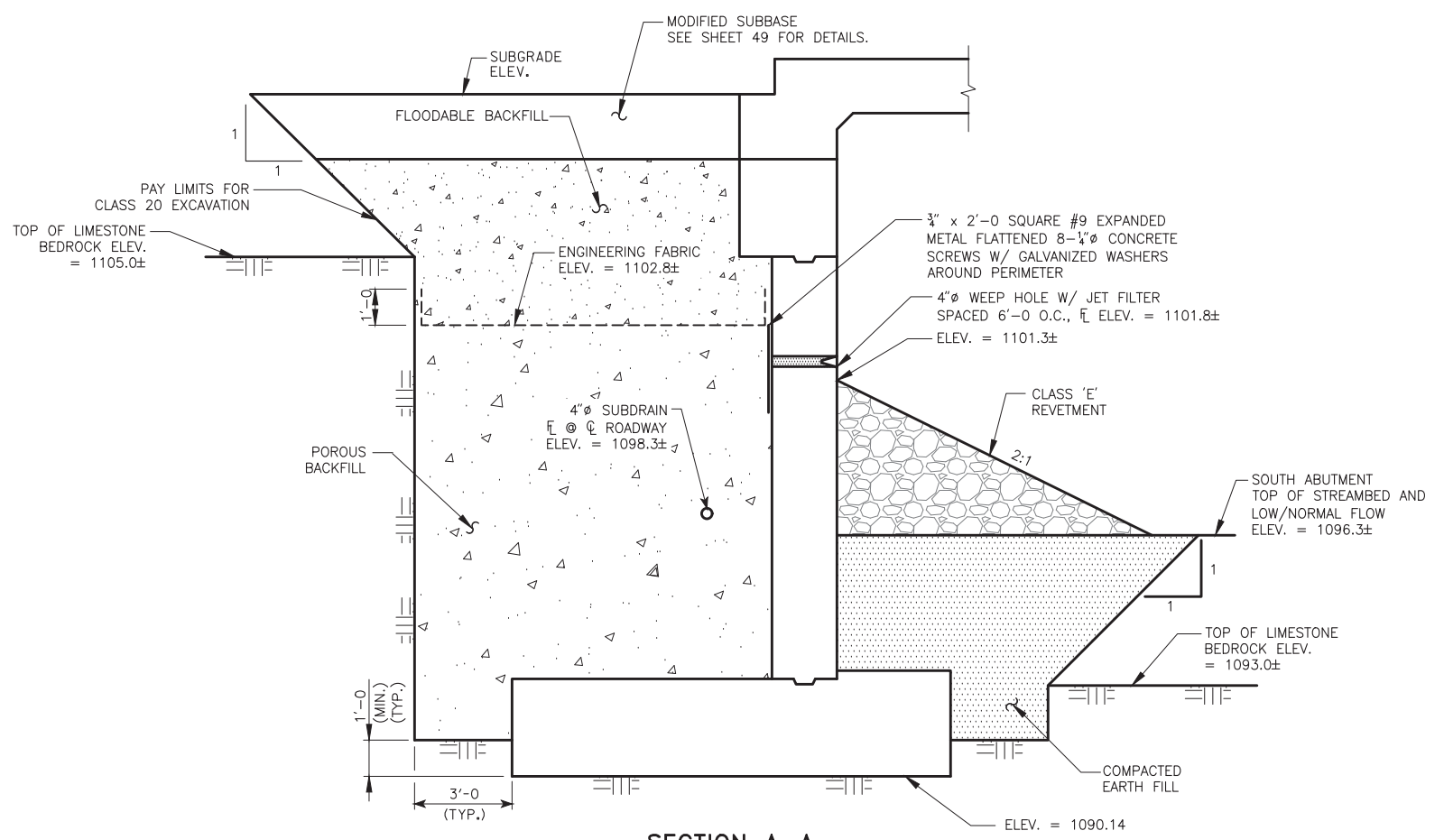
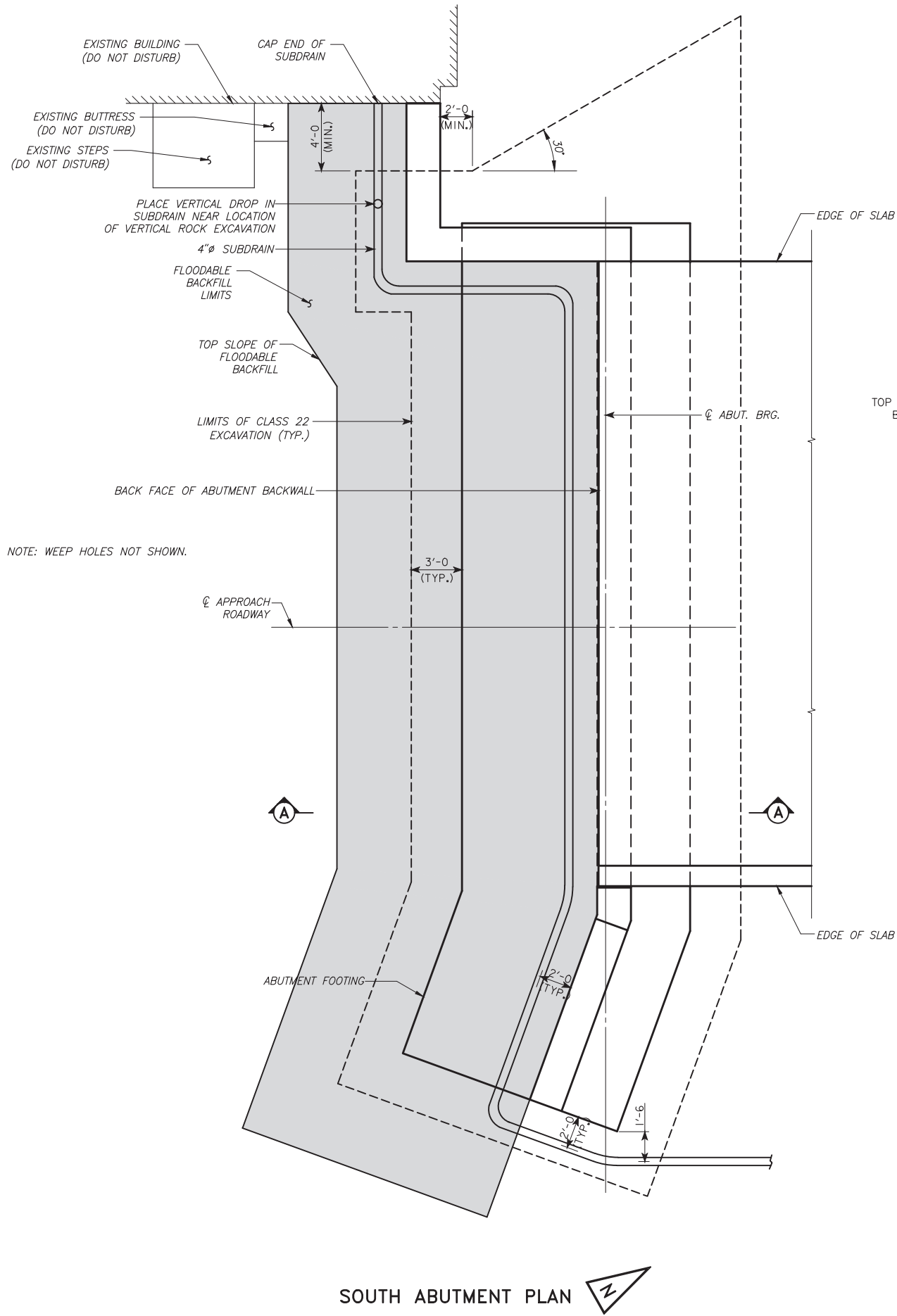
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.
 ALL REINFORCING STEEL TO BE SECURELY WIRED IN PLACE AND ADEQUATELY SUPPORTED BEFORE CONCRETE IS POURED.
 ALL REINFORCING STEEL IS TO BE GRADE 60.
 ALL EXPOSED CORNERS 90° OR SHARPER ARE TO BE FILLETED WITH A 3/8" DRESSED AND BEVELED STRIP.
 CONSTRUCTION JOINT KEYWAYS ARE TO BE FORMED WITH BEVELED 2 x 8'S.
 THE FOOTING SHALL BE FOUNDED IN SOLID LIMESTONE BEDROCK AS DETAILED IN THE PLANS. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 18 KIPS PER SQUARE FOOT (ALLOWABLE SERVICE LOAD BEARING VALUE OF AT LEAST 6 KIPS PER SQUARE FOOT). THE FOOTING IS DESIGNED TO MINIMIZE UPLIFT.
 EXCAVATION FOR THE ABUTMENT FOOTING AND PLACEMENT OF ABUTMENT FOOTING CONCRETE ARE TO BE PERFORMED IN AS DRY OF CONDITIONS AS PRACTICABLE, USING COFFERDAMS, PUMPS, OR OTHER SUITABLE MEASURES TO ASSURE SUCH CONDITIONS IN ACCORDANCE WITH SECTION 2405 AND SUPPLEMENTAL SPECIFICATIONS. THE COST OF ALL ABUTMENT EXCAVATION AND DEWATERING IS TO BE INCLUDED IN THE LUMP SUM BID FOR "EXCAVATION, CLASS 22". THE NEW ABUTMENT FOOTING SHALL BE KEYED A MINIMUM OF 1'-0" INTO SOUND BEDROCK. THE FINAL 1'-0" OF BEDROCK EXCAVATION IS TO BE NEAT LINES AS SHOWN IN THE PLANS.
 THE CONTRACTOR AND ENGINEER ARE TO VERIFY THAT THE BEDROCK IS LOCATED AS SHOWN ON THE SOUNDING DATA DETAILED ON THE PLANS. DIFFERENCES WHICH CAUSE CHANGES IN BOTTOM OF FOOTING ELEVATIONS MAY BE CAUSE FOR DESIGN CHANGES. THE ENGINEER WILL RETAIN A QUALIFIED GEOTECHNICAL ENGINEER FOR REVIEW. AFTER EXCAVATING TO WITHIN 6" OF THE DESIGN FOOTING ELEVATION, AT LEAST TWO (2) PROBE HOLES ARE TO BE DRILLED BY THE CONTRACTOR INTO ROCK AT THE BASE OF THE FOOTING EXCAVATION UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE PROBE HOLES SHOULD EXTEND AT LEAST 3'-6" INTO THE ROCK. IF LAYERS UNABLE TO WITHSTAND THE DESIGN BEARING ARE ENCOUNTERED WITHIN THE PROBE LIMITS, THE FOOTING MAY NEED TO BE LOWERED TO SUITABLE BEDROCK. THE PROBE HOLES SHALL BE GROUTED BY THE CONTRACTOR AFTER THE GEOTECHNICAL ENGINEER HAS COMPLETED VERIFICATION OF THE BEARING CAPACITY. COST OF DRILLING THE PROBE HOLES AND GROUTING, INCLUDING EQUIPMENT AND ALL LABOR IS TO BE INCLUDED IN PRICE BID FOR "EXCAVATION, CLASS 22".

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

NORTH ABUTMENT DETAILS

STATION 10+00.00
 CITY OF ALDEN,
 IOWA



SECTION A-A
SOUTH ABUTMENT BACKFILL DETAILS
 (LOOKING WEST)
 NOTE: SUBDRAIN SHALL BE PLACED AT A 2% SLOPE.
 SEE "GENERAL PLAN", SHEET 5 FOR ADDITIONAL INFORMATION.

NOTE: SEE SHEET 24 FOR ADDITIONAL NOTES.

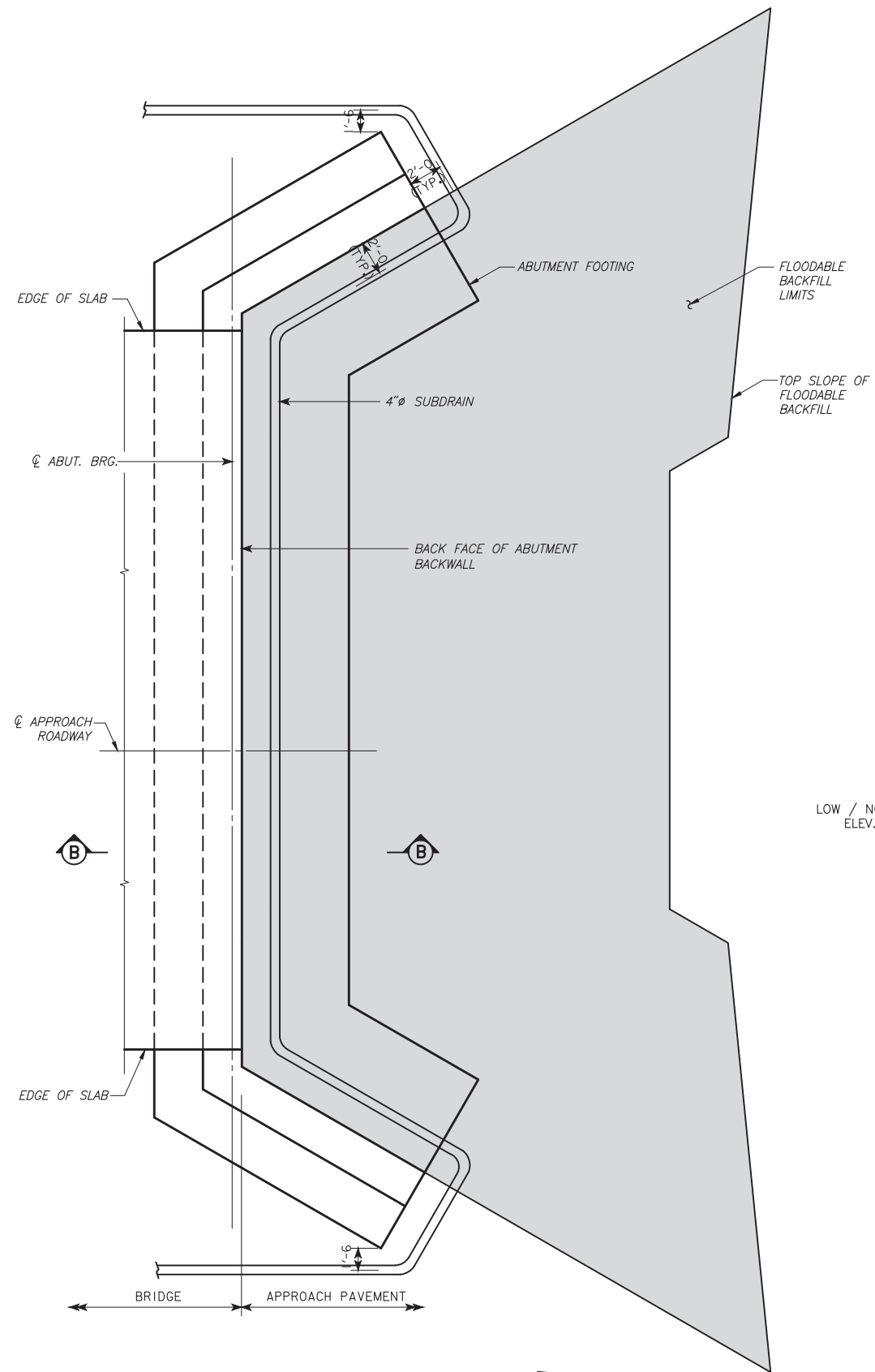
**167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK**

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

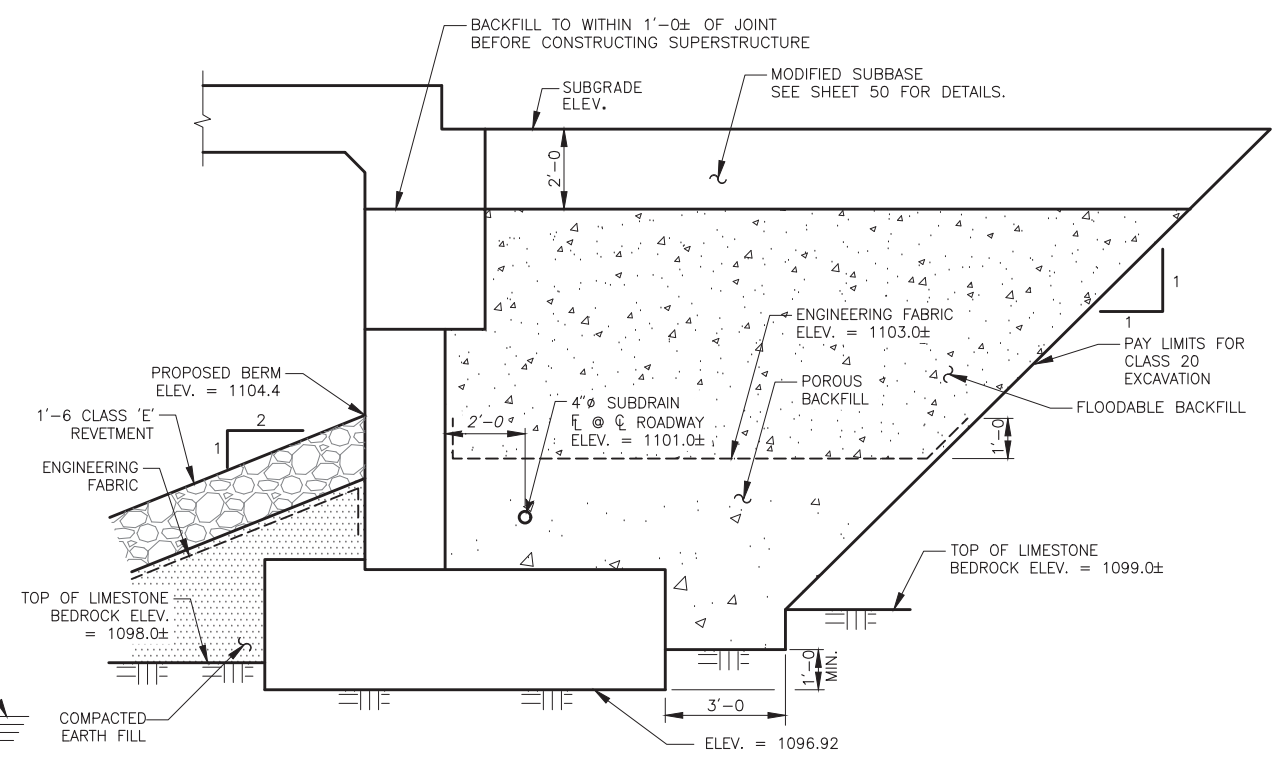
SOUTH ABUTMENT BACKFILL DETAILS

STATION 10+00.00
 CITY OF ALDEN, IOWA

0' SKEW
 IOWA



NORTH ABUTMENT PLAN



SECTION B-B
NORTH ABUTMENT BACKFILL DETAILS
(LOOKING WEST)

NOTE: SUBDRAIN SHALL BE PLACED AT A 2% SLOPE FROM CL ROADWAY. SEE "GENERAL PLAN", SHEET 5 FOR ADDITIONAL INFORMATION.

NOTE: SEE SHEET 24 FOR ADDITIONAL NOTES.

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS

DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

NORTH ABUTMENT BACKFILL DETAILS

STATION 10+00.00

CITY OF ALDEN, IOWA

0° SKEW

ABUTMENT BACKFILL PROCESS

THE LOWER EXCAVATION LIMITS REQUIRED FOR CONSTRUCTION OF THE ABUTMENTS SHALL BE INTO LIMESTONE BEDROCK AS REQUIRED PER THE ABUTMENT DETAILS LISTED IN THESE PLANS.

AFTER CONSTRUCTION OF THE ABUTMENTS, POROUS BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE DETAILS LISTED IN THESE PLANS. THE POROUS BACKFILL SHALL BE SHAPED TO ALLOW A 2% CROSS SLOPE IN THE DIRECTION OF THE SUBDRAIN OUTLET. ONCE THE SUBDRAIN SHAPING IS COMPLETED, THE SUBDRAIN SHALL BE PLACED. ADDITIONAL POROUS BACKFILL SHALL BE PLACED ON TOP OF THE SUBDRAIN UP TO THE SPECIFIED ELEVATION IN THESE PLANS. THE POROUS BACKFILL SHALL BE LEVELED AND TAMPED WITH A BACKHOE OR LIGHT MACHINERY. SEE "WEEP HOLE NOTES" FOR INFORMATION ABOUT THE INSTALLATION OF WEEP HOLES AT THE SOUTH ABUTMENT. ENGINEERING FABRIC IS TO BE PLACED AT THE TOP OF THE POROUS BACKFILL. THE FABRIC IS INTENDED TO BE INSTALLED AS A SEPARATION BARRIER BETWEEN POROUS BACKFILL AND FLOODABLE BACKFILL AND EXTENDED VERTICALLY UP THE ABUTMENT BACKWALL, ABUTMENT WINGWALLS, AND EXCAVATION FACE TO A HEIGHT THAT WILL BE APPROXIMATELY 1 TO 2 FOOT HIGHER THAN THE HEIGHT OF THE POROUS BACKFILL PLACEMENT AS SHOWN IN THESE PLANS. THE STRIPS OF THE FABRIC PLACED SHALL OVERLAP APPROXIMATELY 1 FOOT AND SHALL BE PINNED IN PLACE. THE FABRIC SHALL BE ATTACHED TO THE ABUTMENT BY USING LATH FOLDED IN THE FABRIC AND SECURED TO THE CONCRETE WITH SHALLOW CONCRETE NAILS. THE FABRIC PLACED AGAINST THE EXCAVATION FACE SHALL BE PINNED.

THE REMAINING WORK INVOLVES BACKFILLING WITH FLOODABLE BACKFILL, SURFACE FLOODING, AND VIBRATORY COMPACTION. THE FLOODABLE BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE FLOODABLE BACKFILL SHALL BE PLACED IN INDIVIDUAL LIFTS, SURFACE FLOODED, AND COMPACTED WITH VIBRATORY COMPACTION TO ENSURE FULL CONSOLIDATION. LIMIT THE LOOSE LIFTS TO NO MORE THAN 2 FEET OF THICKNESS.

START SURFACE FLOODING FOR EACH FLOODABLE BACKFILL LIFT AT THE HIGH POINT OF THE SUBDRAIN AND PROGRESS TO THE LOW POINT WHERE THE SUBDRAIN EXITS THE FABRIC. TO ENSURE UNIFORM SURFACE FLOODING, WATER RUNNING FULL IN A 2-INCH DIAMETER HOSE SHOULD BE SPRAYED IN SUCCESSIVE 6-FOOT TO 8-FOOT INCREMENTS FOR 5 MINUTES WITHIN EACH INCREMENT.

FLOODABLE BACKFILL LIFT PLACEMENT, FLOODING, AND COMPACTION SHALL PROGRESS UP TO WITHIN 1½ OF THE SUPERSTRUCTURE AND ABUTMENT BACKWALL JOINT. THE SUPERSTRUCTURE CONSTRUCTION SHALL BE COMPLETED PRIOR TO PLACING THE LAST LAYER OF FLOODABLE BACKFILL AND MODIFIED SUBBASE. FOR LOCATIONS BEYOND THE LIMITS OF MODIFIED SUBBASE AS SPECIFIED IN THESE PLANS, COMPACTED EARTH FILL SHALL REPLACE THE MODIFIED SUBBASE LAYER.

WATER REQUIRED FOR FLOODING, SUBDRAINS, AND ENGINEERING FABRIC FURNISHED AT THE BRIDGE ABUTMENTS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

THE COST OF SUBDRAINS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR "POROUS BACKFILL".

THE COST OF WATER REQUIRED FOR FLOODING AND ENGINEERING FABRIC FURNISHED BEHIND THE BRIDGE ABUTMENTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR "FLOODED BACKFILL".

SUBDRAIN NOTES

THIS PLAN SHEET SHOWS DETAILS FOR PLACING SUBDRAINS AND SUBDRAIN OUTLETS REQUIRED FOR THIS STRUCTURE.

THE SUBDRAINS SHALL BE 4" IN DIAMETER AND SHALL BE IN ACCORDANCE WITH ARTICLE 4143.01, B, OF THE STANDARD SPECIFICATIONS.

THE SUBDRAIN OUTLET SHALL CONSIST OF A LENGTH OF PIPE WITH A REMOVABLE RODENT GUARD AS DETAILED ON THIS SHEET. THE LENGTH OF THE OUTLET PIPE SHALL BE DETERMINED BY THE REVETMENT AND ITS PLACEMENT LOCATION. THE CONTRACTOR IS TO ENSURE THE OUTLET PIPE IS ADEQUATELY STRONG ENOUGH AND WILL NOT BE DAMAGED WHEN REVETMENT IS PLACED. A CHECK WILL BE MADE AT THE SUBDRAIN OUTLET TO ENSURE THAT THE SUBDRAIN IS NOT DAMAGED AND IS DRAINING PROPERLY DURING THE BACKFILL FLOODING PROCESS. IF A METAL OUTLET IS USED, IT SHALL BE 6 INCHES IN DIAMETER AND COUPLED TO THE 4 INCH DIAMETER SUBDRAIN IN ONE OF THE TWO FOLLOWING WAYS.

1. USE AN INSIDE FIT REDUCER COUPLER (COUPLER MUST BE INSERTED A MINIMUM OF 1'-0" INTO THE METAL OUTLET PIPE).
2. INSERT 1'-0" OF THE 4"Ø SUBDRAIN INTO THE 6"Ø METAL OUTLET PIPE, THEN FULLY SEAL THE ENTIRE OPENING WITH GROUT.

THE COST OF FURNISHING AND PLACING SUBDRAIN (INCLUDING EXCAVATION), GRANULAR BACKFILL, POROUS BACKFILL, AND SUBDRAIN OUTLET IS TO BE INCLUDED IN THE PRICE BID FOR "STRUCTURAL CONCRETE (BRIDGE)". NO EXTRA PAYMENT WILL BE MADE.

SEE SITUATION PLAN, SHEET ??, FOR SUBDRAIN OUTLET ELEVATIONS.

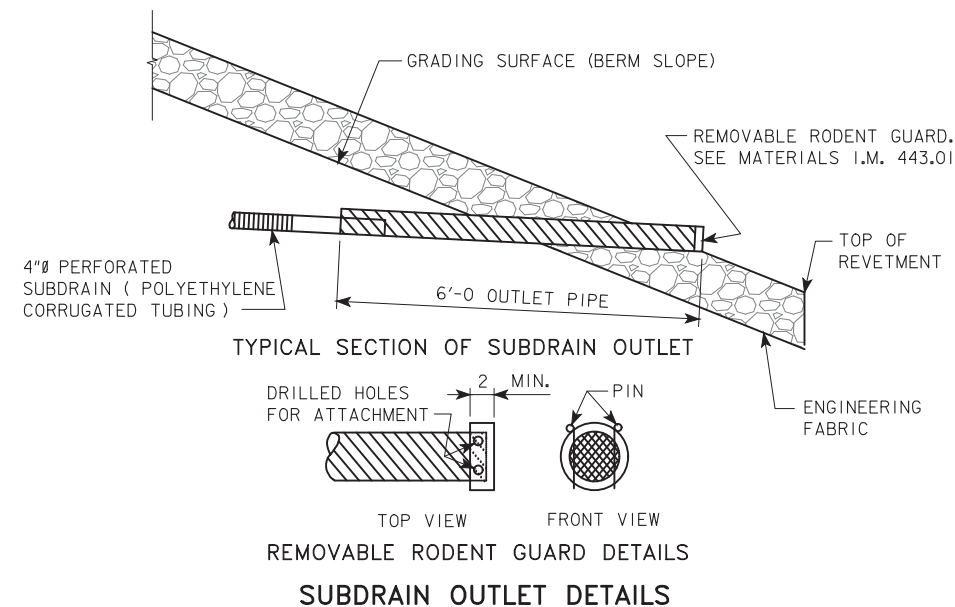
WEEP HOLE NOTES

4" DIAMETER WEEP HOLES SHALL BE CAST FULL-DEPTH INTO THE SOUTH ABUTMENT BACKWALL AND WINGS USING PVC PIPE AT THE SPECIFIED ELEVATION SHOWN IN THESE PLANS. HORIZONTAL SPACING OF THE WEEP HOLES SHALL BE 6'± o.c. CLASS 'E' REVETMENT SHALL BE PLACED IN FRONT OF ABUTMENT AS SPECIFIED IN THESE PLANS PRIOR TO INSTALLATION OF WEEP HOLE FILTERS. 4" DIAMETER WEEP HOLE FILTERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. WEEP HOLE FILTERS SHALL NOT CONTAIN A BACKFLOW PREVENTION MECHANISM.

FOLLOWING INSTALLATION OF THE WEEP HOLE FILTERS, POROUS BACKFILL SHALL BE HAND-PLACED INTO THE REMAINING WEEP HOLE VOID AND HAND-TAMPED. ONCE THE WEEP HOLE HAS BEEN FILLED, EXPANDED METAL SHALL BE INSTALLED ON THE BACKSIDE OF THE BACKWALL AS SPECIFIED IN THESE PLANS. BACKFILLING OPERATIONS MAY THEN CONTINUE UP TO AND ABOVE THE WEEP HOLES.

THE COST OF FURNISHING AND INSTALLING THE WEEP HOLE FILTERS, PVC PIPE WEEP HOLES, EXPANDED METAL AND FASTENING MATERIALS SHALL BE INCLUDED IN THE PRICE BID FOR "WEEP HOLE FILTER, 4" DIA.".

WEEP HOLE FILTERS SHALL BE PROVIDED BY JET FILTER SYSTEM, LLC. THE JET FILTER SYSTEM CONTACT SHALL BE DAVID HEILMAN, WHO CAN BE REACHED AT PHONE NUMBER: 800-475-2029.



A CHECK SHALL BE MADE AT THE SUBDRAIN OUTLET TO ENSURE THAT IT IS DRAINING PROPERLY DURING THE BACKFILL FLOODING PROCESS.

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

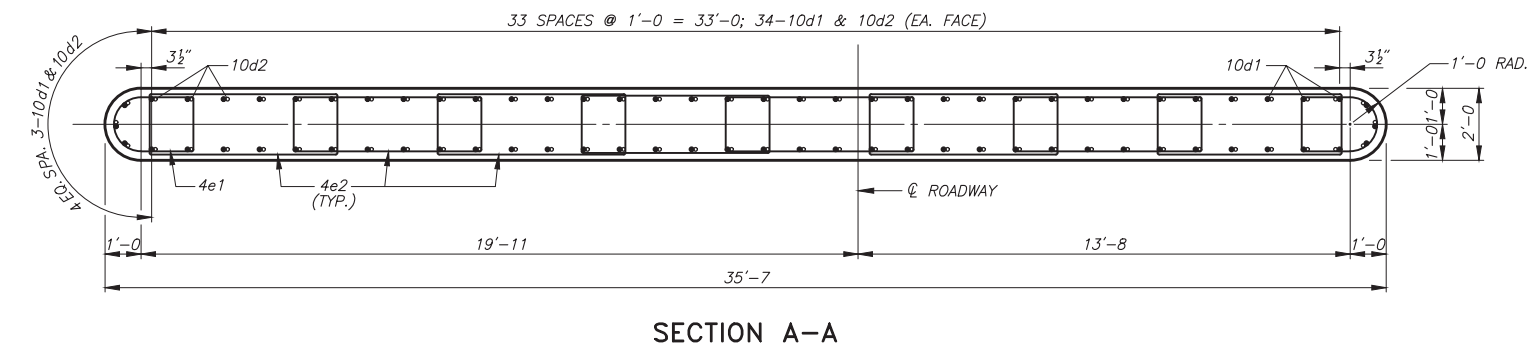
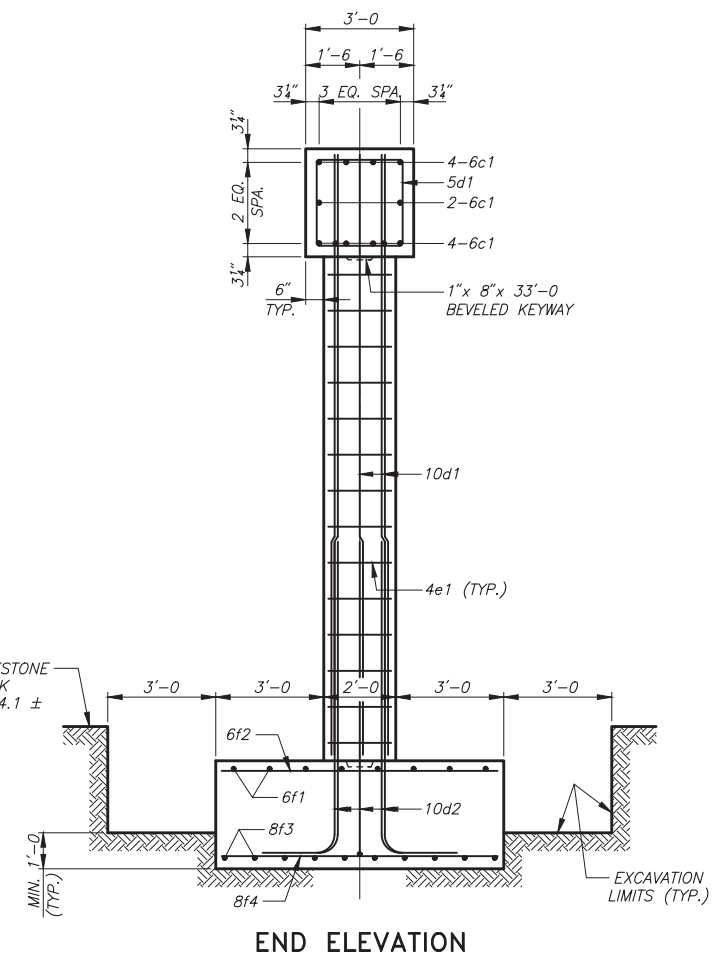
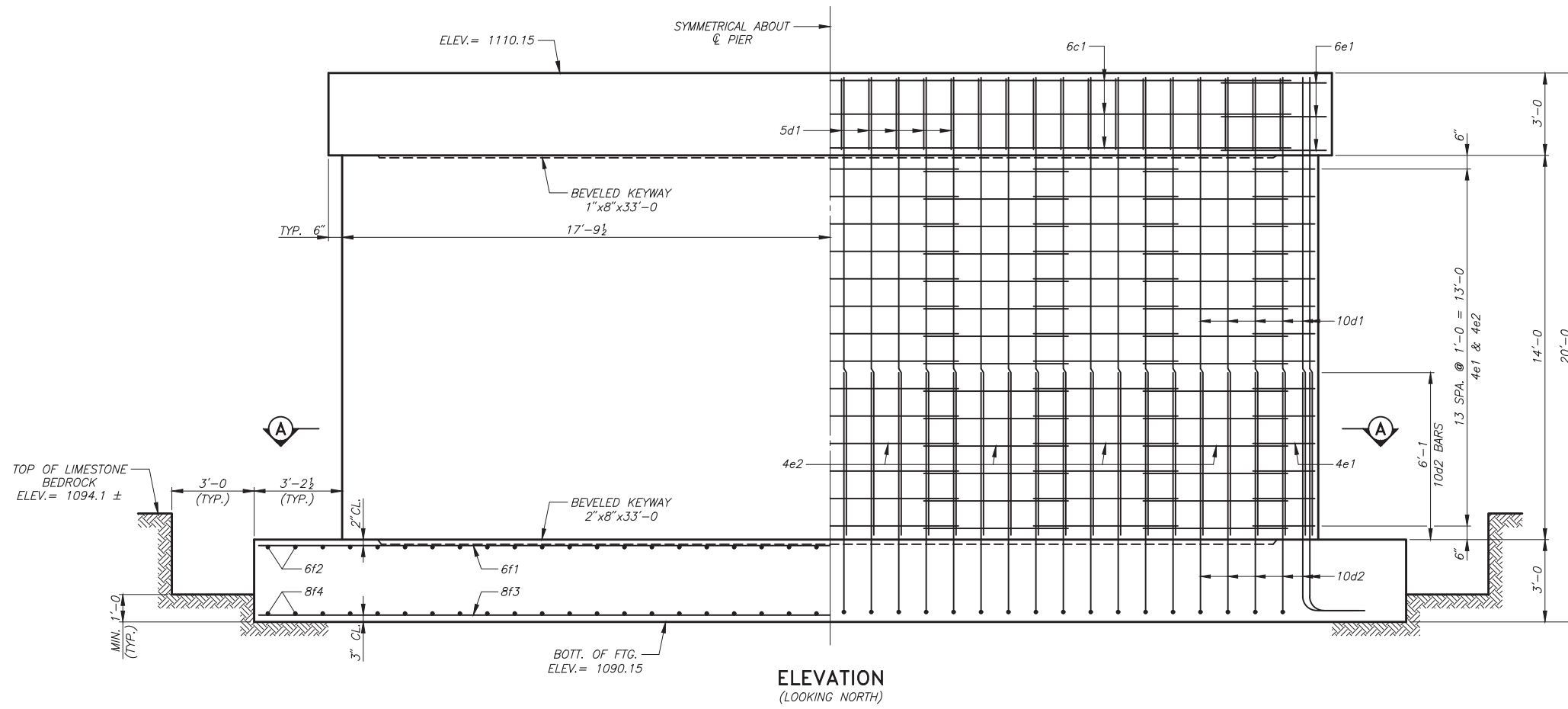
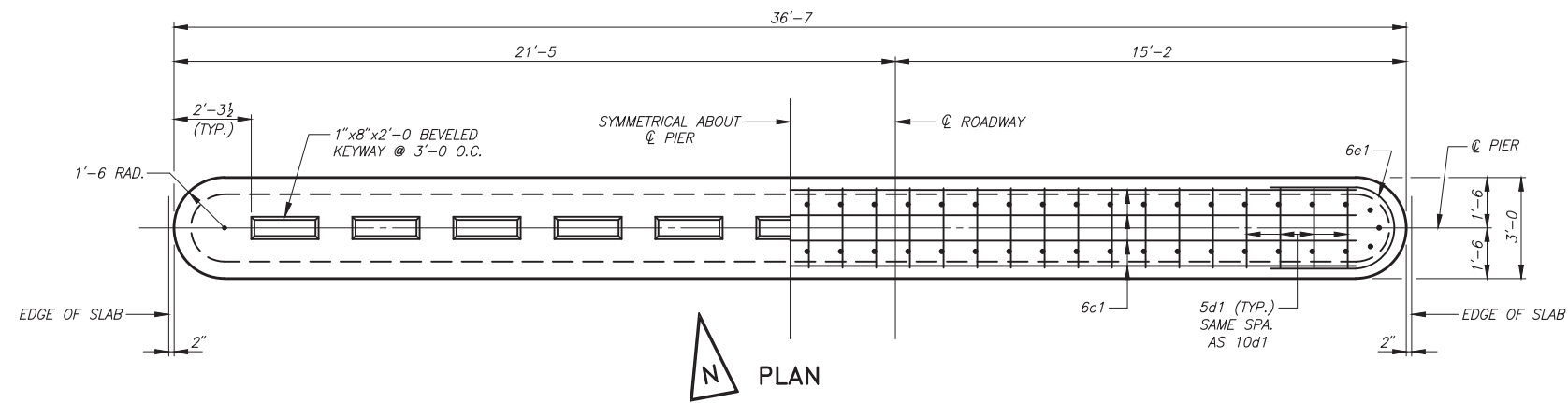
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

