

### OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

682 Prospect Street Berea, Ohio 44017 (440) 971-2081

#### LOI NO. 16-2021

## REQUEST FOR LETTERS OF INTEREST (LOIs) TO PERFORM PROFESSIONAL ENGINEERING SERVICES FOR:

### BRIDGE DECK REHABILITATION PROJECT NO. 71-21-05

DECK REPLACEMENT OF THE FOUGHT ROAD BRIDGE (COUNTY ROUTE 106) OVER THE MAINLINE AT MILEPOST 86.6, DECK OVERLAY OF THE RIVER ROAD BRIDGE (COUNTY ROUTE 234) OVER THE MAINLINE AT MILEPOST 93.0, AND DECK REPLACEMENT OF THE CARLEY ROAD BRIDGE (TOWNSHIP ROUTE 202) OVER THE MAINLINE AT MILEPOST 94.7 IN SANDUSKY COUNTY, OHIO

ISSUE DATE: August 27, 2021

INQUIRY END DATE: 5:00 PM (Eastern) on September 10,

2021

LETTERS OF INTEREST DUE 5:00 P.M. (Eastern) on September 17,

DATE: **2021** 

COMMISSION MEETING: October 18, 2021 (anticipated meeting for

contract award; subject to change)

#### The SBE goal for this project is 20%

In lieu of taking exceptions to the Request for Letters of Interests requirements, including but not limited to terms and conditions, scope of work statements, service levels requirements, etc., or providing assumptions that may be unacceptable to the Commission, Respondents are strongly encouraged to use the inquiry process in PART VI of this Request for Letters of Interest.

COMPANY NAME	
CONTACT NAME	
STREET ADDRESS	
CITY AND STATE	
ZIP CODE	TELEPHONE NUMBER
EMAIL ADDRESS	

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#### **LOI NO. 16-2021**

## REQUEST FOR LETTERS OF INTEREST (LOIs) TO PERFORM PROFESSIONAL ENGINEERING SERVICES FOR PROJECT NO. 71-21-05

#### PART I. BACKGROUND INFORMATION

The Ohio Turnpike and Infrastructure Commission ("Commission"), a body corporate and politic constituting an instrumentality of the State of Ohio, is responsible for operating and maintaining the Ohio Turnpike, a toll road officially known as the James W. Shocknessy Ohio Turnpike. The Ohio Turnpike is a limited access highway extending 241 miles across northern Ohio. Additional information regarding the Commission and the Ohio Turnpike can be found at <a href="https://www.ohioturnpike.org/home">https://www.ohioturnpike.org/home</a>.

The Commission issues this Request for Letters of Interest seeking to select a qualified consultant ("Consultant") to perform professional engineering services (Phase I – Site Inspection/Engineering Report/Design/Plan Preparation; Phase II – Engineering Support During Construction), as further described in <u>Appendix A</u>, for Project No. 71-21-05, Bridge Deck Rehabilitation, Deck Replacement of the Fought Road Bridge (County Route 106) over the Mainline at Milepost 86.6, Deck Overlay of the River Road Bridge (County Route 234) over the Mainline at Milepost 93.0, and Deck Replacement of the Carley Road Bridge (Township Route 202) over the Mainline at Milepost 94.7 in Sandusky County, Ohio (the "Project").

As-Built drawings of the bridges are attached to this LOI as Appendix G.

Letters of Interest shall serve to provide information for the Commission to evaluate the Respondent's qualifications to perform the services required for the Project. The Commission intends to select one consultant to enter into a contract for the Project based on the LOI submittals.

Those firms interested in responding to the Request for Letters of Interest must have a completed "Request for Qualifications" ("RFQ") package for calendar years 2021-2022 on file with the Commission to be considered as a potential Respondent. If a firm has not already responded to the RFQ, the RFQ package may be obtained through the inquiry process and its response submitted simultaneously with the LOI.

Any person responding (a "Respondent") must clearly demonstrate depth of experience in providing construction administration and inspection services, including familiarity with the various methodologies and industry best practices for performing the required tasks. Demonstrated experience in providing the necessary services is required.

#### PART II. ASSISTANCE FROM COMMISSION PERSONNEL

Commission personnel will be assigned to assist, as needed, with the coordination of the various aspects of any assignments. Commission personnel will also make available all documents in the Commission's possession to the Consultant required for completion of its duties. Generally, the Commission's Chief Engineer will administer and manage the contract for the Consultant's services.

#### PART III. LOI REQUIREMENTS

The general nature and scope of work for the Project are set forth in <u>Appendix A</u> ("Scope of Services"). The Commission expects that Respondents will have experience in providing the services of this nature and should understand the general scope of the services necessary to successfully fulfill the Commission's requirements. Respondents should prepare Letters of Interest that are concise and that include an explicit response to the items listed below:

- 1. Plainly identify the Consultant's legal name, contact person(s) and their email, phone number and physical address. Describe your organizational structure, staffing of the project, and specify the number of professional personnel by discipline based in the Ohio office(s) in which a bulk of the services will be performed.
- 2. List the types/categories of services for which the Consultant has a current Qualifications Statement on file with the Commission in response to the 2021-2022 RFQ and all ODOT Prequalifications.
- 3. List the Project Manager and other key staff members including key subconsultant staff. Address the experience of the key staff members on similar projects. Provide a one (1) page résumé of the proposed Project Manager. The proposed Project Manager must be a professional engineer registered in the State of Ohio. Additionally, provide an organizational chart and no more than half-page resumes for each staff member assigned to the Project, which shall not exceed five (5) pages. Resumes should include the qualifications of the key staff and descriptions of work performed on similar projects.
- 4. Describe your firm's approach to quality control and any programs for providing technical direction and administrative control to assure conformance with industry-accepted standards of quality for the Project.
- 5. List significant subconsultants, their categories of service, qualifications, and the percentage of work to be performed by each proposed subconsultant.
- 6. Provide a description of your Project approach, not to exceed two (2) pages. Confirm the firm's understanding of the project, proposed technical approach, cost containment practices, innovative ideas for this type of project and any other relevant information concerning your firm's qualifications to perform the services contemplated under the project.
- 7. Describe the capacity of your firm's staff and its ability to perform the work in a timely manner relative to present workload and the availability of assigned staff.
- 8. Provide references from three (3) organizations other than the Ohio Turnpike and Infrastructure Commission for similar projects and services completed in the past three (3) years. For each reference, provide a contact name and phone number.
- 9. List all services performed for the Ohio Turnpike and Infrastructure Commission over the last five (5) years.

Items 1 through 9 must be included in the LOI on single sided 8 1/2" x 11" sheets of paper. Items 1 through 9 shall not exceed fifteen (15) pages and Item 6 shall not exceed two (2) pages and shall be in no smaller than size 11 font. The Letter of Interest shall not exceed fifteen (15) pages. Items B, C, D and E listed in PART V below are excluded from the page limit. A one (1) page cover letter and a Table of Contents may be included and will not be considered as part of the fifteen (15) page limit.

## PART IV. FORM CONTRACT FOR PROFESSIONAL SERVICES FOR A CONSTRUCTION PROJECT REQUIREMENTS

In submitting a Letter of Interest, the Respondent agrees to sign the Contract for Professional Services for a Construction Project attached as <u>Appendix B</u>, incorporating the Scope of Services, within ten (10) days of the Commission's delivering of a notice of award.

#### PART V. SUBMISSION REQUIREMENTS

For Respondent's Letter of Interest to be responsive, Respondent must submit the following:

- A. A Letter of Interest addressing the items listed in PART III, and limited to 15-pages, not including items B, C, D and E listed below.
- B. An explanation of any concerns, requested information or exceptions related to the Request for LOIs, Scope of Services or the Contract for Professional Services for a Construction Project (attached as <u>Appendix B</u>).
- C. A completed, signed, and notarized Non-interest/Non-collusion Affidavit (see <u>Appendix C</u> attached hereto; see also, Ethics Policy attached as <u>Appendix D</u> which is referenced in the affidavit).
- D. Completed and Signed Disclosure and Acknowledgement Governing the Expenditure of Public Funds on Offshore Services (see <u>Appendix E</u> attached hereto).
- E. Completed Small Business Enterprise ("SBE") Utilization Certification and Plan demonstrating the commitment and means for achieving SBE participation on the Respondent's team (see <a href="Appendix F">Appendix F</a> attached hereto). If the Certification and Plan fails to meet or exceed the <a href="20%">20%</a> Goal, the Respondent is required to demonstrate that it used Good Faith Efforts to attain SBE participation that meets or exceeds the Goal. As described in <a href="Appendix F">Appendix F</a>, the Commission recognizes SBEs that are certified with the Commission or ODOT as SBE and considers DBEs certified with ODOT and firms certified as EDGE through DAS as eligible for SBE certification. Contact the Commission's Office of Equity and Inclusion with any questions concerning the SBE Program.

### PART VI. INQUIRY SUBMISSION INSTRUCTIONS

All interested parties are welcome to submit specific questions or requests for clarifications of the LOI requirements. Respondents are expected to raise any questions, exceptions, or additions they have concerning the LOI prior to the end of the Inquiry Period indicated on the cover page. These questions shall be addressed in writing and emailed to purchasing@ohioturnpike.org. Do not contact the Commission by phone. Do not direct questions regarding the Request for LOIs to anyone other than through the email address provided. At the completion of the Inquiry Period, a summary of all questions answers will be compiled, posted on the Commission's (https://www.ohioturnpike.org/business/doing-business-with-us/rfps), and provided via email to the interested parties on file. In the event that it becomes necessary to provide additional clarifying data or information or to revise any part of this Request for Letters of Interest, addenda will be posted publicly (at the same link as answers) and provided directly to all recipients of this Request for Letters of Interest.

#### PART VII. LOI SUBMISSION INSTRUCTIONS

Respondents must timely submit its Letters of Interest electronically to <u>purchasing@ohioturnpike.org</u> in pdf format by the deadline specified on the cover page of this Request for Letters of Interest. Paper copies received will be considered non-responsive.

#### PART VIII. EVALUATION OF LOIS

The Commission will form an Evaluation Team consisting of members of the Commission Engineering staff to review the Letters of Interest. Respondents may be required to make a presentation to the Evaluation Team. A Consulting Services Contract will be awarded, if any award be made, to the Respondent determined to be the most qualified to perform the required services. In determining whether a Respondent is responsive, the Commission will consider the Respondent's experience, conduct and performance on previous contracts (if any) and ability to execute the Contract properly. Factors that may be considered by the Commission are:

- A. Competence to perform the required professional design services as indicated by the technical training, education, and experience of the firm's personnel, especially the technical training, education, and experience of the employees within the firm who would be assigned to perform the services; 20 points
- B. Ability of the responding firm in terms of its workload and the availability of qualified personnel, equipment, and facilities to perform the required professional design services or design-build services competently and expeditiously; 15 points
- C. Past performance of the responding firm as reflected by the evaluations of previous clients with respect to such factors as control of costs, quality of work, and meeting of deadlines; 15 points
- D. Any other relevant factors as determined by the Commission, including but not limited to completion and submission of all items required under this Request for Letters of Interest, and any exceptions or requested deviations; 20 points
- E. Committing to a plan for meeting or exceeding the SBE Goal or satisfactorily demonstrating use of Good Faith Efforts to attain SBE certified firms' participation on the Project pass/fail;
- F. Fostering competition and economic development pass/fail; and
- G. Disclosure of any conflict of interest pass/fail.

Following the ranking of the Letters of Interest submitted, a "Scope of Services" meeting will be held with the top-ranked Respondent to ensure the Respondent's understanding of the contract requirements and fee negotiations may commence. Following this meeting, the Respondent shall submit to the Commission its proposed hourly billing rates and classifications for all permanent employees in accordance with the Ohio Turnpike and Infrastructure Commission Professional Services Method of

Compensation – Hourly Billing FY 2021 Summary, and a fee proposal for all tasks defined at the Scope of Services meeting. The top-ranked Respondent's fee will be compared to the Commission's estimates. If necessary, the Commission will attempt to negotiate a mutually acceptable fee. If those negotiations are unsuccessful, the process will be repeated with the Respondent that submitted the next ranked Letter of Interest. Following successful negotiations, a contract (see <u>Appendix B</u> for form of Contract) will be entered into based on the Scope of Services. Furthermore, the Commission will not agree to pay or reimburse for the successful Respondent's travel time and mileage to and from the work site, nor overnight lodging and/or per diems in connection with providing those services as set forth in the Scope of Services.

#### PART IX. OFFICE OF EQUITY AND INCLUSION

The Commission adopted its Small, Minority Business Inclusion Program in 2016 to ensure that businesses certified as a Small Business Enterprise (SBE), Minority Business Enterprise (MBE), and/or Disadvantaged Business Enterprise (LDBEs) have the fullest possible opportunity to participate in contracts involving the expenditure of Commission funds. The program is administered by the Commission's Office of Equity and Inclusion (OEI), which reviews each proposed contract and determines if opportunities exist and if so, applies a goal to the proposed contract. In some cases, no goal is applied to a proposed contract due to a lack of opportunity and availability of certified businesses.

The Commission's Office of Equity and Inclusion Standards and Practice Manual for the Small, Minority and Disadvantaged Business Inclusion Program is available on the Commission's website at <a href="https://www.ohioturnpike.org/business/oei">https://www.ohioturnpike.org/business/oei</a>.

When a goal is identified in an LOI, the respondent must submit the documentation provided by the Commission to show how the respondent will meet the goal. When the goal is waived, the program standards still require respondents to use "good faith efforts" or necessary and reasonable actions that would reasonably be expected to attain SBE or MBE or LDBE participation in the respondent's performance of the scope of work.

Additionally, whether the Commission applies a goal to a proposed contract or not, the program standards provide that the Commission may apply an evaluation credit of five percent (5%) to the total points awarded for responses received from SBEs, or MBEs and LDBEs consultants to perform the personal or professional services set forth in the Scope of Services. The Commission may apply this credit in the evaluation process for responses submitted in response to this LOI.

For questions about the Commission's Small, Minority and Disadvantaged Business Inclusion Program, please visit the Commission's website at <a href="https://www.ohioturnpike.org/business/oei">https://www.ohioturnpike.org/business/oei</a>.

#### PART X. DEVIATIONS, EXCEPTIONS AND ADDENDA TO REQUEST FOR LOIS

Respondents should raise any questions, exceptions or requested changes they have concerning the Request for LOIs during the Inquiry Period. If a Respondent discovers any ambiguity, error, conflict, discrepancy, omission or other deficiency in this Request for LOIs, that Respondent should immediately notify the Commission of such error and request modification or clarification of the Request for LOIs in accordance with the procedures outlined in PART VI. In the event that it becomes necessary to provide additional clarifying data or information or to revise any part of this Request for LOIs, addenda will be issued and posted on the Commission's website (<a href="https://www.ohioturnpike.org/business/doing-business-with-us/rfps">https://www.ohioturnpike.org/business/doing-business-with-us/rfps</a>) to modify the necessary provisions of the Request for LOIs.