ABUTMENT BACKFILL DETAILS

STATION 10+00.00
CITY OF ALDEN,

0° SKEW
IOWA

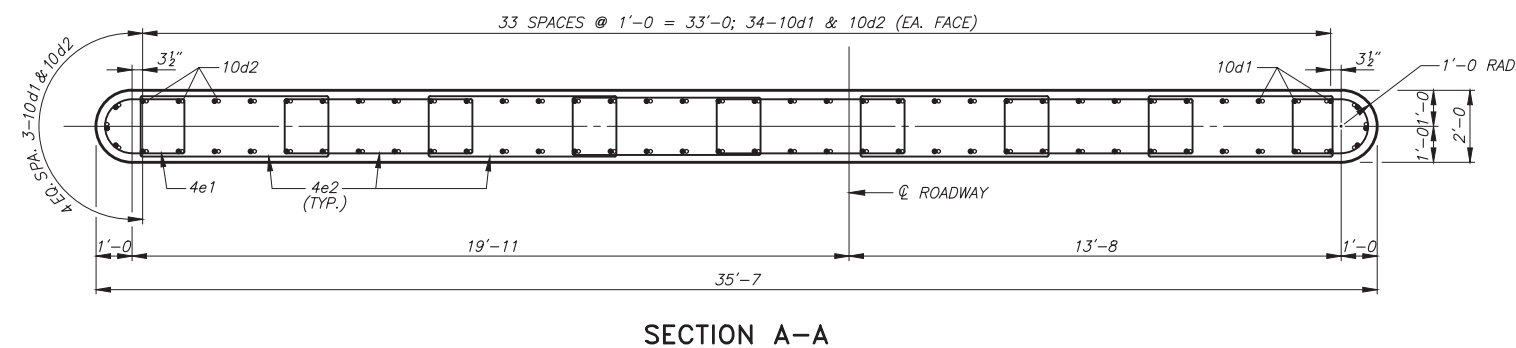
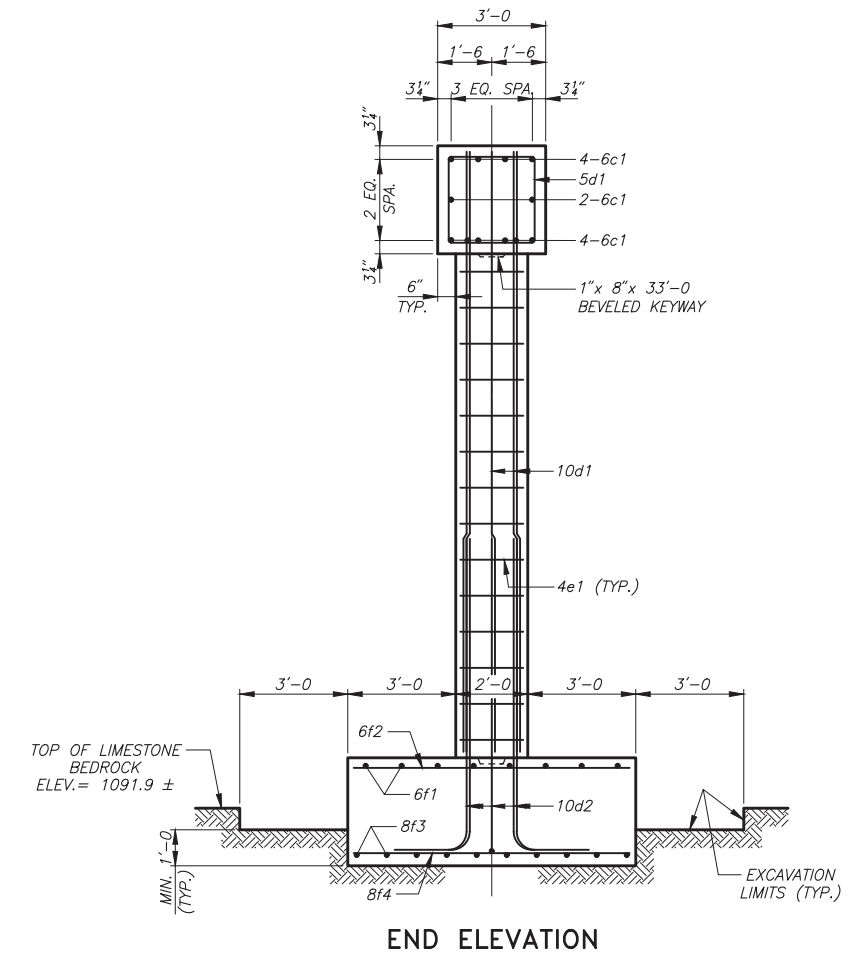
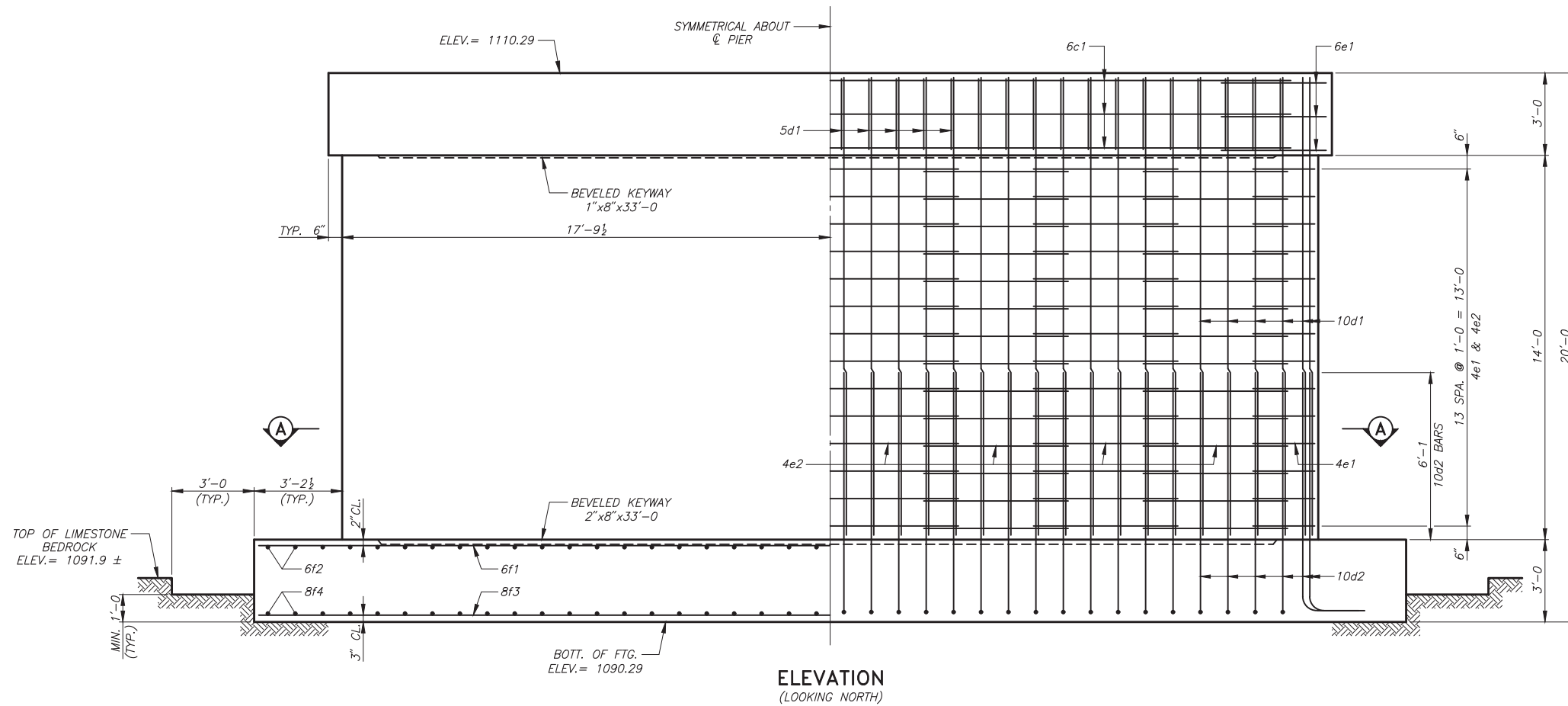
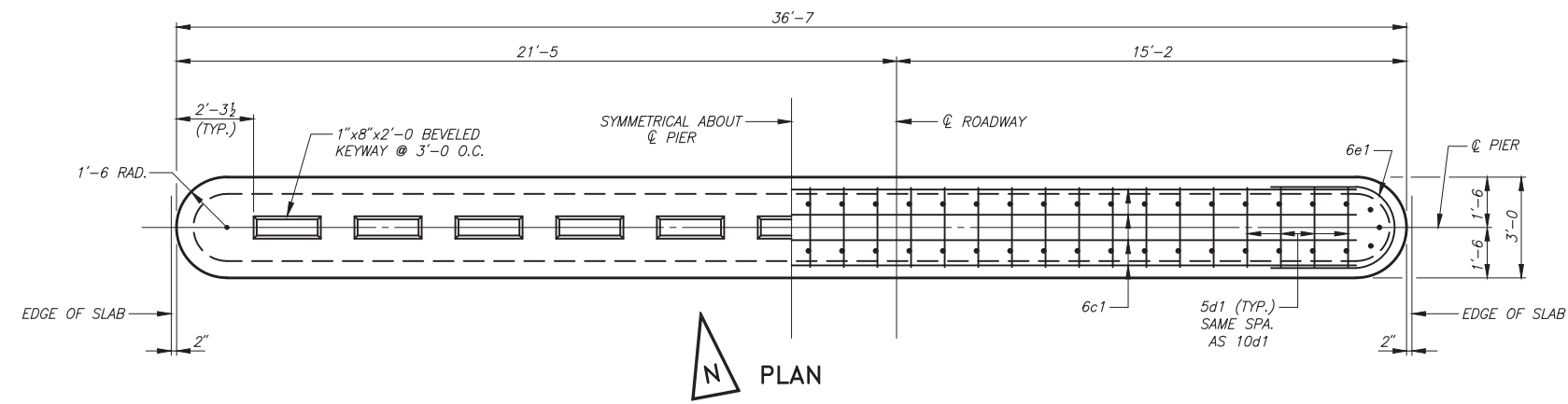


**167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK**

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

PIER NO. 1 DETAILS

STATION 10+00.00 0° SKEW
 CITY OF ALDEN, IOWA

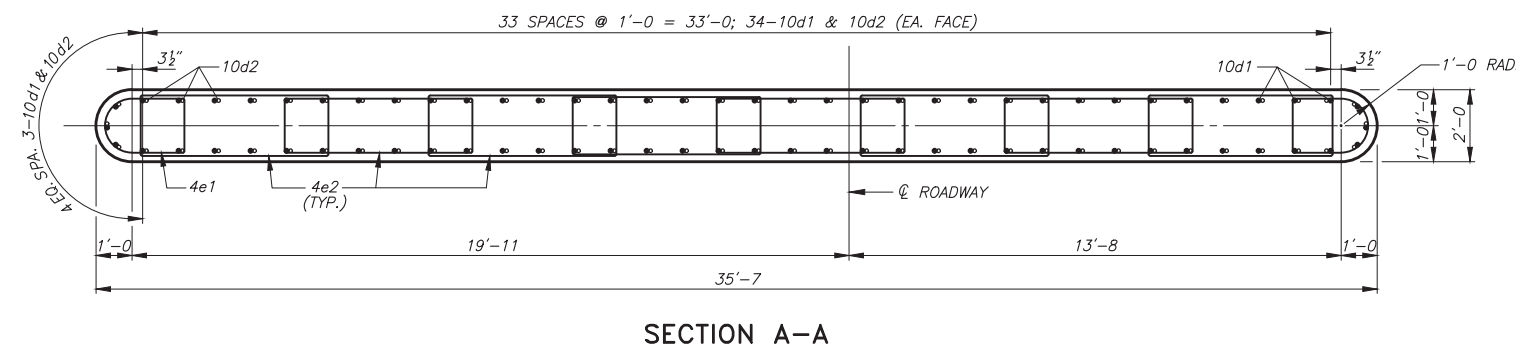
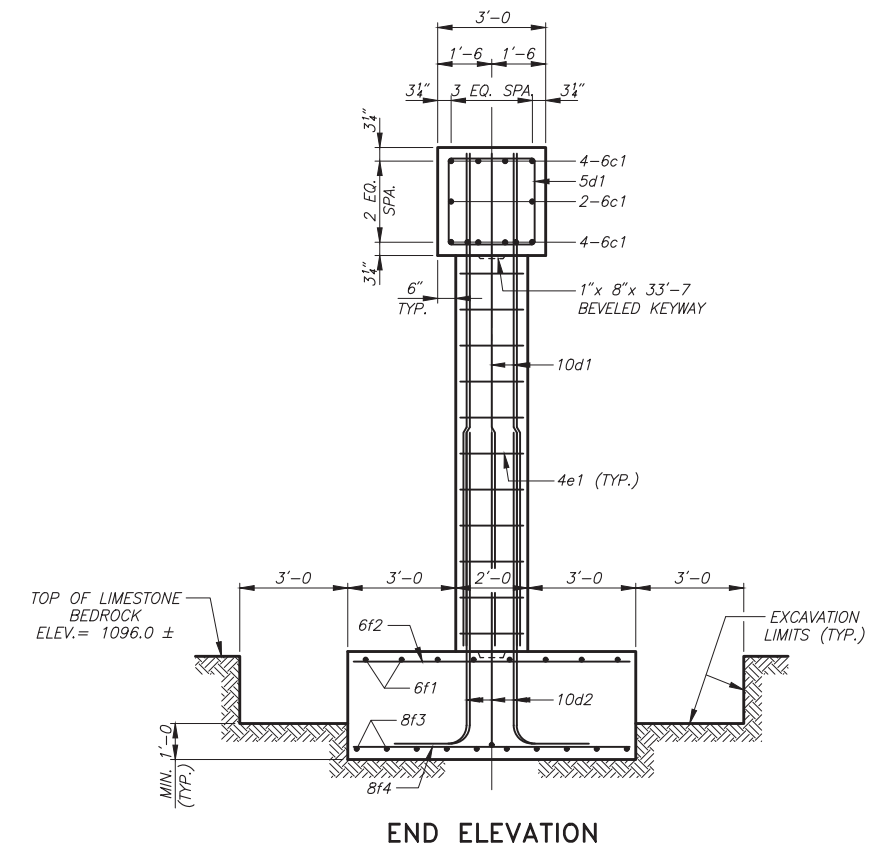
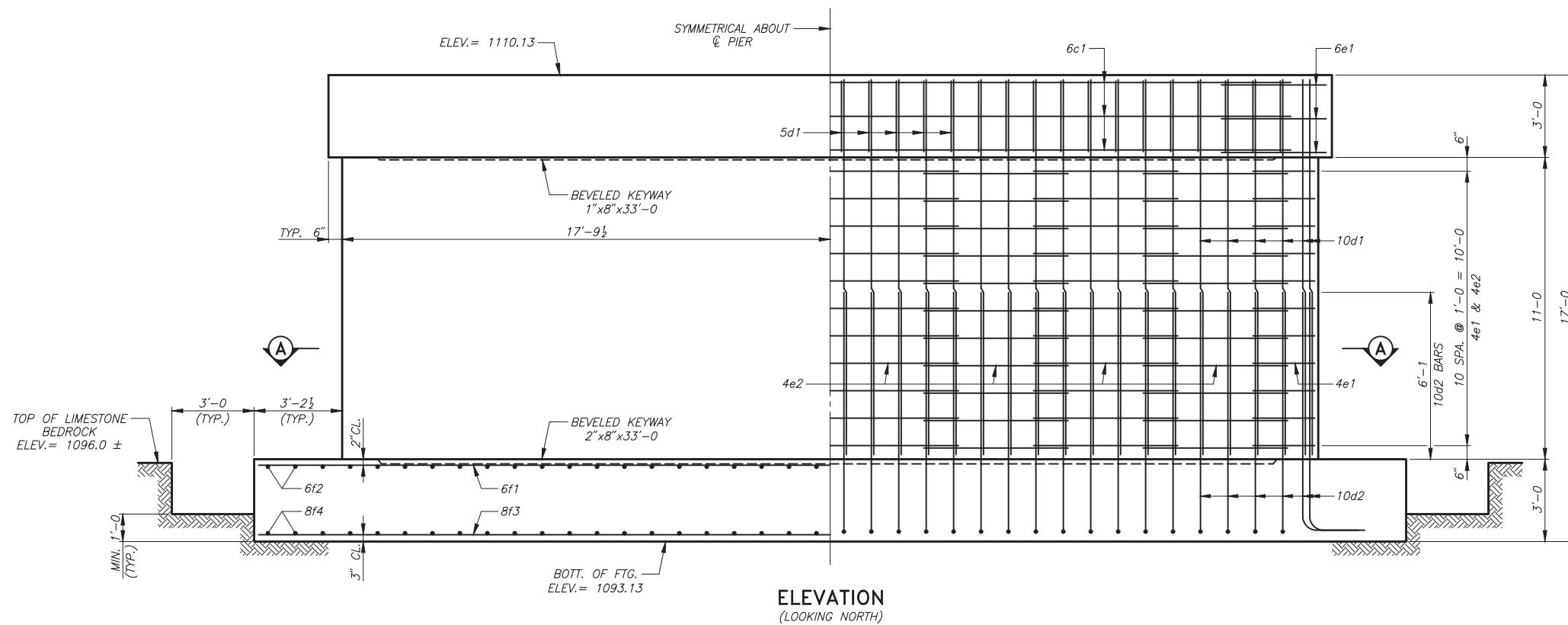
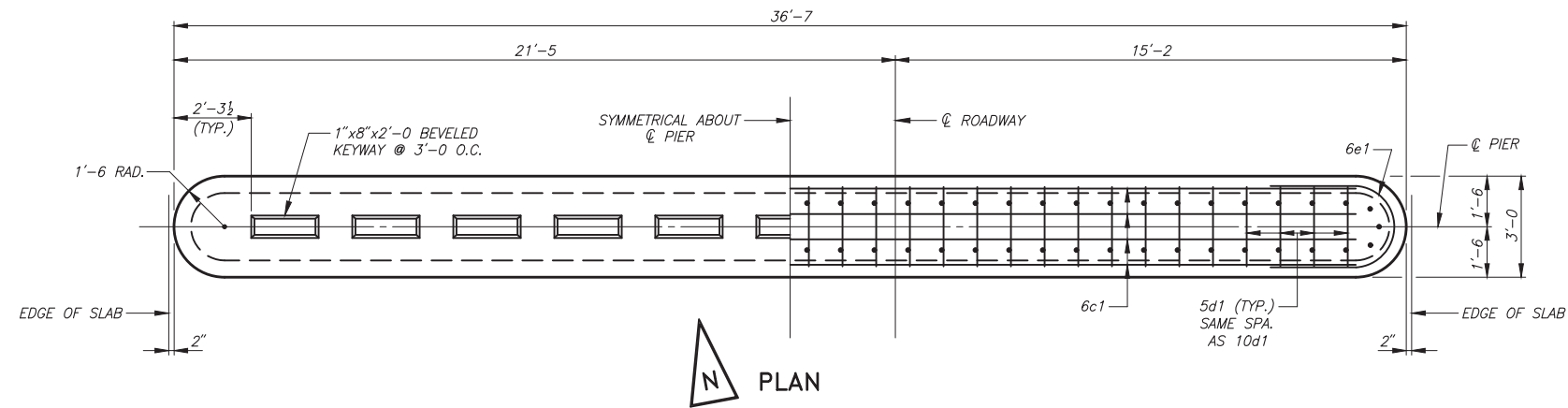


167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

PIER NO. 2 DETAILS

STATION 10+00.00 0° SKEW
 CITY OF ALDEN, IOWA



**167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK**

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

PIER NO. 3 DETAILS

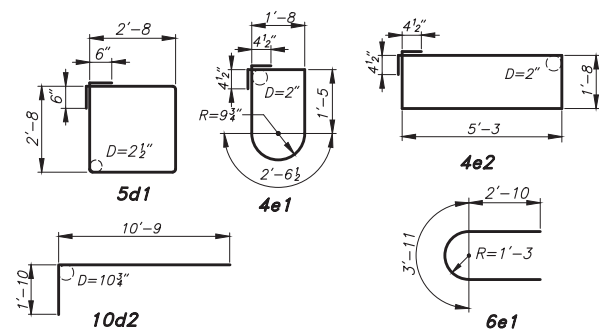
STATION 10+00.00 0° SKEW
 CITY OF ALDEN, IOWA

REINFORCING BAR LIST - PIER NO. 1					
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
6c1	CAP, LONGITUDINAL	—	10	33'-7"	504
5d1	CAP, HOOPS	□	34	11'-8"	414
6e1	CAP, ENDS	□	6	9'-7"	86
10d1	COLUMN, VERTICAL	—	74	16'-10"	5,360
10d2	COLUMN, VERTICAL, DOWELS	⌋	74	12'-7"	4,007
4e1	COLUMN, HOOPS, ENDS	□	28	7'-10"	147
4e2	COLUMN, HOOPS	□	112	14'-7"	1,091
6f1	FOOTING, LONGITUDINAL, TOP	—	8	41'-8"	501
6f2	FOOTING, TRANSVERSE, TOP	—	42	7'-8"	484
8f3	FOOTING, LONGITUDINAL, BOTTOM	—	10	41'-8"	1,113
8f4	FOOTING, TRANSVERSE, BOTTOM	—	42	7'-8"	860
TOTAL (LBS.)					14,567

REINFORCING BAR LIST - PIER NO. 2					
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
6c1	CAP, LONGITUDINAL	—	10	33'-7"	504
5d1	CAP, HOOPS	□	34	11'-8"	414
6e1	CAP, ENDS	□	6	9'-7"	86
10d1	COLUMN, VERTICAL	—	74	16'-10"	5,360
10d2	COLUMN, VERTICAL, DOWELS	⌋	74	12'-7"	4,007
4e1	COLUMN, HOOPS, ENDS	□	28	7'-10"	147
4e2	COLUMN, HOOPS	□	112	14'-7"	1,091
6f1	FOOTING, LONGITUDINAL, TOP	—	8	41'-8"	501
6f2	FOOTING, TRANSVERSE, TOP	—	42	7'-8"	484
8f3	FOOTING, LONGITUDINAL, BOTTOM	—	10	41'-8"	1,113
8f4	FOOTING, TRANSVERSE, BOTTOM	—	42	7'-8"	860
TOTAL (LBS.)					14,567

REINFORCING BAR LIST - PIER NO. 3					
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
6c1	CAP, LONGITUDINAL	—	10	33'-7"	504
5d1	CAP, HOOPS	□	34	11'-8"	414
6e1	CAP, ENDS	□	6	9'-7"	86
10d1	COLUMN, VERTICAL	—	74	13'-10"	4,405
10d2	COLUMN, VERTICAL, DOWELS	⌋	74	12'-7"	4,007
4e1	COLUMN, HOOPS, ENDS	□	22	7'-10"	115
4e2	COLUMN, HOOPS	□	88	14'-7"	857
6f1	FOOTING, LONGITUDINAL, TOP	—	8	41'-8"	501
6f2	FOOTING, TRANSVERSE, TOP	—	42	7'-8"	484
8f3	FOOTING, LONGITUDINAL, BOTTOM	—	10	41'-8"	1,113
8f4	FOOTING, TRANSVERSE, BOTTOM	—	42	7'-8"	860
TOTAL (LBS.)					13,346

BENT BAR DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER. RADII TO ϕ BAR

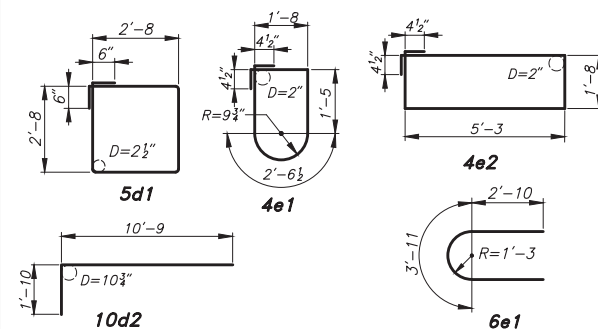
CONCRETE PLACEMENT QUANT. - PIER NO. 1

LOCATION	UNIT	QUANTITY
CAP	CU.YDS.	12.3
COLUMN	CU.YDS.	36.5
FOOTING	CU.YDS.	37.3
TOTAL	CU.YDS.	86.1

ESTIMATED QUANTITIES - PIER NO. 1

ITEM	UNIT	QUANTITY
STRUCTURAL CONCRETE (BRIDGE)	CU.YDS.	86.1
STEEL, REINFORCING	LBS.	14,567
EXCAVATION, CLASS 20	CU.YDS.	15
EXCAVATION, CLASS 21	CU.YDS.	35
EXCAVATION, CLASS 22	CU.YDS.	86

BENT BAR DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER. RADII TO ϕ BAR

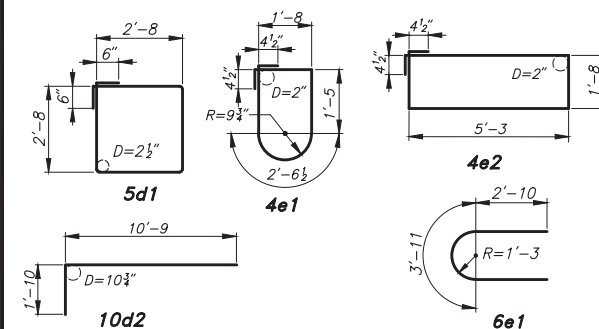
CONCRETE PLACEMENT QUANT. - PIER NO. 2

LOCATION	UNIT	QUANTITY
CAP	CU.YDS.	12.3
COLUMN	CU.YDS.	36.5
FOOTING	CU.YDS.	37.3
TOTAL	CU.YDS.	86.1

ESTIMATED QUANTITIES - PIER NO. 2

ITEM	UNIT	QUANTITY
STRUCTURAL CONCRETE (BRIDGE)	CU.YDS.	86.1
STEEL, REINFORCING	LBS.	14,567
EXCAVATION, CLASS 21	CU.YDS.	62
EXCAVATION, CLASS 22	CU.YDS.	28

BENT BAR DETAILS



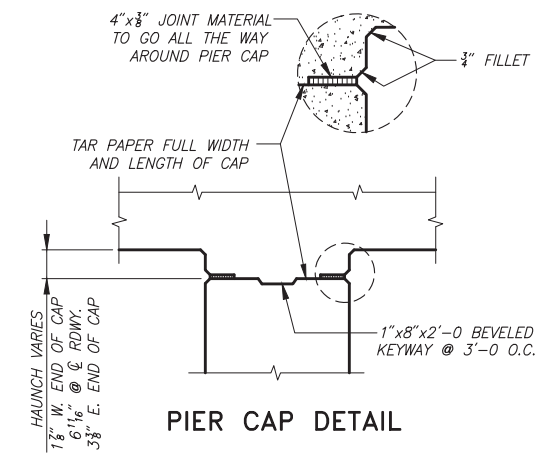
ALL BAR DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER. RADII TO ϕ BAR

CONCRETE PLACEMENT QUANT. - PIER NO. 3

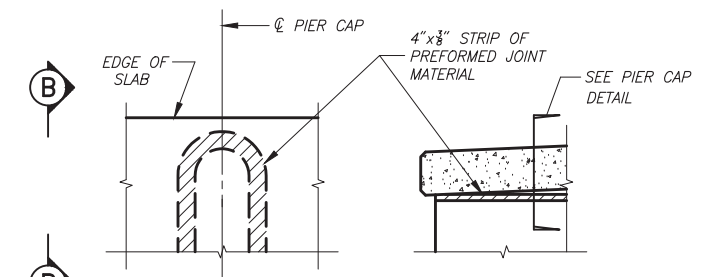
LOCATION	UNIT	QUANTITY
CAP	CU.YDS.	12.3
COLUMN	CU.YDS.	28.6
FOOTING	CU.YDS.	37.3
TOTAL	CU.YDS.	78.2

ESTIMATED QUANTITIES - PIER NO. 3

ITEM	UNIT	QUANTITY
STRUCTURAL CONCRETE (BRIDGE)	CU.YDS.	78.2
STEEL, REINFORCING	LBS.	13,346
EXCAVATION, CLASS 20	CU.YDS.	37
EXCAVATION, CLASS 22	CU.YDS.	59



PIER CAP DETAIL



PART PLAN SECTION B-B

SHOWING TREATMENT OF 4"x3/8" STRIP OF PREFORMED JOINT MATERIAL AT ENDS OF PIER CAP. NOTE THAT JOINT MATERIAL IS TO GO ALL THE WAY AROUND PIER CAP.

PIER NOTES

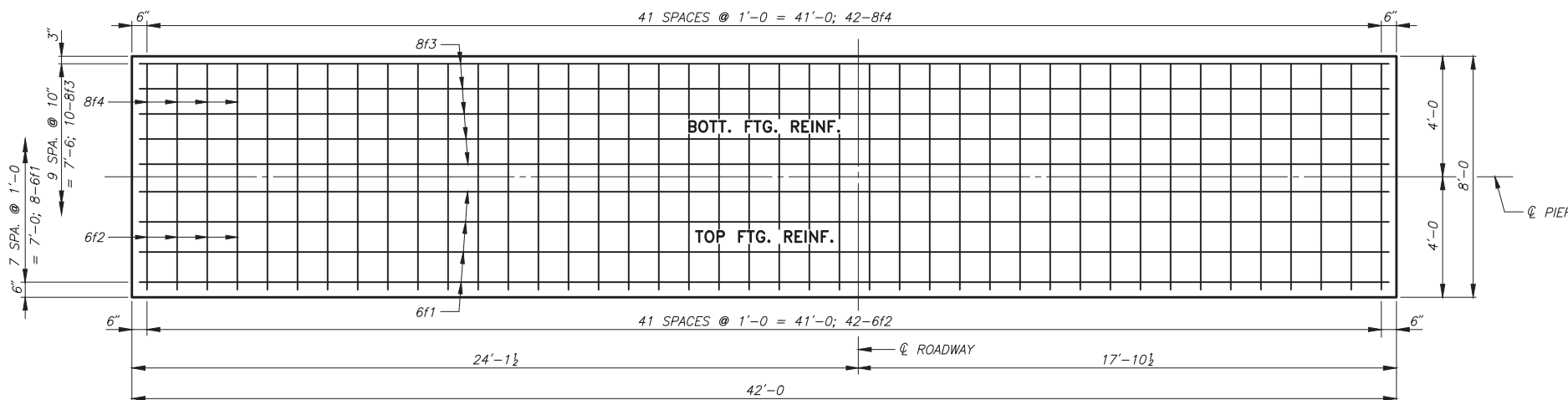
- MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.
- ALL REINFORCING STEEL TO BE SECURELY WIRED IN PLACE AND ADEQUATELY SUPPORTED BEFORE CONCRETE IS POURED.
- ALL REINFORCING STEEL IS TO BE GRADE 60.
- ALL EXPOSED CORNERS 90° OR SHARPER ARE TO BE FILLETED WITH A 3/4" DRESSED AND BEVELED STRIP.
- CONSTRUCTION JOINT KEYWAYS ARE TO BE FORMED WITH BEVELED AS SPECIFIED.
- THE FOOTING SHALL BE FOUNDED IN SOLID LIMESTONE BEDROCK AS DETAILED IN THE PLANS. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 24 KIPS PER SQUARE FOOT (ALLOWABLE SERVICE LOAD BEARING VALUE OF AT LEAST 8 KIPS PER SQUARE FOOT). FOOTING DESIGNED TO MINIMIZE UPLIFT.
- EXCAVATION FOR PIER FOOTINGS AND PLACEMENT OF PIER FOOTING CONCRETE ARE TO BE PERFORMED IN AS DRY OF CONDITIONS AS PRACTICABLE, USING COFFERDAMS, PUMPS, OR OTHER SUITABLE MEASURES TO ASSURE SUCH CONDITIONS IN ACCORDANCE WITH SECTION 2405 AND SUPPLEMENTAL SPECIFICATIONS. THE COST OF ALL PIER EXCAVATION AND DEWATERING IS TO BE INCLUDED IN THE LUMP SUM BID FOR "EXCAVATION, CLASS 21". THE NEW PIER FOOTING SHALL BE KEYED A MINIMUM OF 1'-0" INTO SOUND BEDROCK. THE FINAL 1'-0" OF BEDROCK EXCAVATION IS TO BE NEAT LINES AS SHOWN IN THE PLANS.
- THE CONTRACTOR AND ENGINEER ARE TO VERIFY THAT THE BEDROCK IS LOCATED AS SHOWN ON THE SOUNDING DATA DETAILED ON THE PLANS. DIFFERENCES WHICH CAUSE CHANGES IN BOTTOM OF FOOTING ELEVATIONS MAY BE CAUSE FOR DESIGN CHANGES. THE ENGINEER WILL RETAIN A QUALIFIED GEOTECHNICAL ENGINEER FOR REVIEW. AFTER EXCAVATING TO WITHIN 6" OF THE DESIGN FOOTING ELEVATION, AT LEAST TWO (2) PROBE HOLES ARE TO BE DRILLED BY THE CONTRACTOR INTO ROCK AT THE BASE OF THE FOOTING EXCAVATION UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE PROBE HOLES SHOULD EXTEND AT LEAST 3'-6" INTO THE ROCK. IF LAYERS UNABLE TO WITHSTAND THE DESIGN BEARING ARE ENCOUNTERED WITHIN THE PROBE LIMITS, THE FOOTING MAY NEED TO BE LOWERED TO SUITABLE BEDROCK. THE PROBE HOLES SHALL BE GROUTED BY THE CONTRACTOR AFTER THE GEOTECHNICAL ENGINEER HAS COMPLETED VERIFICATION OF THE BEARING CAPACITY. COST OF DRILLING THE PROBE HOLES AND GROUTING, INCLUDING EQUIPMENT AND ALL LABOR IS TO BE INCLUDED IN PRICE BID FOR "EXCAVATION, CLASS 22".

167'-0" x 28'-0" CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0" SIDEWALK

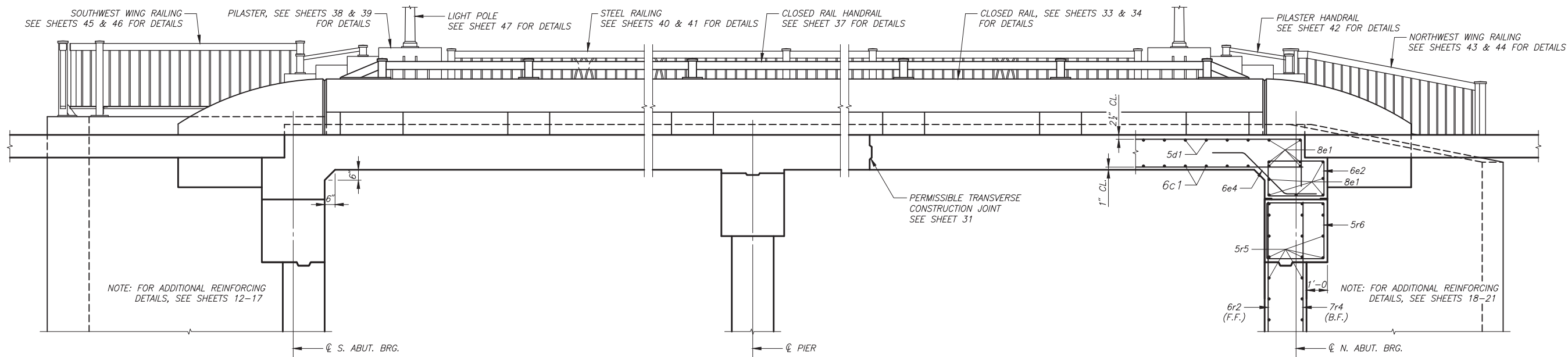
HIGH CONCRETE ABUTMENTS 36'-6" END SPANS DIAPHRAGM PIERS 47'-0" INTERIOR SPANS

PIER DETAILS

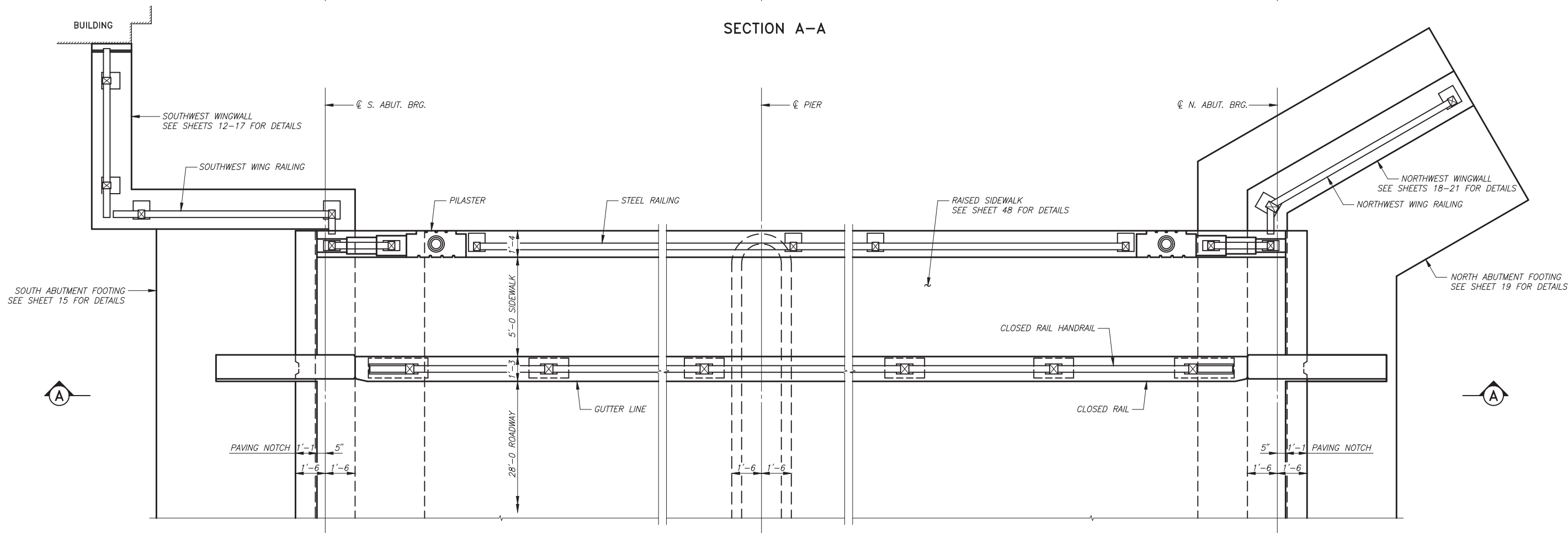
STATION 10+00.00 CITY OF ALDEN, IOWA 0° SKEW IOWA



TYPICAL FOOTING DETAIL - PLAN



SECTION A-A



PART PLAN
(SHOWN WEST SIDE)

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

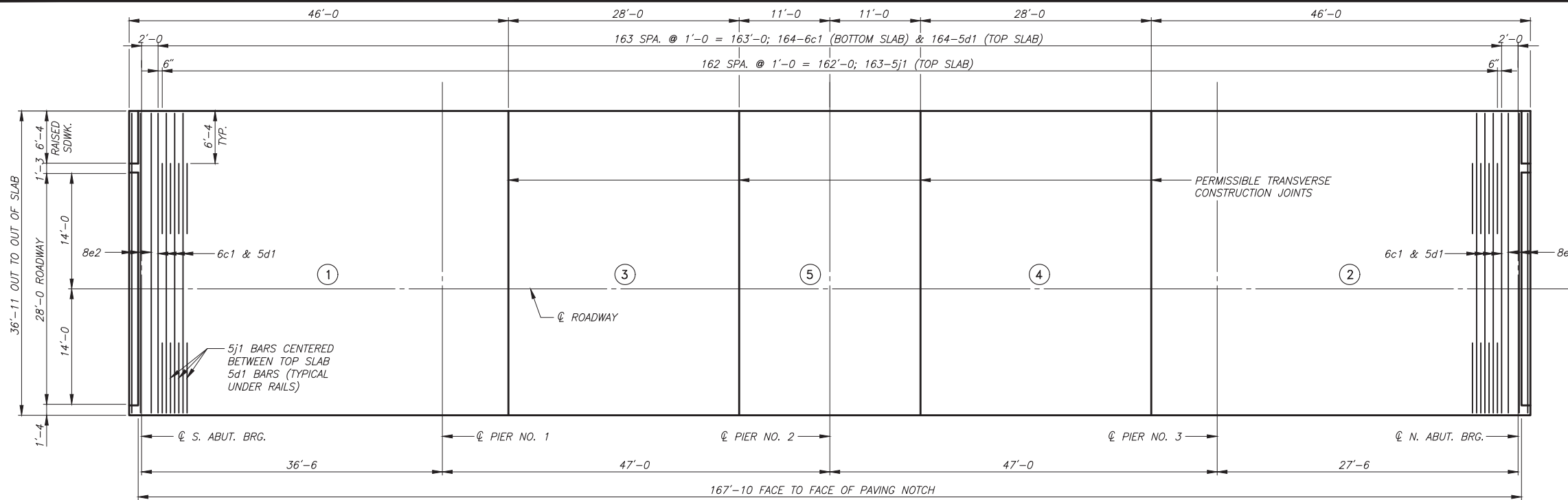
DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

SUPERSTRUCTURE DETAILS

STATION 10+00.00
CITY OF ALDEN,

0° SKEW
IOWA

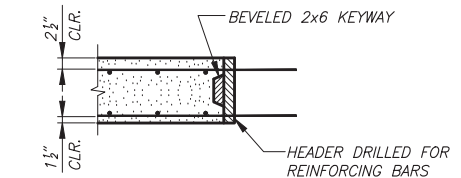
BENCH MARK: CP #1, CUT 'X', STA. 8+19, 26' RT. ELEV.= 1110.25
 CP #2, 1/2" REBAR, STA. 11+15, 41' LT. ELEV.= 1112.69



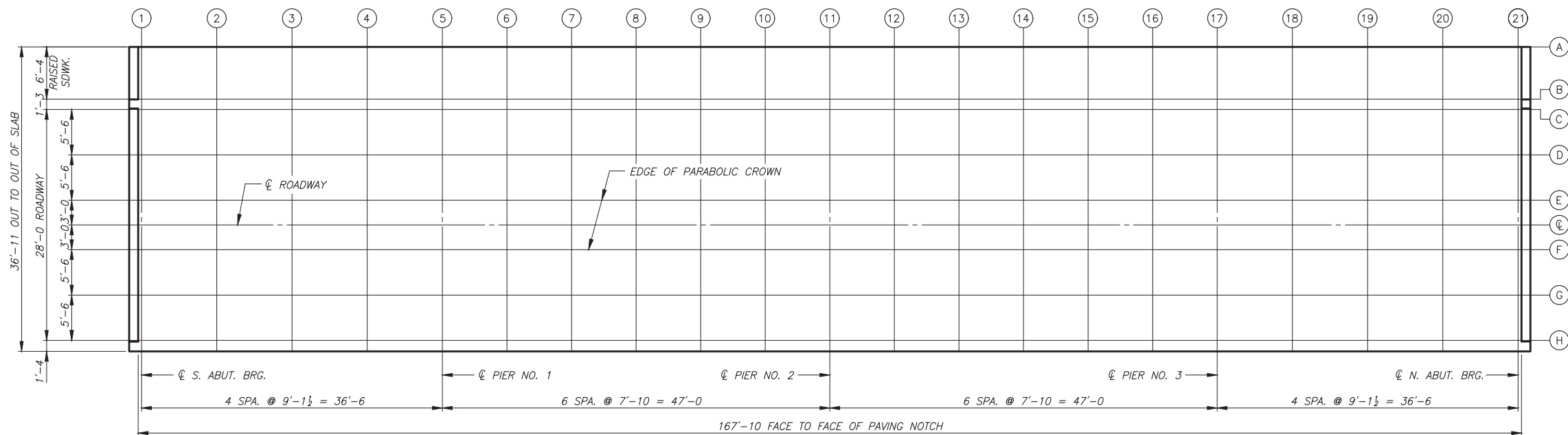
CONCRETE PLACEMENT DIAGRAM AND TRANSVERSE REINFORCING LAYOUT

NOTE: SEE SHEETS 12 & 18 FOR PAVING NOTCH LAYOUT.

	CL S. ABUT. BRG.	CL BEARING PIER #1				CL BEARING PIER #2						CL BEARING PIER #3				CL N. ABUT. BRG.						
LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	LOCATION
A	1111.94	1111.98	1112.01	1112.05	1112.09	1112.12	1112.15	1112.18	1112.21	1112.22	1112.23	1112.23	1112.22	1112.19	1112.16	1112.12	1112.07	1112.00	1111.92	1111.83	1111.72	A
B	1111.94	1111.98	1112.01	1112.05	1112.09	1112.12	1112.15	1112.18	1112.21	1112.22	1112.23	1112.23	1112.22	1112.19	1112.16	1112.12	1112.07	1112.00	1111.92	1111.83	1111.72	B
C	1111.97	1112.01	1112.04	1112.08	1112.12	1112.15	1112.18	1112.21	1112.24	1112.25	1112.26	1112.26	1112.25	1112.22	1112.19	1112.15	1112.10	1112.03	1111.95	1111.86	1111.75	C
D	1112.08	1112.12	1112.15	1112.19	1112.23	1112.26	1112.29	1112.32	1112.35	1112.36	1112.37	1112.37	1112.36	1112.33	1112.30	1112.26	1112.21	1112.14	1112.06	1111.97	1111.86	D
E	1112.22	1112.26	1112.29	1112.33	1112.37	1112.40	1112.43	1112.46	1112.49	1112.50	1112.51	1112.51	1112.50	1112.47	1112.44	1112.40	1112.35	1112.28	1112.20	1112.11	1112.00	E
F	1112.19	1112.23	1112.26	1112.30	1112.34	1112.37	1112.40	1112.43	1112.46	1112.47	1112.48	1112.48	1112.47	1112.44	1112.41	1112.37	1112.32	1112.25	1112.17	1112.08	1111.97	F
G	1112.08	1112.12	1112.15	1112.19	1112.23	1112.26	1112.29	1112.32	1112.35	1112.36	1112.37	1112.37	1112.36	1112.33	1112.30	1112.26	1112.21	1112.14	1112.06	1111.97	1111.86	G
H	1111.97	1112.01	1112.04	1112.08	1112.12	1112.15	1112.18	1112.21	1112.24	1112.25	1112.26	1112.26	1112.25	1112.22	1112.19	1112.15	1112.10	1112.03	1111.95	1111.86	1111.75	H



TRANSVERSE CONSTRUCTION JOINT DETAIL



TOP OF SLAB ELEVATIONS

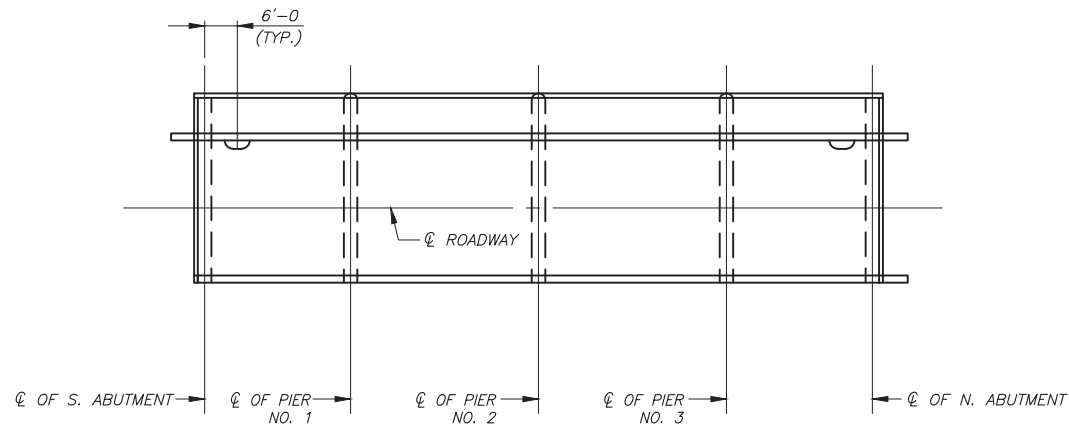
NOTE: SEE SHEETS 12 & 18 FOR PAVING NOTCH LAYOUT.

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

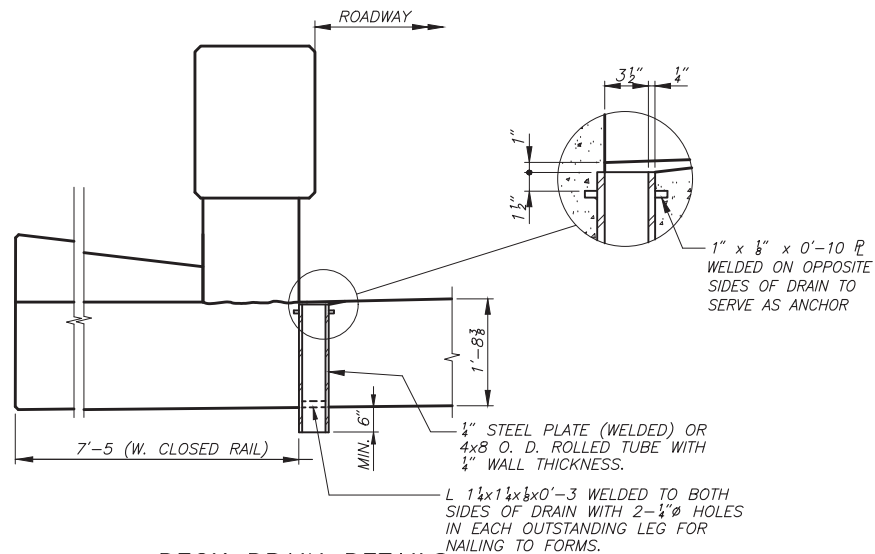
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SUPERSTRUCTURE DETAILS

STATION 10+00.00
 CITY OF ALDEN, IOWA
 0° SKEW

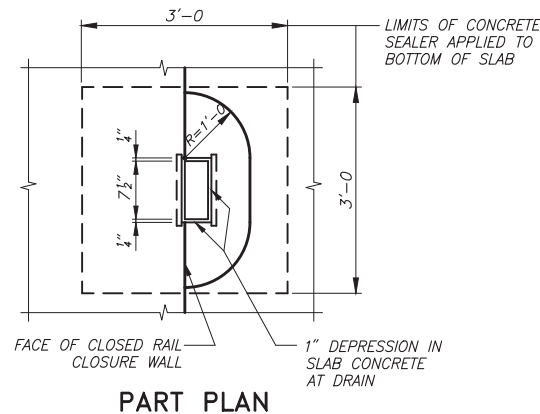


FLOOR DRAIN LOCATIONS



DECK DRAIN DETAILS

NOTE:
DRAINS ARE TO BE GALVANIZED AFTER FABRICATION. SEE DECK DRAIN LAYOUT FOR LOCATIONS. COST OF DRAINS IS INCLUDED IN THE QUANTITY FOR "STRUCTURAL CONCRETE (BRIDGE)". WEIGHT IS BASED ON ROLLED TUBE.



PART PLAN

SUPERSTRUCTURE NOTES

THIS BRIDGE SUPERSTRUCTURE IS DESIGNED FOR HL93 LOADING PLUS AN ALLOWANCE OF 20 POUNDS PER SQUARE FOOT OF ROADWAY FOR FUTURE WEARING SURFACE.

THE SLAB AS SHOWN INCLUDES A 1/2" INTEGRAL WEARING SURFACE. COST OF ALL PREFORMED EXPANSION JOINT FILLER AND TAR PAPER MATERIAL IS TO BE INCLUDED IN THE PRICE BID FOR "STRUCTURAL CONCRETE (BRIDGE)".

ALL EXPOSED CORNERS OF 90 DEGREES OR SHARPER ARE TO BE FORMED WITH A 3/4" DRESSED AND BEVELED STRIP.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

ALL REINFORCING STEEL IS TO BE SECURELY WIRED IN PLACE AND ADEQUATELY SUPPORTED BEFORE CONCRETE IS POURED.

THE TOP MAT OF REINFORCING STEEL IS TO BE PARALLEL AND 2 1/2" CLEAR BELOW TOP OF SLAB. THE BOTTOM MAT OF REINFORCING STEEL IS TO BE PARALLEL AND 1 1/2" CLEAR ABOVE BOTTOM OF SLAB. TOP AND BOTTOM REINFORCING STEEL IS TO BE SUPPORTED BY INDIVIDUAL BAR CHAIRS SPACED AT NOT MORE THAN 3'-0" CENTERS LONGITUDINALLY AND TRANSVERSELY, OR BY CONTINUOUS ROWS OF HIGH CHAIRS OR SLAB BOLSTERS SPACED 4'-0" APART. I.M. 451.01 REQUIREMENTS SHALL APPLY FOR BAR CHAIRS, BAR HIGH CHAIRS, AND SLAB BOLSTERS.

ALL REINFORCING STEEL IS TO BE GRADE 60 AND EPOXY COATED.

THE CONCRETE SLAB IS TO BE PLACED WITH A MINIMUM OF CONSTRUCTION JOINTS. PROCEDURES FOR PLACING SLAB CONCRETE SHALL BE SUBMITTED FOR APPROVAL TOGETHER WITH A STATEMENT OF PROPOSED METHOD AND EVIDENCE THAT THE CONTRACTOR POSSESSES THE NECESSARY EQUIPMENT AND FACILITIES TO ACCOMPLISH THE REQUIRED RESULT.

SLAB FALSEWORK SHALL BE REMOVED PRIOR TO CONSTRUCTION OF THE RAILS AND RAISED SIDEWALK.

DATA FOR DRAINS	
SLAB THICKNESS	1'-8 3/8"
LENGTH (FT.)	2'-2 3/8"
WEIGHT OF ONE DRAIN (LBS.)	43
NUMBER OF DRAINS	2
STRUCTURAL STEEL (LBS.)	86

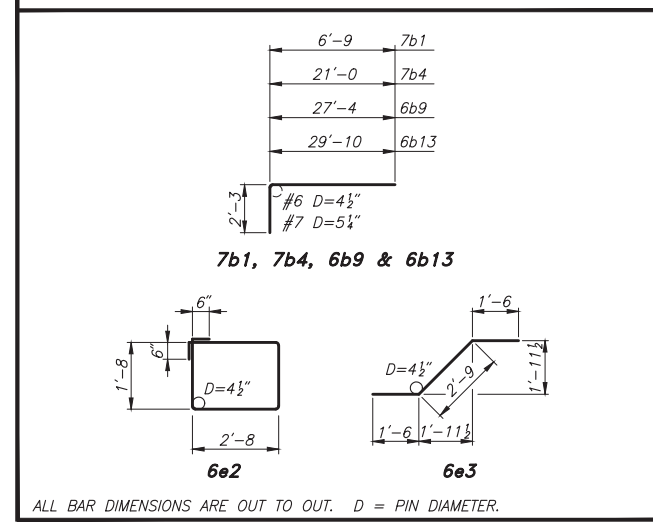
CONCRETE PLACEMENT QUANT. - SUPERSTR.

LOCATION	UNIT	QUANTITY
SLAB, SECTIONS ① & ② ; 2 @ 110.1	CU.YDS.	220.2
SLAB, SECTIONS ③ & ④ ; 2 @ 64.7	CU.YDS.	129.4
SLAB, SECTION ⑤	CU.YDS.	52.4
RAISED SIDEWALK, SEE SHEET 48	CU.YDS.	21.8
SOUTHWEST APPROACH SIDEWALK SLAB, SEE SHEET 51	CU.YDS.	1.6
NORTHWEST APPROACH SIDEWALK SLAB, SEE SHEET 52	CU.YDS.	2.3
SIDEWALK PILASTERS, SEE SHEET 39	CU.YDS.	1.8
TOTAL	CU.YDS.	429.5

ESTIMATED QUANTITIES - SUPERSTRUCTURE

LOCATION	UNIT	QUANTITY
STRUCTURAL CONCRETE (BRIDGE)	CU.YDS.	429.5
REINFORCING STEEL, EPOXY COATED	LBS.	105,608
REINFORCING STEEL, STAINLESS STEEL	LBS.	44

BENT BAR DETAILS



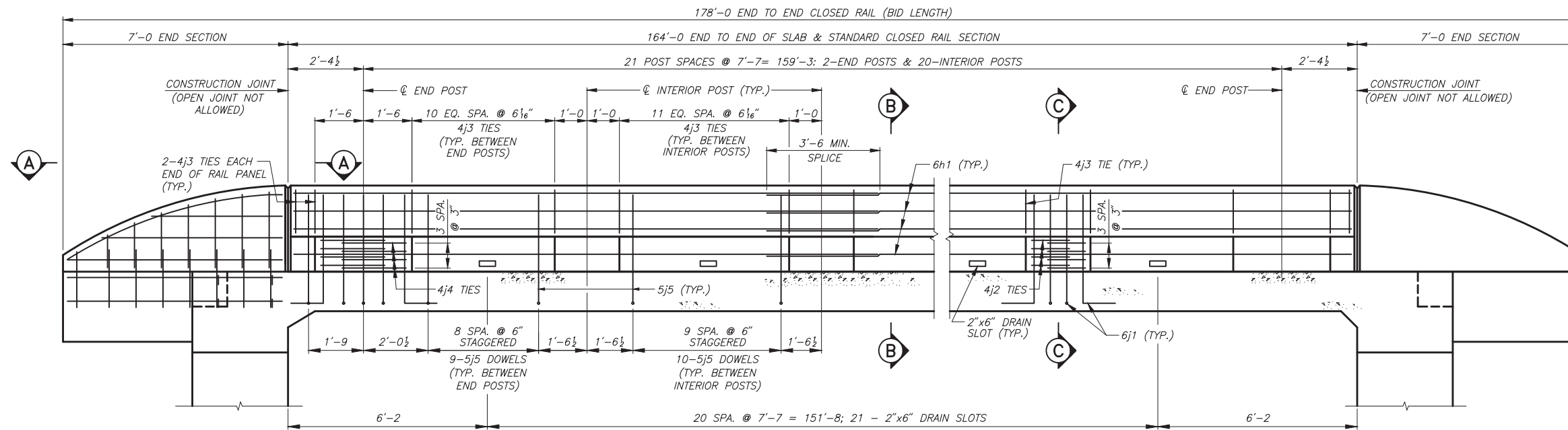
REINFORCING BAR LIST - SUPERSTRUCTURE					
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
Δ 9a1	SLAB, LONGITUDINAL, BOTTOM	—	44	27'-0	4,039
Δ 9a2	SLAB, LONGITUDINAL, BOTTOM	—	88	41'-3	12,342
Δ 9a3	SLAB, LONGITUDINAL, BOTTOM	—	44	38'-9	5,797
Δ 8a4	SLAB, LONGITUDINAL, BOTTOM	—	44	29'-3	3,436
Δ 9a5	SLAB, LONGITUDINAL, BOTTOM	—	44	36'-6	5,460
Δ 9a7	SLAB, LONGIT., BOT., AT EDGE	—	8	36'-1	981
Δ 9a8	SLAB, LONGIT., BOT., AT EDGE	—	12	16'-2	660
Δ 9a9	SLAB, LONGIT., BOT., AT EDGE	—	8	45'-8	1,242
Δ 8a10	SLAB, LONGIT., BOT., AT EDGE	—	8	25'-6	545
Δ 8a11	SLAB, LONGIT., BOT., AT EDGE	—	8	25'-6	545
Δ 7b1	SLAB, LONGITUDINAL, TOP	—	44	9'-0	809
Δ 10b2	SLAB, LONGITUDINAL, TOP	—	44	29'-6	5,585
Δ 10b3	SLAB, LONGITUDINAL, TOP	—	88	26'-9	10,129
Δ 7b4	SLAB, LONGITUDINAL, TOP	—	44	23'-3	2,091
Δ 11b5	SLAB, LONGITUDINAL, TOP	—	44	31'-3	7,305
Δ 6b6	SLAB, LONGITUDINAL, TOP	—	44	29'-2	1,928
Δ 11b7	SLAB, LONGITUDINAL, TOP	—	22	26'-0	3,039
Δ 6b9	SLAB, LONGITUDINAL, TOP, AT EDGE	—	8	29'-7	355
Δ 10b10	SLAB, LONGITUDINAL, TOP, AT EDGE	—	8	29'-0	998
Δ 6b11	SLAB, LONGITUDINAL, TOP, AT EDGE	—	8	24'-2	290
Δ 10b12	SLAB, LONGITUDINAL, TOP, AT EDGE	—	4	31'-0	534
Δ 6b13	SLAB, LONGITUDINAL, TOP, AT EDGE	—	8	32'-1	385
Δ 11b14	SLAB, LONGITUDINAL, TOP, AT EDGE	—	8	23'-0	978
Δ 11b15	SLAB, LONGITUDINAL, TOP, AT EDGE	—	4	24'-0	510
Δ 6c1	SLAB, TRANSVERSE, BOTTOM	—	164	36'-7	9,011
Δ 5d1	SLAB, TRANSVERSE, TOP	—	164	36'-7	6,258
Δ 8e1	SLAB, TRANSVERSE, AT ABUTMENTS	—	14	36'-7	1,367
Δ 6e2	SLAB, HAIRPINS, AT ABUTMENTS	—	70	9'-8	1,016
Δ 6e3	SLAB, DIAGONALS, AT ABUTMENTS	—	70	5'-9	605
Δ 5j1	SLAB, TRANSVERSE, TOP, UNDER RAIL	—	326	8'-6	2,890
Δ	OPEN RAIL (EAST RAIL), SEE SHEET 36				4,760
Δ	CLOSED RAIL (WEST RAIL), SEE SHEET 34				6,296
Δ	RAISED SIDEWALK, SEE SHEET 48				2,355
Δ	SOUTHWEST APPROACH SIDEWALK SLAB, SEE SHEET 51				155
*	SOUTHWEST APPROACH SIDEWALK SLAB, SEE SHEET 51				22
Δ	NORTHWEST APPROACH SIDEWALK SLAB, SEE SHEET 52				206
*	NORTHWEST APPROACH SIDEWALK SLAB, SEE SHEET 52				22
Δ	SIDEWALK PILASTERS, SEE SHEET 39				706
* STAINLESS STEEL	STAINLESS STEEL TOTAL (LBS.)				44
Δ EPOXY COATED	EPOXY COATED TOTAL (LBS.)				105,608

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

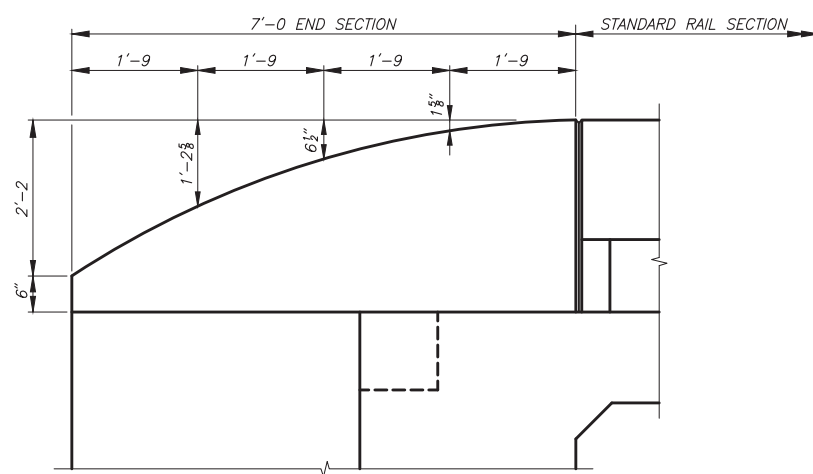
SUPERSTRUCTURE DETAILS

STATION 10+00.00 0° SKEW
CITY OF ALDEN, IOWA

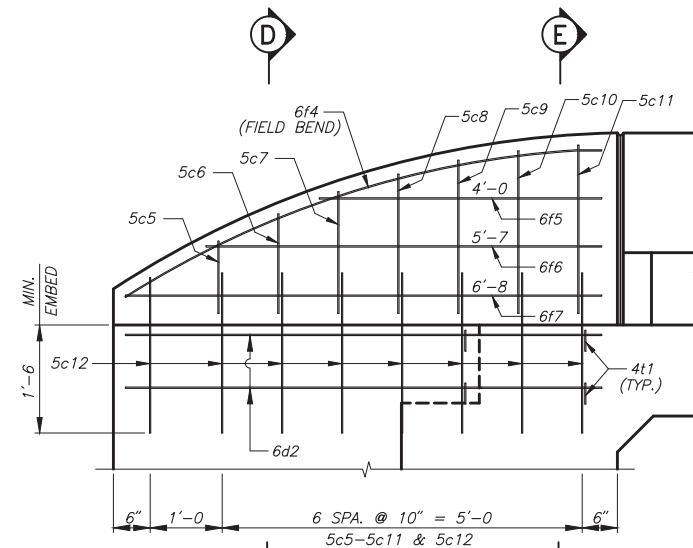


ELEVATION OF WEST RAIL

NOTE: HANDRAIL NOT SHOWN
(LOOKING WEST)

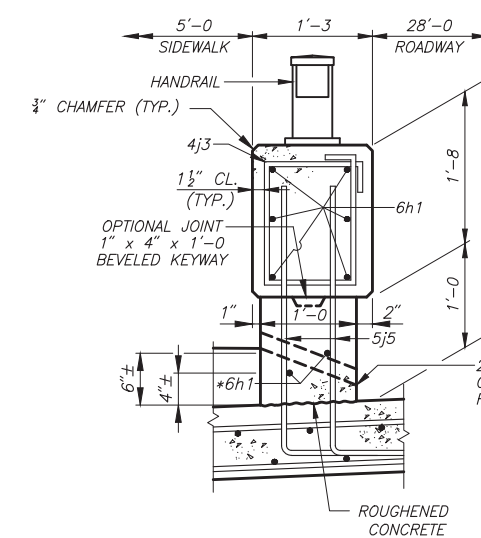


PART ELEVATION



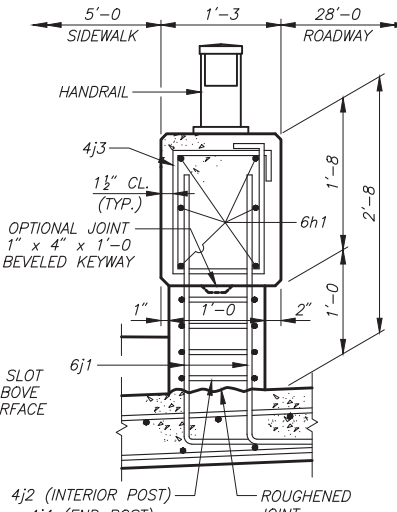
PART ELEVATION (REINFORCING DETAIL)

(REINFORCING DETAIL)

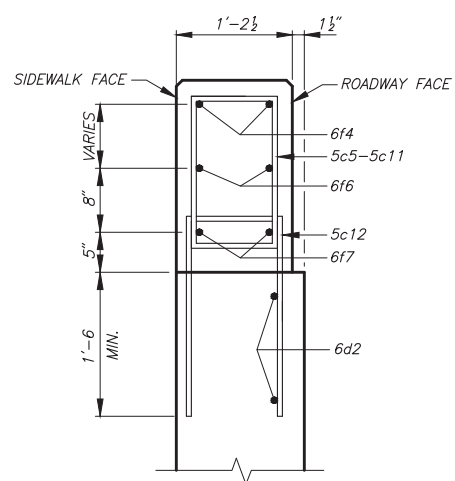


SECTION B-B

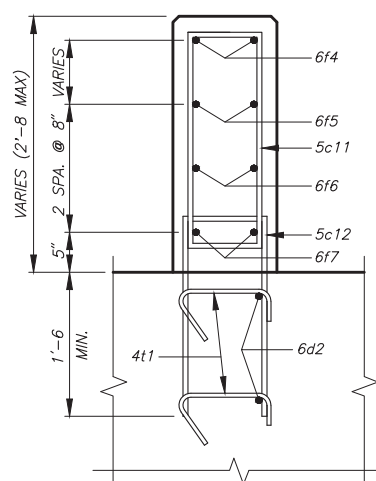
*ADJUST 6h1 BARS TO CLEAR DRAIN SLOTS



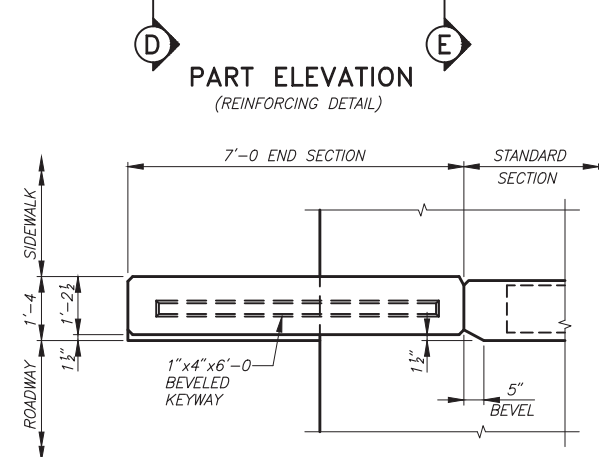
SECTION C-C



SECTION D-D

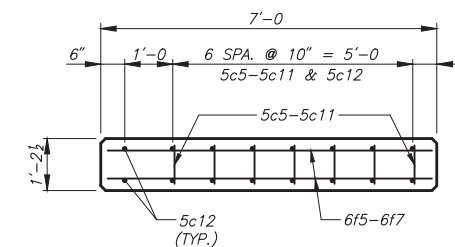


SECTION E-E



PART PLAN A-A

(SHOWN SOUTH ABUTMENT, NORTH ABUTMENT SIMILAR)
NOTE: SEE ABUTMENT DETAILS FOR ADDITIONAL WING REINFORCING



END SECTION PLAN

**167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK**

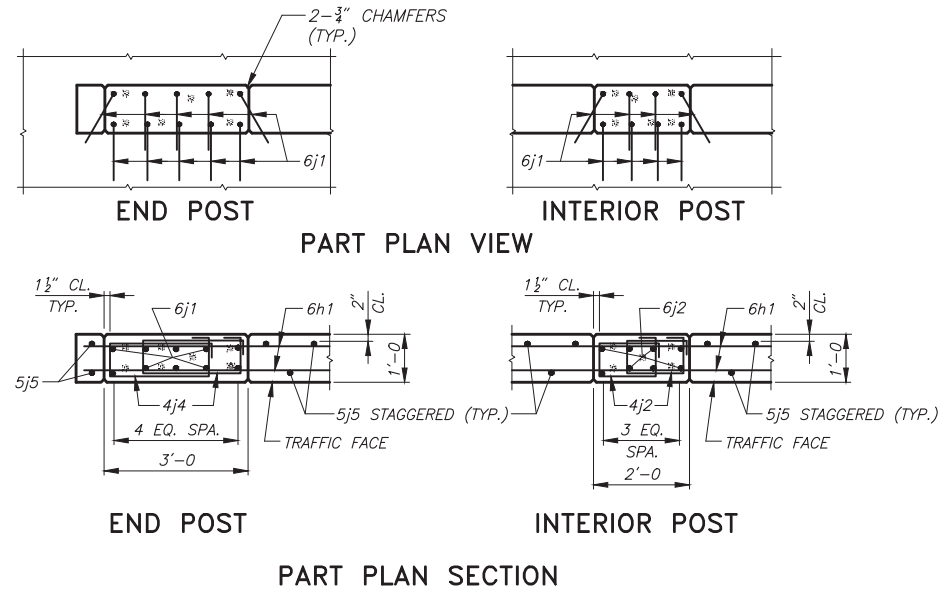
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

WEST CLOSED RAIL DETAILS

STATION 10+00.00
CITY OF ALDEN,

0° SKEW
IOWA



CONCRETE PLACEMENT SUMMARY – WEST RAIL	
SECTION	TOTAL
STANDARD SECTION	12.7
CLOSURE WALL	4.4
END SECTIONS (2 @ 0.61 C.Y.)	1.2
INTERIOR POSTS (20 @ 0.074 C.Y.)	1.5
END POSTS (2 @ 0.111 C.Y.)	0.2
TOTAL (C.Y.)	
20.0	

CONCRETE CLOSED RAIL QUANTITIES – W. RAIL		
ITEM	UNIT	QUANTITY
CONCRETE CLOSED RAILING, TL-4	L.F.	178.00

CLOSED RAIL NOTES

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

THE CONCRETE CLOSED RAIL IS TO BE BID ON A LINEAL FOOT BASIS MEASURED FROM END TO END OF RAIL. THE NUMBER OF LINEAL FEET OF OPEN RAIL INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT. PRICE BID FOR "CONCRETE OPEN RAILING, TL-4" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, EXCLUDING REINFORCING STEEL, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO CONSTRUCT THE RAIL IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS.

ALL CLOSED RAIL REINFORCING STEEL IS TO BE GRADE 60 AND EPOXY COATED, AND IS INCLUDED WITH THE SUPERSTRUCTURE REINFORCING STEEL.

THE CAST-IN-PLACE CLOSED RAIL SHALL USE CLASS C MIX. CLASS D CONCRETE IS NOT PERMITTED.