Respondents should specify in the Proposals whether they take exception to any of the Scope of Services or the Consulting Services Contract. If a Respondent fails to notify the Commission of a known error in the Request for LOIs, and a Consulting Services Contract is awarded to that Respondent, that Consultant shall not be entitled to additional compensation or time by reason of the error or its later correction.

The Commission reserves the right to make changes to the scope of this Request for LOIs and to clarify any of the requirements, information and/or provisions of this Request for LOIs as it deems necessary. Any changes to the Request for LOIs will be made via addenda issued prior to the submission deadline. The Commission further reserves the right, if necessary, to extend the submission deadline.

#### PART XI. LEGAL REQUIREMENTS

The Respondent is required to adhere to the rules and regulations promulgated by the Commission and the State of Ohio, and all terms and conditions set forth in this Request for LOIs. Additionally, the Respondent agrees to the following:

- A. A Respondent may withdraw or modify its proposal only if notice of such withdrawal or modification is prior to the Letter of Interest due date as identified on the front cover of this Request for LOIs.
- B. Once opened, the Respondent agrees that its Letter of Interest cannot be altered, modified, or withdrawn.
- C. By submitting a Letter of Interest, the Respondent acknowledges it has read this Request for LOIs, understands it, and agrees to be bound by the terms and conditions set forth herein.
- D. The Commission is not responsible for the accuracy of any information regarding this Request for LOIs that was gathered through a source other than the Commission's website or the inquiry process described above.

The Commission reserves the right to:

- A. Reject any and all Letters of Interest in whole or in part;
- B. Require any Respondent to submit additional written or oral clarification of their Letter of Interest and to meet with any, but not necessarily all, of the Respondents to obtain additional information and/or clarification and/or to negotiate terms of any Letter of Interest submitted;
- C. May consider financial information other than any financial information required by this Request for Letters of Interest (if any) as part of the evaluation process, including but not limited to credit reports from third-party reporting agencies.
- D. Enter into a Contract with the Consultant on the basis of the Letter of Interest submitted, without written or oral modifications thereto; and
- E. Waive minor irregularities noted in a Letter of Interest when in the best interest of the Commission.

Under no circumstances will the Commission be responsible for any costs incurred by any Respondent in submitting a Letter of Interest.

#### PART XII. INQUIRY AND LOI SUBMISSION INSTRUCTIONS

Respondents must timely submit one electronic version of its Letter of Interest electronically to <u>purchasing@ohioturnpike.org</u> in pdf format before the deadline specified on the cover page of this RFP.

#### PART XIII. ONLINE NOTARY PUBLIC SERVICES

The Commission has the capability to provide online notary public services which are available to any respondent without access to a notary public for documents that must be notarized and submitted with a bid. Please allow at least 3 business days to process any request for online notary public services. Requesting party must have computer internet access and a webcam. Please contact the Commission at purchasing@ohioturnpike.org for online notary public information and services.

#### PART XIV. APPEAL PROCESS

Any aggrieved Respondent desiring to challenge the award of a contract as a result of this Request for Letters of Interest must state its complaint in writing, through electronic submission in pdf format to **purchasing@ohioturnpike.org** within five (5) calendar days of notification of the contract award. Upon receipt of a timely challenge, one or more representative(s) of the Commission shall meet with the protesting party to hear its objections. ORC Chapter 119 shall not be applicable to such meeting. No final award shall be made until the Commission either affirms or reverses its earlier determination for such contract award.

#### **APPENDIX A**

#### LOI NO. 16-2021

#### **DRAFT SCOPE OF SERVICES**

#### **PROJECT NO. 71-21-05**

#### A. PROJECT OVERVIEW

Project 71-21-05 includes, but is not limited to:

- a. Design of a deck replacement for the MP 86.6 Fought Road Bridge (County Route 106) over the Mainline and also includes all necessary substructure and superstructure repairs, as well as approach work to provide proper transition to the bridge.
- b. Design of a deck overlay for the MP 93.0 River Road Bridge (County Route 234) over the Mainline and also includes all necessary substructure and superstructure repairs, as well as approach work to provide proper transition to the bridge.
- c. Design of a deck replacement for the MP 94.7 Carley Road Bridge (Township Route 202) over the Mainline and also includes all necessary substructure and superstructure repairs, as well as approach work to provide proper transition to the bridge.
- d. Performance of a site inspection and engineering investigation of the structural components of the bridges listed above for the purpose of determining required construction work.
- e. Preparation of an engineering report summarizing the site inspection and engineering investigation.
- f. Preparation of maintenance of traffic plans to construct the proposed work while maintaining traffic on the Ohio Turnpike for the bridges in each respective Project.
- g. Communication and coordination with all stakeholders, including obtaining the necessary approvals and access required concerning the property interests of others.
- h. Consultation with the Commission staff on the recommendations.
- i. Preparation of final Construction Plans and Specifications for bidding.
- j. Provide for engineering support during construction.
- k. Prepare record drawings and final load rating reflecting the as-built condition of the structures.

#### B. SITE INSPECTION/ENGINEERING REPORT/DESIGN/PLAN PREPARATION-PHASE I

The complete scope of this Phase will be further refined at a "Scope of Work" meeting with the Consultant. A partial scope of this phase is as follows:

- 1. Site inspections and engineering investigation shall be performed to determine all deficiencies, estimated quantities, repair recommendations, removal limits, removal procedures and project staging. The Consultant is to determine the project limits, subject to the approval of the Chief Engineer.
- 2. Preparation of an engineering report summarizing the site inspection and engineering investigation, including all deficiencies and repair recommendations, as well as removal limits, removal procedures, and project staging recommendations for the bridges. The Consultant shall also provide a recommended design and construction schedule.
- 3. Preparation of Construction Drawings and Contract Documents for bidding. The Construction Drawings and Contract Documents items shall address, but not be limited to, those items listed in the Project Overview.
- 4. Additional Specifications and Special Provisions shall be prepared if not covered by ODOT Specifications and the Ohio Turnpike & Infrastructure Commission's Special Provisions. Specifications and Special Provisions submitted by the Consultant shall include reference to any and all required permits to complete the Project.
- 5. Preparation of all required Temporary Traffic Control Plans on the Turnpike. The Consultant shall coordinate with the Ohio Department of Transportation and Sandusky County as appropriate for the Project.
- 6. Communication and coordination with all stakeholders during the design and construction activities to prevent conflicts with other planned projects and to address concerns of the stakeholders and to facilitate timely design completion.
- 7. Preparation of a construction cost estimate for the project.
- 8. Review and evaluation of construction bids received for the Project and submission of a recommendation concerning award to the Chief Engineer.
- 9. Plans shall be prepared for anticipated 2024 construction, with final Plans, Specifications, and Estimate due to the Commission on April 1, 2023.

#### C. ENGINEERING SUPPORT DURING CONSTRUCTION-PHASE II

The Consultant is to provide engineering support during construction operations as designated by the Commission. Construction services are to include, but not be limited to, the following:

1. Consulting with the Commission on all questions of engineering with regard to construction of

the Project.

2. Reviewing the Contractor's fabrication Plans, material and products submittals and brochures and

shop drawing submittals. Advising the Commission on the acceptability of such submittals.

3. Preparing Record Plans of the completed construction from information provided by the

construction contractor and field records of construction activity. Revisions are to be noted on

the original Project AutoCAD drawings.

4. Updating the Bridge Load Rating for the rehabilitated condition (if required), utilizing

AASHTO's AASHTOWARE software.

D. GENERAL

The Commission expects three stages of design review to occur. In addition to the Commission's

Engineering staff performing reviews at each stage, the Commission anticipates causing a third-party

engineering consultant to review each deliverable. The three design review stages are anticipated upon

the following milestones: (1) completion of the investigation and evaluation phase; (2) completion of

preliminary plans (approximately 30%); (3) completion of 90% plans. Consultants shall incorporate

review time of at least two weeks for each stage into its design schedule.

The Commission's Sample Specifications, Standard Drawings, Standard Conditions for Public

Improvement Contracts, and original Construction Plans are available for download through .ftp site

system upon request from any interested firm with a 2021-2022 Biennial Statement of Qualifications on

file with the Commission.

3

# CONTRACT FOR PROFESSIONAL SERVICES FOR A CONSTRUCTION PROJECT for Project No. 71-21-05

This Contract, entered into as of the last date of the signature below, is between the **Ohio Turnpike and Infrastructure Commission**, a body corporate and politic constituting an instrumentality of the State of Ohio, located at 682 Prospect Street, Berea, Ohio 44017 (the "Commission"), through its Executive Director under the authority of Section 5537.04(A)(12), Article V, Section 1.00 of its Code of Bylaws, and Resolution No. \_\_\_\_\_, adopted \_\_\_\_\_\_, 2021, and [*Consultant*], an Ohio [*corporation, limited liability company, etc.*], located at [*insert address*] ("Consultant"), through its authorized representative.

This Contract pertains to architectural/engineering design services during construction for the following: Project No. 71-21-05, **Bridge Deck Rehabilitation**, Deck Replacement of the Fought Road Bridge (County Route 106) over the Mainline at Milepost 86.6, Deck Overlay of the River Road Bridge (County Route 234) over the Mainline at Milepost 93.0, and Deck Replacement of the Carley Road Bridge (Township Route 202) over the Mainline at Milepost 94.7 in Sandusky County, Ohio (the "Project").

#### **RECITALS**

	THE CITTLES	
	, 2021, the Commission issued Request follows:  Ols") to select a consultant to provide architect the Project;	
	ant submitted a Letter of Interest dated services described in the Request for LOIs; and	
perform the consulting se	ssion's Engineering staff reviewed the Letter ervices for the Project, and among those sub- ultant was the most qualified firm to perform the	nitting letters of interest,
WHEREAS, onprofessional consulting ser	, 2021, the Consultant submitted a fee ervices required for the Project (the "Fee Propo	proposal to perform the sal");
WHEREAS, the Commis reasonable and appropriate	ssion's Engineering staff reviewed the fee e;	proposal and deemed it
WHEREAS, the Executive Contract to Consultant; an	e Director approved the Chief Engineer's record,	nmendation to award this
WHEREAS, the Commiss No. adopted	sion authorized the award of the Contract to Con	nsultant under Resolution

NOW, THEREFORE, in consideration of the mutual promises set forth herein, the Commission agrees to pay for, and the Consultant agrees to provide the professional services identified herein on the terms and conditions set forth below.

## ARTICLE 1 GOVERNING DOCUMENTS

- 1.1 Contract Documents. The documents that comprise this Contract include this Contract, the Consultant's Fee Proposal, dated \_\_\_\_\_\_\_, 2021 (attached hereto as <a href="Exhibit A">Exhibit A</a>) and the Final Project Scope, if any (attached hereto as <a href="Exhibit B">Exhibit B</a>) (the "Contract Documents"). In the event of a conflict, the terms and conditions of this Contract control.
- **1.2 Designated Personnel.** Prior to performing any services, the Consultant shall provide to the Commission for approval a list of personnel designated to perform the services along with their resumes and certifications, as required. Only those designated personnel may perform those services unless Consultant obtains the Commission's approval of any substitutions or additions in advance of any change.

### 1.3 Specifications.

- 1.3.1 Unless otherwise instructed in writing, any inspection, test or sampling to be performed by the Consultant, shall be in accordance with the Contract Documents of the Commission's Public Improvement Contract, as well as the Specifications for the inspection or testing as most recently published by the American Society for Testing Materials ("ASTM"), the American Association of State Highway and Transportation Officials ("AASHTO"), or the current edition of the State of Ohio Department of Transportation ("ODOT") manual entitled, Construction and Material Specifications, whichever is applicable, unless other standards and requirements are applicable, in which case the current publications containing such standards or specifications shall be followed.
- 1.3.2 If assigned to perform inspection services, the Consultant shall inspect the work of each contractor for Defective Work in accordance with the duties and responsibilities described in the Contract Documents of the Commission's Public Improvement Contract, which is incorporated by reference into any assignment issued to the Consultant for inspection services. If, through inspection or otherwise, the Consultant shall become aware of any Defective Work on the Project, the Consultant shall report all Defective Work to the Commission, together with recommendations for the correction thereof. Upon completion of any inspection services assigned to the Consultant, it shall provide certification, in writing, to the Commission that the inspections were completed in strict accordance with the specification shall be on behalf of both the Consultant as an entity and the individual inspector assigned to perform the inspection services.

## ARTICLE 2 TERM, CONTRACT FEES AND PAYMENT

- **2.1 Term.** This Contract shall become effective upon the last date written below and, subject to the termination provisions of this Contract, continue to be in full force and effect until the work required under the Contract is completed by the Consultant to the satisfaction of the Commission.
- 2.2 Contract Fee. The Commission shall pay the Consultant for its proper performance under this Contract an amount up to the not-to-exceed amount of \$ [insert] as set forth in Exhibit A, to perform the services. The Commission may amend the Contract in writing, prior to the performance of any modified or additional work, in order to incorporate additional Fee Proposals as sought by the Commission. Should the Commission authorize an amendment of this Contract for the performance of any additional services on this Project, any unexpended funds allocated for compensation to the Consultant for a phase within the Project shall not be allocated or added to the not-to-exceed amount established for the performance of any other phases or services. The Commission will not pay for travel time to and from the work site.
- **2.3 Billing Rates.** The Commission shall compensate the Consultant based upon the actual effort expended performing the necessary services and Approved Billing Rates derived from actual wage rates, overhead rate and fixed fee using the following formula:

Billing Rate = [Hourly Rate + (Hourly Rate)(Approved Overhead Rate)] x = 1.10 with the following definitions:

- 2.3.1 Hourly Rates. Hourly Rates shall mean the direct cost of salaries and/or wages of the personnel of the Consultant, as applicable, including professional, technical, management, administrative and clerical employees, and principals engaged on the Project as related to their time devoted to the Project. All hourly rates are subject to the approval of the Commission's Chief Engineer. The Commission also reserves the right to "cap" the hourly billing rates for any individual assigned to a project in accordance with the document entitled Ohio Turnpike and Infrastructure Commission Professional Services Method of Compensation Hourly Billing FY 2021 Summary. (Attachment G of the 2021-2022 Biennial Request for Qualifications) This document will be updated annually.
- **2.3.2 Approved Overhead Rate.** The Consultant's overhead rate shall be reviewed by the Commission in accordance with the ODOT Consultant Audit Guide. The overhead rate for this Contract shall be approved by the Chief Engineer but shall not exceed 160.00%. The rate may only be amended by mutual agreement of the parties in writing.
- **2.3.3 Fee.** The Consultant shall be entitled to receive a profit as a part of the Approved Billing Rate described in Subsection 2.3.4 below attributable to the approved

personnel on the Project. The profit allowance shall be ten percent (10%), and thus the profit multiplier for any given assignment will be 1.10.