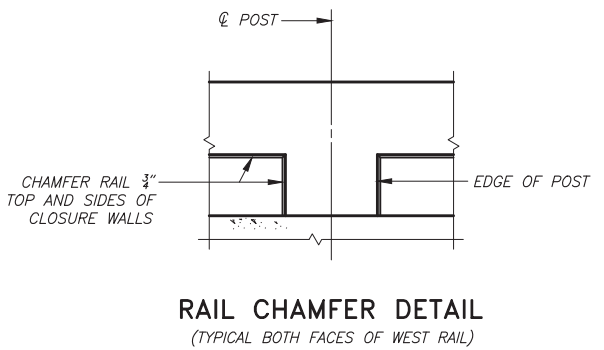
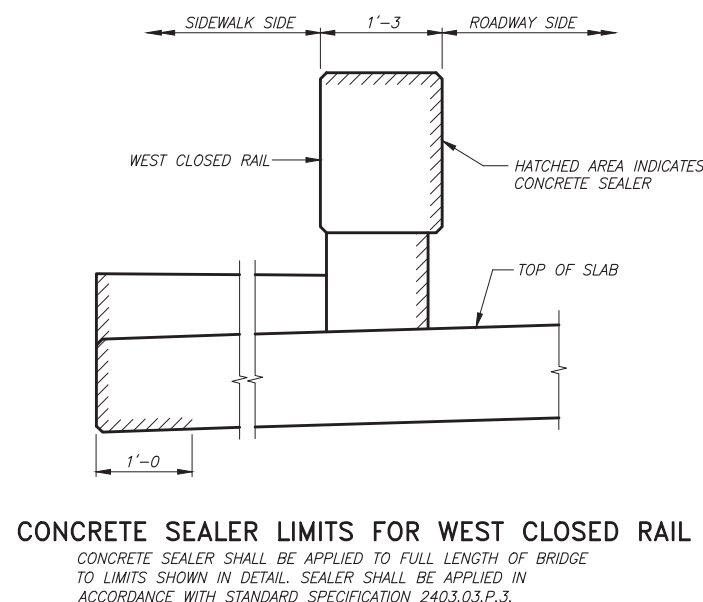
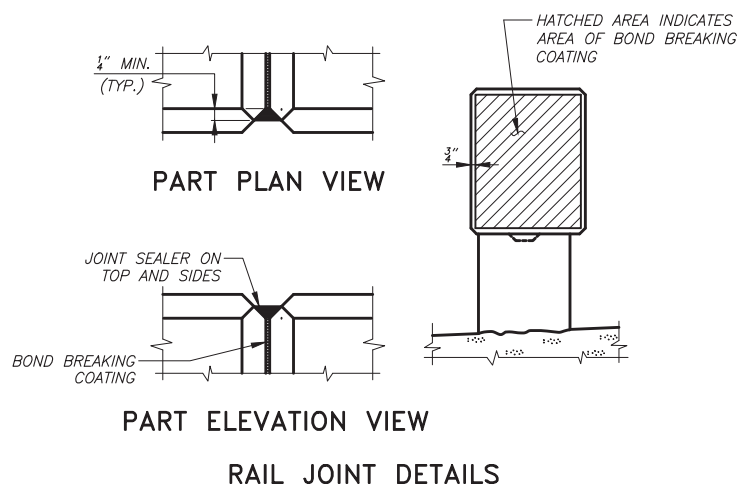
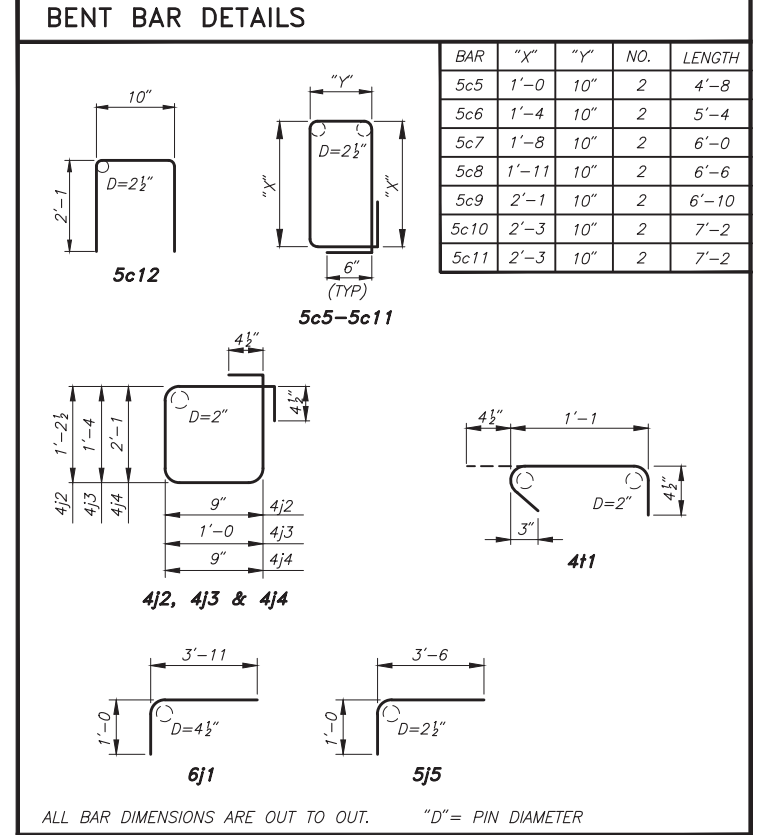
ALL EXPOSED CORNERS OF 90 DEGREE OR SHARPER ARE TO BE FILLETED WITH A 3/4" DRESSED AND BEVELED STRIP.

THE JOINT SEALER SHALL BE LIGHT GRAY NONSAG LATEX CAULKING SEALER MARKETED FOR OUTDOOR USE. NO TESTING OR CERTIFICATION IS REQUIRED.

COST OF THE JOINT SEALER AND BOND BREAKER SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.

TOP OF THE CLOSED RAIL IS TO BE PARALLEL TO THEORETICAL CL GRADE.

REINFORCING BAR LIST – WEST CLOSED RAIL						
SECTION	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
2 END SECTIONS	5c5-11	VERTICAL, HOOPS	□	14	SHOWN	91
	5c12	RAIL TO WING, DOWELS	⊏	16	5'-0	83
	6d2	LONGITUDINAL	—	4	6'-8	40
	6f4	LONGITUDINAL, TOP	—	4	7'-0	42
	6f5	LONGITUDINAL	—	4	4'-0	24
	6f6	LONGITUDINAL	—	4	5'-7	34
	6f7	LONGITUDINAL	—	4	6'-8	40
STANDARD SECTION	4t1	WING FOOTING TIE BARS	⊏	8	1'-10	10
	6h1	RAIL, HORIZONTAL	—	40	35'-7	2,138
	6j1	RAIL POSTS, VERTICAL DOWELS	⊏	180	4'-11	1,330
	4j2	INTERIOR RAIL POSTS, HOOPS	□	160	4'-8	499
	4j3	OPEN RAIL, HOOPS	□	254	5'-5	920
	4j4	END RAIL POSTS, HOOPS	□	16	6'-5	69
5j5	RAIL VERTICAL, DOWELS	⊏	208	4'-6	976	
INCLUDE WITH SUPERSTRUCTURE REINFORCING					TOTAL (LBS.)	6,296



167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

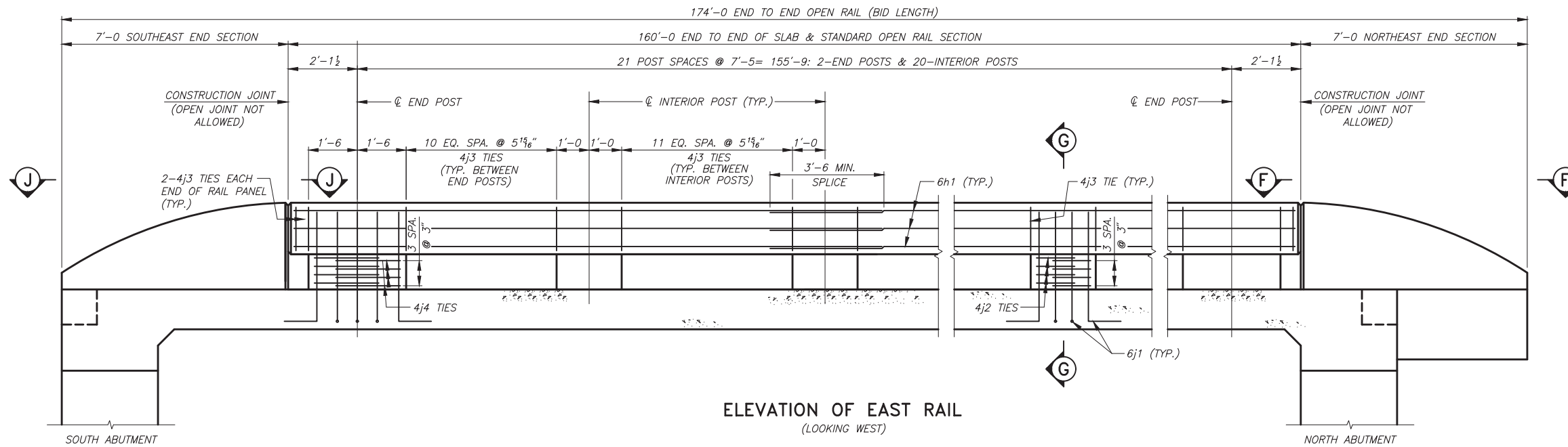
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS

DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

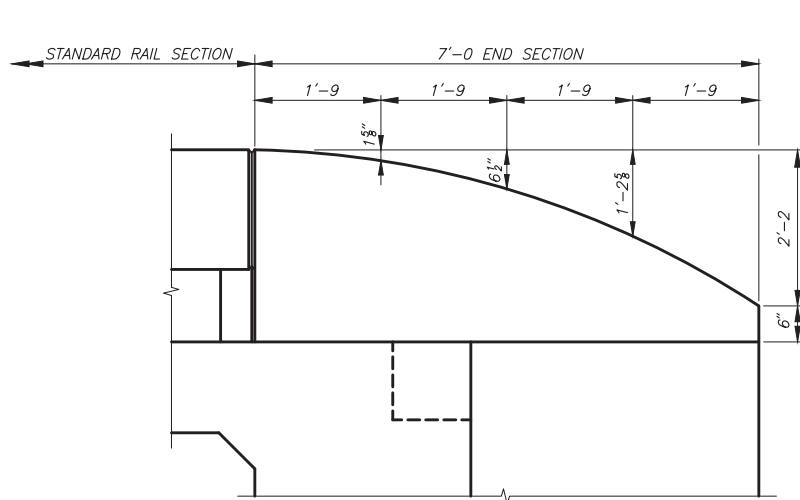
WEST CLOSED RAIL DETAILS

STATION 10+00.00
CITY OF ALDEN, IOWA

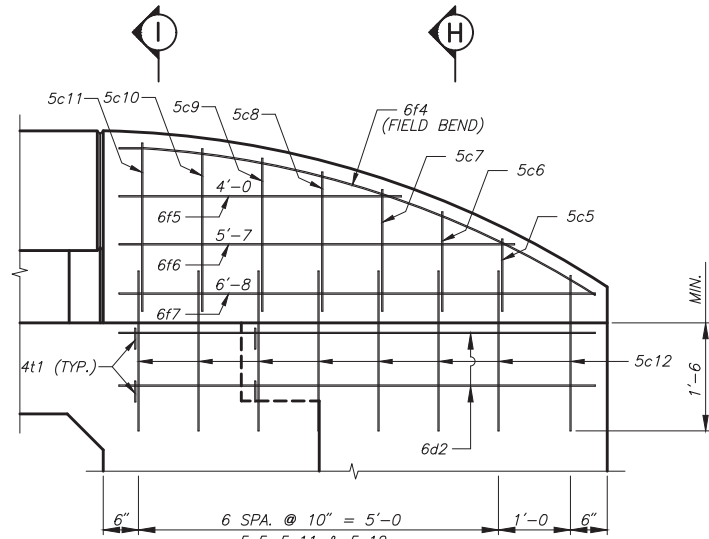
0° SKEW
IOWA



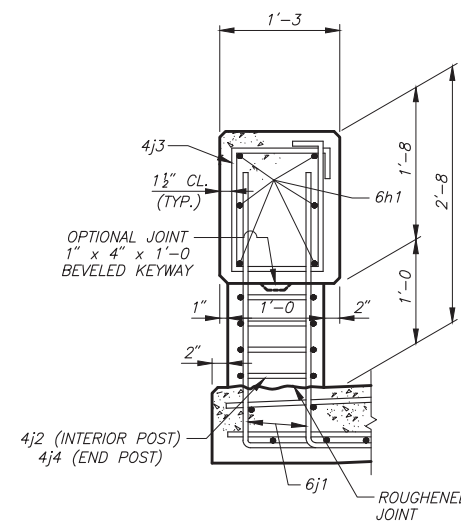
ELEVATION OF EAST RAIL
(LOOKING WEST)



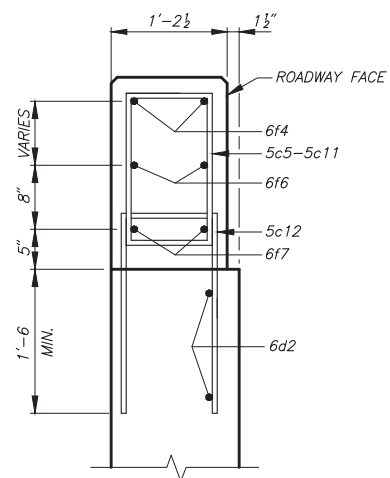
PART ELEVATION



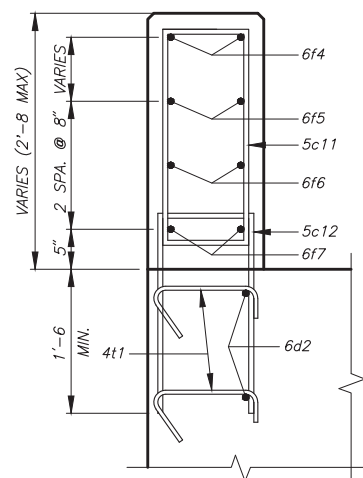
NORTHEAST PART ELEVATION
(REINFORCING DETAIL)



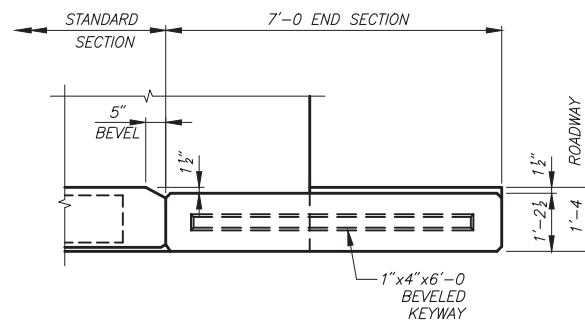
SECTION G-G



SECTION H-H

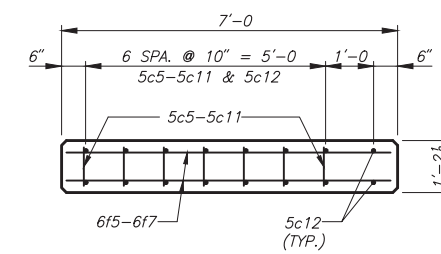


SECTION I-I



PART PLAN F-F

NOTE: SEE ABUTMENT DETAILS FOR ADDITIONAL WING REINFORCING



NORTHEAST END SECTION PLAN

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

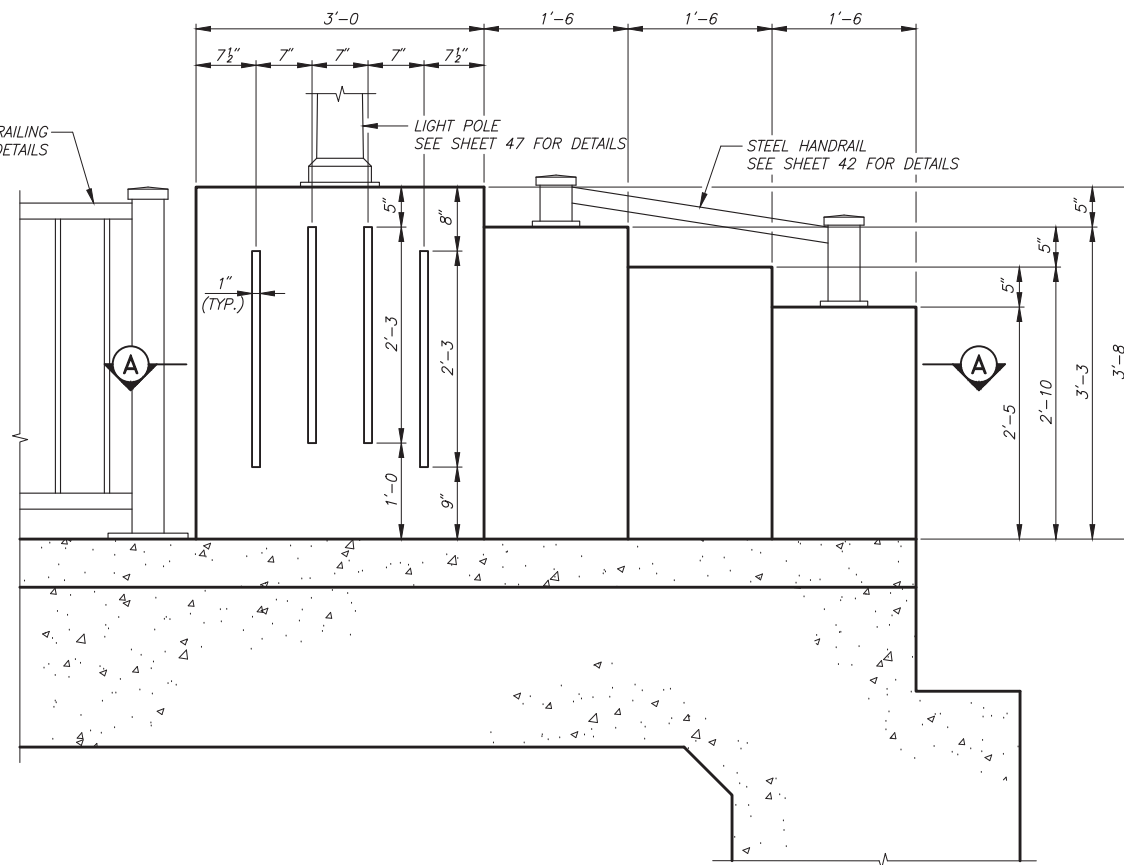
DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

EAST OPEN RAIL DETAILS

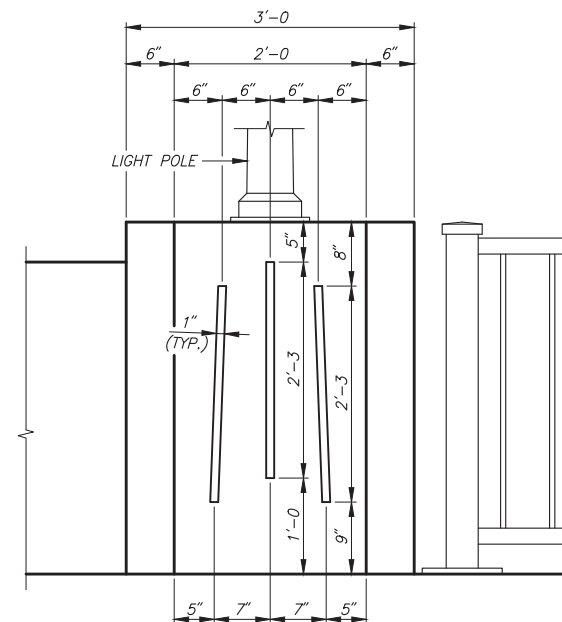
STATION 10+00.00
CITY OF ALDEN,

0° SKEW
IOWA

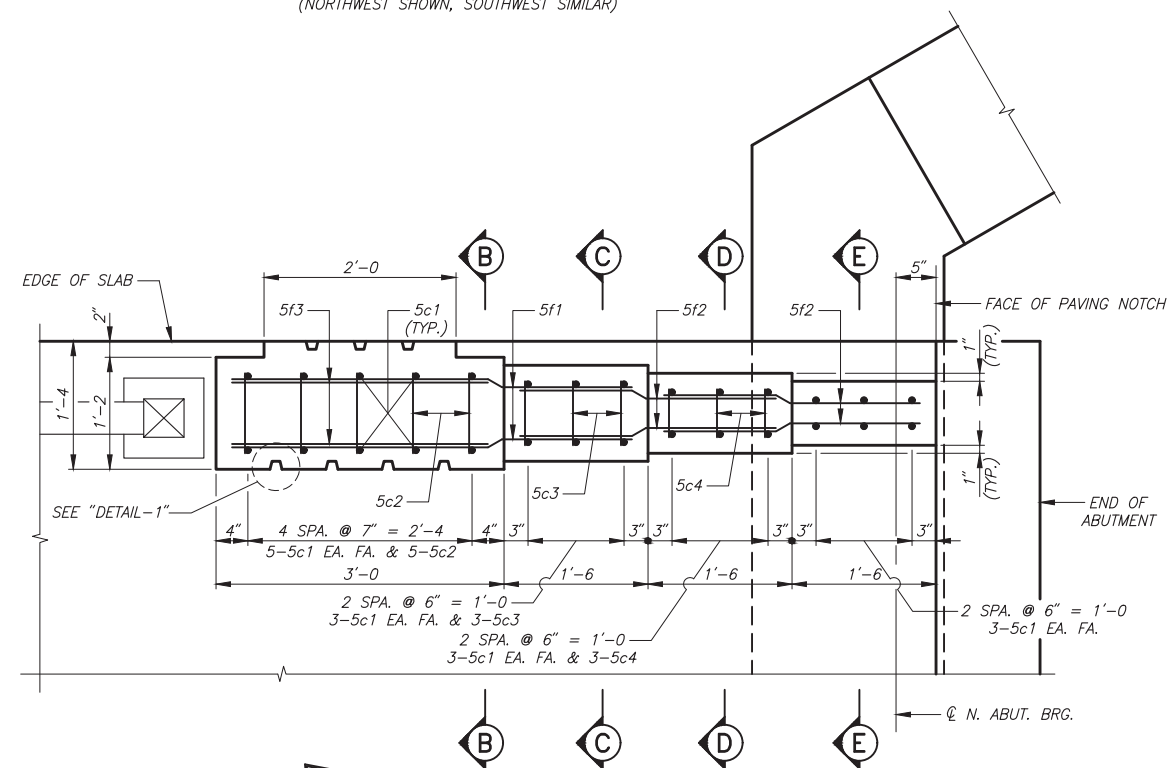
STEEL RAILING
SEE SHEETS 40 & 41 FOR DETAILS



SIDEWALK PILASTER ELEVATION
(LOOKING WEST - FRONT FACE)
(NORTHWEST SHOWN, SOUTHWEST SIMILAR)

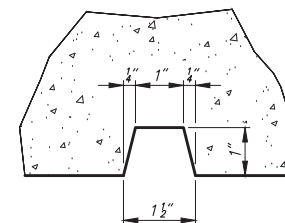


SIDEWALK PILASTER ELEVATION
(LOOKING EAST - BACK FACE)
(NORTHWEST SHOWN, SOUTHWEST SIMILAR)



SECTION A-A

NOTE: SEE SHEET 39 FOR SECTION B-B, SECTION C-C, SECTION D-D & SECTION E-E.



DETAIL-1

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

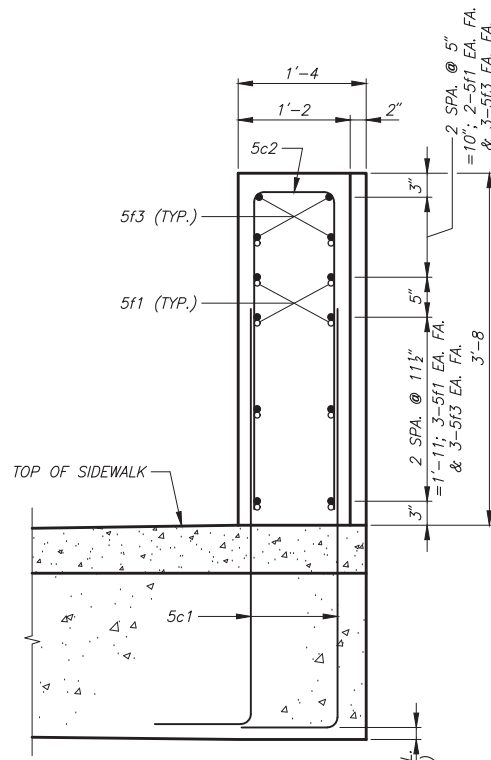
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

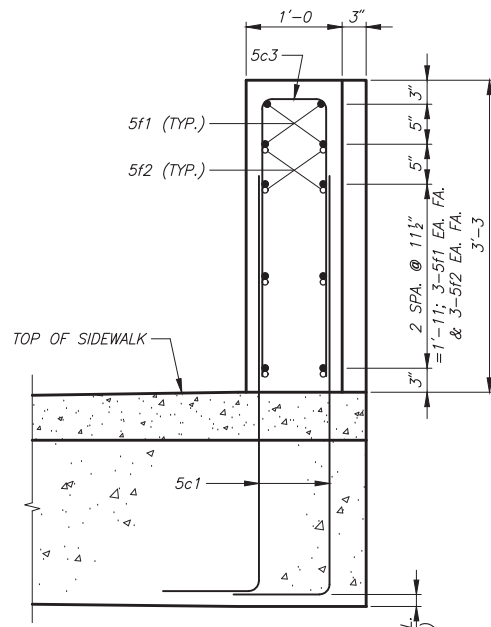
SIDEWALK PILASTER DETAILS

STATION 10+00.00
CITY OF ALDEN,

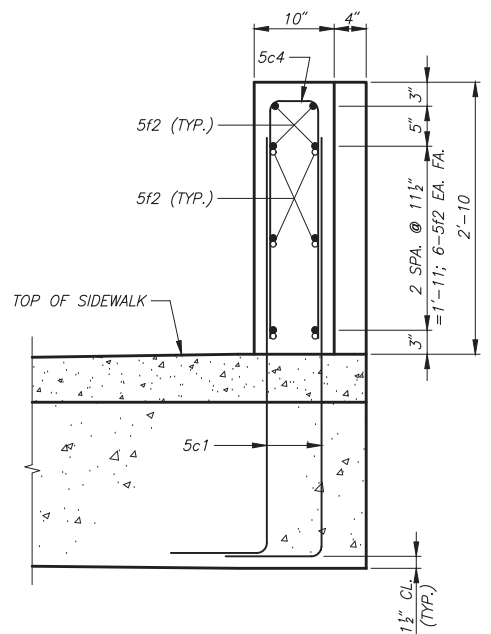
0° SKEW
IOWA



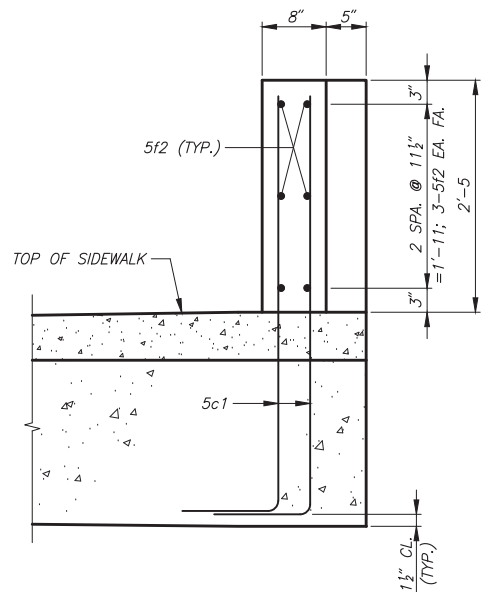
SECTION B-B



SECTION C-C



SECTION D-D

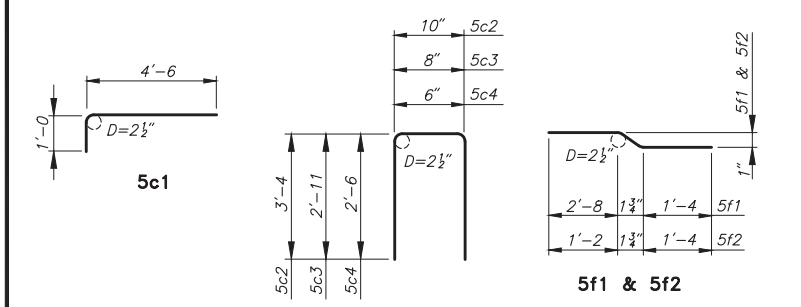


SECTION E-E

REINFORCING BAR LIST - TWO PILASTERS

SECTION	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
PILASTERS	5c1	PILASTER, VERTICAL DOWELS	U	56	5'-6	321
	5c2	PILASTER, VERTICAL	U	10	7'-6	78
	5c3	PILASTER, VERTICAL	U	6	6'-6	41
	5c4	PILASTER, VERTICAL	U	6	5'-6	34
	5f1	PILASTER, LONGITUDINAL	—	20	4'-2	87
	5f2	PILASTER, LONGITUDINAL	—	28	2'-8	78
	5f3	PILASTER, LONGITUDINAL	—	24	2'-8	67
	EPOXY COATED BARS				EPOXY COATED TOTAL (LBS.)	

BENT BAR DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

ESTIMATED QUANTITIES - TWO PILASTERS

ITEM	UNITS	QUANTITY
1 STRUCTURAL CONCRETE (BRIDGE), 2 PILASTERS @ 0.92 C.Y. EACH	CU. YDS.	1.8
1 REINFORCING STEEL, EPOXY COATED	LBS.	706

1 INCLUDED IN SUPERSTRUCTURE QUANTITIES.

PILASTER NOTES

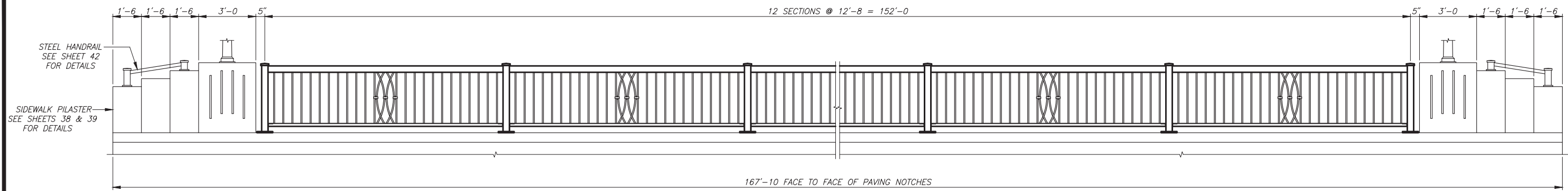
ALL CONCRETE FOR PILASTERS SHALL BE CLASS "C".
 ALL EXPOSED CORNERS OF 90° OR SHARPER ARE TO BE FILLETED WITH A 3/4" DRESSED AND BEVELED STRIP.
 ALL REINFORCING STEEL IS TO BE GRADE 60 AND EPOXY COATED.

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

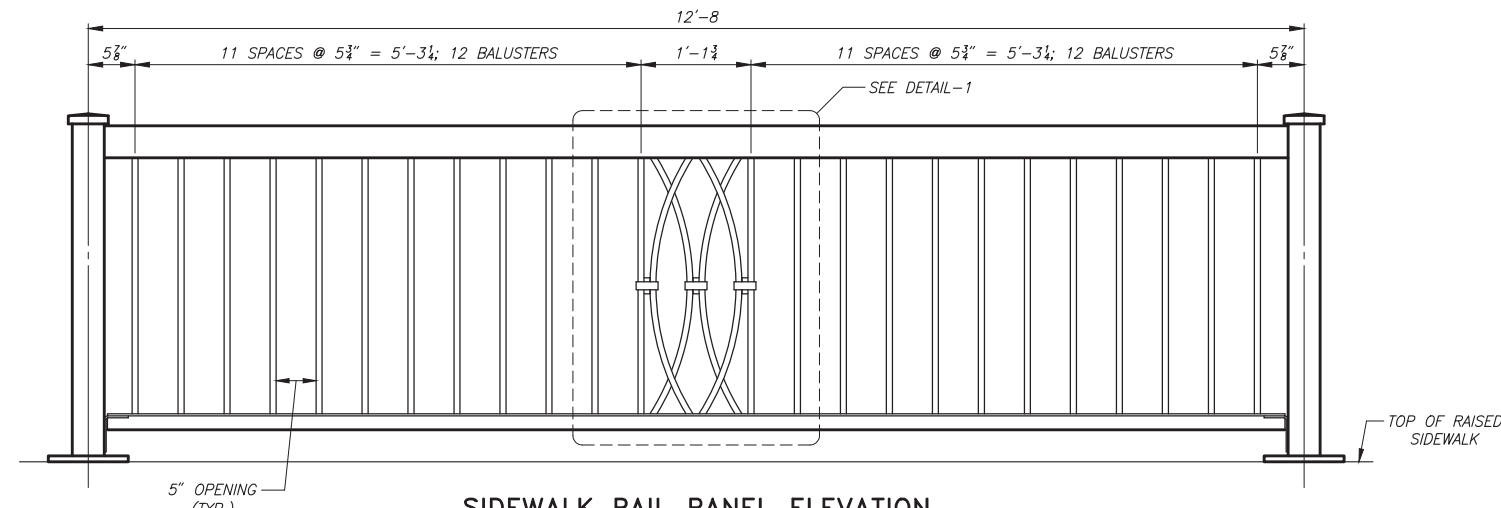
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SIDEWALK PILASTER DETAILS

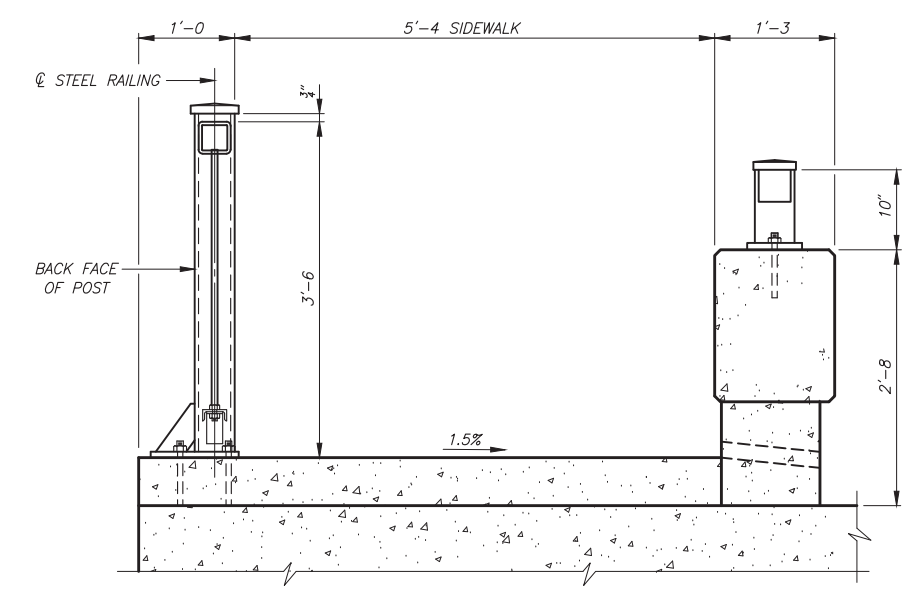
STATION 10+00.00
 CITY OF ALDEN, IOWA
 0° SKEW



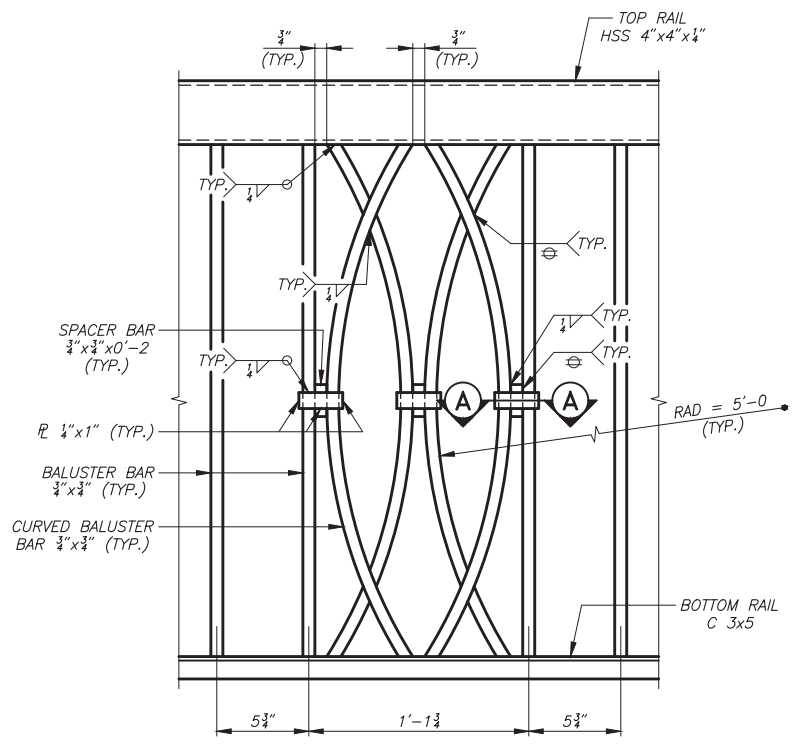
ELEVATION OF STEEL RAILING
(LOOKING WEST)



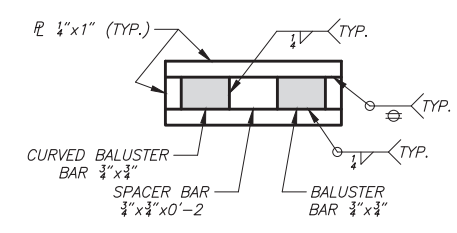
SIDEWALK RAIL PANEL ELEVATION
(12 PANELS REQUIRED)



TYPICAL SECTION
(LOOKING NORTH)



DETAIL - 1



SECTION A-A

**167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK**

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

STEEL RAILING DETAILS

STATION 10+00.00 0° SKEW
CITY OF ALDEN, IOWA

STEEL RAILING NOTES

MATERIAL FOR THE TUBE TOP RAIL AND POSTS SHALL MEET ASTM A500 GRADE B. MATERIAL FOR BOTTOM RAIL, BASE PLATES, BALUSTERS, SPACERS, AND PLATES SHALL MEET ASTM A709 GRADE 36. MATERIAL FOR POST CAP SHALL MEET ASTM A36 OR MAY BE CAST IRON.

STEEL RAILING COMPONENTS SHALL BE ABRASIVE BLAST CLEANED TO A MINIMUM OF SSPC-SP6 "COMMERCIAL BLAST CLEANING" PRIOR TO HOT-DIP GALVANIZING. GALVANIZE COMPONENTS IN ACCORDANCE WITH ASTM A 123. DO NOT QUENCH OR APPLY CHROMATE CONVERSION COATINGS TO ANY GALVANIZED COMPONENTS THAT WILL RECEIVE POWDER COATING. FOLLOWING GALVANIZING, POWDER COAT COMPONENTS IN ACCORDANCE WITH MATERIALS I.M. 568.

PREPARATION OF GALVANIZED SURFACES FOR PAINT SHALL BE IN ACCORDANCE WITH MATERIALS I.M. 568, APPENDIX F. COMPLETE "PAINT OVER GALVANIZED SURFACE TRAVEL LOG" IN APPENDIX E.

ALL POWDER COATING EXCEPT FIELD TOUCH-UP SHALL BE PERFORMED IN AN APPROVED SHOP IN ACCORDANCE WITH MATERIALS I.M. 568.

SUBMIT PROPOSED PREPARATION METHODS AND PRODUCT DATA FOR ALL COATINGS PROPOSED FOR USE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO POWDER COATING. POWDER COATING SHALL MATCH SAE AMS-STD-595 COLOR NUMBER 27038 (BLACK). SUBMIT POWDER COATING COLOR SAMPLE TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS.