- Billing Rate Approval. The Consultant, prior to beginning work on the Project, 2.3.4 must submit and obtain written approval from the Commission of the Billing Rate for each individual it expects to work on the Project, including their job classification. Prior to assignment of any new personnel to the Project, the proposed Billing Rates and résumés must be submitted for prior written approval by the Commission. Overtime rates will only be paid as approved by the Commission. The Commission reserves the right to cap billing rates for any personnel assigned to the Project. The Consultant shall invoice its personnel expenses based on its Approved Billing Rates. Compensation for any services not specifically provided for shall be determined by prior agreement between the Executive Director or the Chief Engineer of the Commission and the Consultant: otherwise the Commission agrees to compensate the Consultant in accordance with rates submitted. The schedule of rates include all overhead costs except as hereinafter modified. Overtime must have prior approval of the Executive Director or the Chief Engineer of the Commission. Overtime rates will only be in effect after 40 (forty) hours of regular time is worked unless this provision is in conflict with other labor agreements to which the Consultant is a party. The time period for the assessment of regular time shall be from Monday through Friday of a standard work week, and for purposes of overtime, said personnel must have worked on the assigned Turnpike project or at another Ohio Turnpike location on another Commission project. Time in excess of forty (40) hours for this period as well as Saturday and Sunday will be considered as overtime.
- **2.4 Reimbursable Expenses.** No extra charges will be assessed for preparation of invoices, computer time, travel time to and from the job site, or for incidental material, services or equipment, except as hereinafter provided. The Commission agrees to pay the actual costs of telephone, printing, postage and other similar incidental expenses incurred by the Consultant in connection with any services performed pursuant to this Contract when such expenses are fully documented. In the event that specialized materials or equipment is required, they shall be provided by the Consultant at the expense of the Commission provided that the Chief Engineer has given prior approval to such expenditure.
  - 2.4.1 Vehicles. The Commission also agrees to reimburse the Consultant for the use of Consultant's vehicles (or vehicles of Consultant's employees) at the rate the Consultant reimburses its employees, when such vehicles are used pursuant to this Contract, up to the current IRS mileage allowance rate. Mileage to and from the work site shall not be reimbursed. The approved mileage charges shall not exceed \$43.00 per day per vehicle, unless previously authorized in writing by the Chief Engineer. Furthermore, mileage logs shall be completed daily by the Consultant's employees and submitted with monthly invoices as supporting documentation for mileage reimbursement. If mileage logs are not completed daily, no reimbursement will be made.

- 2.4.2 Toll Free Access. The Consultant and its employees shall have toll-free passage on the Ohio Turnpike in performing work pursuant to this Contract. However, such toll-free passage shall be strictly prohibited for any personal use by the Consultant's employees. Non-Revenue transponders will be issued to the Consultant upon the submittal of a written request for the requested number of transponders. These transponders are for assigned project use only and it shall be the responsibility of the Consultant to manage and monitor the proper usage of these transponders. The Commission will audit these transponders on a regular basis and should unauthorized activity be detected, the authorization for non-revenue privilege may be revoked. These transponders shall be returned at the completion of the assignment. Should the Consultant return less than the number of transponders issued, there shall be a charge of \$100.00 per transponder for each one not returned.
- Meals and Lodging. During performance of said professional services, overnight 2.4.3 lodging will be provided for Consultant's employees only when it is deemed advantageous to the assignment, and prior approval in writing is granted by the Commission's Executive Director or Chief Engineer. In the event said overnight lodging has been approved by the Executive Director or the Chief Engineer, the cost of meals and lodging shall be reimbursed at a rate the Consultant reimburses its employees, but not in amounts that exceed the Federal CONUS (Continental United States) rates established by the Federal Government and published at https://www.gsa.gov/travel/plan-book/per-diem-rates. CONUS rates will dictate the maximum reimbursement a traveler will receive for lodging and meals (excluding incidentals) by city. Travel reimbursement is based on the location of the work activities and not the accommodations. The location of the work activities shall be the city/county where a majority of the work is being performed for the Project. Reimbursement for lodging and meals (excluding taxes) will be provided on an actual costs basis up to the maximum CONUS rates. Documentation of actual expenditures for lodging and meals is required. For meals, the per diem rates may be used for reimbursement with verification of travel status – refer to the CONUS rules concerning partial days. The Commission agrees to reimburse the Consultant for meals up to the maximum CONUS per diem rates, or at the actual rate the Consultant reimburses its employees, whichever is less.
- 2.5 Reporting. The Consultant shall provide, and shall require all sub-consultants to provide, any requested data to determine compliance with the representations made in the approved SBE Participation Certification, Utilization Plan, Demonstration of Good Faith Efforts and Statements of Intent to Contract and Perform for each invoice through the Commission's online diversity compliance portal: https://ohioturnpike.diversitycompliance.com/Default.asp. The Consultant and all sub-consultants shall timely submit all required data prior to any reasonable due dates, and to check the online diversity compliance portal on a regular basis to manage contact information and contract records. The Consultant shall require all sub-consultants to have completed all requested items and maintain contact information on record that is accurate and up to date. The Consultant shall include these disclosure and reporting requirements in all subcontracts under the Contract and further require that all subcontractors place the same obligation in each of their lower tier contracts.

- The Commission may require additional information related to compliance at any time before, during, or after contract award.
- **Taxes.** The Commission is a tax-exempt entity and will provide the Consultant a copy of the Commission's tax exemption certificate.
- 2.7 Invoices and Payment. The Consultant shall submit invoices no more frequently than once a month in a form agreeable to the Commission. The Consultant shall render its invoices to the Commission on or about the 10th day of the month after any such services are performed. Undisputed invoices shall be due and payable by the Commission within thirty (30) days from the date of receipt thereof. Invoices for any other amounts will be submitted to the Commission as the amounts come due. For any services performed on a time and materials basis, the invoice will also state the total number of hours worked by each individual performing services during the preceding month. Invoices shall be accompanied by such supporting documentation as required by the Commission. The Commission may withhold payment for services that have not been properly performed or completed, and shall not be responsible for cost overruns incurred by the Consultant due to errors and omissions by the Consultant made during the performance of its services on any Turnpike project.
- 2.8 Audit. The Consultant shall keep full and detailed records and accounts related to its rates, fee and reimbursable expenses and exercise such controls as may be necessary for proper financial management and to substantiate all costs incurred by implementing the accounting and control systems generally followed by consultants in the area or projects similar in nature. The accounting and control systems shall be satisfactory to the Commission. The Commission and the Commission's auditors shall, during regular business hours and upon reasonable notice, be afforded access to, and shall be permitted to audit and copy, the Consultant's records and accounts, including complete documentation supporting accounting entries, books, correspondence, instructions, drawings, receipts, subcontracts, Subcontractor's proposals, purchase orders, vouchers, memoranda and other data relating to this Contract. The Consultant shall preserve these records for a period of three years after final payment, or for such longer period as may be required by law.

## ARTICLE 3 TIME FOR COMPLETION

- 3.1 Time for Completion. Time is the essence of this Contract. The Consultant is to complete its work [describe], unless the Chief Engineer grants a request for an extension from the Consultant. Such extension request must be made in writing to the Chief Engineer no later than seven (7) days following the date upon which any event occurs that gives rise to the need for additional time. The extension request must include a description of the event, the reasons why that event justifies an extension, the duration of the extension sought, and any other documentation requested by the Chief Engineer.
- **3.2 Authorization to Proceed.** The Consultant is to proceed with the required services upon the execution of this Contract.

## ARTICLE 4 THIRD PARTIES

- 4.1 Assignment. Consultant may not assign, transfer, convey or otherwise transfer or dispose of its rights, title, interest in, or its duty to perform or supervise the performance of any of its obligations hereunder, to any other person, company, corporation or entity without the prior written approval of the Commission. Any purported assignment in violation of the preceding sentence will be void. Any approved assignment shall not relieve the Consultant from any of its responsibilities under the Contract or imply a willingness on the part of the Commission to give any subsequent or other consent, nor stop the Commission from refusing same; nor shall any such consent confer upon any assignee or transferee any right to assign or transfer any rights conferred upon such transferee.
- 4.2 Subcontracting. The Consultant shall not sublet or subcontract, nor shall any approved sub-consultant commence performance of, any part of the work or services included in this Contract without the previous written approval of the Commission. Subcontracting, if permitted, shall not relieve the Consultant of any of its obligations under this Contract. The Consultant shall be and remain solely responsible to the Commission for the acts or faults of any sub-consultant and of such sub-consultant's officers, agents and employees, each of whom shall for this purpose, be considered an agent or employee of the Consultant to the extent of its subcontract. The Consultant shall file a conformed copy of the applicable subcontract with the Commission. The Consultant and any sub-consultant shall jointly and severally agree that the Commission is not obligated to pay or to be liable for the payment of any sums due any sub-consultant. References to the Consultant in this Contract include authorized sub-consultants of the Consultant.
- 4.3 Waiver of Defense. The Consultant covenants for the benefit of the Commission that it will not defend against any claim, suit or action brought against the Consultant or the Commission on account of any tortious act or contractual liability alleged to have been committed or incurred in the Consultant's performance of the Contract during the term thereof, on the ground that said performance, or that any duty or obligation of the Consultant hereunder was in fact being discharged by any person, firm or corporation other than the Consultant, unless the alleged cause of action occurred subsequent to an assignment or transfer of the entire Contract, which assignment or transfer was duly consented to by the Commission in writing.
- **4.4 Beneficiaries.** There are no intended third-party beneficiaries of any provision of this Contract.
- 4.5 Independent Contractor. The Consultant is an independent contractor for all purposes under this Contract. This is not an agreement of partnership or employment of the Consultant or any of the Consultant's employees by the Commission for the purpose of the Public Employees Retirement System ("PERS"), Workers' Compensation, or for any other purpose. The Consultant shall not pledge or attempt to pledge the credit of Commission or in any other way attempt to act on the Commission's behalf in an effort to bind the

Commission to any additional agreements. The Consultant agrees to indemnify the Commission for any and all sums that are due and owing to the Internal Revenue Service (IRS) for withholding FICA and unemployment or other state and federal taxes. The Consultant further agrees to make such payments to the IRS and appropriate state authorities for withholding FICA and unemployment taxes.

4.6 **Representations and Warranties.** The Consultant represents and warrants that: (1) so far as the Consultant knows, no member, employee, or agent of the Commission has any interest, either direct or indirect, in the Contract; (2) the Consultant has not employed or procured the employment of anyone to solicit or secure the Contract with the Commission other than those disclosed in the Proposal; and (3) the Consultant will fulfill the representations in its Small Business Utilization Certification and Plan submitted with its Letter of Interest, which the Commission relied upon in selecting the Consultant for contract award; and (4) all materials, including their use by the Commission in unaltered form, will not infringe any third party copyrights, patents or trade secrets that exist as of the date of this Contract and that arise or are enforceable under the laws of the United States of America. If the Commission shall hereafter determine that any of the foregoing representations is false, it may, upon written notice to the Consultant, immediately terminate the Contract and thereafter refuse to make payments thereunder, whether or not such payments are for Services already performed, and may also recover its damages, if any, for breach of warranty; or in the event such false representation was as to the existence of any agreement providing for a bonus, fee, commission, percentage, or other form of contingent compensation, the Commission may, in its discretion, elect to continue the Contract in force by deducting from the payments to be made thereunder to the Consultant the amount of such bonus, fee, commission, percentage, or other contingent payment.

## ARTICLE 5 INDEMNIFICATION

- **5.1 Generally.** The Consultant shall defend, indemnify and hold harmless the Commission, its Commission members, Executive Director, officers and employees ("Indemnified Parties"), from and against any and all liability, including claims, demands, losses, damages, settlements, judgments, costs and expenses (including reasonable attorney's fees and any costs of defense) of every kind and description arising out of or in connection with, or occurring during the course of, performance of the Contract, whether directly or indirectly, including but not limited to where such liability is:
  - **5.1.1** founded upon or grows out of, directly or indirectly, the acts, errors, omissions, undertakings, representations or warranties of the Consultant, its officers, employees, agents, independent consultants, or sub-consultants;
  - 5.1.2 founded upon, or grows out of, directly or indirectly, the breach by Consultant of any term or condition of this Contract, including but not limited to the breach of any representations or warranties and in particular the breach of its express representation that it is an independent contractor and in compliance with all applicable laws related to work as an independent contractor; or,

- **5.1.3** founded upon claims of violation of United States patents, trademark, trade secrets, proprietary information, copyrights or other intellectual property rights in existence on the date of this Contract resulting from the Consultant's or the Commission's use of any equipment, software, technology, documentation, and/or data developed in connection with the services and products described in the Contract.
- **5.2 Application.** Nothing herein contained shall require the Consultant to reimburse the Commission for acts or omissions caused by the sole negligence of the Commission. The Consultant shall waive and shall not assert any claim against the Commission for any injury to persons, whether or not resulting in death, or any loss or damage to property occurring from any cause unless such injury, loss or damage is due solely to the negligence of the Commission, its agents or employees.
  - 5.2.1 If a regulatory body or court of competent jurisdiction finds that the Consultant is not an independent contractor or is not in compliance with applicable laws related to work as an independent contractor, based on the Consultant's own actions, the Consultant will assume full responsibility and liability for all taxes, assessments, and penalties imposed against the Consultant or the Commission resulting from that contrary interpretation, including taxes, assessments, and penalties that would have been deducted from the Consultant's earnings if the Consultant had been on the Commission's payroll and employed as a Commission employee.
  - 5.2.2 If a third-party claim causes the Commission's quiet enjoyment or use of any product supplied by the Consultant to be seriously endangered or disrupted, or, should a court order be issued against the Commission restricting its use of any product and should the Consultant determine not to further appeal the claim issue, at the Commission's sole option, the Consultant shall provide at its sole expense, the following: Purchase for the Commission the rights to continue using the contested product(s); or Provide substitute products to the Commission which are, in the Commission's sole opinion, of equal or greater quality, or Refund all monies paid to the Consultant for the product(s) subject to the court action. The Consultant shall also pay to the Commission all reasonable related losses related to the product(s) and for all reasonable expenses related to the installation and conversion to the new product(s).
  - **5.2.3** Should the Commission elect to have the Consultant defend one or more of the Indemnified Parties, the Commission shall have the right, but not the obligation, to select the counsel that will provide that defense, to determine all points of control on behalf of the Commission, and to approve or disapprove of any settlement.
  - **5.2.4** The indemnity obligations of the Consultant shall not be limited by the types, terms, conditions, or limits of liability of any insurance purchased and maintained by Consultant.
- **5.3** This agreement to defend, hold harmless and indemnify shall survive expiration or termination of this Contract.