PROTECT ALL POWDER COATED RAILING SURFACES FROM DAMAGE DURING SHIPPING, HANDLING, AND INSTALLATION.

FOLLOWING RAILING INSTALLATION, REPAIR ANY DAMAGE TO THE POWDER COATED FINISH IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS. SUBMIT THE POWDER COATING MANUFACTURER'S WRITTEN FIELD REPAIR AND RECOATING PROCEDURES TO THE ENGINEER PRIOR TO TOUCH-UP OPERATIONS. FOLLOWING FINAL INSTALLATION AND TOUCH-UP PAINTING, THE FINISHED SURFACES SHALL BE UNIFORM IN COLOR, SHEEN, TEXTURE AND HIDING ACROSS EACH CONTINUOUS SURFACE AREA WHEN VIEWED IN NATURAL DAYLIGHT AT NORMAL VIEWING ANGLES AND FROM DISTANCES NOT LESS THAN 39 INCHES FROM SURFACE. COMPONENTS DEEMED UNACCEPTABLE BY THE ENGINEER SHALL BE REMOVED AND RETURNED TO AN APPROVED POWDER COATING SHOP, AND SHALL BE COMPLETELY STRIPPED AND RECOATED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE PROJECT.

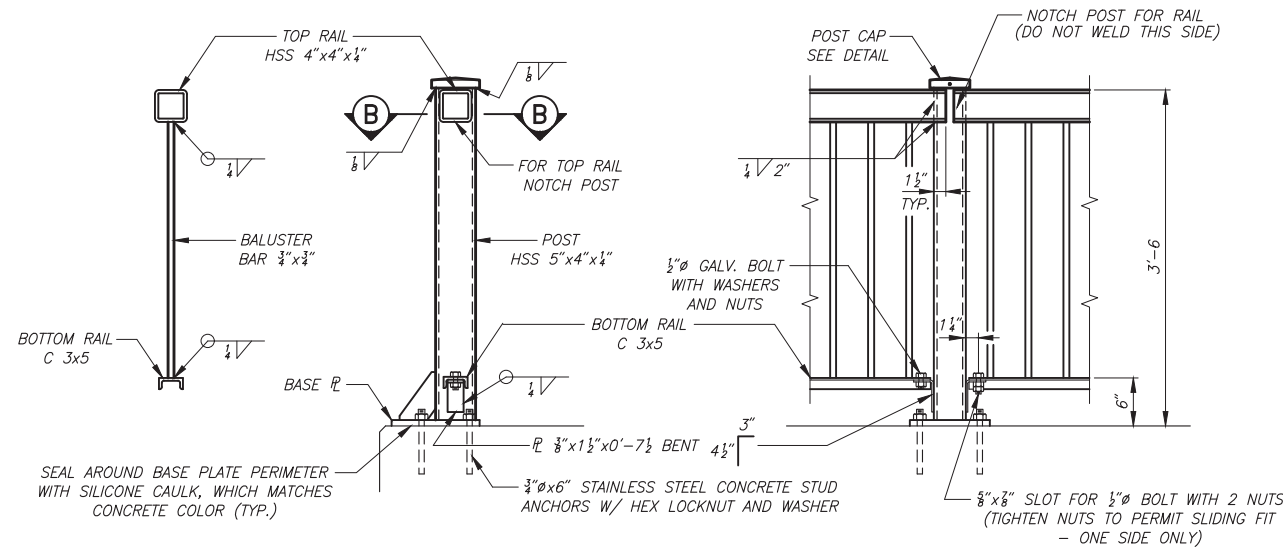
THE STUD CONCRETE ANCHORS SHALL BE GALVANIZED STEEL AND HAVE A MINIMUM PULLOUT STRENGTH OF 8000 POUNDS BASED ON 4000 PSI CONCRETE. ANCHORS SHALL BE PAINTED TO MATCH THE STEEL RAILING COLOR.

THE STEEL RAILING IS TO BE BID ON A LINEAL FOOT BASIS MEASURED FROM CENTERLINE TO CENTERLINE OF END POSTS. THE PRICE BID FOR "STRUCTURAL STEEL PEDESTRIAN HAND RAILING, 3'-6" HEIGHT" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, ANCHOR BOLTS AND SHIMS, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAILING IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

THE COST OF THE PILASTER HANDRAILINGS AND WING RAILINGS SHALL BE INCIDENTAL TO "STRUCTURAL STEEL PEDESTRIAN HAND RAILING, 3'-6" HEIGHT".

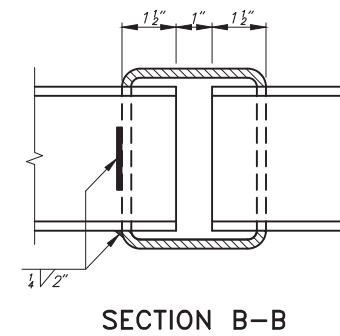
THE RAILING SHALL BE TRUE TO LINE AND COMPLY WITH THE BEST PRACTICE FOR CONSTRUCTION OF THIS TYPE. ALL MATERIAL FABRICATED SHALL EXHIBIT FLATNESS, SMOOTHNESS, AND FREEDOM FROM SURFACE BLEMISHES. ALL POSTS SHALL BE INSTALLED VERTICALLY.

SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER. STEEL RAILING MATERIALS SHALL NOT BE ORDERED UNTIL APPROVED SHOP DRAWINGS ARE RETURNED TO THE CONTRACTOR.

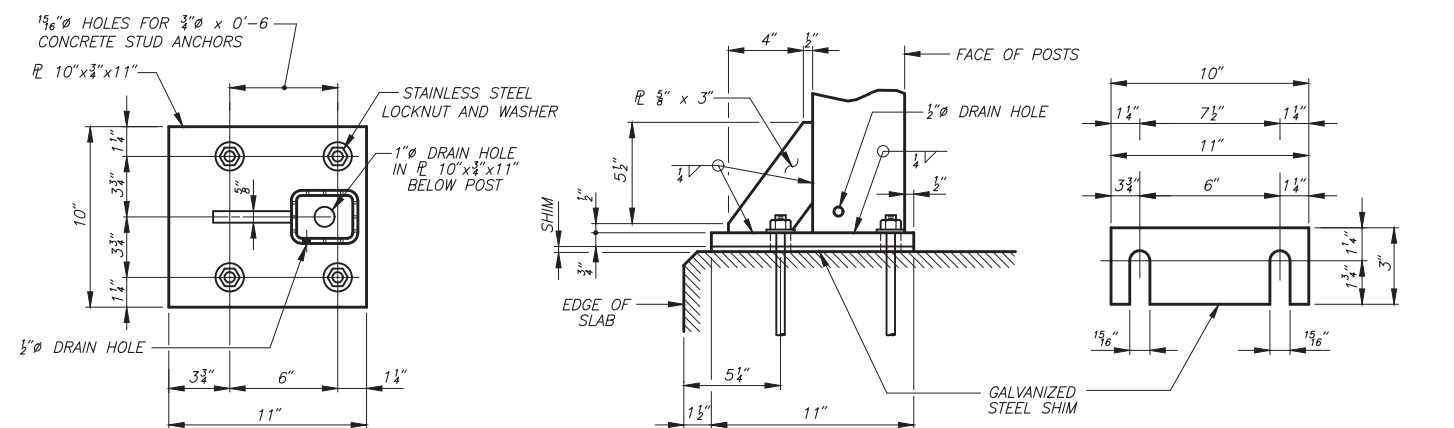


BALUSTER DETAIL

POST DETAILS

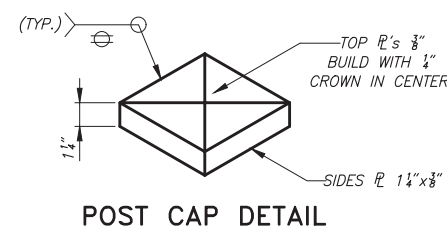


SECTION B-B



BASE PLATE DETAILS FOR POSTS

ESTIMATED QUANTITIES		
ITEM	UNITS	QUANTITY
STRUCTURAL STEEL PEDESTRIAN HAND RAILING, 3'-6" HEIGHT	LIN. FT.	152.0



POST CAP DETAIL

**167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK**

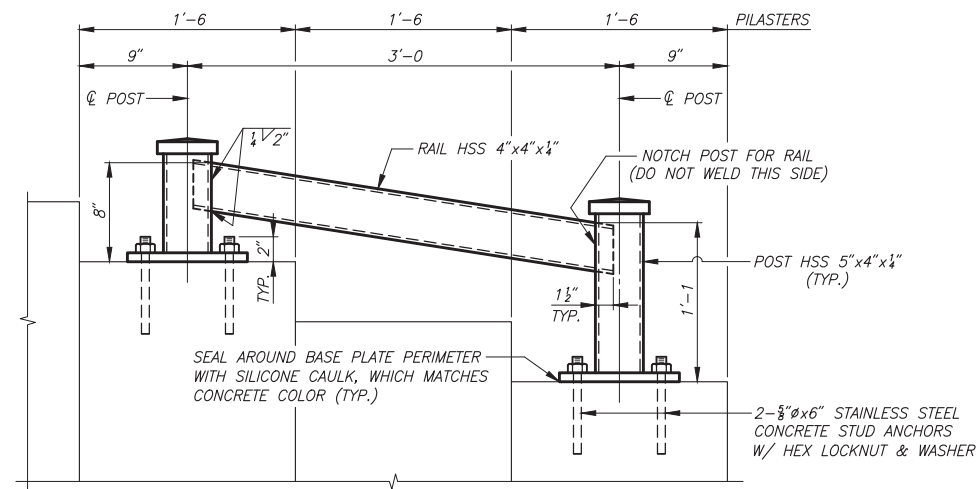
**HIGH CONCRETE ABUTMENTS
36'-6 END SPANS**

**DIAPHRAGM PIERS
47'-0 INTERIOR SPANS**

STEEL RAILING DETAILS

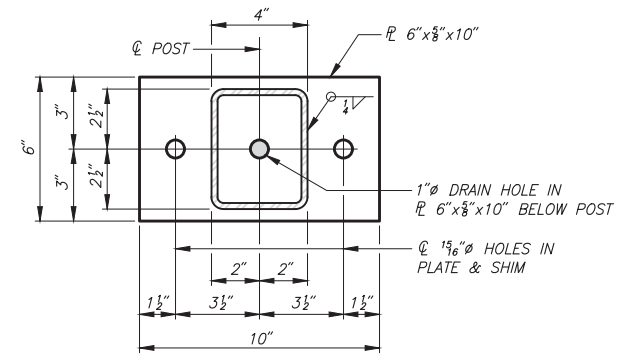
**STATION 10+00.00
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**0° SKEW
IOWA**

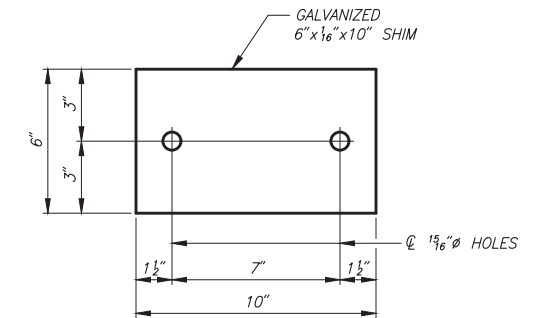


VIEW A-A

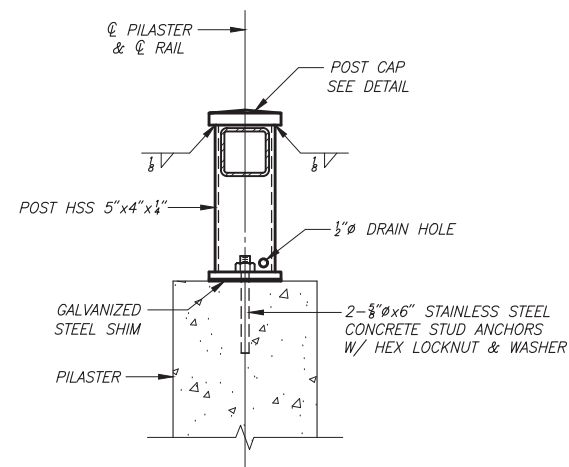
NOTE: SHOWN NORTHWEST CORNER



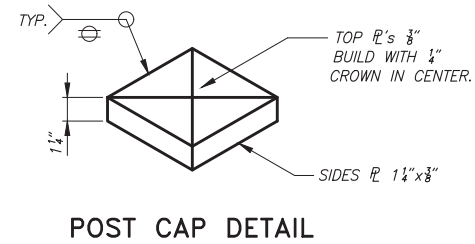
PILASTER HANDRAIL POST BASE DETAIL



PILASTER HANDRAIL POST SHIM DETAIL
(PROVIDE 2-1/8" GALVANIZED SHIMS AT EACH POST. USE AT LEAST ONE)



SIDE VIEW OF PILASTER HANDRAIL



POST CAP DETAIL

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

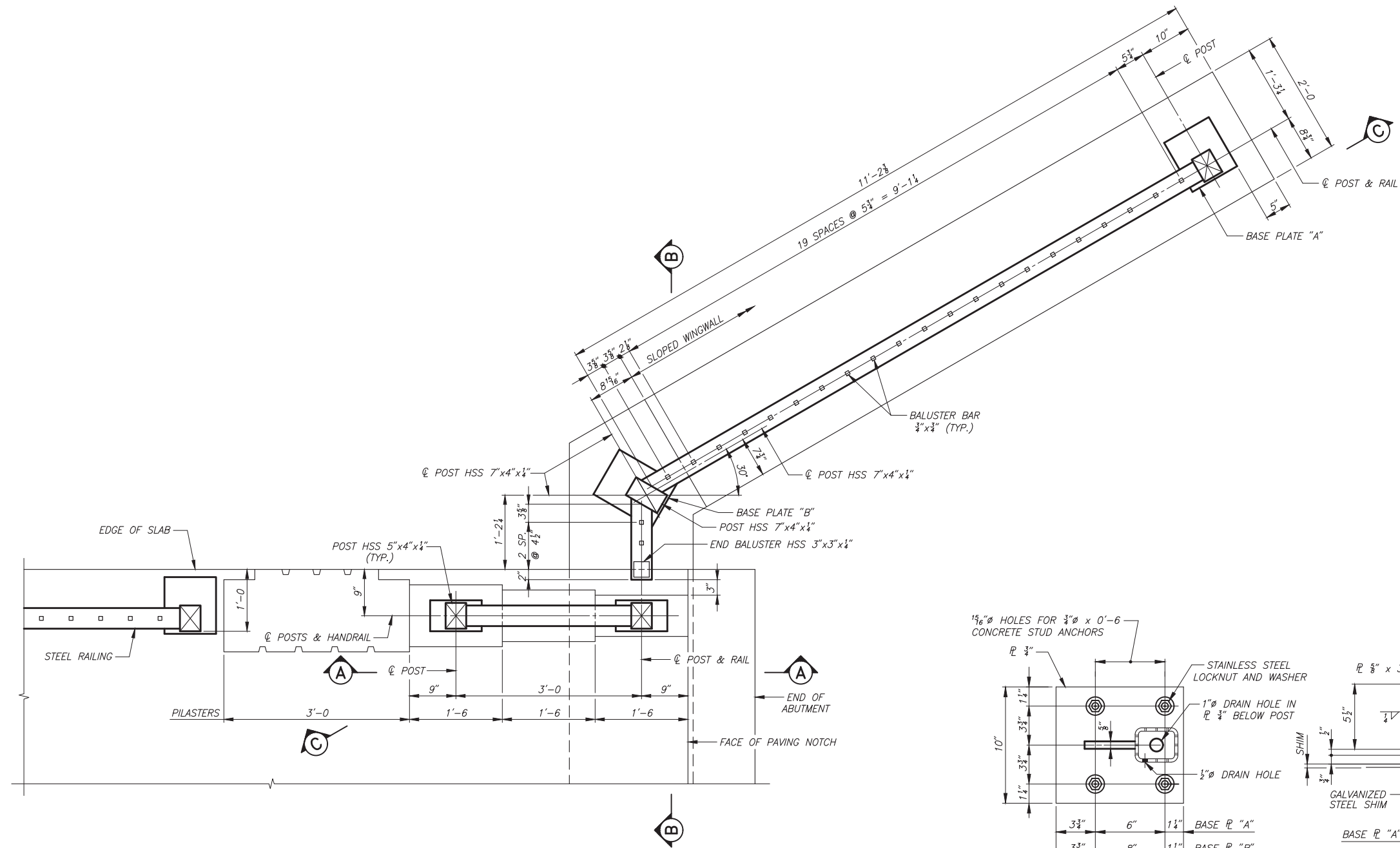
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

PILASTER HANDRAIL DETAILS

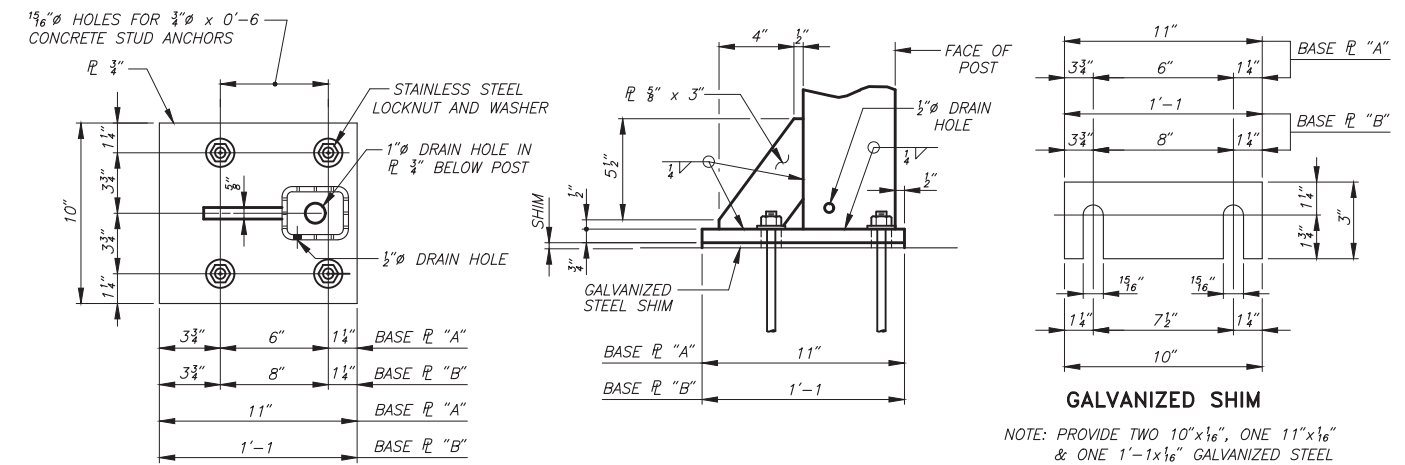
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IOWA



PILASTER HANDRAIL & NORTHWEST WING RAILING DETAILS

NOTES: 1. SEE SHEET 42 FOR VIEW A-A & PILASTER HANDRAIL DETAILS.
 2. SEE SHEET 44 FOR VIEW B-B & VIEW C-C.



BASE PLATE DETAILS FOR NORTHWEST WING POSTS

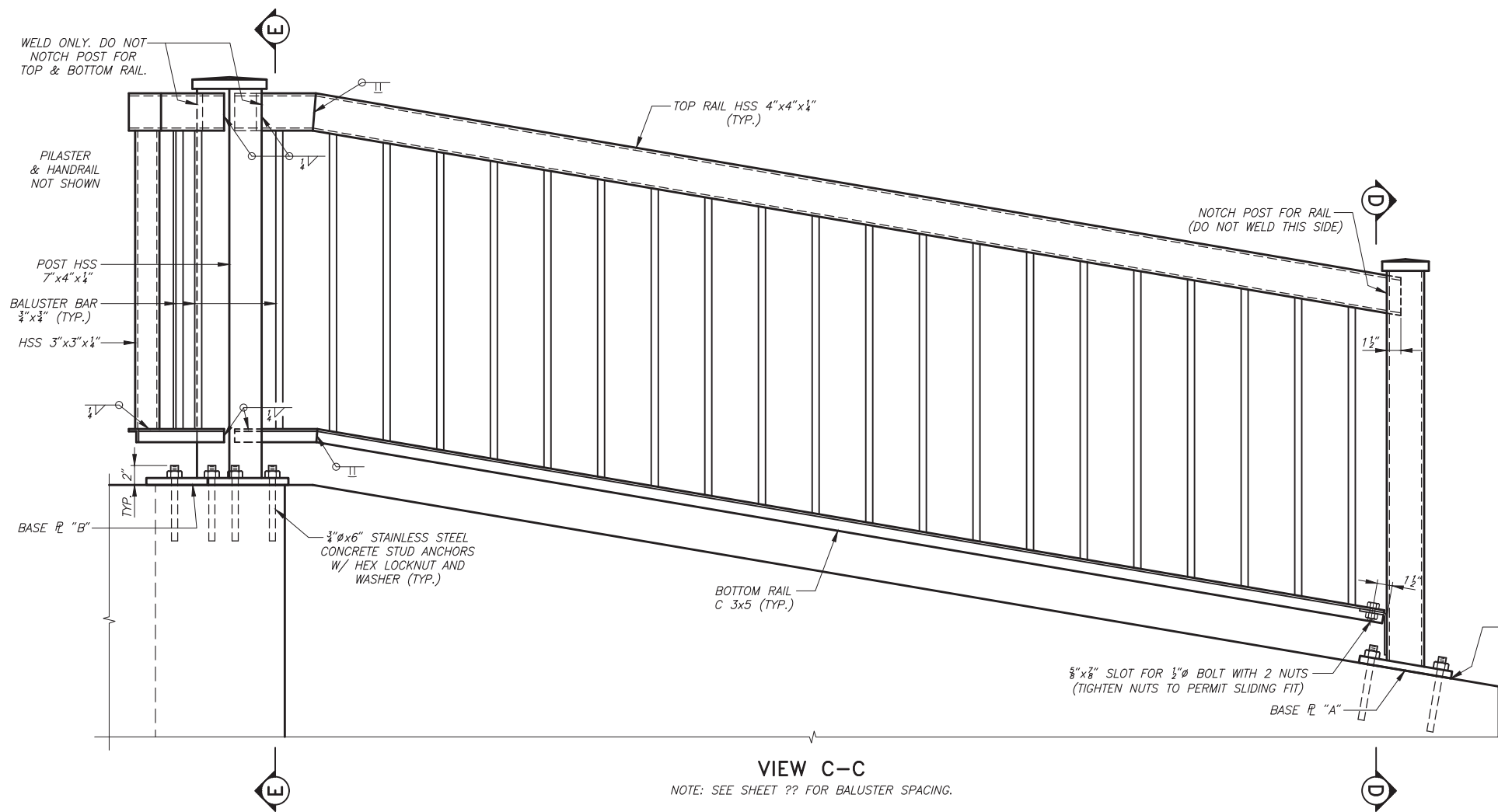
NOTE: PROVIDE TWO 10" x 1/8", ONE 11" x 1/8" & ONE 1'-1 x 1/8" GALVANIZED STEEL SHIMS FOR EACH RAIL POST, TO BE USED AS REQUIRED.

**167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK**

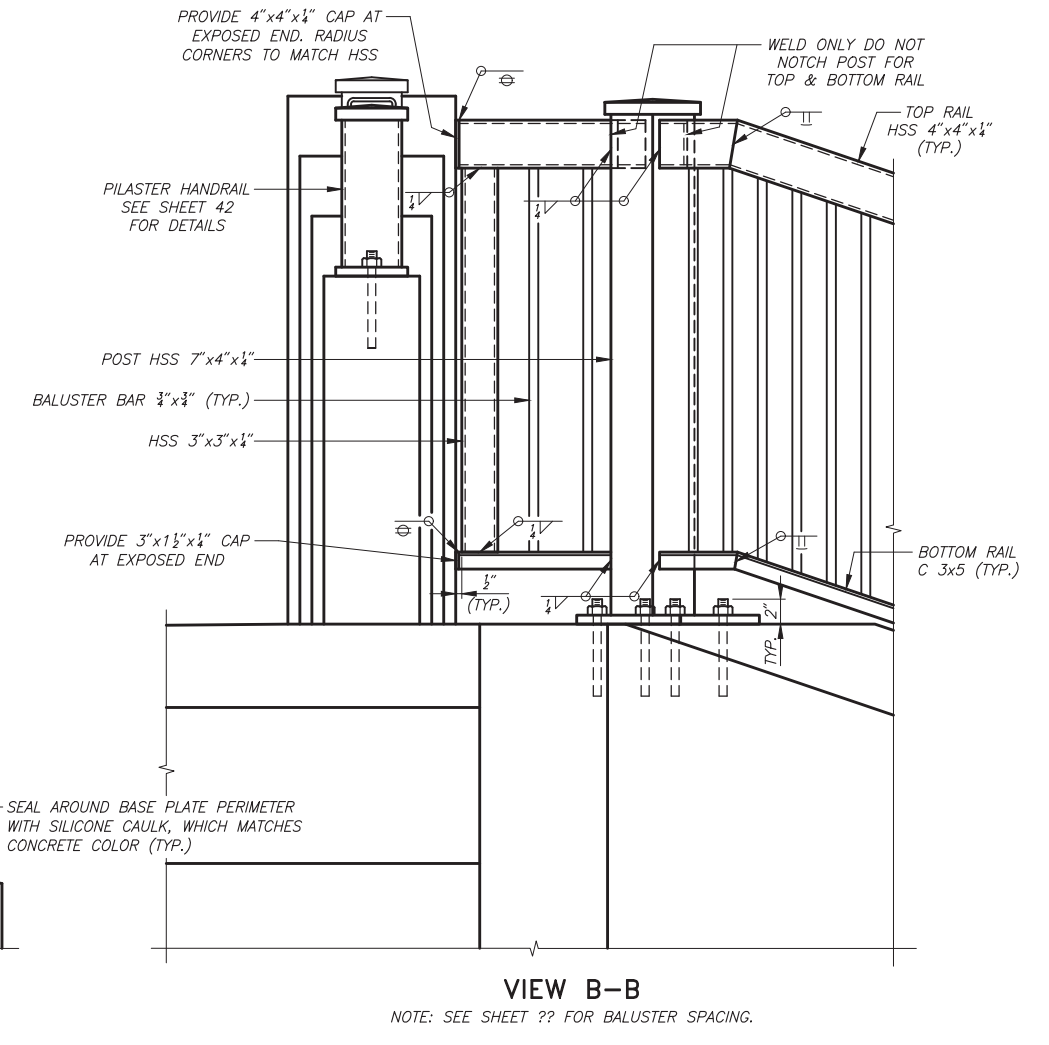
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

NORTHWEST WING RAILING DETAILS

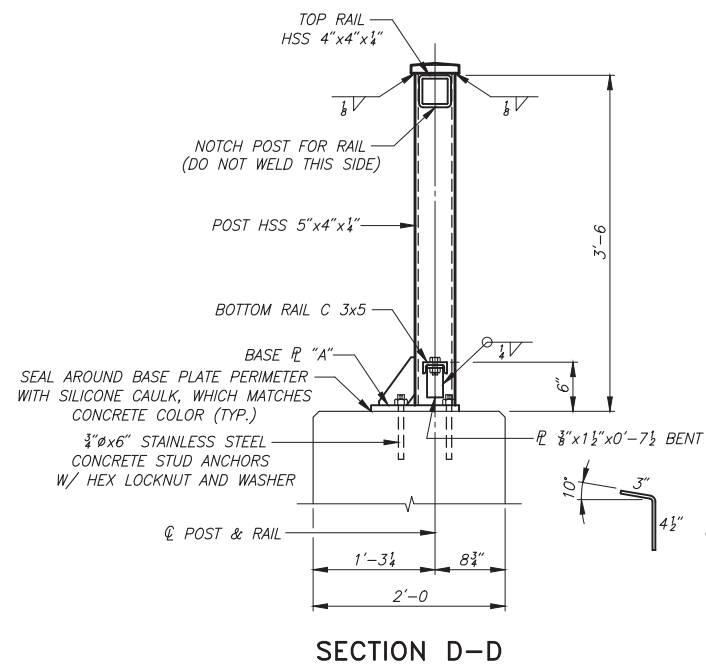
STATION 10+00.00
 CITY OF ALDEN, IOWA
 0° SKEW



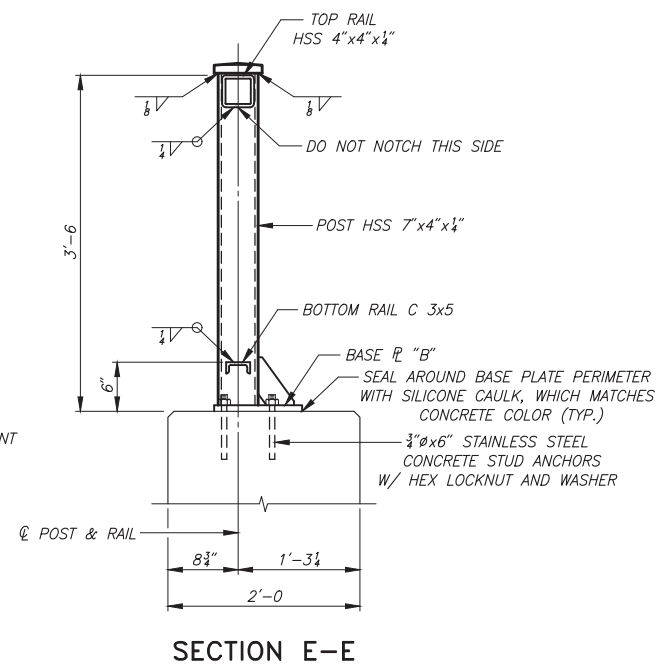
VIEW C-C
NOTE: SEE SHEET ?? FOR BALUSTER SPACING.



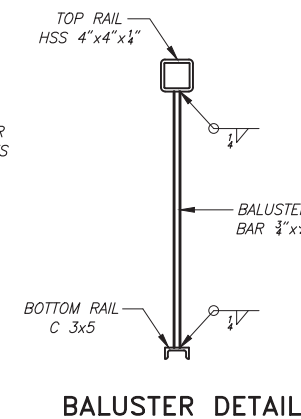
VIEW B-B
NOTE: SEE SHEET ?? FOR BALUSTER SPACING.



SECTION D-D



SECTION E-E



BALUSTER DETAIL

**167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK**

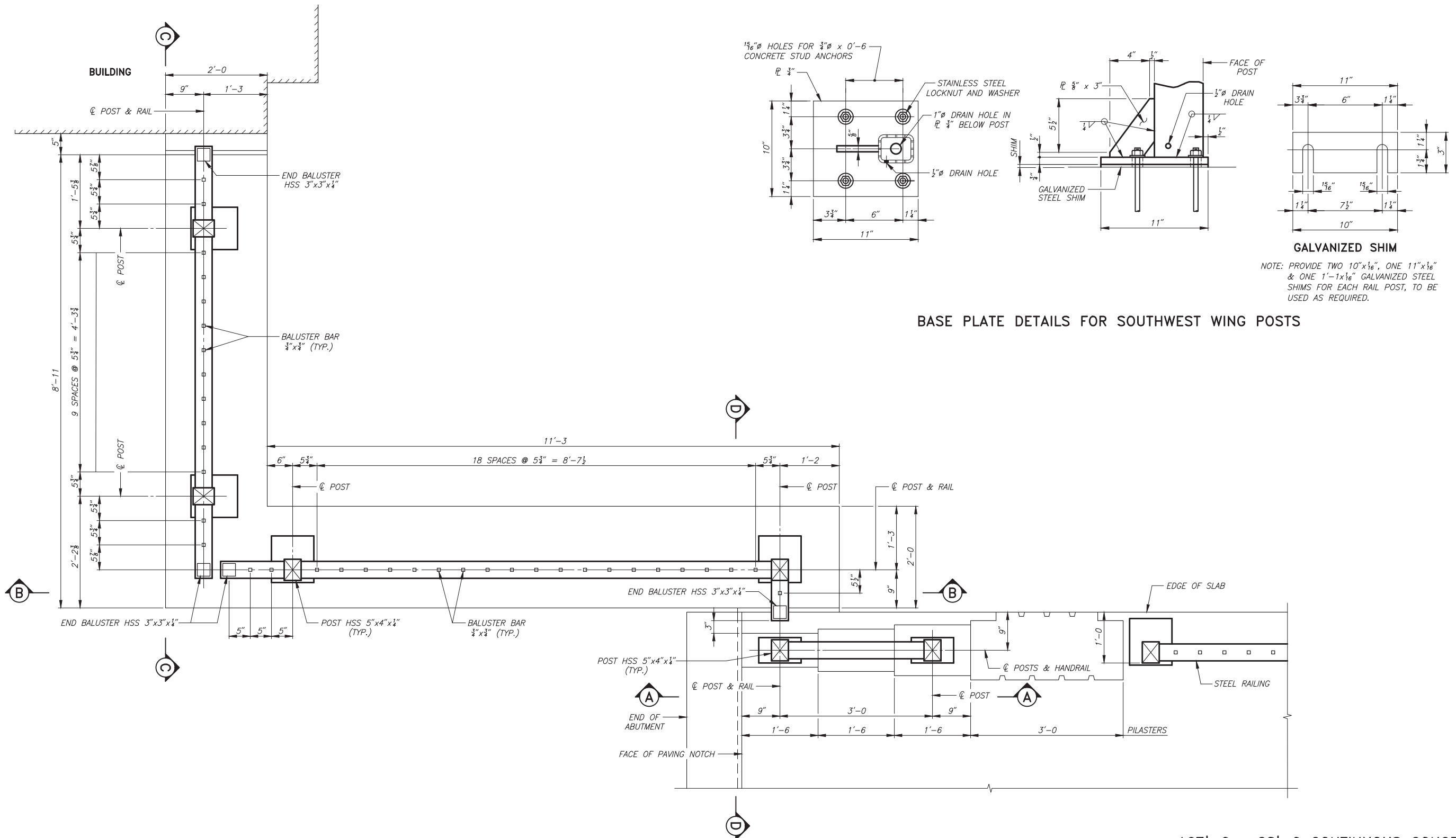
**HIGH CONCRETE ABUTMENTS
36'-6 END SPANS**

**DIAPHRAGM PIERS
47'-0 INTERIOR SPANS**

NORTHWEST WING RAILING DETAILS

**STATION 10+00.00
CITY OF ALDEN,**

**0° SKEW
IOWA**



BASE PLATE DETAILS FOR SOUTHWEST WING POSTS

GALVANIZED SHIM

NOTE: PROVIDE TWO 10"x1/2", ONE 11"x1/2" & ONE 1'-1x1/2" GALVANIZED STEEL SHIMS FOR EACH RAIL POST, TO BE USED AS REQUIRED.

PILASTER HANDRAIL & SOUTHWEST WING RAILING DETAILS

NOTES: 1. SEE SHEET 42 FOR VIEW A-A & PILASTER HANDRAIL DETAILS.
2. SEE SHEET 46 FOR VIEW B-B, VIEW C-C, & VIEW D-D.