### ARTICLE 6 INSURANCE

- 6.1 Except for the Consultant's indemnification obligations with respect to infringement, the Consultant shall, at its expense, at all times during the performance of services hereunder, and for a period of ten (10) years thereafter, maintain liability insurance insuring themselves against the indemnification obligations throughout the term of the Contract and claims arising from wrongful acts, negligent acts, errors or omissions of the Consultant, its employees, agents, sub-consultants, or any other representatives of the Consultant involved in the work. The Consultant shall name the Commission as an additional insured as set forth in more detail below and shall be responsible for any retentions or deductibles due under the policies in the event of a claim. The Consultant shall require its sub-consultants to obtain insurance and shall be responsible for enforcement of its sub-consultants' obligation to obtain insurance, at limits appropriate to the exposures of the sub-consultant's work to satisfy the requirements hereunder. The policies the Consultant and its sub-consultants maintain shall be with companies authorized to do business in Ohio and rated "A" or above by A.M. Best Company or equivalent and carry the following coverages and limits:
  - 6.1.1 Comprehensive Commercial General Liability that includes the Commission as an additional insured for amount not less than \$1,000,000, including those resulting in death to any one person or persons and/or property damage arising from any one (1) accident and \$2,000,000 in the aggregate, including coverage for: property damage, premises operations, liability for independent consultants, products liability, valuable papers, contractual liability and personal injury. The policy or policies shall be primary and non-contributory, provide coverage for on-going and completed operations, and shall not contain a provision that eliminates coverage for damages arising out of the negligence of the additional insured.
  - 6.1.2 Comprehensive Automobile Liability Insurance for bodily injury and property damage that includes the Commission as an additional insured for an amount not less than \$1,000,000 combined single limit. The policy or policies shall be primary and non-contributory and shall not contain a provision that eliminates coverage for damages arising out of the negligence of the additional insured.
  - 6.1.3 Professional Liability Insurance for not less than \$2,000,000 for any one incident, and if not written on an occurrence basis, shall be maintained for a period of not less than two (2) years following the completion of the services under this Contract.
  - **6.1.4** Umbrella/Excess Liability Insurance Policy over primary general liability and automobile liability following the same terms as the underlying policies and in an amount not less than \$3,000,000.
- **6.2 Certificate of Insurance.** Upon execution of this Contract, the Consultant shall submit to the Commission a certificate(s) of insurance and related additional insured endorsements

with respect to the required policies. If the additional insured endorsements required above are not available at the execution date, the Consultant shall submit to the Commission a notation of the endorsement together with either a binder or an advice with respect to such endorsement. The endorsement shall be submitted no later than thirty (30) days after the execution date hereof. The Consultant shall provide written notification to the Commission at least 30 days in advance of any cancellation or modification of the Consultant's insurance policy terms or coverage as set forth herein.

- **6.3 Copy of Insurance Policy.** Upon the execution of this Contract, the Consultant shall provide a copy of the insurance policy or policies required under this Contract after redacting proprietary or confidential information if applicable.
- **6.4 Workers' Compensation.** The Consultant shall also procure and maintain until the Contract has been fully and completely performed, Ohio Worker's Compensation Insurance covering all employees who engage in any work in connection with the performance of the Contract except employees hired in a state other than Ohio who will not engage in any work in the State of Ohio.
- 6.5 Notice. Within twenty-four (24) hours after the occurrence of any accident or other event that results in or might result in injury to the person or property of any person, which allegedly arises in any manner from the performance under the Contract or occurs in the area(s) for which the Consultant is responsible, the Consultant shall send written notice thereof to the Commission's General Counsel setting forth a full and precise statement of the facts pertaining thereto, and send a copy of any summons, subpoena, notice or other documents served upon or received by the Consultant, or any agent, employee or representative of the Consultant, arising in any manner from the performance of the Contract or any part thereof.

## ARTICLE 7 PERFORMANCE AND SAFETY STANDARDS

- 7.1 The Consultant shall provide professional services as set forth in this Contract. The Consultant represents that it is properly licensed in the jurisdiction where the Project is located to provide the services required by this Contract or shall cause such services to be performed by appropriately licensed professionals.
- 7.2 The Consultant shall perform its services consistent with the professional skill and care ordinarily provided by Consultants practicing in the same or similar locality under the same or similar circumstances. The Consultant shall perform its services as expeditiously as is consistent with such professional skill and care and the orderly progress of the Project.
- 7.3 The representative of the Commission that is authorized to act on behalf of the Commission with respect to the Project is the Chief Engineer. The representative authorized to act on behalf of the Consultant with respect to the Project is:

[Name Address Address Telephone Fax Email]

- **7.4 Reasonable Behavior.** Each party will act in good faith in the performance of its respective responsibilities under the Contract and will not unreasonably delay, condition or withhold the giving of any consent, decision or approval that is either requested or reasonably required by the other party in order to perform its responsibilities under the Contract.
- **7.5 Public Records Act.** The Consultant acknowledges that the Commission is required to respond to all Public Record requests under Ohio law. The Consultant shall comply with the Public Record Act in all respects and shall not restrict or otherwise inhibit the Commission from complying.
- 7.6 Ownership of Materials. Drawings, plans and other documents prepared by, or with the cooperation of, the Consultant pursuant to the Contract, including all copyrights, are works for hire under the United States Copyright Act and shall, upon payment therefore, become the property of the Commission, whether or not the project for which they are prepared is commenced or completed. If for any reason the product of the Consultant's services hereunder are determined at any time not to be a work made for hire, the Consultant irrevocably transfers and assigns to the Commission all right, title and interest therein, including all copyrights, as well as all renewals and extensions thereto. Any materials prepared, created, produced by, or with the cooperation of, the Consultant pursuant to the Contract, including all copyrights, are the property of the Commission. The Consultant may retain copies, including reproducible copies of such drawings and other documents for information and reference. The Commission may use such drawings or other documents, or others employed by the Commission for reference in any completion, construction, correction, remodeling, renovation, reconstruction, alteration, modification of or addition to a project, without additional compensation to the Consultant.
- **7.7 Non-Collusion.** The Consultant covenants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of services required to be performed under this Contract. The Consultant further covenants that no person having any such interest shall be employed in the performance of this Contract.

#### 7.8 Safety.

**7.8.1** Consultant shall be responsible for the safety of its personnel related to and during the performance of Services required by this Contract and will take reasonable measures to ensure that it and its sub-consultants provide and maintain a safe working environment. Consultant shall ensure that its employees and the employees of its sub-consultants, before they begin and throughout their

employment at any Project site, are made aware of the requirements of all applicable safety and health regulations including, but not limited to, Applicable Laws and are notified that compliance therewith is a condition of their continued employment. Consultant shall remove from the site any employees or subconsultants that fail to abide by applicable health and safety regulations. Consultant shall not knowingly permit a hazardous, unsafe, unhealthy, or environmentally unsound condition or activity to be conducted at any Project site.

- 7.8.2 If Consultant becomes aware of any hazardous, unsafe, unhealthy or environmentally unsound condition at any Project site, it shall notify the Commission and take reasonable steps to eliminate, terminate, abate or rectify any condition over which Consultant has control. The Commission may, but is not obligated to, inspect at reasonable times, the Project site and Consultant's facilities and appropriate Project records to ascertain Consultant's and its sub-consultants' compliance with the requirements of this Contract; provided however, neither the existence nor exercise of such right will relieve Consultant of its responsibility for its own and its sub-consultants' compliance with this Contract, to always use due care in the performance of services and for fulfilling all of its other obligations hereunder with respect to health and safety.
- **7.8.3** Consultant shall promptly notify the Commission of any injury, death, loss or damage to persons, animals, or property, which is in any way related to Services performed under the Contract, even though such occurrence was not caused or consented to by Consultant, its employees, sub-consultants or agents. Smoking is prohibited at the Project site. Consultant shall monitor the Commission's no smoking rule with respect to its employees and sub-consultants while they are working at the Project site.

## ARTICLE 8 SUSPENSION, DEFAULT, AND TERMINATION

- **8.1 Suspension.** The Commission may at any time prior to completion of the Contract temporarily suspend any Contract when it is determined to be in the Commission's interest. Such suspension shall be provided by written notice. If such Suspension is not lifted within 120 days from the notice of Suspension, the Consultant may request that the Contract be terminated.
- **8.2 Default.** Each of the following shall constitute an event of default by the Consultant:
  - **8.2.1** If the Consultant becomes insolvent, makes a general assignment for the benefit of creditors, or files a voluntary petition in bankruptcy or consents to the appointment of a receiver, trustee, or liquidator of all or substantially all of its property;
  - **8.2.2** If by order or decree of a court, the Consultant is adjudged bankrupt or an order is made approving a petition filed by any creditors or, if the Consultant is a corporation, by any of the stockholders of the Consultant, seeking its reorganization

- or the readjustment of its indebtedness under the federal bankruptcy laws or any law or statute of the United States or of any state thereof;
- **8.2.3** If a petition under any part of the federal bankruptcy laws or an action under any present or future insolvency law or statute is filed against the Consultant and is not dismissed within ninety (90) days after the filing thereof;
- **8.2.4** If any lien is filed against the Commission's property because of any act or omission of the Consultant and is not released or discharged by obtaining a bond at Consultant sole expense and cost within twenty (20) days;
- **8.2.5** If the Consultant voluntarily abandons, deserts, vacates, or discontinues its operations;
- **8.2.6** If the Consultant fails duly and punctually to pay any monies required hereunder within twenty (20) days after written notice;
- **8.2.7** If the Consultant fails to keep, perform and observe any promise set forth herein on its part to be kept, performed or observed within five (5) days after receipt of notice of default from the Commission, except where fulfillment of its obligation requires activity over a period of time and Consultant has commenced whatever may be required to cure the failure to the satisfaction of the Commission within five (5) days after notice and continues such performance without interruption.
- **8.3** Remedies for Default. Upon occurrence of any Default or any time thereafter during the continuance thereof, the Commission may, at its option, exercise concurrently or successively any one or more of the following rights and remedies:
  - **8.3.1** Upon five (5) days' notice, terminate this Contract.
  - **8.3.2** Without waiving any default, pay any sum required to be paid by the Consultant to others than the Consultant and which the Consultant has failed to pay, and perform any obligation required to be performed by the Consultant hereunder, and any amounts to paid or expended by the Commission in fulfilling the obligations of Consultant hereunder, including all interest, costs, damages, attorneys' fees and penalties, shall be repaid by the Consultant to the Commission on demand with interest thereon at the rate of twelve percent (12%) per annum from the date of such payment or expenditure plus a twenty percent (20%) administrative fee.
  - **8.3.3** Invoke the dispute resolution provisions of this Contract.
- **8.4** Convenience Termination. In addition to the termination upon five (5) days' notice after an occurrence of default as provided above, the Commission may unilaterally terminate the Contract at any time for any reason by giving thirty (30) calendar days prior written notice to the Consultant. If the Commission unilaterally terminates the Contract pursuant to this Section, the Consultant shall be paid all amounts due up to the termination date. The

Commission and the Consultant may also mutually agree to terminate this Contract in writing.

- **8.5 Waiver.** No waiver by the Commission at any time of any of the terms or conditions of this Contract shall be deemed or taken as a waiver at any time thereafter of the same or any other term or condition herein or of the strict and prompt performance thereof. No delay, failure or omission of the Commission to exercise any right, power, privilege or option arising from any default, or subsequent payment then or thereafter accrued shall impair or be construed to impair any such right, power, privilege or option to waive any such default or relinquishment thereof, or acquiescence therein and no notice by the Commission shall be required to restore or revive any option, right, power, remedy or privilege after waiver by the Commission of default in one or more instances. No waiver shall be valid against the Commission unless reduced to writing and signed by an officer of the Commission duly empowered to execute same.
- **8.6 Force Majeure.** Neither party shall have liability to the other if it becomes unable to timely perform its obligations under this Contract due to labor disputes, fire, acts of God, tornados, flood, hurricane, earthquake, tidal wave, blizzard, or other natural disasters, acts of the state or federal government in their sovereign capacity, riots, civil commotion, quarantine restrictions, war, terrorism, incidence of disease or other illness that reaches outbreak, epidemic or pandemic proportions, unavoidable casualties, or other causes beyond their control.

### ARTICLE 9 NON-DISCRIMINATION

- **9.1 Non-discrimination**: The Consultant, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin, sex, age, disability, low-income status, or limited English proficiency in the selection and retention of sub-consultants, including procurements of materials and leases of equipment. The Consultant will not participate directly or indirectly in the discrimination prohibited by applicable federal, state, and local laws.
- 9.2 Solicitations of Sub-consultants, including procurement of materials and equipment: In all solicitations, either by competitive bidding or negotiation, made by the Consultant for work to be performed under a subcontract, including procurements of materials, or leases of equipment, the Consultant will notify each potential sub-consultant or supplier of the Consultant's obligations under this Contract The Consultant shall also include the provisions of this Article 9 in every sub-consulting agreement, subcontract, purchase order, lease or other such document.

### ARTICLE 10 LAW AND DISPUTES

**10.1 Choice of Law.** The Contract shall be subject to the laws of the State of Ohio. All duties of either party shall be deemed performable and performed in the State of Ohio.

- 10.2 Informal Dispute Resolution. At the written request of either party, the parties will attempt to resolve any dispute arising under, or relating to, the Contract through the informal means. Each party will appoint a senior management representative who does not devote substantially all of his or her time to performance under the Contract. The representatives will furnish to each other all non-privileged information with respect to the dispute that the parties believe to be appropriate and germane. The representatives will negotiate in an effort to resolve the dispute without the necessity of any formal proceeding.
- 10.3 Mediation. If the parties do not resolve their differences through Informal Dispute Resolution, the Commission may, at its sole discretion and election, choose to proceed with mediation governed by the most recently published Construction Arbitration Rules and Mediation Procedures of the American Arbitration Association, and the Consultant hereby agrees to engage in that process in accordance with those rules and procedures. The parties shall have 90-days from the date that a party serves notice of its claim on the other party to attempt to resolve their differences through mediation.
- **10.4 Formal Dispute Resolution Litigation.** If the parties do not resolve their differences through mediation, the dispute shall be resolved through litigation. Litigation may take place only in Cuyahoga County Court of Common Pleas or the United States District Court for the Northern District of Ohio.

### ARTICLE 11 GENERAL

- **11.1 Notices.** All notices or communications required or permitted as a part of the Contract shall be in writing (unless another verifiable medium is expressly authorized) and shall be deemed delivered when:
  - 11.1.1 Actually received, or
  - 11.1.2 If not actually received, 3 days after transmittal through electronic mail receipt with a carbon copy sent through the United States Postal Service with proper postage affixed and addressed to the respective other party at the address set out below or such other address as the party may have designated by notice to the other party, or
  - **11.1.3** Upon delivery by the Commission of the notice to a representative of the Consultant while on the Commission property.