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

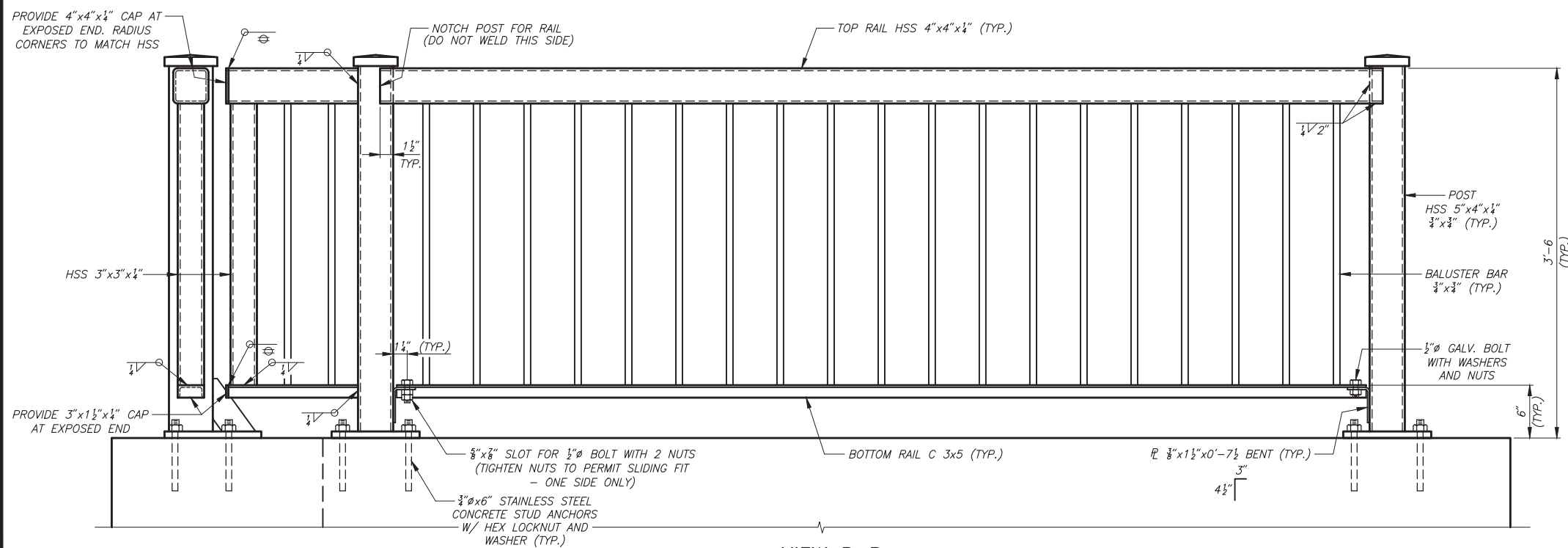
HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

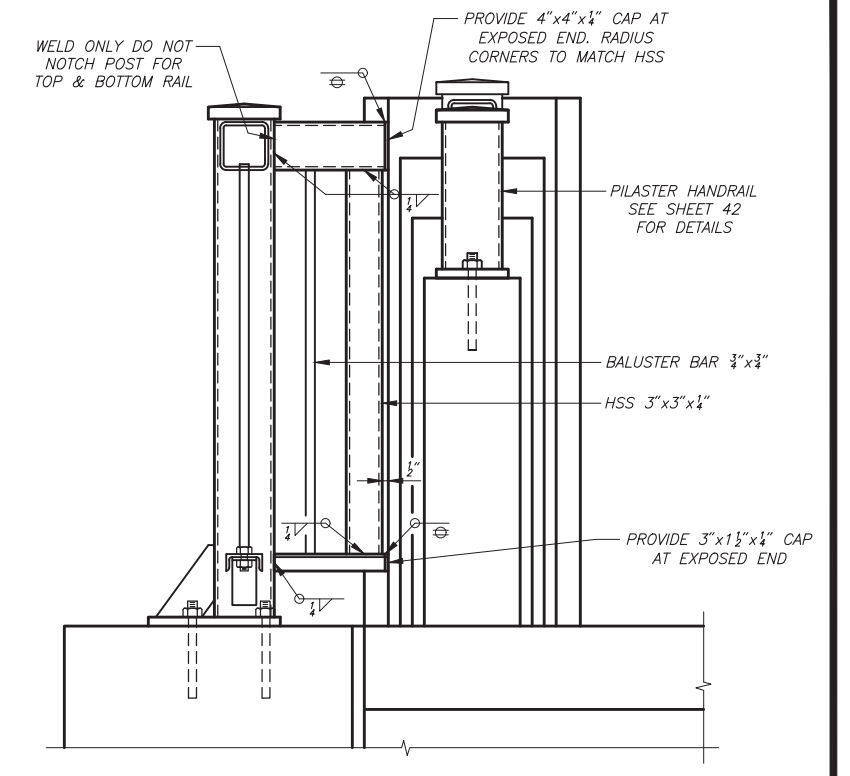
SOUTHWEST WING RAILING DETAILS

STATION 10+00.00
CITY OF ALDEN,

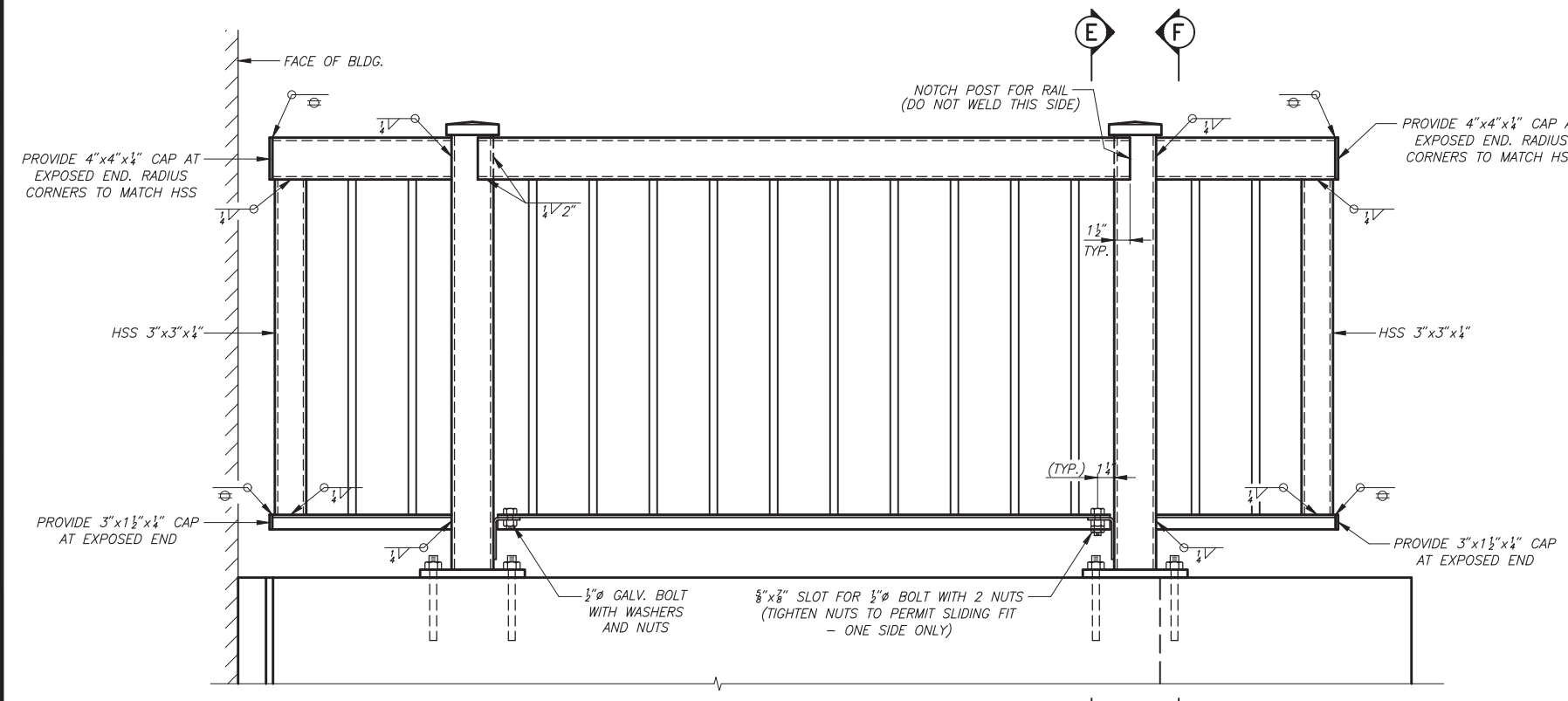
0° SKEW
IOWA



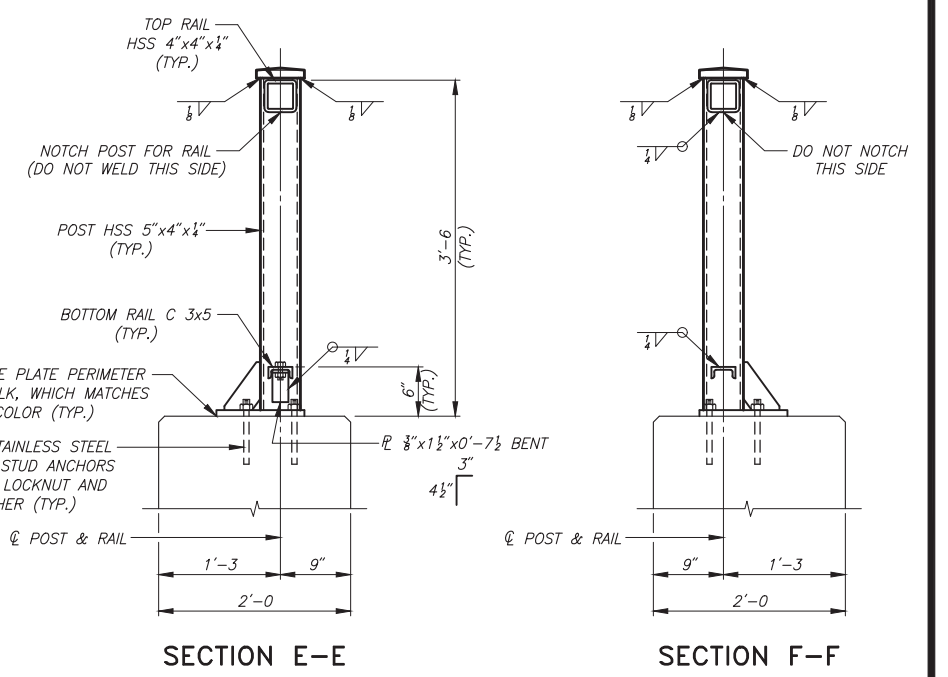
VIEW B-B



VIEW D-D

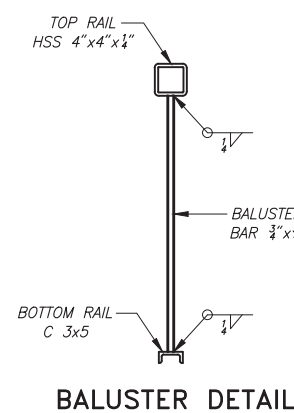


VIEW C-C



SECTION E-E

SECTION F-F



BALUSTER DETAIL

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

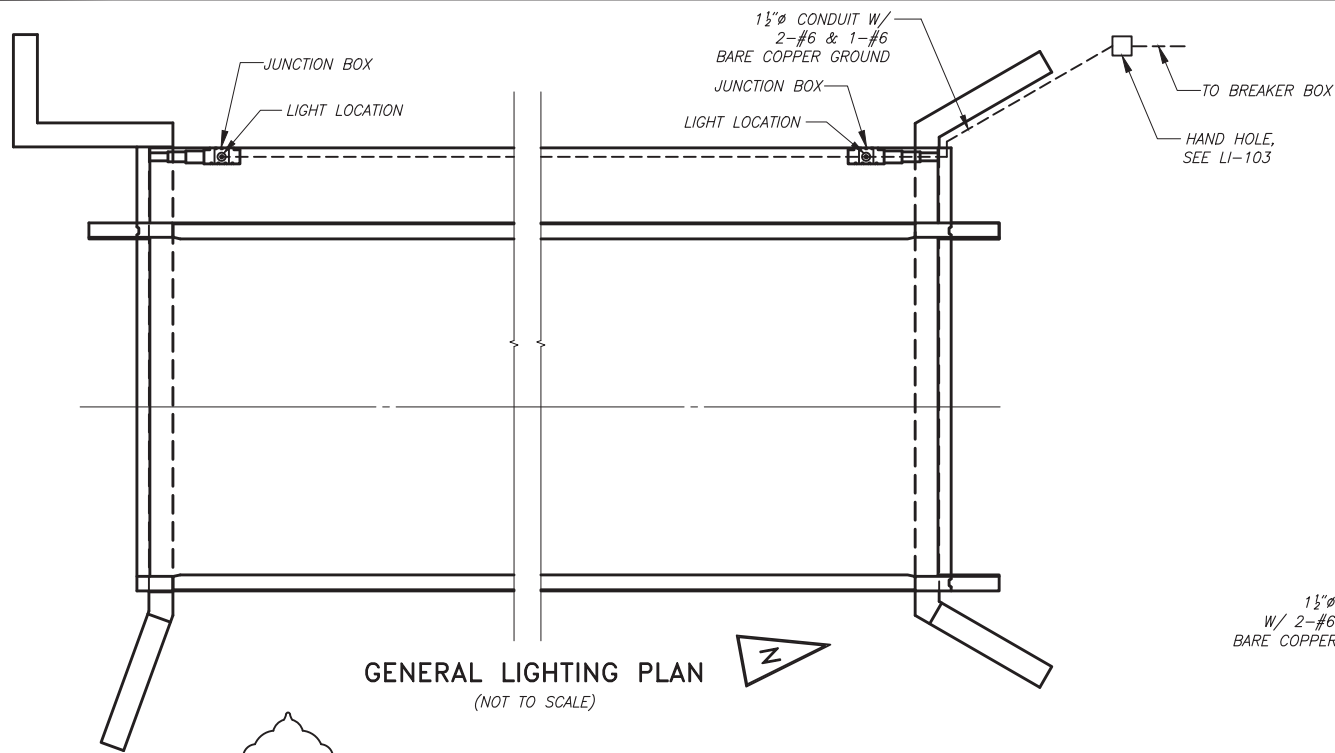
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS

DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SOUTHWEST WING RAILING DETAILS

STATION 10+00.00 CITY OF ALDEN, IOWA

0' SKEW IOWA

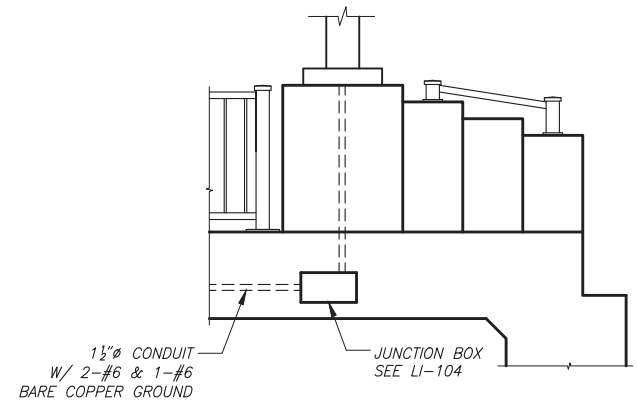


GENERAL LIGHTING PLAN
(NOT TO SCALE)

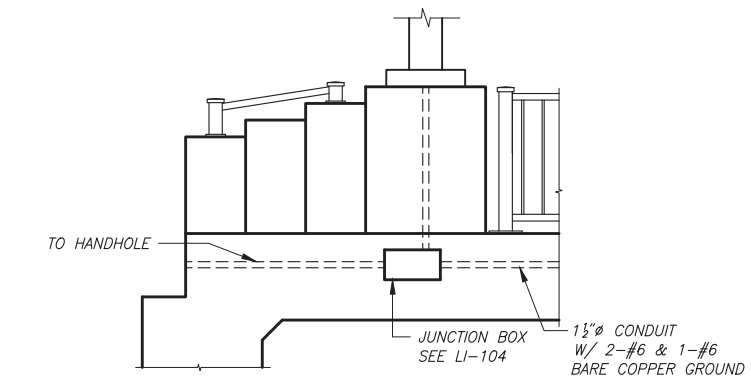
MANUFACTURER LIST				
LOCATION	ITEM	ACUITY BRANDS	ANP LIGHTING	STERNBERG LIGHTING
TOP OF PILASTER	LIGHT FIXTURE	HOLOPHANE-AWDE3 P50 30K MVOLT SPL AL5 GR KC	LF0135 WH PO46LD4D T5 30K-77	PT-B740-5P-VC0B-4L30TS-MDL05-WP-OWGT
	BASE & POLE	LITHONIA - SSS 10 5C T25 DBNK	BD4SQSTL12-7-CCS1301-77	6SQ8-.125-OWGT

NOTE: ALTERNATE MANUFACTURERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

LIGHTING QUANTITIES		
ITEM	UNITS	QUANTITY
LIGHTING POLES	EACH	2
ELECTRICAL CIRCUITS	L.F.	300
HAND HOLES AND JUNCTION BOXES	EACH	3



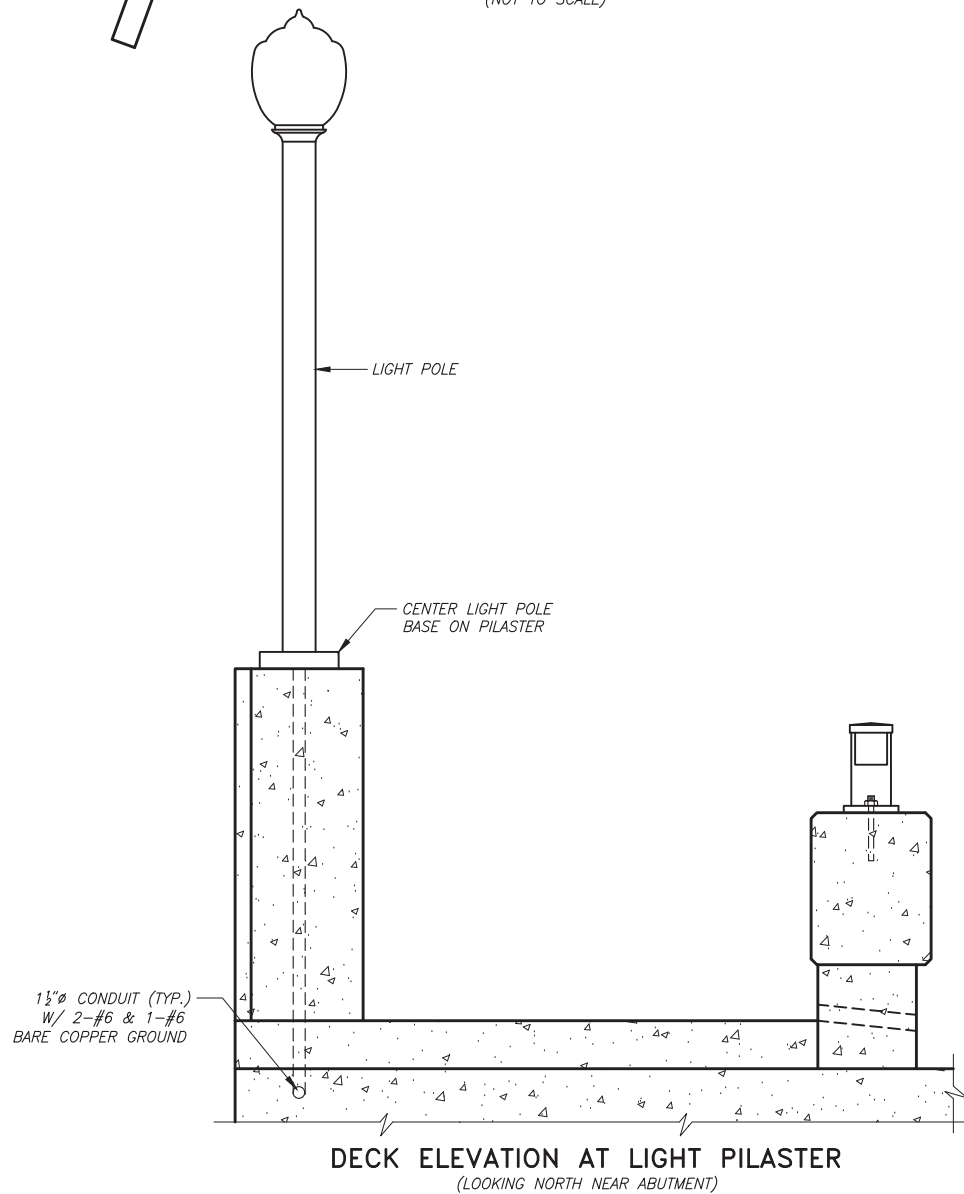
PART ELEVATION AT SOUTH ABUTMENT
(LOOKING EAST)



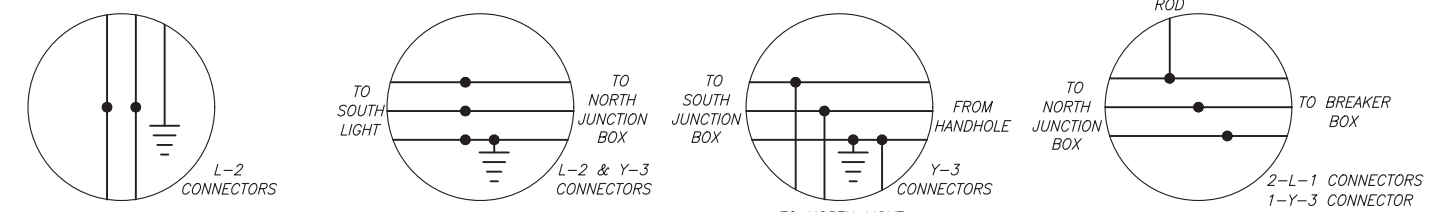
PART ELEVATION AT NORTH ABUTMENT
(LOOKING EAST)

LIGHTING NOTES

CONSTRUCTION SHALL CONFORM TO SECTION 2523 THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL THE SPECIFIED NUMBER OF LIGHT FIXTURES COMPLETE.
 COORDINATE ELECTRICAL SERVICE INSTALLATION AND POWER SUPPLY HOOKUP TO THE ELECTRIC JUNCTION BOX WITH ENGINEER AND ELECTRIC UTILITY CONTACT.
 LIGHT UNITS SHALL BE FROM ONE OF THE MANUFACTURERS LISTED ON THIS SHEET, AS DETAILED.
 THE BID ITEMS "LIGHTING POLES", "ELECTRICAL CIRCUITS" AND "HANDHOLES AND JUNCTION BOXES" SHALL INCLUDE THE COST FOR ALL NECESSARY ITEMS REQUIRED OF THE CONTRACTOR TO INSTALL THE LIGHTING AS DETAILED ON THIS SHEET, EXCEPT FOR THOSE WHICH ARE SEPARATE BID ITEMS OR ARE INCIDENTAL TO OTHER BID ITEMS.
 SHOP DRAWINGS OF THE LIGHTING ASSEMBLIES AND HANDHOLES AND JUNCTION BOXES SHOWING LAYOUT AND DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. LIGHTING ASSEMBLIES AND HANDHOLES AND JUNCTION BOXES SHALL NOT BE ORDERED UNTIL APPROVED SHOP DRAWINGS ARE RETURNED TO THE CONTRACTOR.
 THE CONTRACTOR SHALL ENSURE WATER IS REMOVED FROM CONDUITS PRIOR TO INSTALLING THE WIRES AND POLES.
 INSTALL LIGHTS AS RECOMMENDED BY THE MANUFACTURER.
 A PHOTO ELECTRIC CONTROL SHALL BE PLACED ON THE NORTHWEST LIGHT POLE TO CONTROL ALL THE LIGHTS ON THE BRIDGE.
 CONDUIT THAT IS EMBEDDED IN CONCRETE SHALL BE 1" DIAMETER RGS. SURFACE MOUNTED CONDUIT SHALL BE 1/2" RGS.



DECK ELEVATION AT LIGHT PILASTER
(LOOKING NORTH NEAR ABUTMENT)



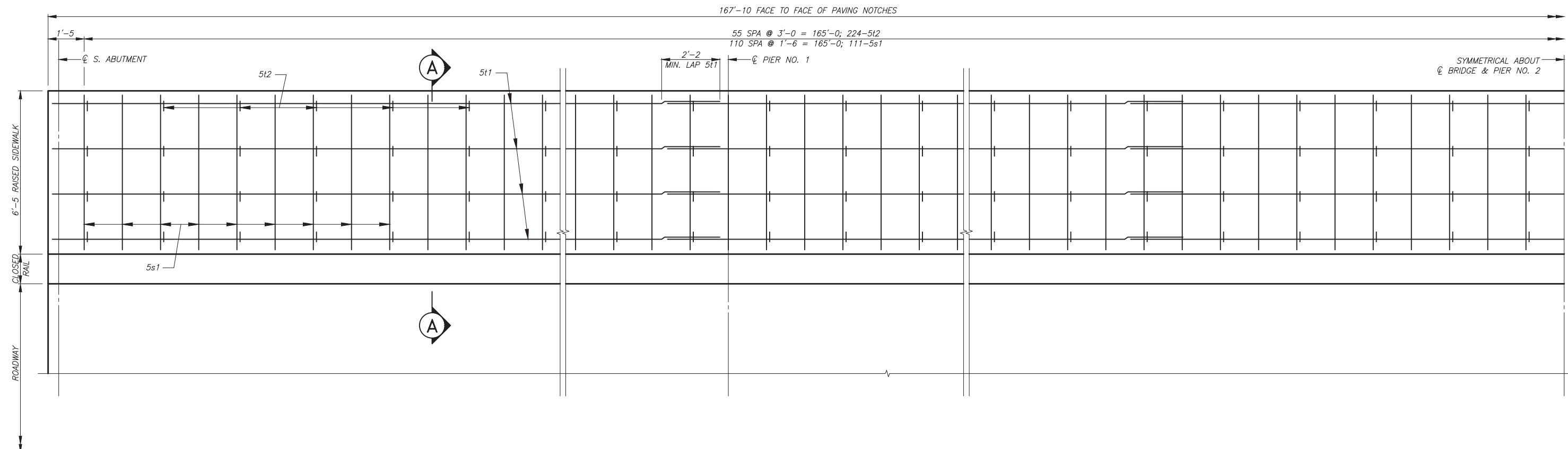
WIRING CONNECTIONS

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

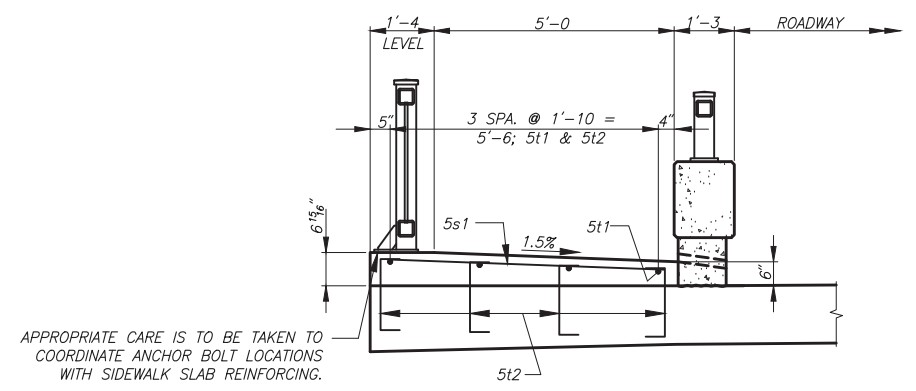
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

LIGHTING DETAILS

STATION 10+00.00
CITY OF ALDEN, IOWA
0° SKEW



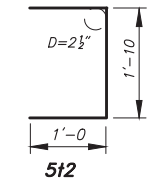
PART PLAN



SECTION A-A
(LOOKING NORTH)
NOTE: DECK REINFORCING NOT SHOWN

REINFORCING BAR LIST - SIDEWALK						
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	
Δ 5s1	TRANSVERSE	—	111	6'-1	704	
Δ 5t1	LONGITUDINAL	—	20	35'-3	735	
Δ 5t2	DECK TO SIDEWALK DOWELS	□	224	3'-10	896	
Δ EPOXY COATED BARS					EPOXY COATED TOTAL (LBS.)	2,335

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT
D = PIN DIAMETER

ESTIMATED QUANTITIES - SIDEWALK		
ITEM	UNIT	QUANTITY
① STRUCTURAL CONCRETE (BRIDGE)	CU. YDS.	21.8
① REINFORCING STEEL, EPOXY COATED	LBS.	2,335

① INCLUDED IN SUPERSTRUCTURE QUANTITIES

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

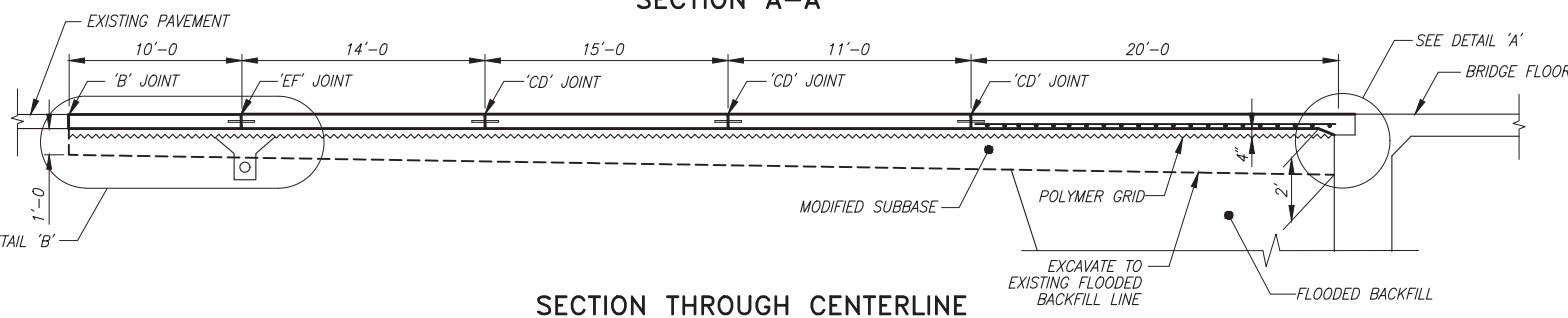
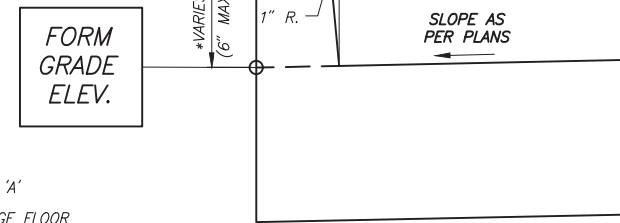
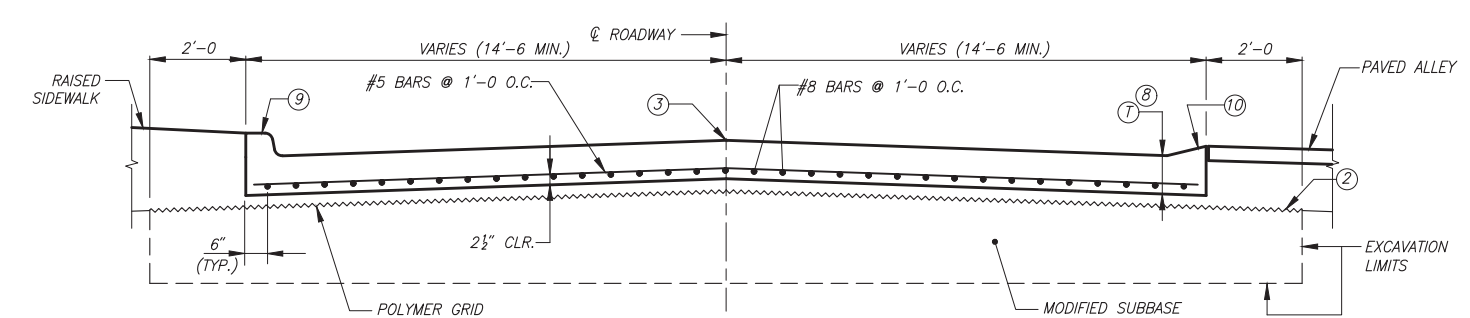
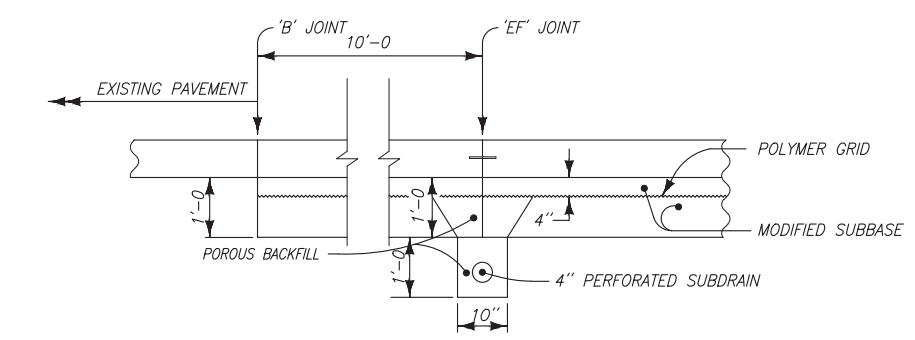
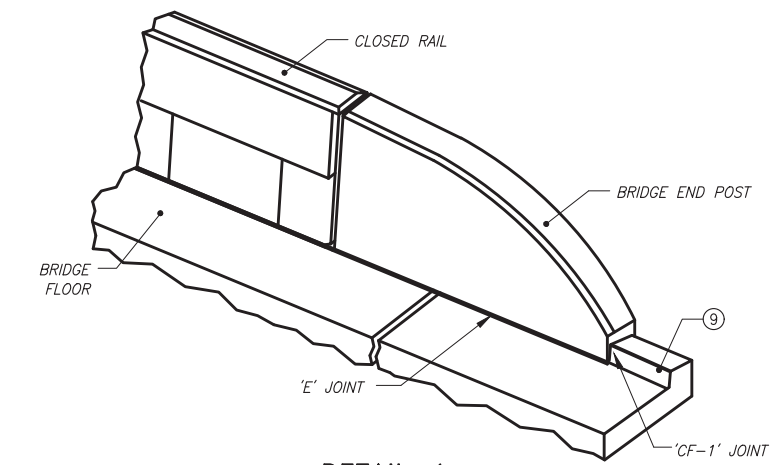
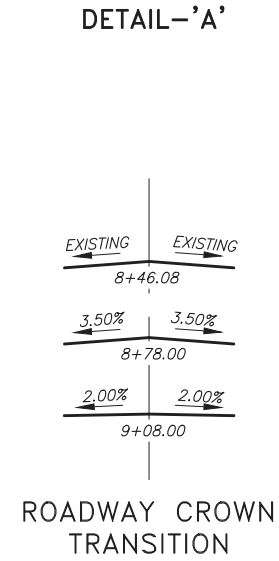
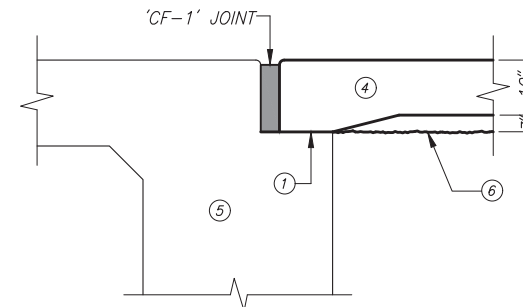
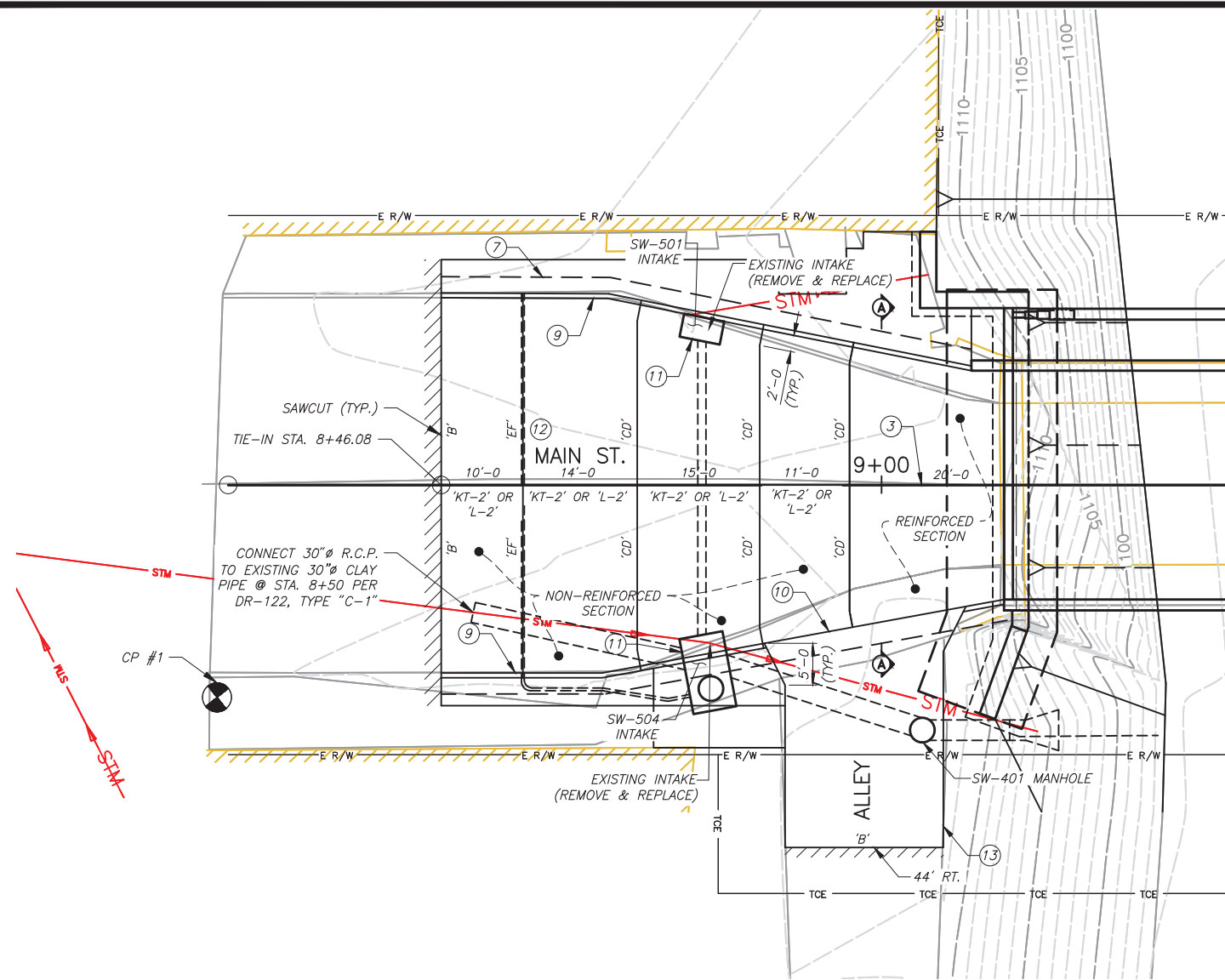
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

RAISED SIDEWALK DETAILS

STATION 10+00.00
CITY OF ALDEN, IOWA
0' SKEW

LEGEND

1. SECURE POLYMER ON TOP OF PAVING NOTCH.
2. TRIM FABRIC TO EDGE OF EXCAVATION, EXTEND POLYMER GRID TO 2' OUTSIDE OF PAVEMENT.
3. LONGITUDINAL JOINT:
SINGLE POUR - SAW CUT JOINT PER DETAIL B ON PV-101.
TWO POURS - USE 'KS-1' JOINT.
4. REINFORCED BRIDGE APPROACH PAVEMENT
5. BRIDGE ABUTMENT
6. POLYMER GRID
7. EXCAVATION LIMITS OF MODIFIED SUBBASE 2' OUTSIDE OF PAVEMENT EDGE.
8. T=10"
9. 6" VERTICAL CURB
10. SEE MI-210 FOR CURB DROP AND JOINTING OF ALLEY.
11. SEE SW-514 FOR JOINTING IN THE VICINITY OF THE INTAKES.
12. SLOPE SUBDRAIN TO DRAIN AND OUTLET INTO INTAKE PER DR-303.
13. 6" STANDARD CURB.



167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

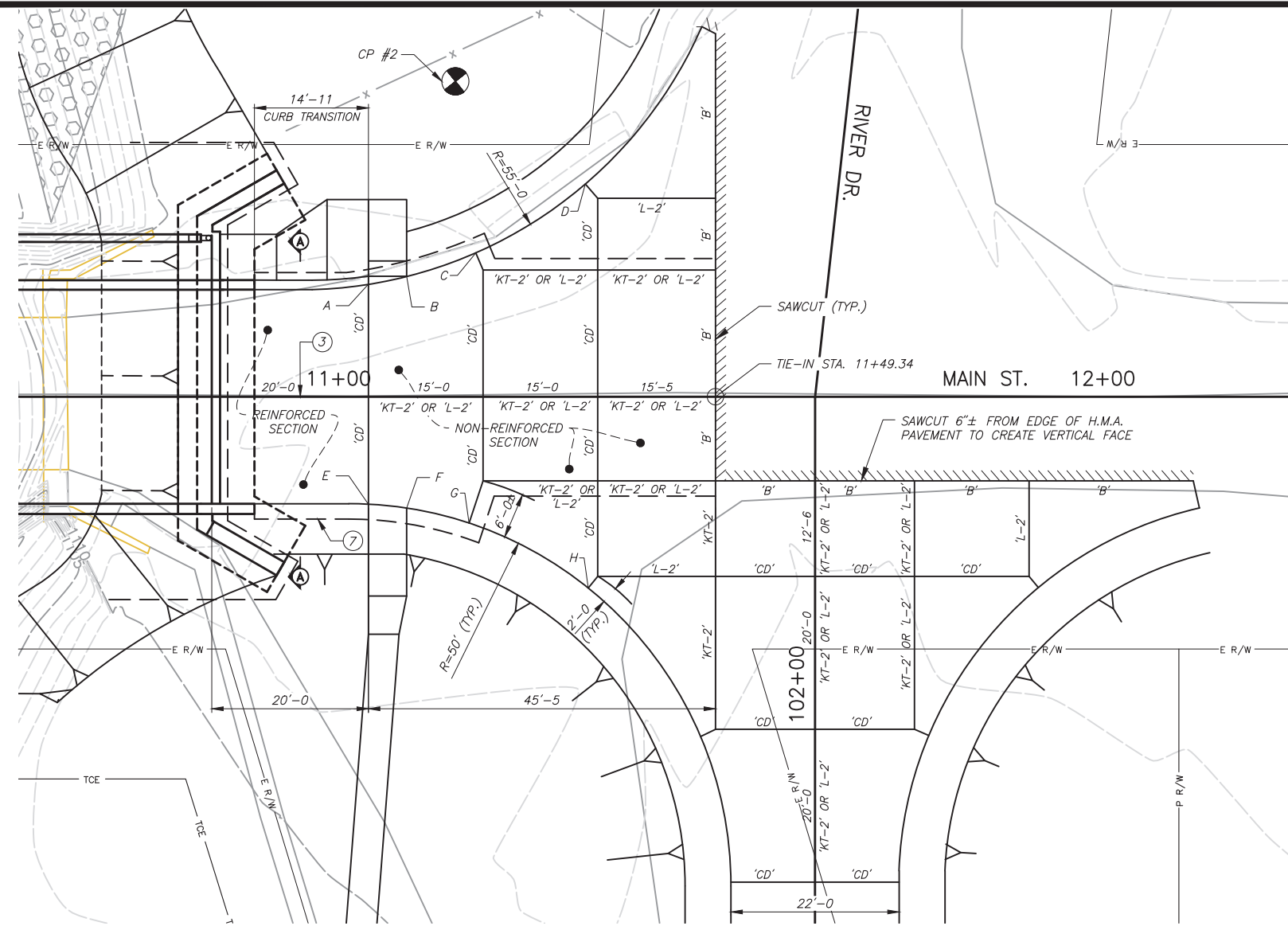
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SOUTH APPROACH PAVEMENT DETAILS

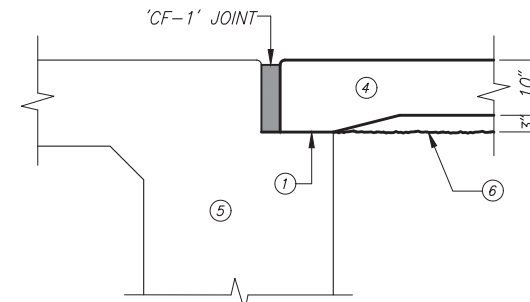
STATION 10+00.00
 CITY OF ALDEN, IOWA

0' SKEW
 IOWA

BENCH MARK: CP #1, CUT 'X', STA. 8+19, 26' RT. ELEV.= 1110.25
 CP #2, 1/2" REBAR, STA. 11+15, 41' LT. ELEV.= 1112.69



NORTH APPROACH PLAN VIEW
 LETTERS REPRESENT PROPOSED SPOT ELEVATION. SEE TABLE "SPOT ELEV."



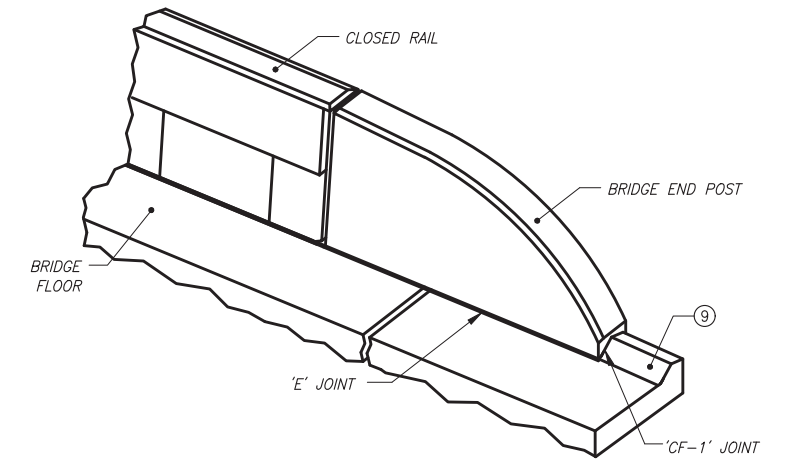
DETAIL-A'

LEGEND

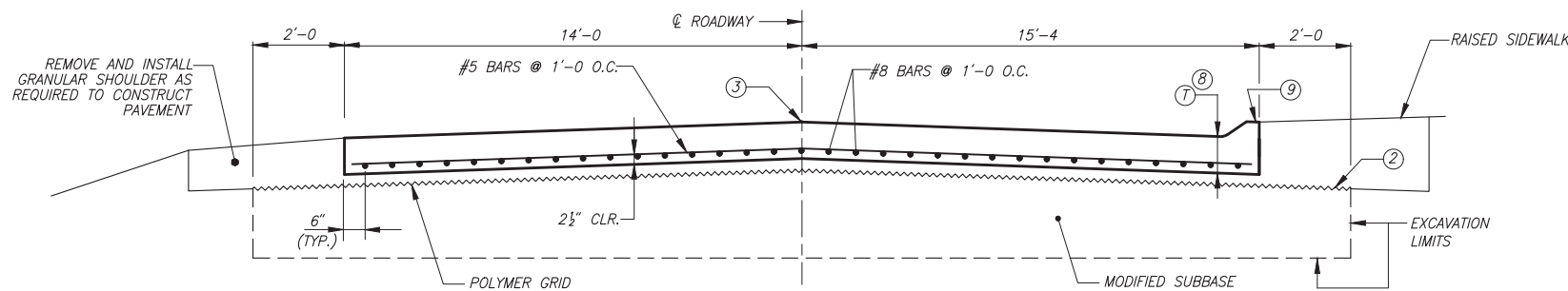
1. SECURE POLYMER ON TOP OF PAVING NOTCH.
2. TRIM FABRIC TO EDGE OF EXCAVATION, EXTEND POLYMER GRID TO 2' OUTSIDE OF PAVEMENT.
3. LONGITUDINAL JOINT:
SINGLE POUR - SAW CUT JOINT PER DETAIL B ON PV-101.
TWO POURS - USE 'KS-1' JOINT.
4. REINFORCED BRIDGE APPROACH PAVEMENT
5. BRIDGE ABUTMENT
6. POLYMER GRID
7. EXCAVATION LIMITS OF MODIFIED SUBBASE 2' OUTSIDE OF PAVEMENT EDGE.
8. T=10"
9. 5" SLOPED CURB

SPOT ELEV.	
POINT	*ELEV.
A	1111.49
B	1111.42
C	1111.25
D	1110.88
E	1111.50
F	1111.43
G	1111.30
H	1110.95

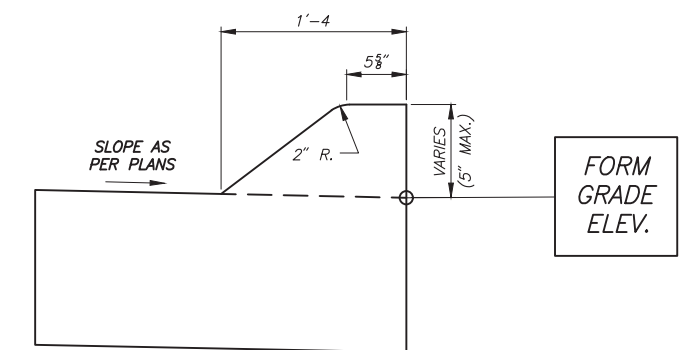
*FORM GRADE ELEV.



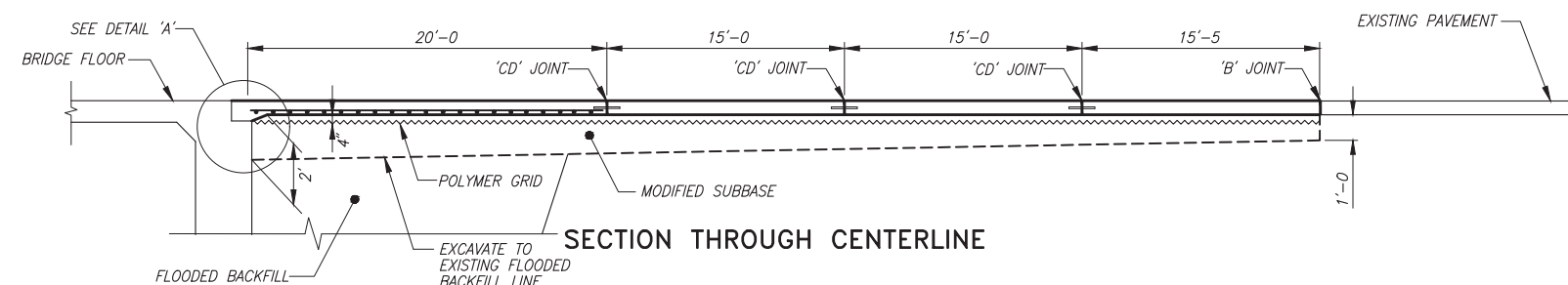
DETAIL-1
 JOINT AND CURB FILLET AT BRIDGE END SECTION



SECTION A-A



5" SLOPED CURB



SECTION THROUGH CENTERLINE

**167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK**

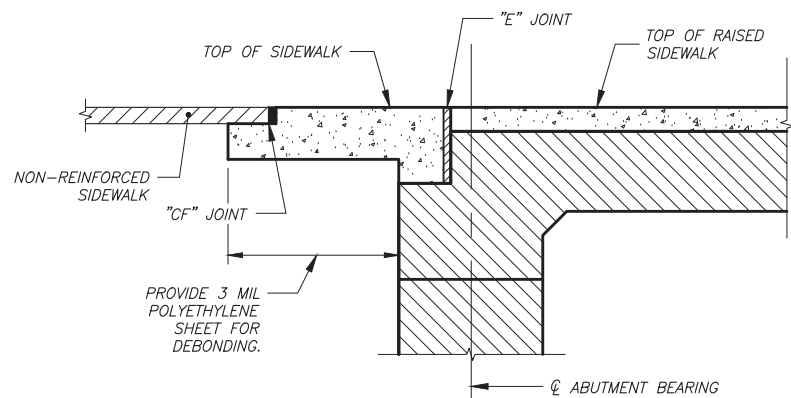
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

NORTH APPROACH PAVEMENT DETAILS

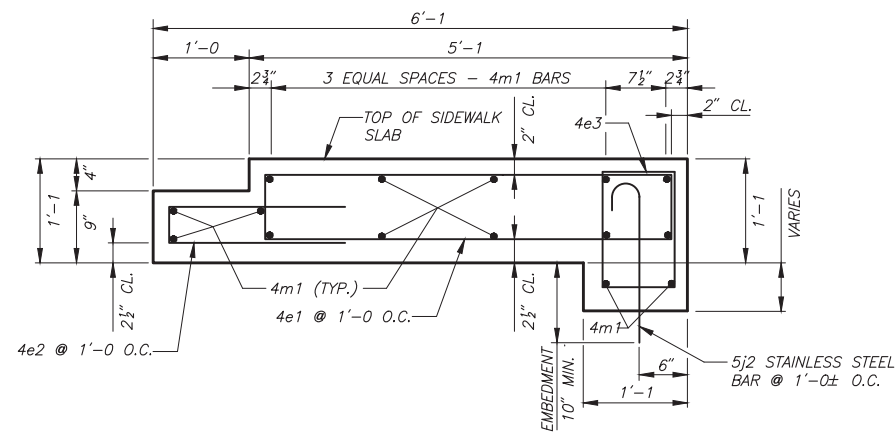
STATION 10+00.00
 CITY OF ALDEN,

0° SKEW
 IOWA

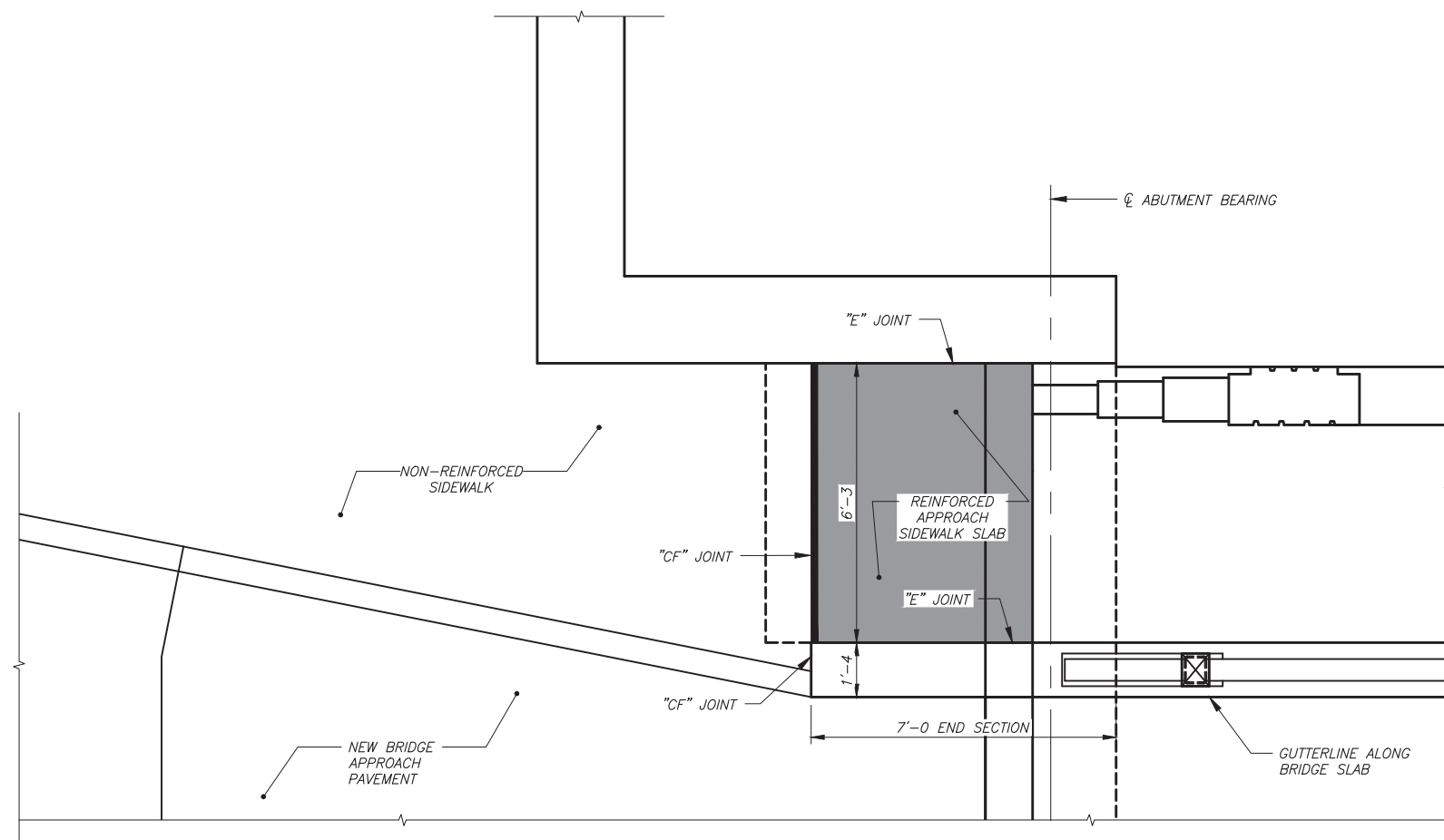
NOTE: PILASTER/RAILING NOT SHOWN



PART LONGITUDINAL SECTION THRU SOUTHWEST APPROACH SIDEWALK SLAB



APPROACH SIDEWALK SLAB DETAIL

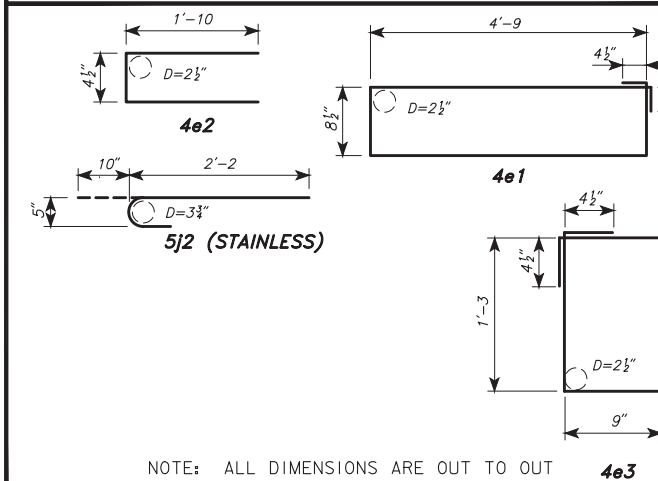


PLAN VIEW (SOUTHWEST)

REINF. BAR LIST - SW APPROACH SIDEWALK SLAB

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
4e1	SIDEWALK SLAB HOOPS		7	11'-8"	55
4e2	SIDEWALK SLAB HOOPS AT SIDEWALK LIP		7	4'-1"	19
4e3	SIDEWALK SLAB HOOPS AT PAVING NOTCH		7	4'-9"	22
4m1	SIDEWALK SLAB TRANSV. TOP AND BOTTOM		15	5'-11"	59
5j2	SIDEWALK SLAB DOWEL BAR		7	3'-0"	22
*STAINLESS STEEL BAR				STAINLESS STEEL TOTAL (LBS.)	22
Δ EPOXY COATED BARS				EPOXY COATED TOTAL (LBS.)	155

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT
D = PIN DIAMETER

ESTIMATED QUANTITIES SOUTHWEST APPROACH SIDEWALK SLAB

ITEM	UNIT	QUANTITY
① STRUCTURAL CONCRETE (BRIDGE)	CU. YD.	1.6
① REINFORCING STEEL, EPOXY COATED	LBS.	155
① REINFORCING STEEL, STAINLESS STEEL	LBS.	22

① INCLUDED IN SUPERSTRUCTURE QUANTITIES

NOTE: COST OF "E" JOINT MATERIAL AND POLYETHYLENE SHEETING IS CONSIDERED INCIDENTAL TO THE COST OF STRUCTURAL CONCRETE.

DOWEL SETTING NOTE:

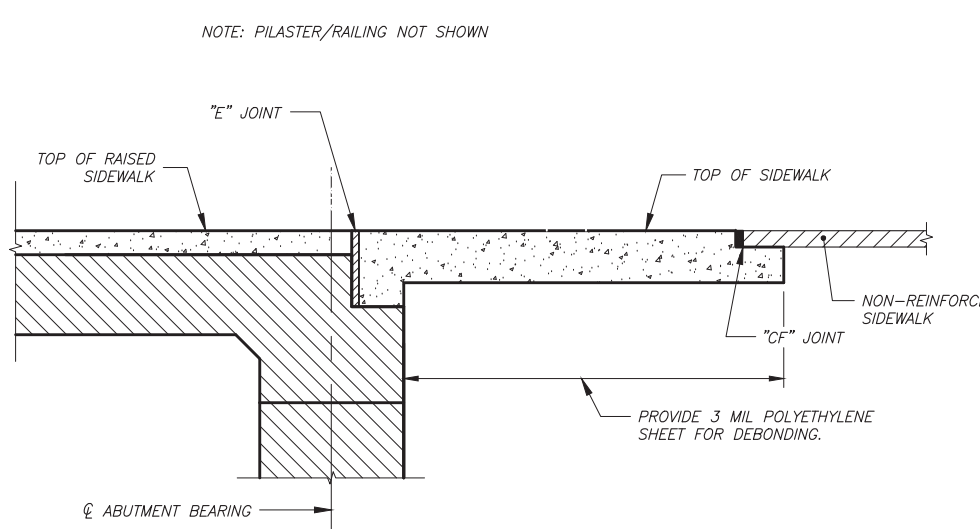
THE 5j2 BARS SHALL BE SET IN THE PLASTIC CONCRETE AT THE TIME THE PAVING NOTCH IS PLACED.
SIDEWALK SLAB DOWELS SHALL BE DEFORMED BAR GRADE 60, TYPE 316 LN IN ACCORDANCE WITH ASTM A955/A955M-01.

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK

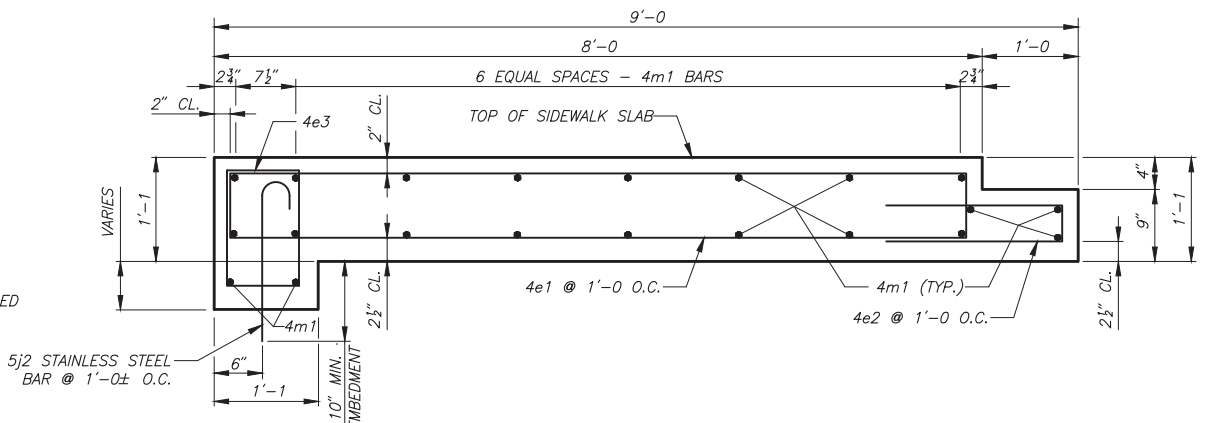
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SOUTHWEST APPROACH SIDEWALK SLAB DETAILS

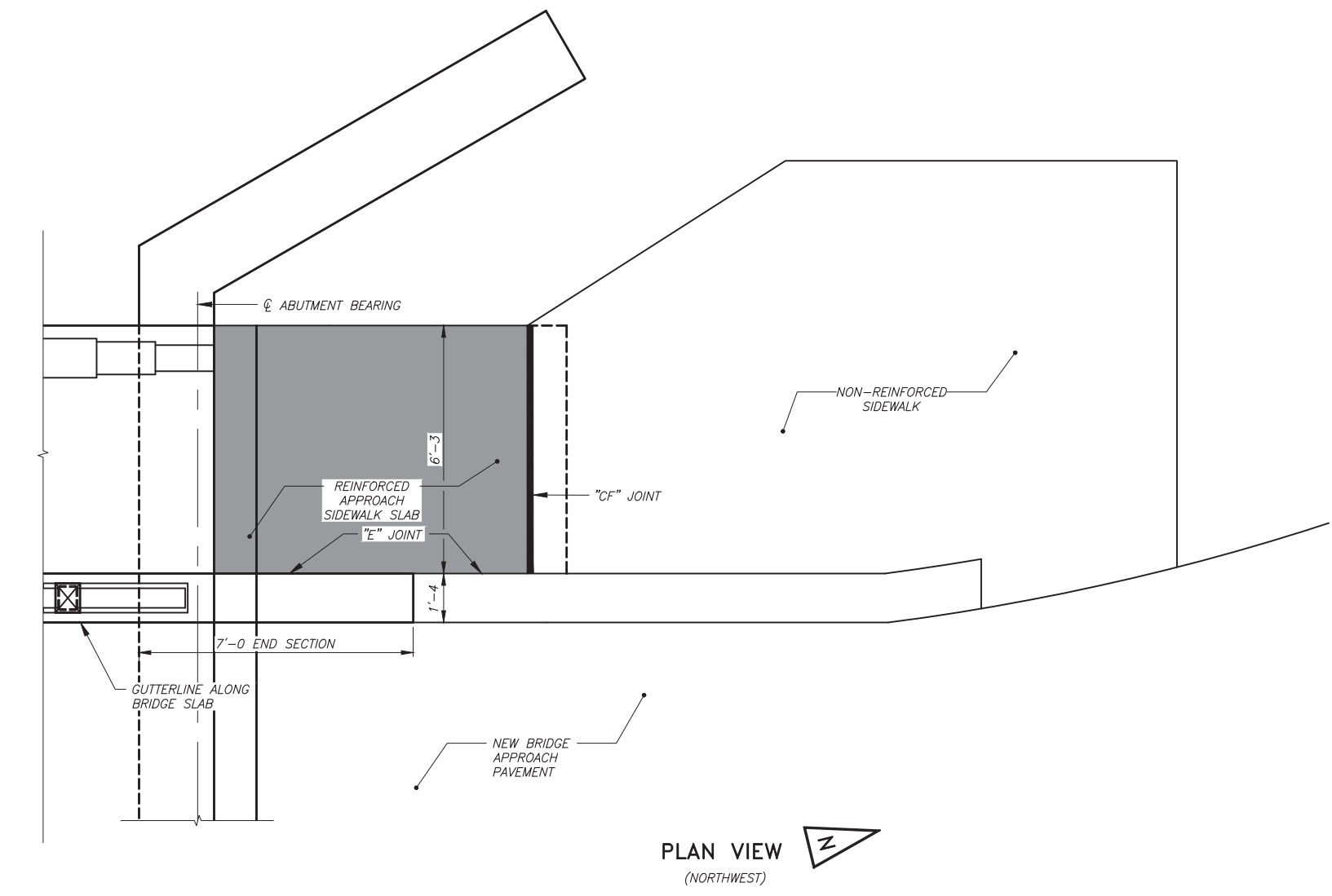
STATION 10+00.00
CITY OF ALDEN, IOWA
0° SKEW



PART LONGITUDINAL SECTION THRU NORTHWEST APPROACH SIDEWALK SLAB

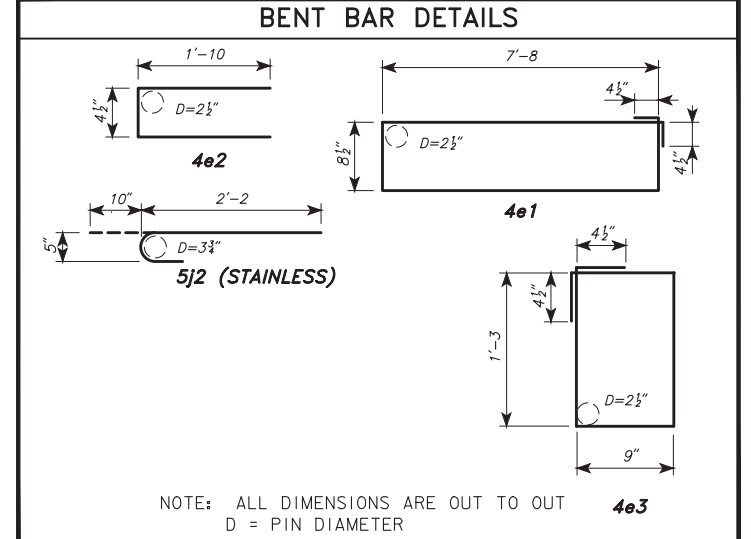


APPROACH SIDEWALK SLAB DETAIL



PLAN VIEW (NORTHWEST)

REINFORCING BAR LIST - NW SIDEWALK SLAB						
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	
4e1	SIDEWALK SLAB HOOPS		7	17'-6"	82	
4e2	SIDEWALK SLAB HOOPS AT SIDEWALK LIP		7	4'-1"	19	
4e3	SIDEWALK SLAB HOOPS AT PAVING NOTCH		7	4'-9"	22	
4m1	SIDEWALK SLAB TRANSV. TOP AND BOTTOM		21	5'-11"	83	
5j2	SIDEWALK SLAB DOWEL BAR		7	3'-0"	22	
*STAINLESS STEEL BAR					STAINLESS STEEL TOTAL (LBS.)	22
Δ EPOXY COATED BARS					EPOXY COATED TOTAL (LBS.)	206



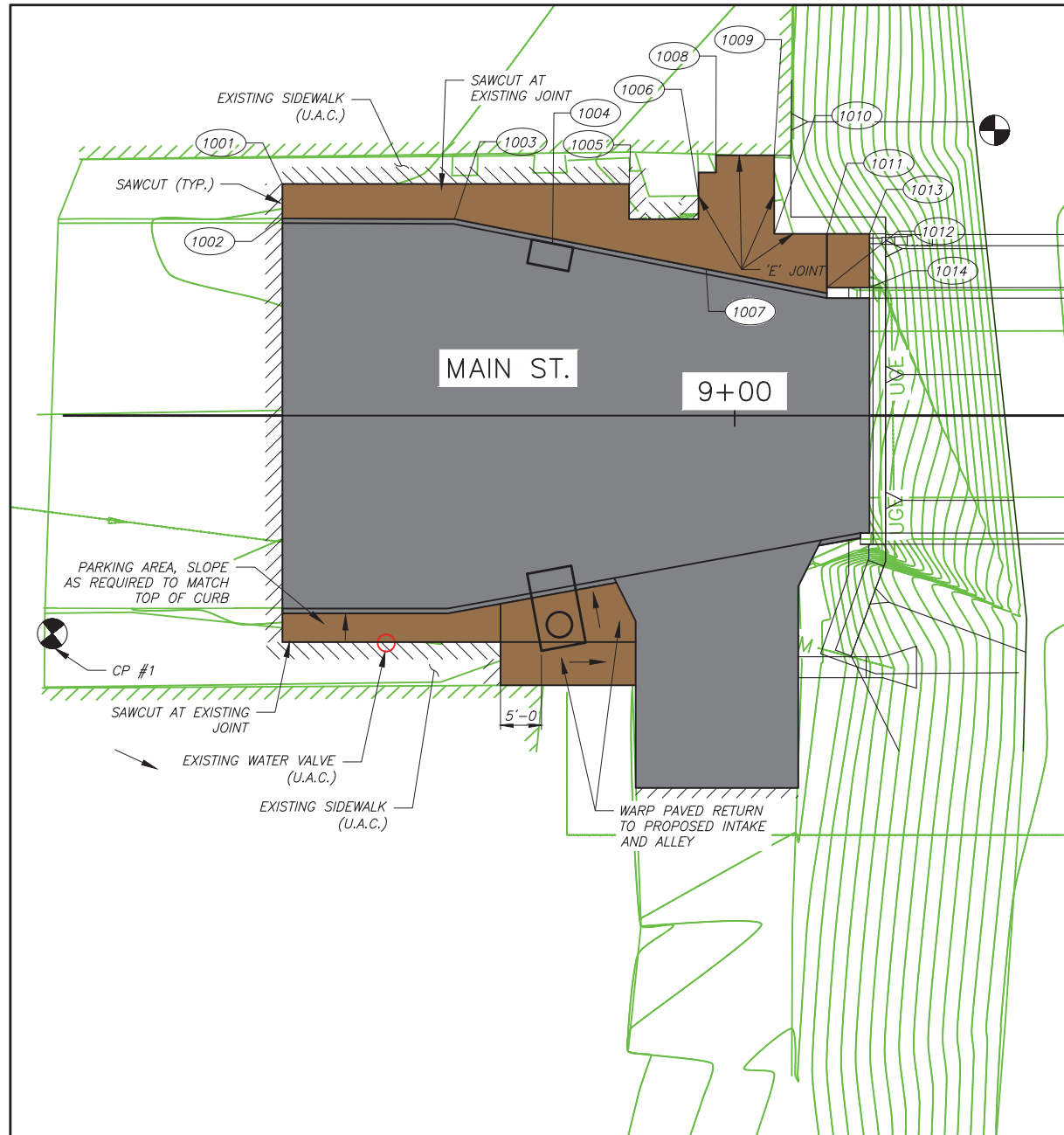
NOTE: ALL DIMENSIONS ARE OUT TO OUT
D = PIN DIAMETER

ESTIMATED QUANTITIES NORTHWEST SIDEWALK APPROACH SLAB		
ITEM	UNIT	QUANTITY
① STRUCTURAL CONCRETE (BRIDGE)	CU. YD.	2.3
① REINFORCING STEEL, EPOXY COATED	LBS.	206
① REINFORCING STEEL, STAINLESS STEEL	LBS.	22

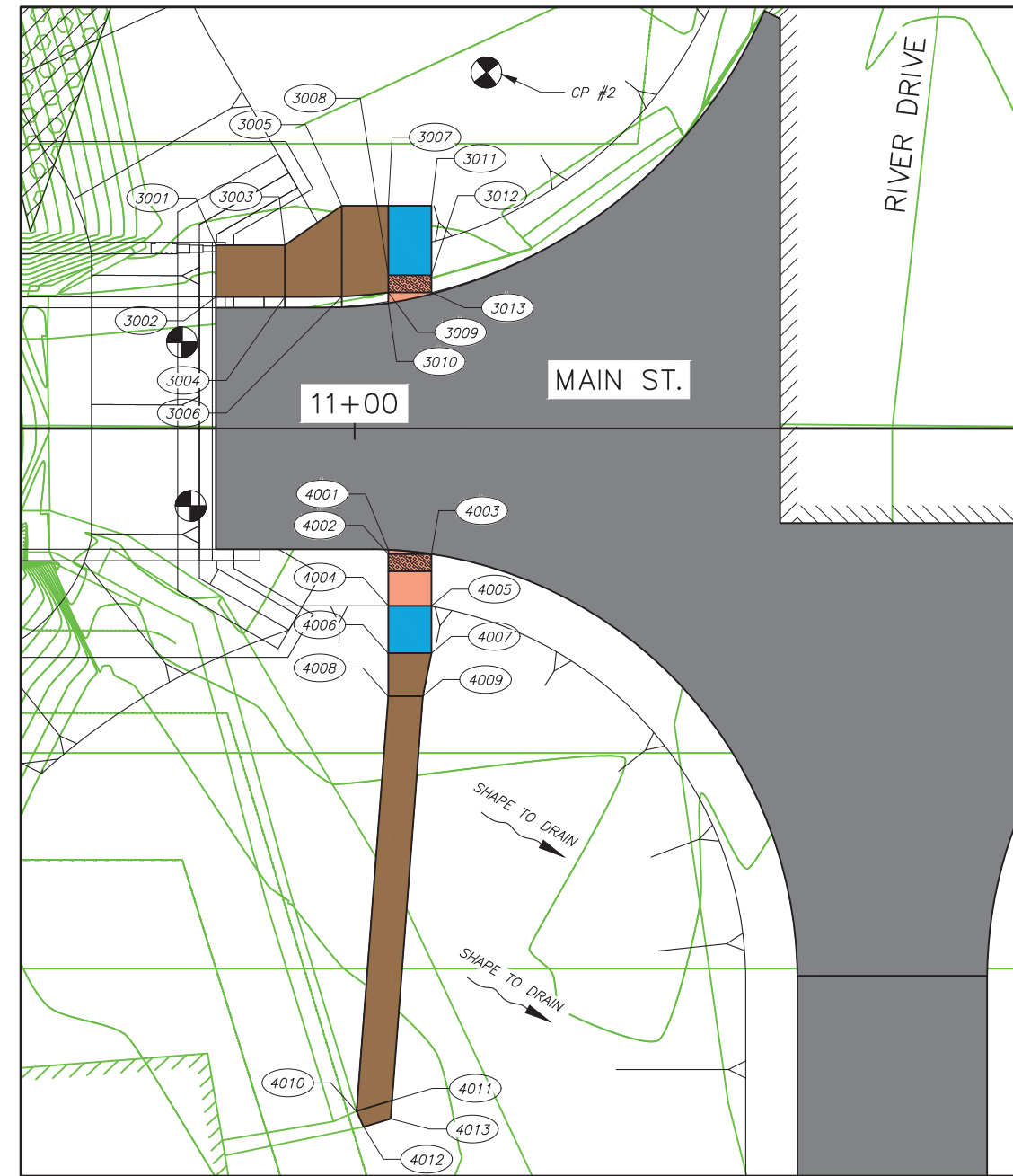
① INCLUDED IN SUPERSTRUCTURE QUANTITIES
NOTE: COST OF "E" JOINT MATERIAL AND POLYETHYLENE SHEETING IS CONSIDERED INCIDENTAL TO THE COST OF STRUCTURAL CONCRETE.

DOWEL SETTING NOTE:
THE 5j2 BARS SHALL BE SET IN THE PLASTIC CONCRETE AT THE TIME THE PAVING NOTCH IS PLACED.
SIDEWALK SLAB DOWELS SHALL BE DEFORMED BAR GRADE 60, TYPE 316 LN IN ACCORDANCE WITH ASTM A955/A955M-01.