The addresses of the parties to this Contract are as follows:

In the case of the Commission:	with a copy to:
Ohio Turnpike and Infrastructure Commission Chief Engineer Attn: Anthony Yacobucci, P.E. 682 Prospect Street Berea, Ohio 44017 tony.yacobucci@ohioturnpike.org	Ohio Turnpike and Infrastructure Commission General Counsel Attn: Jennifer L. Stueber, Esq. 682 Prospect Street Berea, Ohio 44017 jennifer.stueber@ohioturnpike.org
In the case of the Consultant:	
[Name Address Address Telephone Fax Email]	

- 11.2 Integration and Amendment. The Contract constitutes the entire agreement between the parties and supersedes all other prior or contemporaneous communications between the parties (whether written or oral), and all other communications relating to the subject matter of the Contract. The Contract may be modified or extended by formal amendment of the Contract signed by the parties and made a permanent part of the Contract.
- 11.3 Severability. The provisions of the Contract will be deemed severable, and the unenforceability of any one or more provisions will not affect the enforceability of any other provisions. In addition, if any provision of the Contract, for any reason, is declared to be unenforceable, the parties will substitute an enforceable provision that, to the maximum extent possible under applicable law, preserves the original intentions and economic positions of the parties.
- 11.4 Publicity. Neither party may use the name or any data, pictures, or other representation of the other party in connection with any advertising or publicity materials or activities without the prior written consent of the other party. However, the Consultant may include the Commission's name on its client list and may describe briefly, and in general terms, the nature of the work performed by the Consultant for the Commission. The parties further agree that, within a reasonable time following final acceptance, the parties may work toward developing a mutually agreeable statement for public use by the parties such as in marketing materials and in their reports to stockholders.
- 11.5 Video and Audio Recordings. The Commission has the right to video and/or audiotape any and all meetings, whether held at a Commission site, Consultant site, or via teleconference.

- designated as "confidential" or "business proprietary," the receiving party shall keep such information strictly confidential and shall not disclose it to any other person. The receiving party may disclose "confidential" or "business proprietary" information after seven (7) days' notice to the other party or when required by law, arbitrator's order, or court order, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or to the extent such information is reasonably necessary for the receiving party to defend itself in any dispute. The receiving party may also disclose such information to its employees, consultants, or contractors in order to perform services or work solely and exclusively for the Project, provided those employees, consultants and contractors are subject to the restrictions on the disclosure and use of such information as set forth in this paragraph.
- 11.7 Construction of this Contract. All terms and words used in this Contract, regardless of the number and gender in which they are used, shall be deemed and construed to include any other number, singular or plural, and any other gender, masculine, feminine, or neuter, as the context or sense of this Contract or any paragraph or clause in the Contract may require, the same as if such words have been fully and properly written in the number and gender. Any act to be performed under the Contract by the "Commission" may be performed by the Executive Director or by such of its employees or such other persons, corporations or firms as the Executive Director may designate. "Executive Director" when used herein, shall refer to the Executive Director of the Commission and include the Chief Engineer, the Deputy Executive Director and the CFO/Comptroller. The headings of Articles and Paragraphs, to the extent used herein, are for reference only, and in no way define, limit, or describe the scope or intent of any provision hereof.
- **11.8 Counterparts.** This Contract may be executed in any number of counterparts, each of which, when so executed and delivered, shall be deemed an original, but such counterparts together shall constitute but one and the same instrument.
- **11.9 Authority.** The undersigned signatory for the Consultant hereby represents and warrants that he or she has full and complete authority to execute the Contract on behalf of the Consultant. This representation and warranty is made for the purpose of inducing the Commission to execute the Contract.
- **11.10 Electronic Signatures.** The parties agree that for purposes of facilitating the signing of this Contract, an electronic signature or an electronic or facsimile transmission of a signature shall be an original signature for all purposes.

[SIGNATURES ON NEXT PAGE]

**IN WITNESS WHEREOF**, the parties have caused this Contract to be executed as of the last date written below.

[CONSULTANT]	OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
By:	By: Ferzan M. Ahmed, P.E.
Printed:	,
Title:	Date:
Date:	APPROVED AS TO FORM:
	By:
	Date:

## Exhibit A Consultant's Fee Proposal

## Exhibit B Final Project Scope

### APPENDIX C

## NON-COLLUSION AFFIDAVIT

## OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

}SS: _}
ing first duly sworn as provided by law, deposes and says:
cated at
Affidavit with the knowledge and intent that it is to be filed with the Ohio tructure Commission and with the expectation that it will be relied upon by said sideration and any action which it may take with respect to the bid or proposal Affidavit.
serves in the capacity of  (Sole Owner, Partner, President, etc.)
makes and authorized to make representations and this Affidavit on behalf of:
e of Corporation, Partnership, Limited Liability Company, etc)
prietorship, Partnership, Corporation, Limited Liability Company, etc)
laws of, and registered to do business in Ohio.  (Name of State)
ship Only: The undersigned states that the following is a complete and accurate addresses of all individuals having an interest in the contract contemplated under accompanying this Affidavit:
nly: The undersigned states that the following is a complete and accurate list of deral partners of the partnership and all other individuals having an interest in the ed under the bid or proposal accompanying this Affidavit, including any partners (5%) or more equity interest in the partnership (attach additional pages if

#### APPENDIX C

### **AFFIDAVIT**

4c. Corporation or Limited Liability Company Only: The undersigned states that the following is a complete and accurate list of the chief executive officer and all individuals that are expected to have an interest in the contract contemplated under the bid or proposal accompanying this Affidavit, including anyone owning five percent (5%) or more equity interests in the entity submitting the bid or proposal (attach additional pages as necessary):

President (or similar chief executive):
Owners with 5% or more equity interest:
Additional individuals with an expected interest in the contemplated contract:

- 5. The undersigned represents that no person, firm, agent or employee of the entity identified in paragraph 3, nor anyone else to the knowledge of the undersigned, has retained anyone to solicit or secure affirmative or favorable action by the Commission with respect to the bid or proposal accompanying this Affidavit (except a regularly employed salesman paid for services on a regular schedule of commissions and serving in the usual course of business in soliciting such consideration or action by the Commission without promise or expectation of receiving consideration other than the standard and normal fee, commission, or percentage) under any agreement providing for a bonus, fee, commission, percentage, or other form of payment whatsoever which is in any way contingent upon the action to be taken by the Commission with respect to the bid or proposal.
- 6. The undersigned represents that no person or firm associated with the entity identified in paragraph 3 has any interest, direct or indirect, in any other proposal or bid submitted with respect to the contract contemplated in the bid or proposal accompanying this Affidavit, except the subcontractors, material suppliers, truckers/haulers disclosed in the SBE Utilization Plan.
- 7. The undersigned states that the bid or proposal accompanying this Affidavit is a genuine and earnest attempt to contract with the Commission, and is not made in the interest or on behalf of any undisclosed individual, person, partnership, company, association, organization or corporation; that the bid or proposal is not collusive or a shame; that the entity identified in paragraph 3 has not, directly or indirectly, induced or solicited any other entity to submit a false or sham bid or proposal, and has not directly or indirectly, colluded, conspired, connived or agreed with any other respondent to submit a collusive or sham bid or proposal, or to refrain from submitting a bid or proposal; and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, firm or corporation, to fix the prices of any other responding entity, or to secure any advantage against the Commission or any person, firm or corporation interested in the proposed contract;

# APPENDIX C

# **AFFIDAVIT**

8. The undersigned states that the entity identified in paragraph 3 has received the Commission's Ethics Policy; the Ethics Policy has been reviewed by its managerial staff; the terms and conditions of the Policy are understood; and the entity agrees to comply and assist the Commission in complying with the Policy. Insofar as undersigned knows, no member of the Commission and no employee or agent of the Commission has or will have any interest, either direct or indirect, in the prospective contract contemplated under the bid or proposal accompanying this Affidavit.

	(Affia	nnt)
	(Prin	nted)
Sworn to before me and subscribed in my presence this _	day of	, 20
	(Notary Pu	ıblic)



# OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION ETHICS POLICY

# I. PURPOSE

# A. POLICY STATEMENT

It is the policy of the Ohio Turnpike and Infrastructure Commission ("Commission") to carry out its mission in accordance with the strictest ethical guidelines and to ensure that Commission members and employees conduct themselves in a manner that fosters public confidence in the integrity of the Commission, its processes, and its accomplishments.

# B. GENERAL STANDARDS OF ETHICAL CONDUCT

Commission members and employees must, at all times, abide by protections to the public embodied in Ohio's ethics laws, as found in Chapters 102 and 2921, of the Ohio Revised Code, and as interpreted by the Ohio Ethics Commission and Ohio courts. Members and employees must conduct themselves, at all times, in a manner that avoids favoritism, bias, and the appearance of impropriety.

A general summary of the restraints upon the conduct of all members and employees include, but are not limited to, those listed below. Members and employees shall not:

- Solicit anything of value from anyone doing business with the Commission;
- Accept anything of value from anyone doing business with the Commission;
- Solicit or accept employment from anyone doing business with the Commission, unless able to completely withdraw from Commission activity regarding the party offering employment, and the Commission approves the withdrawal;
- Use public position to obtain benefits for the official or employee, a family member, or anyone with whom the official or employee has a business or employment relationship;
- Accept any form of compensation for personal services rendered on a matter before any state agency, or sell goods or services to any state agency, unless the official or employee qualifies for the exception, and files the statement, described in the Ethics Law:

# APPENDIX D - ETHICS POLICY

Ohio Turnpike and Infrastructure Commission Ethics Policy Page 2 of 3

- Hold or benefit from a contract with, authorized by, or approved by, the Commission, unless one of the exceptions in the Ethics Law and related statutes applies;
- Vote, authorize, recommend, or in any other way use his or her position to secure approval of a Commission contract (including employment or personal services) in which the official or employee, a family member, or anyone with whom the official or employee has a business or employment relationship, has an interest;
- Use, or authorize the use of, his or her title, the name "Ohio Turnpike and Infrastructure Commission," or "Commission," or "OTIC," or the Commission's logo in a manner that suggests impropriety, favoritism, or bias by the Commission or the official or employee;
- Solicit or accept honoraria prohibited by the Ethics Law;
- Use or disclose confidential information protected by law, unless appropriately authorized; and
- During public service, and for one year after leaving public service, represent any person, in any fashion, before <u>any</u> public agency, with respect to a matter in which the official or employee personally participated while serving with the Commission.

# For purposes of this policy:

- "Anything of value" includes anything of monetary value, including, but not limited to, money, gifts, food or beverages, social event tickets and expenses, travel expenses, golf outings, consulting fees, compensation, or employment. "Value" means worth greater than de minimis or nominal.
- "Anyone doing business with the Commission" includes, but is not limited to, any person, corporation, or other party that is doing or seeking to do business with, regulated by, or has interests before the Commission.

# C. FINANCIAL DISCLOSURE STATEMENTS

Every Commission member or employee required to file a financial disclosure statement by law, or Ethics Commission rule, must file a complete and accurate statement with the Ethics Commission by April 15 of each year. Any member or employee appointed or employed after February 15 shall file a statement within ninety days of appointment or employment.

# APPENDIX D - ETHICS POLICY

Ohio Turnpike and Infrastructure Commission Ethics Policy Page 3 of 3

### D. ETHICS EDUCATION

All Commission members and employees subject to the financial disclosure requirement must participate in the annual ethics education required pursuant to Executive Order 2019-11D, and some form of annual ethics instruction shall be provided to all Commission employees. In addition to participating in Executive Order training, the Ethics Commission sponsors educational sessions throughout Ohio.

# E. PUBLICATION OF THE COMMISSION'S ETHICS POLICY

The Commission's Ethics Policy shall be published on the Commission's website, <a href="www.ohioturnpike.org">www.ohioturnpike.org</a>. Persons, corporations or other parties seeking to conduct business with the Commission in amounts in excess of \$10,000 shall be provided with a copy of the policy and shall be required to acknowledge receipt of the policy in writing in a form to be prescribed by the Commission's General Counsel.

# F. ASSISTANCE

The Ethics Commission is available to provide advice and assistance regarding the Ethics Law and related statutes. The Ethics Commission can be contacted at (614) 466-7090. The Ethics Commission's web site address is: <a href="www.ethics.state.oh.us">www.ethics.state.oh.us</a>. The Commission's General Counsel and counsel for the Governor's Office are available to answer questions involving this policy.

# G. PENALTIES

Failure of any Commission official or employee to abide by this Ethics policy, or to comply with the Ethics Law and related statutes, will result in discipline, which may include dismissal, as well as any potential civil or criminal sanctions under the law.

# AFFIRMATION AND DISCLOSURE FORM EXECUTIVE ORDER 2019-12D

Governing the Expenditure of Public Funds on Offshore Services

By the signature affixed to this response, the Respondent affirms, understands and will abide by the requirements of Executive Order 2019-12D issued by Ohio Governor Mike DeWine. If awarded a contract, the Respondent affirms on behalf of itself and any of its Subcontractors to perform no services under the Contract outside of the United States. The Executive Order is attached and is available at the following website: (https://governor.ohio.gov/wps/portal/gov/governor/media/executive-orders/2019-12d).

The Respondent shall provide all the name(s) and location(s) where services under this Contract will be performed in the spaces provided below or by attachment. Failure to provide this information may subject the Contractor to sanctions. If the Respondent will not be using subcontractors, indicate "Not Applicable" in the appropriate spaces. Attach any additional pages as necessary

1. Principal location of busin	ness of Contractor:
(Address)	(City, State, Zip)
2. Location where services v	vill be performed by the Respondent:
(Address)	(City, State, Zip)
3. Name/Principal location	of business of subcontractor(s):
(Name)	(Address, City, State, Zip)
(Name)	(Address, City, State, Zip)
4. Name/Location where se	rvices will be performed by subcontractor(s):
(Name)	(Address, City, State, Zip)
(Name)	(Address, City, State, Zip)

(Address, City, State, Zip)	(Address, City, State, Zip)
Name/Location(s) where Commissio backed-up by subcontractor(s):	n data will be stored, accessed, tested, maintained or
(Name)	(Address, City, State, Zip)
(Name)	(Address, City, State, Zip)
subcontractors are under a duty to di services performed by the Responder	ffirms, understands and agrees that the Respondent and its sclose to the Commission any change or shift in location of its subcontractors before, during and after execution of its. Respondent agrees it shall so notify the Commission hift in location of its services.
The Commission has the right to imm	nediately terminate the contract for material breach if any
perform the specific services outside unlimited discretion to determine was is necessary based on the (1) nature of overseas; (2) the porportion of off-sh	ss the Commission has issued the Respondent a waiver to the United States. The Commission has the sole and iving some or all of the requirements of the Executive Order of and risk arising from the services being performed ore services compared to those performed domestically; (3) ng the waiver; (4) the justification to perform the services
perform the specific services outside unlimited discretion to determine was is necessary based on the (1) nature of overseas; (2) the porportion of off-ship the cost savings resulting from grantic overseas; and (5) the need to procure The undersigned represents and warr Disclosure Form on behalf of the Research	ss the Commission has issued the Respondent a waiver to the United States. The Commission has the sole and iving some or all of the requirements of the Executive Order of and risk arising from the services being performed ore services compared to those performed domestically; (3) ng the waiver; (4) the justification to perform the services
perform the specific services outside unlimited discretion to determine was is necessary based on the (1) nature of overseas; (2) the porportion of off-ship the cost savings resulting from grantic overseas; and (5) the need to procure. The undersigned represents and warr Disclosure Form on behalf of the Resultat Respondent may enter into with	ss the Commission has issued the Respondent a waiver to the United States. The Commission has the sole and iving some or all of the requirements of the Executive Order of and risk arising from the services being performed ore services compared to those performed domestically; (3) ng the waiver; (4) the justification to perform the services the services from the Respondent. ants to be authorized to execute this Affirmation and spondent and agree that this form is a part of any Contract
perform the specific services outside unlimited discretion to determine was is necessary based on the (1) nature of overseas; (2) the porportion of off-shifthe cost savings resulting from grantic overseas; and (5) the need to procure. The undersigned represents and warr Disclosure Form on behalf of the Resthat Respondent may enter into with the Respondent:	ss the Commission has issued the Respondent a waiver to the United States. The Commission has the sole and iving some or all of the requirements of the Executive Order of and risk arising from the services being performed ore services compared to those performed domestically; (3) ng the waiver; (4) the justification to perform the services the services from the Respondent.  ants to be authorized to execute this Affirmation and spondent and agree that this form is a part of any Contract the Commission and is incorporated therein.
perform the specific services outside unlimited discretion to determine was is necessary based on the (1) nature of overseas; (2) the porportion of off-shifthe cost savings resulting from grantic overseas; and (5) the need to procure.  The undersigned represents and warr Disclosure Form on behalf of the Rest that Respondent may enter into with Respondent:	ss the Commission has issued the Respondent a waiver to the United States. The Commission has the sole and iving some or all of the requirements of the Executive Order of and risk arising from the services being performed ore services compared to those performed domestically; (3) ng the waiver; (4) the justification to perform the services the services from the Respondent.  ants to be authorized to execute this Affirmation and spondent and agree that this form is a part of any Contract the Commission and is incorporated therein.

# SMALL BUSINESS ENTERPRISE UTILIZATION CERTIFICATION

To be eligible for selection to award this contract, each respondent must complete and submit this Small Business Enterprise (SBE) Utilization Certification with its Proposal. The Commission may consider as non-responsive and reject any Proposal that does not contain a Certification (page 1) and Utilization Plan (page 2) that properly demonstrates that the respondent's commitments with SBEs for participation on the project if awarded the contract. The successful respondent's SBE Utilization Certification and Utilization Plan shall be incorporated as part of the resulting Contract. If the Certification and Plan fail to demonstrate a commitment to meeting or exceeding the Goal stated in the Request for Letters of Interest, the respondent is required to complete and submit a Good Faith Efforts Demonstration (page 4 and page 5). To count towards the goal, the participants must be certified as SBEs with the Commission or as SBEs or DBEs with ODOT or EDGE certified with the Ohio Department of Administrative Services at the time of bid.

The undersigned authorized agent of the respondent represents to the Ohio Turnpike and Infrastructure Commission, as part of its Proposal, that it will perform the duties of the respondent having: (check one)

	attained commitments to meet or exceed the participation in the attached Utilization Plants	•		
		al Dollar Value		ent of Total Bid
proje	ched is the Utilization Plan evidencing commect in a manner that meets or exceeds the cipation of each business identified.			
	failed to meet the contract's SBE goal designment or exceed the goal, and has docum Demonstration of Good Faith Efforts (path attached Utilization Plan to SBE particular plan to SBE p	ented its efforts to achie age 4 and page 5) and d	eve the goal ocumented	in the attached commitments in
	E Participation Commitment:   \$ Total	al Dollar Value	% Per	cent of Total Bid
the pr	Attached is the Utilization Plan evidencing roject and affirming the availability and plann Attached is the Good Faith Efforts Demonstreessful in attaining SBE participation commi	ed participation of each tration evidencing those	business ide Efforts that	entified; and
By:	Respondent	(if necessary)	the Good F	an (page 2) and aith Efforts and page 5) with
27.	Signature	the Proposal instructions the	using the ter	1 0 /
Name:		_		
Title:		<u> </u>		
Date:				

Respondent's SBE Utilization Plan
(Complete and Submit with Utilization Certification) **BOX 1:** 

Column 1	Column 2	Column 3	Column 4	Colum
Name of SBE (See instructions)	Project Role (See instructions)	<b>Description of Work</b> (See instructions)	Amount Subcontracted to SBE (See instructions)	Amount Applie Towards (See instru

If Box 2 is greater than Box 3, proceed to complete and submit the Good Faith Efforts Documentation Form (page 4 and page 5)

# **Instructions for Small Business Enterprise Utilization Plan**

- Box 1: Name of Respondent submitting Proposal.
- Column 1: Name of the Small Business Enterprise ("SBE") participating on the project. To receive credit towards contract goal, SBEs must be certified with the Commission at time of bid, or eligible for fast track certification (i.e., certified as DBE or SBE with ODOT or EDGE certified with Ohio DAS). If a SBE is performing multiple scopes, repeat the name of the SBE for each scope that will be performed and the respective amount.
- Column 2: The Project Role that the SBE will be performing as follows:
  - Prime Contractor

- Subcontractor
- Manufacturer or Regular Dealer
- Trucking/Hauler

Broker

List each project role to be performed by a single SBE individually on a separate row(s). The role is used to determine what portion of the amount to be subcontracted (Column 4) may be applied toward meeting the goal (Column 5).

Column 3: A description of the Work to be performed by the SBE must be consistent with the industry used for its certification. The Respondent may rely upon the descriptors listed in the Commission's Certification List.

For example: <a href="http://www.ohioturnpike.org/business/mbe-fbe">http://www.ohioturnpike.org/business/mbe-fbe</a>, or those eligible for Fast Track certification as DBE see: <a href="http://www.dot.state.oh.us/Divisions/ODI/SDBE/Pages/DBE-Directory.aspx">http://www.ohioturnpike.org/business/mbe-fbe</a>, or those eligible for Fast Track certification as DBE see: <a href="http://www.dot.state.oh.us/Divisions/ODI/SDBE/Pages/DBE-Directory.aspx">http://www.dot.state.oh.us/Divisions/ODI/SDBE/Pages/DBE-Directory.aspx</a> as SBE, see: <a href="http://www.dot.state.oh.us/Divisions/ODI/SDBE/Pages/SBE.aspx">http://www.dot.state.oh.us/Divisions/ODI/SDBE/Pages/SBE.aspx</a>

A respondent subletting a portion of a bid item shall state "Partial" and describe the Work that is included (e.g., "Surveying (Partial) – Site Plan").

- Column 4: List the total amount to be subcontracted to each SBE for the services they are performing.
- Column 5: This is the total dollar amount of the project each line listed in the certification that the prime intends to apply towards meeting the Contract goal. It may be that only a portion of the amount subcontracted to a SBE in Column 4 is eligible to be credited toward meeting the goal. See Notes below. The Commission will utilize the sum of this column (Box 3) to determine whether or not the respondent has met the goal. In the event of an arithmetic error in summing column 5 or an error in making appropriate reductions in the amounts in Column 4, then the sum will be corrected and the total (Box 3) will be revised accordingly.

Notes: (A) For Work self-performed by a SBE bidding as a prime contractor, the respondent may claim only 20% of the amount self-performed (Column 4) towards meeting the goal (Column 5). (B) For Work performed by SBE subcontractors, the respondent may claim 100% of the Commercially Useful Functions performed by subcontractors (i.e., the subcontractor must perform or exercises responsibility for at least 30% of the total cost of its subcontract using its own workforce, and have responsibility, for negotiating prices to purchase its materials and supplies, determining quality and quantity, ordering the material, and installing and paying for the material itself). (C) For materials supplied by a Manufacturer or a Regular Dealer, the Respondent may claim 100% of the cost of the materials or supplies (Column 4) towards meeting the goal (Column 5). (D) SBE credited for the total value of transportation services provided using its own trucks and employees and the total value of transportation services SBE provides using non-SBE trucks that do not to exceed the value provided by SBE-owned trucks operated by its employees (i.e., no more than one non-SBE truck for each SBE truck). (E) For work contracted out to a broker, the respondent may only claim the fees paid to a broker towards meeting the goal (Column 4).

- Box 2: Box 2 is the Contract goal for SBE participation goal appearing on the Request for Letters of Interest.
- Box 3: Box 3 is the sum of the values in Column 5. This value must equal or exceed the Contract goal amount written in Box 2, or Good Faith Effort Demonstration is required if insufficient SBE Participation has been achieved. See the following pages (page 4 and page 5) for the materials necessary for demonstrating the Respondent's Good Faith Efforts.

<u>**DEMONSTRATION OF GOOD FAITH EFFORTS**</u>
(Complete and Submit if Utilization Certification and Plan Fail to Meet Contract Goal)

Project Name  Respondent Name	Project Number Federal Tax I.D.	
likelihood of participation b	w the Respondent subdivided portions of by firms certified as SBE with the Commist the Project. (Attach additional pages if ne	ssion (or SBE or DBE with ODOT
	rvices or organizations that provided assist SBE (or DBE and EDGE) in preparing the each contact listed.)	
A. Organization:	Date(s) of Contact:	Contact Means:
Subject of Inquiry:		
B. Organization:	Date(s) of Contact:	Contact Means:
Subject of Inquiry:		
C. Organization:	Date(s) of Contact:	Contact Means:
Subject of Inquiry:		
about the scopes of work and r	ng all DBEs and/or EDGE firms) that you sup equirements of the project. (Attach additiona ipts or documentation of providing info. etc.)	pages if needed, and copies of all
A. Business	Contact Name	Date
B. Business	Contact Name	Date
C. Business	Contact Name	Date
D. Business	Contact Name	Date
E. Business	Contact Name	Date
F. Business	Contact Name	Date

the Contract. Please provide the specific rea	ason(s) for the decision to reject. (Attach additional pages if needed.)
A. Business:	
Reason(s) for rejection:	
B. Business:	
	<u> </u>
C. Business:	
which you entered into negotiations for negotiated, and the reason why negotiat	hone numbers of all SBEs (including DBEs and EDGE firms) with its participation on the project and the general scope of work tions were not successful. (Attach additional pages if needed.)
A. Business:	<b>D.</b> Business:
Contact:	Contact:
Phone:	Phone:
Date(s) of contact:	Date(s) of contact:
Scope of Work:	Scope of Work:
Reasons for ending negotiations:	Reasons for ending negotiations:
B. Business:	E. Business:
Contact:	Contact:
Phone:	Phone:
Date(s) of contact:	Date(s) of contact:
Scope of Work:	Scope of Work:
Reasons for ending negotiations:	Reasons for ending negotiations:
C. Business:	F. Business:
Contact:	
Phone:	Phone:
Date(s) of contact:	Date(s) of contact:
Scope of Work:	Scope of Work:
Reasons for ending negotiations:	Reasons for ending negotiations:

# GUIDANCE FOR DEMONSTRATING GOOD FAITH EFFORTS TO ACHIEVE OR EXCEED THE CONTRACT GOAL

If the SBE Utilization Certification and Plan fail to document commitment to achieving the SBE Goal set forth in the Request for Letters of Interest, complete the Good Faith Effort Demonstration Form to document necessary and reasonable actions that, by their scope, intensity, and appropriateness, would reasonably be expected to attain SBE participation that meets or exceeds the goal.

The Commission's determination of Good Faith Efforts is based on consideration of the quality, quantity, and intensity of the different kinds of actions taken. The activities or efforts undertaken to when making a Good Faith Effort must be those that one could reasonably expect to deploy when seriously, actively and aggressively attempting to obtain SBE participation in relative proportion to those that are Available to capably perform Commercially Useful Functions under the Opportunities presented in given contract.

The analysis for determining whether the respondent fulfilled its obligation to use Good Faith Efforts, the Commission will consider the demonstration of the following, which the form is intended to illicit from the respondents:

- 1. "Opportunities" means the subcomponents of the project that are identifiable as economically viable scopes of work that may interest subcontractors in responding to the respondent's solicitations to participate in the Project. The unique opportunities each project presents is determined based on the nature of the project using in-house expertise and the aggregation of those that the respondents may identify.
- 2. "Availability" means the degree of ready, willing and able SBEs available to capitalize on the opportunities presented under each project. The availability consideration examines the amount of SBEs in the relevant marketplace using (1) the Commission's list of certified SBEs (available at http://www.ohioturnpike.org/business/doing-business-with-us/mbe-fbe); (2) the Unified Certification Program's DBE Directory (http://www.dot.state.oh.us/DBE/pages/DBE-Directory.aspx); (3) the Administrative Service's **EDGE** certified Department directory of businesses: http://eodreporting.oit.ohio.gov/searchEDGE.aspx; the Ohio Department of Transportation's registry of SBEs: http://odotextrpt.dot.state.oh.us/ViewReport.aspx ?reportPath=%2fprd%2fpreconstruction %2fpublic%2fsbe vendor list; and (5) any other Ohio-centric database that the Commission recognizes as using standards that are substantially similar to the requirements for certification with the Commission.
- **3.** "Efforts" means the documented attempt to meaningfully and earnestly solicit the interest of available SBEs to fulfill the opportunities presented to perform on the Project, including making a sufficient number of contacts to follow up with any available but non-responsive SBEs and negotiating in good faith with available SBEs to reach reasonably agreeable terms for their participation.
- **4.** "Commitments" means the respondent representations in the Utilization Certification and Plan to have successfully achieved commitment(s) to utilize verified SBEs to perform on the project.

The determination that a given respondent satisfactorily used and demonstrated its Good Faith Efforts is based on the holistic review of the Opportunities, Availability, Effort and Commitment documented in the bid or proposal documents.

# D. Opportunities and Availability

This assessment of opportunities and availability compiles those SBEs that the respondents may identify in their Utilization Plan and Good Faith Efforts Demonstration forms, but also may go outside the form to identify additional possible opportunities under the project and recognized certification registries for possible untapped available firms.

A respondent can demonstrate fulfilling the Opportunity component by documenting that the respondent performed actions that include the following:

- a. Selected and packaged portions of the work in order to increase the likelihood that the SBEs will respond to solicitations expressing interest in participating on the project. This includes, where appropriate, breaking out contract work into economically feasible units to facilitate participation through subcontracting.
- b. Soliciting the interest of all SBE entities available to perform on the project through reasonable, meaningful, and available means and providing a reasonable and meaningful time to respond.

The means for a respondent to fulfill the Availability component of demonstrating good faith efforts includes the following:

- a. Searching recognized registries identifying certified SBEs that potentially could fulfill the opportunities under the project.
- b. Identifying other possible ready, willing and able SBEs through the effective use of the services of available from plan rooms, community organizations, contractors' groups, local, state, and Federal minority/women business assistance offices, and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and utilization of SBE entities.