167'-0 x 28'-0 CONTINUOUS CONCRETE SLAB BRIDGE W/ 5'-0 SIDEWALK
HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
DIAPHRAGM PIERS 47'-0 INTERIOR SPANS
NORTHWEST APPROACH SIDEWALK SLAB DETAILS
STATION 10+00.00 0° SKEW
CITY OF ALDEN, IOWA



SOUTH PLAN VIEW



NORTH PLAN VIEW

NOTE: NORTHWEST RAMP SHALL BE CONSTRUCTED WITH CURB ON S. SIDE ONLY

LOCATION	SIDEWALK QUANTITIES			REMARKS
	4" PCC SIDEWALK SY	6" PCC SIDEWALK SY	DETECTABLE WARNINGS SF	
SOUTHWEST CORNER	50.4	-	-	PAVED PARKING AND RETURN TO BE PAID FOR AS 4" PCC SIDEWALK
SOUTHEAST CORNER	30.0	-	-	
NORTHWEST CORNER	16.7	1.4	10	
NORTHEAST CORNER	27.5	3.5	10	
TOTAL	124.6	4.9	20	

PLAN VIEW COLOR LEGEND	
LINEWORK	
GREEN	EXISTING FEATURES
SHADING	
HATCH	REMOVAL OF SIDEWALK
TAN	PROPOSED SIDEWALK
GRAY, LIGHT	PROPOSED PAVEMENT
PINK	PROPOSED SIDEWALK RAMP
BLUE	PROPOSED SIDEWALK LANDING/TURNING SPACE
HATCH	DETECTABLE WARNINGS

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS 36'-6 END SPANS
 DIAPHRAGM PIERS 47'-0 INTERIOR SPANS

SIDEWALK DETAILS

STATION 10+00.00
 CITY OF ALDEN, IOWA
 0° SKEW



113-10
04-18-17

SIDEWALK COMPLIANCE

See S Sheets

- * Does not include curb
- ① Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
- ② Refer to tabulation 113-01 for bid quantities.

Point to Point	Sidewalk Designation	- " PCC Sidewalk ②	Distance* FT	Δ Elevation FT	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant? ①	Measured Slope %	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
											Point	Station	Offset	Elevation
											1001	1002	Match Existing Cross Slope	4
1001	1004	Sidewalk Running Slope	4	41.42	-0.26	-0.6%	0.5% to 5.0%				1002	8+46.08	27.50	1112.13
1002	1003	Sidewalk Running Slope	4	20.42	-0.18	-0.9%	0.5% to 5.0%				1003	8+66.50	23.50	1111.95
1003	1004	Sidewalk Running Slope	4	11.88	-0.02	-0.2%	0.5% to 5.0%				1004	8+78.00	20.50	1111.93
1004	1007	Sidewalk Running Slope	4	18.02	0.27	1.5%	0.5% to 5.0%				1005	8+87.50	27.50	1112.23
1007	1008	Sidewalk Cross Slope	4	13.55	0.21	1.5%	0.5% to 2.0%				1006	8+95.80	26.10	1112.33
1007	1012	Sidewalk Running Slope	4	15.38	0.22	1.4%	0.5% to 5.0%				1007	8+95.80	17.70	1112.20
1009	1010	Sidewalk Cross Slope	4	6.30	-0.04	-0.6%	0.5% to 2.0%				1008	8+97.80	31.10	1112.41
1010	1011	Sidewalk Running Slope	4	6.30	0.06	1.0%	0.5% to 5.0%				1009	9+04.70	31.10	1112.49
1011	1012	Sidewalk Cross Slope	4/13	6.25	-0.09	-1.4%	0.5% to 2.0%				1010	9+04.70	21.58	1112.45
1011	1013	Sidewalk Running Slope	13	5.08	0.02	0.4%	0.5% to 5.0%				1011	9+11.00	21.58	1112.51
1012	1014	Sidewalk Running Slope	13	5.08	0.02	0.4%	0.5% to 5.0%				1012	9+11.00	15.33	1112.42
1013	1014	Sidewalk Cross Slope	13	6.25	-0.09	-1.4%	0.5% to 2.0%				1013	9+16.08	21.58	1112.53
											1014	9+16.08	15.33	1112.44
3001	3002	Sidewalk Cross Slope	13	6.25	-0.09	-1.4%	0.5% to 2.0%							
3001	3003	Sidewalk Running Slope	13	8.00	-0.29	-3.6%	0.5% to 5.0%				3001	10+83.92	21.58	1112.32
3002	3004	Sidewalk Running Slope	13	8.00	-0.29	-3.6%	0.5% to 5.0%				3002	10+83.92	15.33	1112.23
3003	3004	Sidewalk Cross Slope	4/13	6.25	-0.09	-1.4%	0.5% to 2.0%				3003	10+91.92	21.58	1112.03
3003	3005	Sidewalk Running Slope	4	8.28	-0.18	-2.2%	0.5% to 5.0%				3004	10+91.92	15.33	1111.94
3004	3006	Sidewalk Running Slope	4	7.00	-0.25	-3.6%	0.5% to 5.0%				3005	10+98.92	26.00	1111.85
3005	3006	Sidewalk Cross Slope	4	10.67	-0.16	-1.5%	0.5% to 2.0%				3006	10+98.92	15.33	1111.69
3005	3007	Sidewalk Running Slope	4	5.00	-0.19	-3.8%	0.5% to 5.0%				3007	11+03.92	26.00	1111.66
3006	3009	Sidewalk Running Slope	4	5.02	-0.18	-3.6%	0.5% to 5.0%				3008	11+03.92	17.83	1111.54
3007	3008	Landing/Turning Space	4	8.17	-0.12	-1.5%	0.1% to 2.0%				3009	11+03.92	15.83	1111.51
3007	3011	Landing/Turning Space	4	5.00	-0.09	-1.8%	0.1% to 2.0%	Yes			3010	11+03.92	14.50	1111.49
3008	3009	Ramp Running Slope	6	2.00	-0.03	-1.5%	0.5% to 8.3%				3011	11+08.92	26.00	1111.57
3008	3012	Landing/Turning Space	4	5.00	-0.09	-1.8%	0.1% to 2.0%	Yes			3012	11+08.92	18.00	1111.45
3009	3010	Ramp Running Slope	6	1.33	-0.02	-1.5%	0.5% to 8.3%				3013	11+08.92	16.00	1111.42
3009	3013	Ramp Cross Slope	6	5.00	-0.09	-1.8%	0.1% to 2.0%	Yes						
3010	3013	Crosswalk Cross Slope - No Yield Condition	6	5.22	-0.07	-1.3%	0.0% to 5.0%				4001	11+03.92	14.00	1111.50
3011	3012	Landing/Turning Space	4	8.00	-0.12	-1.5%	0.1% to 2.0%				4002	11+03.92	14.50	1111.48
3012	3013	Ramp Running Slope	6	2.00	-0.03	-1.5%	0.5% to 8.3%				4003	11+08.92	14.50	1111.43
											4004	11+03.92	20.50	1111.24
4001	4002	Ramp Running Slope	6	0.50	-0.02	-4.0%	0.5% to 8.3%				4005	11+08.92	20.50	1111.19
4001	4003	Crosswalk Cross Slope - No Yield Condition	6	5.02	-0.07	-1.4%	0.0% to 5.0%				4006	11+03.92	25.50	1111.17
4002	4003	Ramp Cross Slope	6	5.00	-0.05	-1.0%	0.1% to 2.0%				4007	11+08.92	25.50	1111.12
4002	4004	Ramp Running Slope	6	6.00	-0.24	-4.0%	0.5% to 8.3%				4008	11+03.92	30.50	1110.98
4003	4005	Ramp Running Slope	6	6.00	-0.24	-4.0%	0.5% to 8.3%				4009	11+07.92	30.50	1110.93
4004	4005	Landing/Turning Space	4	5.00	-0.05	-1.0%	0.1% to 2.0%				4010	11+00.50	79.20	1109.10
4004	4006	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%				4011	11+05.40	78.00	1109.03
4005	4007	Landing/Turning Space	4	5.00	-0.07	-1.4%	0.1% to 2.0%				4012	11+01.20	81.40	1109.07
4006	4007	Landing/Turning Space	4	5.00	-0.05	-1.0%	0.1% to 2.0%				4013	11+05.30	80.20	1109.01
4006	4008	Sidewalk Running Slope	4	5.00	-0.19	-3.8%	0.5% to 5.0%							
4007	4009	Sidewalk Running Slope	4	5.10	-0.19	-3.7%	0.5% to 5.0%							
4008	4009	Sidewalk Cross Slope	4	4.00	-0.05	-1.2%	0.5% to 2.0%							
4008	4010	Sidewalk Running Slope	4	48.82	-1.88	-3.9%	0.5% to 5.0%							
4009	4011	Sidewalk Running Slope	4	47.57	-1.90	-4.0%	0.5% to 5.0%							
4010	4011	Sidewalk Cross Slope	4	5.04	-0.07	-1.4%	0.5% to 2.0%							
4010	4012	Sidewalk Cross Slope	4	2.31	-0.03	-1.3%	0.5% to 2.0%							
4011	4013	Sidewalk Running Slope	4	2.20	-0.02	-0.9%	0.5% to 5.0%							
4012	4013	Sidewalk Cross Slope	4	4.24	-0.06	-1.4%	0.5% to 2.0%							



SIDEWALK PLAN



167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS
36'-6 END SPANS

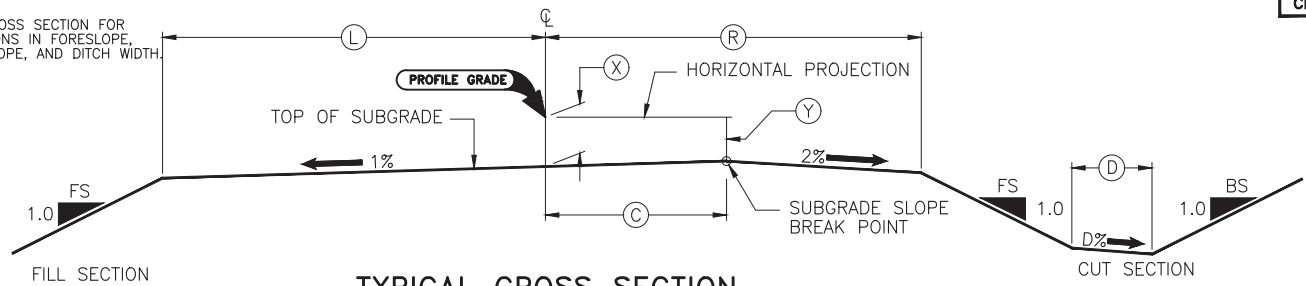
DIAPHRAGM PIERS
47'-0 INTERIOR SPANS

SIDEWALK DETAILS

STATION 10+00.00
CITY OF ALDEN,

0° SKEW
IOWA

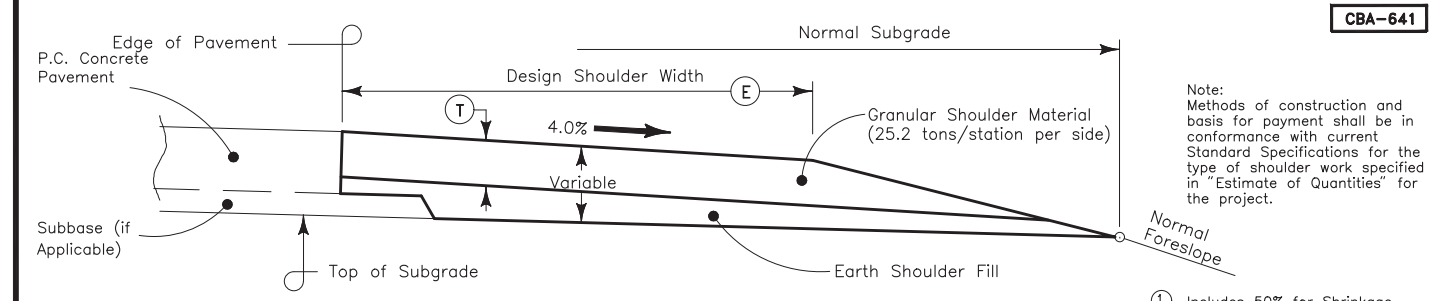
NOTE:
SEE CROSS SECTION FOR
VARIATIONS IN FORESLOPE,
BACKSLOPE, AND DITCH WIDTH.



**TYPICAL CROSS SECTION
SUBGRADE SLOPE LEFT**

NOTE:
NORMAL SECTIONS SHOWN MAY BE MODIFIED
APPROPRIATELY IN AREAS OF SUPERELEVATION
CURVES OR OTHER LOCATIONS SPECIFICALLY
DESIGNATED BY THE ENGINEER. SEE CROSS
SECTIONS AND STANDARD ROAD PLAN EW-301 FOR
MODIFICATION AND/OR ADDITIONAL INFORMATION.

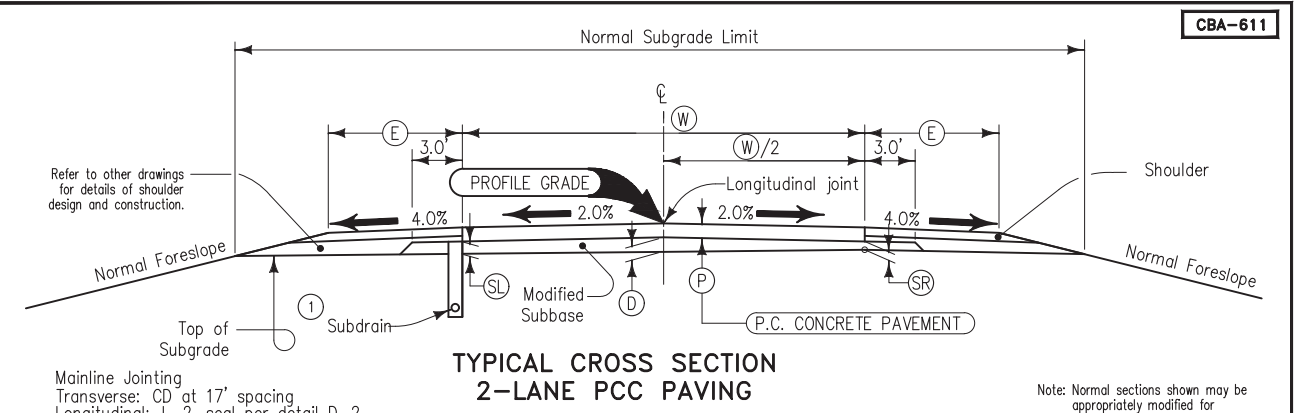
LOCATION		C	L	R	X	Y	FS	D%	BS	D _L	D _R
ROAD IDENT.	STATION TO STATION	Feet	Feet	Feet	Inches	Inches				Feet	Feet
RIVER DRIVE	101+73.52 103+93.28	11	22.0	21.6	18.0	16.7		SEE CROSS SECTIONS			



**TYPICAL SECTION
EARTH SHOULDER
Adjacent to Pavement**

LOCATION		E	T	SIDE
ROAD IDENTIFICATION	STATION TO STATION	Feet	Inches	
RIVER DRIVE	101+73.52 103+93.28	6	6	L/R

DESIGN QUANTITY RATE Earth Shoulder Material per Shoulder Per Station	
E	CU. YDS. ①
6'	26.8 (LT.) 21.2 (RT.)



**TYPICAL CROSS SECTION
2-LANE PCC PAVING**

LOCATION		W	P	SL	SR	D	E	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION	Feet	Inches	Inches	Inches	Inches	Feet	
RIVER DRIVE	101+73.52 103+93.28	22	8	8.6	6	10.0	6	GRANULAR

Note: Normal sections shown may be
appropriately modified for
areas specifically designated
by the Engineer such as inter-
sections or super-elevated
curves.
① Refer to Standard Road
Plan DR-303

STANDARD ROAD PLANS 105-4
10-18-11

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
DR-121	10-17-17	CONNECTED PIPE JOINTS
DR-122	10-18-16	CONSTRUCTION OF TYPE 'C' CONCRETE ADAPTORS FOR PIPE CULVERT CONNECTIONS
DR-201	04-21-20	CONCRETE APRONS
DR-303	10-17-17	SUBDRAINS (LONGITUDINAL)
DR-306	10-16-18	PRECAST CONCRETE HEADWALL FOR SUBDRAIN OUTLETS
EC-201	04-20-21	SILT FENCE
EC-204	10-19-21	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES
EW-401	10-20-15	TEMPORARY STREAM CROSSING, CAUSEWAY, OR EQUIPMENT PAD
EW-501	10-20-15	RURAL ENTRANCE
LI-103	04-20-21	CONDUIT AND PRECAST HANDHOLES
LI-104	10-21-14	JUNCTION BOX (CAST IRON)
MI-210	10-20-15	PCC DRIVEWAYS AND ALLEYS
MI-220	10-20-15	DETECTABLE WARNINGS AND PEDESTRIAN RAMP
PM-110	04-21-20	LINE TYPES
PM-120	10-21-14	STOP LINES AND ISLANDS
PV-101	04-21-20	JOINTS
PV-102	04-21-20	PCC CURB DETAILS
PV-103	04-21-20	MANHOLE BOXOUTS IN PCC PAVEMENT
SW-101	04-17-18	TRENCH BEDDING AND BACKFILL ZONES
SW-102	04-20-21	RIGID GRAVITY PIPE TRENCH BEDDING
SW-211	04-17-18	STORM SEWER PIPE CONNECTIONS
SW-401	04-20-21	CIRCULAR STORM SEWER MANHOLE
SW-501	04-21-20	SINGLE GRATE INTAKE
SW-504	04-21-20	SINGLE GRATE INTAKE WITH FLUSH-TOP MANHOLE
SW-514	04-17-18	BOXOUTS FOR GRATE INTAKES
SW-602	04-21-20	CASTINGS FOR STORM SEWER MANHOLES
TC-202	10-19-21	WORK WITHIN 15 FT OF TRAVELED WAY
TC-211	10-15-19	LANE CLOSURE ON LOW VOLUME ROADWAY
TC-252	04-21-20	ROUTES CLOSED TO TRAFFIC

TRAFFIC CONTROL PLAN

THIS PROJECT IS TO BE COMPLETED IN TWO STAGES. THE INTENT OF THE STAGING IS TO PROVIDE TRAFFIC ACCESS THROUGH THE SITE FOR THE WEST LEG OF RIVER DRIVE.

DURING STAGE I THE EXISTING BRIDGE AND MAIN STREET SHALL REMAIN OPEN. RIVER DRIVE EAST OF MAIN STREET SHALL BE CLOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC. CLOSURE OF RIVER DRIVE SHALL BE PER TC-252. CLOSURE OF THE MAIN STREET SHOULDER PER TC-202 WILL BE REQUIRED. DURING THIS STAGE RIVER DRIVE EAST OF MAIN STREET (STATION 101+73 TO 103+93) SHALL BE CONSTRUCTED. PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO OPENING TO TRAFFIC. CONTRACTOR SHALL COORDINATE WITH HARDIN COUNTY FOR THE INSTALLATION OF THE PERMANENT REGULATORY SIGNS PRIOR TO OPENING TO TRAFFIC.

DURING STAGE II BOTH THE WEST LEG AND EAST LEG OF RIVER DRIVE THROUGH THE INTERSECTION SHALL REMAIN OPEN. MAIN STREET SOUTH OF RIVER DRIVE SHALL BE CLOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC. CLOSURE OF MAIN STREET SHALL BE PER TC-252. CLOSURE OF THE RIVER DRIVE SHOULDER PER TC-202 WILL BE REQUIRED. DURING THIS STAGE THE MAIN STREET BRIDGE, APPROACH PAVING AND SIDEWALKS SHALL BE CONSTRUCTED.

THE CONTRACTOR MAY ELECT TO USE A LANE CLOSURE DURING STAGE I OR II FOR THE WORK ADJACENT TO MAIN STREET AND RIVER DRIVE. IF USED, THE LANE CLOSURE SHALL BE PER TC-211. LANE CLOSURES SHALL BE REMOVED DURING NON-WORKING HOURS.

HARDIN COUNTY MAINTENANCE SHALL SALVAGE EXISTING ROAD MARKERS AFTER THE ROAD IS CLOSED.

PERMANENT REGULATORY SIGNS AND THE DETOUR ROUTE FOR STAGE I AND II WILL BE THE RESPONSIBILITY OF HARDIN COUNTY.

OTHER REMAINING TRAFFIC CONTROL ITEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES 100-19
10-19-21

Possible Standards: EC-204

Location		Side	Perimeter and Slope		Ditch Check		Remarks
Begin Station	End Station		9 inch Dia	12 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	
8+88.00	9+08.00	RT.	-	20	-	-	STAGE II - ACROSS ALLEY NEAR TCE
9+30.00	9+35.00	BOTH	-	80	-	-	STAGE II - TOE OF SOUTH BANK
10+30.00	10+35.00	BOTH	-	110	-	-	STAGE II - TOE OF NORTH BANK
102+85.00	102+85.00	LT.	-	-	-	10.0	STAGE I - NORTH DITCH CHECK
103+55.00	103+55.00	LT.	-	-	-	10.0	STAGE I - NORTH DITCH CHECK
TOTAL				210		20.0	

TABULATION OF SILT FENCES 100-17
04-20-10

Refer to EC-201

Location		Side	Length LF	Remarks
Begin Station	End Station			
9+10.00	9+10.00	RT.	20.0	STAGE II - TOP OF SOUTHEAST BANK
10+65.00	11+35.00	RT.	90.0	STAGE II - TOP OF NORTHEAST BANK AND TOE OF FORESLOPE
10+75.00	11+40.00	LT.	100.0	STAGE II - TOP OF NORTHWEST BANK AND TOE OF FORESLOPE
101+85.00	102+65.00	LT.	100.0	STAGE I - TOE OF FORESLOPE
101+85.00	103+10.00	RT.	165.0	STAGE I - TOE OF FORESLOPE
103+35.00	103+93.28	RT.	65.0	STAGE I - TOE OF FORESLOPE
TOTAL			540.0	

167'-0 x 28'-0 CONTINUOUS CONCRETE
SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS DIAPHRAGM PIERS
36'-6 END SPANS 47'-0 INTERIOR SPANS

TYPICAL SECTIONS & TABULATIONS

STATION 10+00.00 0' SKEW
CITY OF ALDEN, IOWA

STORM SEWER															104-5B 10-20-15					
① Diameter or equivalent diameter * Bid Item ** For SW-545																				
INTAKES AND UTILITY ACCESSES							PIPES													
							Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.													
No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade	Bottom Well	Extension Length**	Notes	Line Number	Intake/Utility Access No.		Class 'D'	Pipe Size	Bid* Length	Design Length	Slope %	Connected Pipe Joint (DR-121)	Flow Lines			Pipe Profile Sheet No.	Notes
								From	To							Inlet Elevation	Outlet Elevation	Other Elevation		
1	8+78, 20.5' LT.	SW-501	1111.43	1107.1	-	-	S-1	TIE-IN	2	3000	30	28	1.1	-	1106.4	1106.1	-	-	-	CONNECT TO 30" CLAY PIPE SIMILAR TO TYPE "C-1" PER DR-122.
2	8+78, 20.5' RT.	SW-504	1111.43	1104.8	-	-	S-2	1	2	3000	12	40	36	1.9	-	1108.1	1107.4	-	-	-
3	9+05, 30.5' RT.	SW-401	1111.07	1104.2	-	-	S-3	2	3	3000	30	30	30	1.0	-	1105.8	1105.5	-	-	-
							S-4	3	OUTLET	3000	30	10	8	1.4	2	1105.2	1105.0	-	-	TIE ALL JOINTS. INSTALL TYPE 2 APRON PER DR-201.

REMOVAL OF PAVEMENT							110-1 04-16-13	
* Not a Bid Item								
Begin Station	End Station	Side	Pavement Type	Area		Saw Cut*	Remarks	
				SY	LF			
8+46.08	9+14.50	BOTH	HMA OVER PCC	273.4	46.0	46.0	MAIN STREET - SOUTH END	
10+64.50	11+49.34	BOTH	HMA	292.2	62.2	62.2	MAIN STREET - NORTH END	
101+73.52	103+93.28	BOTH	HMA	732.2	62.2	62.2	RIVER DRIVE	
TOTAL				1297.8				

DELIVERY AND STOCKPILING						110-13 04-20-10	
Item Description	Quantity	Units	Delivery Location	Contact Name & Number	Remarks		
LIGHT FIXTURES	2	EACH	CITY OF ALDEN	TAYLOR ROLL ; 641-858-5058			
CONCRETE END POSTS	2	EACH	CITY OF ALDEN	TAYLOR ROLL ; 641-858-5058			
FENCE PANELS	4	EACH	CITY OF ALDEN	TAYLOR ROLL ; 641-858-5058			

SIDEWALK REMOVAL					110-5 10-20-15	
* Not a bid item						
Begin Station	End Station	Area		Saw Cut*	Remarks	
		SY	LF			
8+46.08	9+14.50	54.4	60.5	60.5	SOUTHWEST CORNER	
8+46.08	9+14.50	57.8	35.0	35.0	SOUTHEAST CORNER	
10+70.00	11+00.00	22.7	-	-	NORTHEAST CORNER	
TOTAL		134.9				

PEDESTRIAN PATH CLOSURES				113-2 04-16-13	
*Assumes 6 foot wide barricade. Closures may need to be removed and re-established.					
Location	Side	Type III Barricades* No.	Remarks		
8+20	LT.	1	SIDEWALK NORTHWEST OF INTERSECTION		
8+20	RT.	1	SIDEWALK NORTHEAST OF INTERSECTION		

REMOVAL OF CONCRETE DRIVES					110-08 04-17-18	
* Not a Bid Item						
Location Station	Side	Area SY	Saw Cut* LF	Remarks		
8+98.00	RT.	50.2	19.5	HMA OF UNKNOWN THICKNESS		
TOTAL		50.2				

SURVEY CONTROL POINTS						CBA-300
Description	Northing	Easting	Station	Offset	Elevation	
CP #1, CUT "X"	8598658.47	14892863.77	8+19	26' RT.	1110.25	
CP #4, CUT "X" IN SW	8598874.94	14892985.85	10+64	14' LT.	1112.96	
CP #2, 1/2" REBAR	8598932.30	14892996.24	11+15	41' LT.	1112.69	
CP #3, CUT "X" IN PCC	8598992.62	14892920.90	11+15	138' LT.	1109.67	

167'-0 x 28'-0 CONTINUOUS CONCRETE
 SLAB BRIDGE W/ 5'-0 SIDEWALK

HIGH CONCRETE ABUTMENTS
 36'-6 END SPANS

DIAPHRAGM PIERS
 47'-0 INTERIOR SPANS

TABULATIONS

STATION 10+00.00
 CITY OF ALDEN,

0' SKEW
 IOWA

SPACE ABOVE LINE FOR RECORDER'S USE

Prepared by: Darrell G. Meyer, 1201 14th Avenue, Eldora, IA 50627 Phone: (641) 939-8118

Taxpayer is: S and I Properties, LLC, 17675 180th Street, Alden, IA 50006

Return Document to: S and I Properties, LLC, 17675 180th Street, Alden, IA 50006

QUIT CLAIM DEED

For the consideration of Twelve Thousand and Twenty Dollars (\$12,020.00) and other valuable consideration, **Hardin County, Iowa** does hereby Quit Claim to **S and I Properties, LLC**, all our right, title, interest, estate, claim and demand in the following described real estate in Hardin County, Iowa:

Twin Elms, 17669 G Avenue, Alden, Iowa (four acres more or less) That part of the South Three-quarters (S $\frac{3}{4}$) of the Northwest One-quarter (NW $\frac{1}{4}$) of the Southwest One-quarter (SW $\frac{1}{4}$) of Section Twelve (12), Township Eighty-eight (88) North, Range Twenty-two (22) West of the 5th P.M., lying West of Public Highway as now located, except the South Fifteen (S 15) rods of said tract, for use as a public roadside park.

Each of the undersigned relinquishes all rights of dower, homestead and distributive share in and to the real estate.

Words and phrases herein, including acknowledgment hereof, shall be construed as in the singular or plural number, and as masculine or feminine gender, according to the context.

EXEMPT FROM TRANSFER TAX - §428A.2(19), Code of Iowa

Hardin County, Iowa

Attest: _____

By: _____

Jolene Pieters, County Auditor

William J. Hoffman, Chair, Board of Supervisors

STATE OF IOWA, HARDIN COUNTY, ss:

On this _____ day of _____, 2021, before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared William J. Hoffman and Jolene Pieters, to me personally known, who, being by me duly sworn, did say that each is the Chairperson of the Board of Supervisors and the County Auditor, respectively, of the County of Hardin, Iowa; that the seal affixed to the foregoing instrument is the corporate seal of the County, and that the instrument was signed and sealed on behalf of the County, and William J. Hoffman and Jolene Pieters acknowledged the execution of the instrument to be their voluntary act and deed and the voluntary act and deed of the County, by it voluntarily executed.

Notary Public in and for said State

September 20, 2021

Hardin County Board of Supervisors
1215 Edgington Ave.
Eldora, IA 50627


**Re: Request for Waiver of Right to Appeal Issuance of Final Construction Permit
Shiller Site**

Dear Board of Supervisors:

The purpose of this letter is to request that the Board of Supervisors waive the 14-day appeal period of the final construction permit for the above-referenced site. As you are aware, the draft permit was issued Monday, September 20. With this, we are requesting that the Board of Supervisors vote to waive its right to appeal the construction permit. The waiver is being requested to expedite the construction schedule of this site.

We greatly appreciate your assistance in getting this on the agenda for the next board meeting. Please feel free to contact me with any questions or concerns.

Sincerely,



Kent Krause

RESOLUTION _____

APPROVAL OF WAIVER OF HARDIN COUNTY'S RIGHT TO APPEAL ISSUANCE OF FINAL CONSTRUCTION PERMIT FOR THE CONSTRUCTION OF CONFINED ANIMAL FEEDING OPERATION BY THE IOWA DEPARTMENT OF NATURAL RESOURCES

BE IT RESOLVED by the Hardin County Board of Supervisors as follows:

- Section 1. The Hardin County Board of Supervisors has received notice from the Iowa Department of Natural Resources (DNR) that Kyle Janes, Schiller Site has been issued a draft permit for the construction of a confined animal feeding operation building(s) in the NE ¼ of the SE ¼ of Section 3, T89N, R22W, Alden Township, Hardin County, Iowa in unincorporated Hardin County.
- Section 2. The Hardin County Board of Supervisors reviewed the construction permit application and the manure management plan and determined that both appeared to be in compliance with the requirements of the Master Matrix, Iowa Code Section 459 and Iowa DNR rules and recommended approval of said application on _____.
- Section 3. The Hardin County Board of Supervisors hereby waives its right to appeal the issuance of the final permit within the fourteen (14) day limit from the time of receipt of notice of the issuance of the draft permit.
- Section 4. The Hardin County Board of Supervisors encourages the Iowa DNR to issue the Final Permit immediately upon notification of this waiver.
- Section 5. The Hardin County Board of Supervisors authorizes the Board Chairman to notify the Iowa DNR of this waiver.
- Section 6. This resolution shall take effect immediately.

ADOPTED this ____ day of September, 2021 with the vote thereon being as follows:

- AYES:
- NAYS:
- OBSTAIN:
- ABSENT/NOT VOTING:

Chairperson, Board of Supervisors

ATTEST:

**BOARD OF SUPERVISORS
HARDIN COUNTY, IOWA**

1215 Edgington Ave.
Eldora, IA 50627
Phone: 641-939-8219

September _____, 2021

Attn: Cindy Garza
Iowa DNR
Field Office #2
2300 15th St. SW
Mason City, IA 50401

Re: Owner: Kyle Janes
Name of Operation: Schiller Site
Location: NE ¼ of the SE ¼, Sec. 3, Alden Twp., Hardin County
Facility ID: 71748

Dear Ms. Garza:

The Hardin County Board of Supervisors is in receipt of the draft permit for Kyle Janes' Schiller Site confinement construction permit. The Board understands that it has the right to appeal the issuance of a final construction permit within 14 days after its receipt of the draft permit under Iowa Code Section 459.304 and Iowa Administrative Rule 567-65.10(7).

After consideration of this matter, the Board supports allowing construction to begin as soon as possible. The Board voted unanimously to unconditionally and irrevocably waive its rights to appeal the above-referenced construction permit and we would ask that the Iowa DNR issue the final permit to Kyle Janes immediately.

By waiving its rights to appeal the Schiller Site's permit, the Board does not in any way waive its rights to appeal any other confinement construction permits that may be issued by the Iowa DNR to livestock producers in Hardin County in the future.

Sincerely,

Chairperson, Board of Supervisors

RESOLUTION

WHEREAS, the Iowa Legislature has passed and Governor Kim Reynolds has signed, on March 8, 2021, an Act entitled the “Election Misconduct and Penalties Act”, which is now found in Iowa Code Chapter 39A, Sections 39A.1 through 39A.7, addressed to “election officials”, in Section 39A.1, which include the “county commissioner” of elections and those in the county auditor’s office, under Iowa Code Section 331.505, “who are responsible for carrying out functions or duties under chapters 39 through 53” relating to elections; and

WHEREAS, Iowa Code Section 39A.2 through 39A.5, define Election Misconduct in four degrees of criminal offense for acts and omissions of county auditors and the designated deputies and employees acting in the scope of their official duties for claimed election related misconduct; and

WHEREAS, Iowa Code Section 39A.1(2) declares that “(t)he general assembly also recognizes that instances may arise in which technical infractions of chapters 39 through 53 may occur which do not merit any level of criminal sanction” but Iowa Code Section 39A.6(3)(a) empowers the Iowa Secretary of State to issue a “technical infraction” notice to the county auditor, (which the Legislature has not defined and about which the Secretary of State has not promulgated implementing rules), for which “the state commissioner shall also impose a fine not to exceed ten thousand dollars to be deposited in the general fund” with a removal from office if such amount is not challenged or paid after unsuccessful challenge; and

WHEREAS, the County Home Rule power is vested in the County Board of Supervisors, Iowa Code Section 331.301(2), under which the Board may “exercise any power and perform any function it deems appropriate to protect and preserve the rights, privileges, and property of the county and its residents” . . . “except as expressly limited by the Constitution of the State of Iowa,

and if not inconsistent with the laws of the general assembly”, Section 331.301(1), “subject only to limitations expressly imposed by a state law”, Section 331.301(3).”; and

WHEREAS, Iowa Code Section 670.8(1) requires that the Board of Supervisors “shall defend its officers and employees, whether elected or appointed and shall save harmless and indemnify the officers and employees against any tort claim or demand whether groundless or otherwise, arising out of an alleged act or omission occurring within the scope of their employment or duties” for “any breach of duty, whether statutory or other duty” under Section 670.1(4); and

WHEREAS, Iowa Code Section 331.324(4) requires that “the board [of supervisors] shall pay a loss for which the officer or employee is found liable beyond the amount of insurance . . . (i)f the liability of a county officer or employee in the performance of official duties is not fully indemnified by insurance” and empowers the Board “to compromise and settle any such claim”; and

WHEREAS, the county auditors and their deputies serving within the scope of their employment and duties in connection with the responsibilities they are assigned under the election laws of Iowa are threatened by the increasing animosity, partisanship, and vehemence and vitriol of persons involved in political party politics who can easily make or cause to be made criminal complaint under Sections 39A.2 through 39A.5, or cause action to be brought under Section 39A.6, whether criminal or civil, thus exposing such elected officers and their appointed deputies and employees to criminal proceedings, criminal penalties, attorneys expenses and costs, criminal or civil fines for administrative proceedings, attorneys fees and costs, and removal from office of the Auditor resulting in loss of income for two years all for undefined “technical infractions”,

NOW, THEREFORE, BE IT HEREBY RESOLVED:

1. That the Hardin county auditor and any deputy auditor or employee who performs election related responsibilities within the scope of criminal offenses and civil infractions, defined by the Election Misconduct and Penalties Act, Iowa Code Sections 39A.1 through 39A.7, shall be provided at county expense,

- (a) In the cases of criminal charges made under Iowa Code Sections 39A.2 through 39A.4, and any charges brought under Iowa Code Chapter 721, as referred to in Section 39A.7, a defense, meaning a lawyer to represent the auditor, deputy auditor, and any employees of the auditor's office so charged criminally, including any appeals to the Iowa Supreme Court.
- (b) If a conviction results under any of the charges referred to in subparagraph (a), above, the person convicted shall not be indemnified for any fine so levied in the criminal judgment.
- (c) Any person so charged as defined in subparagraph (a) shall immediately notify the Board of Supervisors of the pendency of such charges to invoke this Section.

2. That the Hardin county auditor and any deputy auditor or employee who performs election related responsibilities within the scope of criminal offenses and civil infractions defined by the Election Misconduct and Penalties Act, Iowa Code Sections 39A.1 through 39A.7, shall be provided, at county expense,

(a) in the case of technical violations and infractions under Section 39A.6, defined as civil violations under Section 39A.1, an attorney to represent the auditor, deputy auditor and any employees of the auditor's office cited for any such technical violation or infraction to file an appeal of such allegations or findings pursuant to Chapter 17A as specified by Section 39A.6(3)(b), in lieu of paying the civil fine of not to exceed ten thousand dollars specified by Section 39A.6(3)(a). Such representation shall continue for any of the successive appeals thereafter provided from the findings and conclusions of the Administrative Law Judge with appeals therefrom to the Secretary of State, the Iowa District Court and the Iowa Supreme Court.

(b) Under the provisions of Iowa Code Sections 670.8(1) and Section 331.324(4), to the extent that the Heartland Insurance Risk Pool excludes from coverages the payment of any civil fine levied under Section 69A.6(3)(a), the fine so levied and negotiated shall be paid and/or compromised by the Hardin County Board of Supervisors during or following unsuccessful completion of the civil appeal proceedings described in subparagraph (a) of this Paragraph two (2).

Chair, Hardin County Board of Supervisors

upon roll call vote before the Board on the _____ day of _____, 2021.



HARDIN COUNTY

Courthouse

HARDIN COUNTY COURTHOUSE
1215 EDGINGTON AVE.
ELDORA, IA 50627

HARDIN COUNTY Employee Change of Status Report

Please enter the following change(s) as of _____
Date

Name: _____

Department: _____

Address: _____

Position: _____

City State Zip Code

Salary/Hourly Rate: _____

Fund: _____

Status: Full-time Permanent Part-time Temporary/Seasonal Part-time

Reason of Change:

- Hired Resignation
- Promotion Retirement
- Demotion Layoff
- Pay Increase Discharge
- Leave of Absence _____
Dates

Other: _____

Dates of Employment: _____ to _____
From To

Last Day of Work _____
(if applicable)

Beyond the last day of work, the following vacation time was (or will be paid): _____ to _____
From To

Authorized by: _____
Elected Official or Department Head

Date

Authorized by: _____
Board of Supervisors

Date



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