### E. Efforts and Commitment

Respondents must document level of exertion used to engage the Availability pool on the Opportunities presented under the project. The Efforts component considers the active attempts to successfully reach terms with interested SBE firms, which may include the following:

- a. Negotiating in good faith with interested SBE entities so as to facilitate their participation on the Project.
- b. Not rejecting SBE entities without sound reasons based on a thorough investigation of their capabilities.
- c. Assisting SBE entities in obtaining bonding, lines of credit, or insurance as required.

The Commitment component provides a cross-check on the identified and documented Opportunities, Availability and Efforts. Unless the analyses under the Opportunities, Availability and Efforts prongs demonstrate otherwise, the utilization of Good Faith Efforts is expected to result in the respondent successfully representing its achievement of SBE participation goal for the contract. The respondent must provide justification for any lack of Commitment by showing that the failure occurred despite its Good Faith Efforts through the demonstration under the Opportunity, Availability and Efforts prongs of the test.

# OHIO TURNPIKE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

# PROJECT

FTP 43 - 89 - 13

REPLACEMENT OF BRIDGE DECK AND PARAPETS S.R. 590 OVER THE OHIO TURNPIKE, MILEPOST 85.5

CIP 43 - 89 - 14

REPLACEMENT OF BRIDGE DECKS AND PARAPETS
FOUGHT ROAD, MILEPOST 86.6 AND
FOUR MILE HOUSE ROAD, MILEPOST 88.1 OVER
THE OHIO TURNPIKE, SANDUSKY COUNTY
ORIGINAL CONTRACT SECTION C-40

# OTTAWA CO. ADMONIA ROSS S90 PROJECT LOCATION MILEPOST 88.1 LINDSEY PROJECT LOCATION MILEPOST 86.6 PROJECT LOCATION MILEPOST 86.6

# INDEX OF SHEETS

COVER SHEET GENERAL NOTES & GENERAL SUMMARIES GENERAL PLAN & ELEVATION, SUBSUMMARIES AND BRIDGE QUANTITIES FOR: S.R. 590 , M.P. 85.5 FOUGHT ROAD , M.P. 86.6 FOUR MILE HOUSE ROAD , M.P. 88.1 5 CATCH BASIN PROFILES REINFORCING STEEL LISTS 8 ABUTMENT DETAILS PIER REPAIR DETAILS SUPERSTRUCTURE DECK PLANS SUPERSTRUCTURE DETAILS, DECK ELEVATIONS & DEFLECTIONS 11 SUPERSTRUCTURE SHEAR CONNECTORS AND SPLICE REPAIR DETAILS CONCRETE BARRIER PLAN & DETAILS CATCH BASIN & SLOPE DRAIN DETAILS REINFORCED CONCRETE APPROACH SLABS DECK JOINT DETAILS BARRICADES AND GATES TRAFFIC CONTROL - FOUGHT ROAD
TRAFFIC CONTROL - FOUR MILE HOUSE ROAD & S.R. 590 O.D.O.T. STANDARD CONSTRUCTION

# DRAWINGS

BP-2 BP-3 BP-5	1-11-85 12-6-76 10-1-87
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MC-4	7-26-76
BR-1	5-29-79

Plans Prepared By
DANSARD — GROHNKE — LONG , Limited
Consulting Engineers Toledo, Ohio

Benjami Dansard 21694

<u>/0-/3-88</u> DATE

OHIO TURNPIKE COMMISSION STANDARD DRAWINGS

CL-2 CHAIN LINK SAFETY FENCE DETAILS, TYPE II
CL-2A CHAIN LINK SAFETY FENCE (ALL ALUMINUM) DETAILS, TYPE II



APPROVED FOR THE OHIO TURNPIKE COMMISSION

Solan Plair
CHIEF ENGINEER

2-7-89 DATE

# GENERAL NOTES

SUBGRADE REPLACEMENT
THE CONTRACTOR UNDER THE DIRECTION OF THE ENGINEER SHALL REMOVE AND RE-PLACE ANY SECTION OF THE EXISTING SUBGRADE DETERMINED TO BE UNSATISFAC-TORY WITHIN THE LIMITS OF THE APPROACH ROADWAY WORK AS SHOWN ON THE

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUM-MARY TO BE USED ONLY AS DIRECTED BY THE ENGINEER FOR SUBGRADE REPLACE-

FTP 43-88-09 S.R. 590 SP 451 COMPACTED SUBGRADE

CIP 43-88-10 FOUGHT ROAD & FOUR MILE HOUSE ROAD SP 451 COMPACTED SUBGRADE

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UPLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGI-NEERS'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

GUARDRAIL LOCATIONS
THE LOCATIONS OF GUARDRAIL, AS SHOWN ON THESE PLANS, ARE SUBJECT TO AD-JUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

THE PROPOSED GUARDRAIL LENGTHS AS SHOWN ON THE PLANS ARE MEASURED FROM THE BRIDGE PARAPET AND INCLUDE THE BRIDGE TERMINAL ASSEMBLY. WHERE NOTED ON THE PLANS, THE GUARDRAIL SHALL BE SPLICED TO TIE INTO THE EX-ISTING GUARDRAIL.

<u>GUARDRAIL, RFBIJILT, TYPE 5</u>
WHERE REQUIRED BY THE PLANS, EXISTING GUARDRAIL SALVAGED UNDER ITEM 202 SHALL BE REBUILT AT THE LOCATIONS SPECIFIED. THE REBUILT UNITS SHALL CONFORM TO THE SPECIFICATIONS OF TYPE 5 GUARDRAIL AS DESCRIBED IN ITEM

EROSION CONTROL

ITEM 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUC-

CONDUIT END TREATMENT
IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENT REQUIRED AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL UNCLUDE HEADWALLS, CONCRETE RIPRAP, ROCK CHANNEL PROTECTION,

PAVEMENT\_REMOVALS

IN ALL PAVEMENT REMOVALS, EDGES SHALL BE CUT CAREFULLY TO NEAT LINES BY USE OF A POWER CARBORUNDUM SAW TO A MINIMUM DEPTH 1-1/2". REMOVALS SHALL BE MADE ONLY TO THE EXTENT SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER. PAYMENT FOR REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 EXCAVATION, NOT INCLUDING EMBANKMENT CONSTRUCTION.

IF THE EXISTING FENCE THAT IS CONNECTED TO THE ABUTMENT IS REMOVED BY THE CONTRACTOR DURING CONSTRUCTION, IT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OHIO TURNPIKE COMMISSION,

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153,64 ORC.

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITH THE WORK LIMITS OF THIS PROJECT:

TELECOMMUNICATIONS JAYTEL, INC.

P.O. BOX 3!68

TOLEDO EDISON 2600 WEST SANDUSKY U.S. 20 2666 LEXINGTON AVE. LINDSEY, OH. 43442

OHIO BELL TELEPHONE 121 HURON ST. TOLEDO, OH. 43608

MANSFIELD, OH. 44904 (419) 884-0400 PLANS OF EXISTING BRIDGE

CONSTRUCTION PLANS FOR THE EXISTING BRIDGE ARE ON FILE AT THE COMMISSION'S PRINCIPAL OFFICE, 682 PROSPECT STREET, BEREA, OHIO AND ARE AVAILABLE FOR REFERENCE. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL PERTINENT

WEARING COURSE REMOVED, AS PER PLAN: PRIOR TO SAWCUITING THE SUPERSTRUCTURE DECK. THE ASPHALT WEARING COURSE SHALL BE REMOVED FROM SPANS 2 AND 3 OF THE S.R. 590 BRIDGE DECK. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 202, WEARING COURSE REMOVED, AS PER PLAN.

DESIGN SPECIFICATIONS

DESIGN SPECIAL STATES PLANS CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGH-WAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, DATED 1983, INCLUDING ALL SUBSEQUENT INTERIM SPECIFICATIONS AND THE OHIO SUPPLEMENT TO THESE SPECIFICATIONS. THE DESIGN LOAD IS HS-20-44 CASE IF AND THE ALTERNATE MILITARY LOADING. (THIS DESIGN PROVIDES FOR A  $1/2^{\prime\prime}$  INTEGRAL WEARING SURFACE.) THERE IS NO PROVISION FOR FUTURE WEARING SURFACE.

THE GRADES OF STRUCTURAL STEEL AND REINFORCING STEEL AND CLASSES OF CON-CRETE, TOGETHER WITH THE STRENGTH FOR EACH: ARE AS FOLLOWS:

EXISTING STRUCTURAL STEEL NEW STRUCTURAL STEEL REINFORCING STEEL

-(ASSUMED) A-7 - UNIT STRESS 18,000 PSI -- ASTM A36 - UNIT STRESS 20,000 PS - ASTM A615, A616, A617 - GRADE 60 UNIT STRESS 24,000 PSI

LIGHTWEIGHT CONCRETE

- COMPRESSIVE STRENGTH 4,500 PS1

EXISTING STRUCTURE VERIFICATION
PLAN DIMENSIONS ARE FOR HORIZONTAL DISTANCES AT 50F.

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STAUCTURE MAVE BEEN OBTAINED FROM THE DESIGN PLANS AND/OR SHOP DRAWINGS OF THE FXISTING BRIDGE EXCEPT WHEN SPECIFICALLY NOTED. CONSEQUENTLY, DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. SOME VAR-IATION FROM PLAN DIMENSIONS IS EXPECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FITUP BETWEEN THE PROPOSED AND EXISTING CONSTRUCTION. ADEQUATE MEASUREMENTS SHALL BE MADE IN THE FIELD PRIOR TO FABRICATION OR INSTAL-LATION OF ANY PART TO INSURE THAT ALL PARTS CAN BE PROPERLY ASSEMBLED AS SPECIFIED IN THESE PLANS.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAIN-TIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE STRUCTURE BY THE CONTRACTOR, HOWEVER, ALL PROJECT WORK SHALL BE BASED ON ACTUAL DE-TAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD. ANY ADDITIONAL COST RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT WILL BE AWARDED BY THE COMMISSION.

REFAIR OF ABUTMENTS AND PIERS ABUTMENTS AND PIERS ARE TO BE PATCHED IN ACCORDANCE WITH ITEM SP519 PATCH-ING CONCRETE STRUCTURES OR ITEM SP520 REPAIR BY SHOTCRETING, AS INDICATED ON

ITEM SP 536, CONCRETE WEATHERPROOFING SHALL BE APPLIED TO THE TOP SUR-FACE OF THE DECK SLAB, ALL PARAPET SURFACES, SLAB EDGES, THE BOTTOM SUR-FACE OF THE DECK SLAB FROM THE EDGE TO THE EXTERIOR STRINGER FLANCE, THE SURFACE OF THE ABUTMENT SLAB. ALL ABUTMENT PARAPET SURFACES, THE EDGE OF ABUTMENT SLAB, THE BOTTOM SURFACE OF THE ABUTMENT SLAB TO THE FACE OF THE WINGWALLS, AND ALL EXPOSED APPROACH SLAB SURFACES.

BRIDGE DECK ELEVATIONS, SLAB THICKNESS AND APPROACH PROFILES
IN ORDER TO MEET ROADWAY GRADES, TO ASSURE THE CONSTRUCTION OF THE REQUIRED THICKNESS OF DECK SLABS AND TO ASSURE THE PROPER LOCATION OF THE LEINFORCING STEEL IN THE DECK SLABS, THE CONTRACTOR SHALL OBTAIN THE EL-EVATIONS OF THE TOP OF EXISTING STEEL BEAMS AFTER THE COMPLETE REMOVAL OF THE EXISTING DECK SLABS, AT THE LOCATIONS SHOWN IN THE FINAL PAVEMENT ELEVATION TABLES ON THE SUPERSTRUCTURE SHEETS OF THE BRIDGE PLANS, AND COMPUTE THE DECK THICKNESS OVER THE BEAMS. IF THE COMPUTED DECK THICK-NESS IS FOUND TO BE LESS THAN THE MINIMUM THICKNESS REQUIRED. THE TOP OF THE FINAL PAVEMENT ELEVATIONS SHALL BE ADJUSTED AS DIRECTED BY THE ENGI-MEER. THE CONTRACTOR SHALL ALSO COMPUTE THE DECK SCREED ELEVATION UTI-LIZING THE DEAD LOAD DEFLECTIONS.

THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON 8" THICK CONCRETE OUTSIDE THE HAUNCH AREA AND THE AVERAGE THICKNESS OF CONCRETE PLACED OVER THE EXISTING BEAMS AT THE HAUNCHES, A TYPICAL HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING QUANTITY OF CONCRETE, HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12", PROVIDED THAT THE SLOPE NOT BE MORE THAN

THE ABUTMENT SLAB AND THE DECK SLAB MAY BE POURED AT THE SAME TIME, HOW-EVER, UPON THE COMPLETION OF THESE POURS AND PRIOR TO POURING THE CON-CRETE APPROACH SLABS, THE PROFILE GRADE SHALL BE ADJUSTED, AS DIRECTED BY THE ENGINEER, TO PROVIDE A SMOOTH TRANSITION FROM THE ASPHALT ROADWAY TO THE CONCRETE ABUTMENT AND DECK SLAB, IF ANY ADJUSTMENTS IN ELEVATIONS WERE REQUIRED ON THE BRIDGE.

THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER ELEVATIONS OF THE EXISTING SUR-FACE ALONG THE CENTERLINE AND BOTH EDGES OF THE PAVEMENT AT INTERVALS OF 25 FEET FOR A DISTANCE OF 100 FEET BEYOND PAYING LIMITS. AFTER RECEIPT OF THESE ELEVATIONS THE ENGINEER WILL CALCULATE AND PROVIDE TO THE CONTRACTOR FINAL ELEVATIONS FOR THE CONCRETE APPROACH SLABS AND FOR BOTH THE ASPHALT BASE COURSE AND THE ITEM 404 ASPHALT CONCRETE SURFACE COURSE. NO APPROACH SLABS SHALL BE POURED MOR SHALL ASPHALT PAYING COMMENCE UNTIL RECEIPT OF THESE FINAL **FLEVATIONS** 

PAYMENT FOR THE ABOVE MENTIONED WORK SHALL BE INCLUDED WITH THE LUMP SUM PRICE BID FOR ITEM SP 623 CONSTRUCTION LAYOUT SURVEY.

FROMY SCHOING COMPOUND (SP526) SHALL BE PLACED ON THE SURFACE AREAS OF EXISTING CONCRETE WHICH WILL BE IN CONTACT WITH THE NEW CONCRETE, PRICE IN-CLUDED IN THE CONTRACT BID PRICE FOR THE PERTINENT CONCRETE ITEMS.

GENERAL	SUMMARIES	
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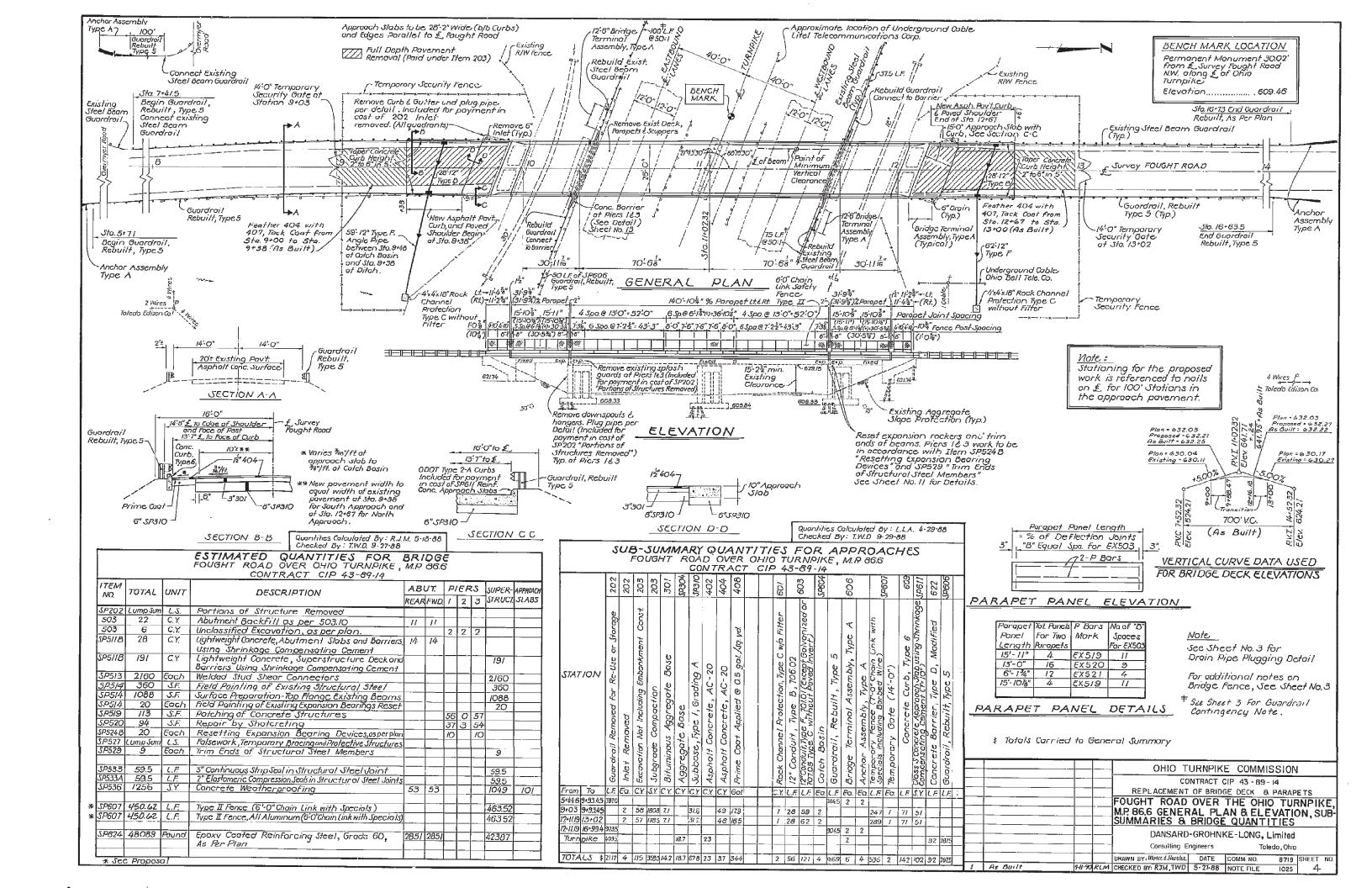
l TEM	TOTAL	UNITS	FTP 43 - 89 - 13		SHEET NO.3	OM GENER
	QUANTITY		DESCRIPTION	Ī	(S.R. 590)	
202	258	Lin. Ft.	Guardrail Removed for Re-use	-	258	
202	1707	Lin. Ft.	Guardrail Removed		1707	
202	4	Each	Inlet Removed & Plug Pipe		4	
203	128	Cu. Yd.	Excavation Not Including Embankment Construction		128	-
203	380	Sq. Yd.	Subgrade Compaction	<del>                                     </del>	380	
301	14	Cu. Yd.	bituminous Aggregate Base	ļ. <u></u>		
P304	19	Cu. Yd.	A		14	
			Aggregate Base		19	
P310	67	Cu. Yd.	Subbase, Type 1, Grading A	1	67	
402	32	Cu. Yd.	Asphalt Concrete, AC-20	1	32	
404	9	Cu. Yd.	Asphalt Concrete, AC-20	<del></del> -	9	
408	43	Gal.	Prime Coat		43	
					75	
V7. /						
P <b>451</b> 601	6	Cu. Yd.	Compacted Subgrade			
	2_	Cu. Yd.	Rock Channel Protection, Type C without Filter		2	
603	60	Lin. Ft.	12" Conduit, Type B 706.02		60	
603	111	Lin. Ft.	12" Conduit, Type F 707.01 (except Calvanized) or 707.05 Type C without payed invert	·	111	
P604	4	Each	Cotch Basin		4	
P606	175	Lin. Ft.	Guardrail, Rebuilt, Type 5	<del> </del>		
606	1600	Lin. Ft.			175	
	<del></del>		Guardrail, Type 5	ļ	1600	
606	6	Each	Bridge Terminal Assembly, Type A		6	
506	4	Each	Anchor Assembly, Type A		4	
P607	528	Lin. Ft.	Temporary Fence (7'-0" Chain Link with Specials including Barbed Wire)		528	
P607	2	Each	Temporary Gate (14'-0")		, ,	
609	142	Lin. Ft,	Concrete Curb, Type 6		2	
611			Clare Congrete Annual City Congrete		142	
	108	Sq. Yd.	Class S Concrete, Approach Slab, using Shrinkage Compensating Cement (T=10")		108	
622	92	Lin. Ft.	Concrete Barrier, Type D Modified		92	
30	4	Each	Removal of Ground Mounted Sign and Recrection		4	
			For Bridge Quantities See Sheet No. 3			
TC.1	TOTAL		CIP 43 - 89 - 14		FROM	
TEM	QUANTITY	UNITS		SHEET NO.4	SHEET NO.5	CENER
		L	DESCRIPTION	(FOUGHT RD.)	(4 MI HOUSE RO),	NOTE
202	3992.0	Lin. Ft.	Guardrail Removed for Re-use	2112	1880	
202	8	Each	Inlet Removed & Piug Pipe	4	4	
203	227	Cu. Yd.	Excavation Not Including Embankment Construction			
203	699		Sub-rode Constitution Embunkment Constitution	115	112	
		Sq. Yd.	Subgrade C. mpaction	359	340	
301	28	Cu. Yd.	Bituminous Aggregate Base	14	14	
P304	39	Cu. Yd.	Aggregate Base	19	20	
P310	123	Cu. Yd.	Subbase, Type 1, Grading A	63	60	
102	48	Cu. Yd.	Asphalt Concrete, AC-20	23	25	
404	19	Cu. Yd.	Asphalt Concrete, AC-20			
108	66	Gal.	Prime Coat	1 <u>0</u>	<u>9</u> 31	
			7771110 0001			
0.454						
2451	12	Cu. Yd.	Compacted Subgrade			12
501	4	Cu. Yd.	Rock Channel Protection, Type C without Filter	2	2	
03	110	Lin. Ft.	12" Conduit, Type B 706.02	<u>56</u>	54	
03	212	Lin. Ft.	12" Conduit, Type F 707.01 (except Galvanized) or 707.05 Type C without paved invert	121		
604	8	Each	Catch Basin		91	
606		·	Control Delin To 5	4	4	
	512.5	Lin. Ft.	Guardrail, Rebuilt, Type 5	287.5	225	
06	3144	Lin. Ft.	Guardrail, Rebuill, Type 5	1669	1475	
06	12	Each	Bridge Terminal Assembly, Type A	6	5	
06	8	Each	Anchor Assembly, Type A	4	4	- 41
207	1004		77 01 01 01 11			
607	1081	Lin. Ft.	Temporary Fence (7'-0" Chain Link with Specials including Barbed Wire)	536	545	
607	4	Each	Temporary Gate (14'-0")	2	2	
609	276	Lin. Ft.	Concrete Curb. Type 6	142	134	
611	198	Sq. Yd.	Class S Concrete, Approach Slab, using Shrinkage Compensating Cement (I=10")	102	96	
22	182	Lin. Ft.	Concrete Barrier, Type D Modified	92	90	<del>-</del>
			For Bridge Quantities See Sheet No.'s 4 and 5	32	90	
1			FTP 43-89-13 & CIP 43-89-14			
TEN	TOTAL	10070	I I I I I I I I I I I I I I I I I I I		I	
ТЕМ	TOTAL QUANTITY	UNITS	DESCRIPTION !	1		
3.05	Lump	Luinp	Premium for Contract Performance & Payment Bond			
3.05 619	Lump Lump	Luinp Lump	Premium for Contract Performance & Payment Bond Field Office			
03.05 P619 P623	Lump Lump Lump	Lump Lump Lump	Premium for Contract Performance & Payment Bond Field Office Construction Layout Survey			
TEM 03.05 P619 P623 524	Lump Lump Lump Lump	Lump Lump Lump Lump	Premium for Contract Performance & Payment Bond Field Office Construction Layout Survey Mobilization			
03.05 619 623	Lump Lump Lump	Lump Lump Lump	Premium for Contract Performance & Payment Bond Field Office Construction Layout Survey			

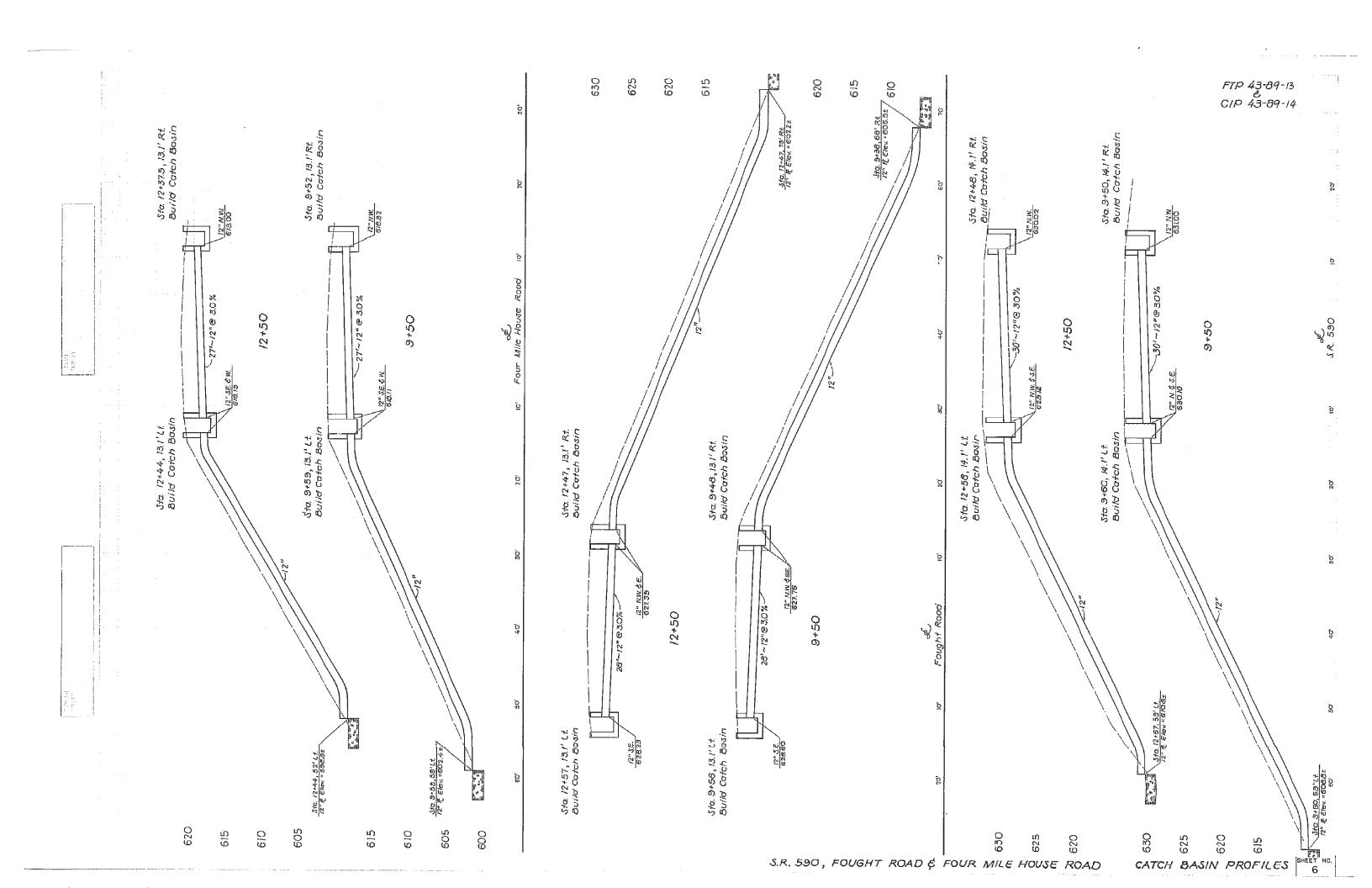
CONTRACT CIP 43-89-14 REPLACEMENT OF BRIDGE DECK AND PARAPETS GENERAL NOTES AND GENERAL SUMMARIES DANSARD • GROHNKE • LONG, Limited Consulting Engineers

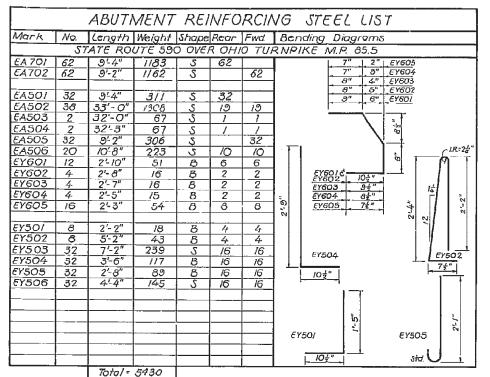
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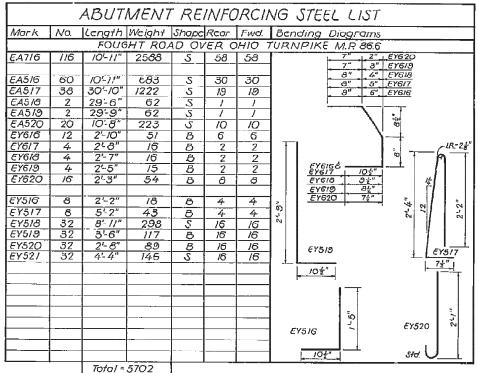
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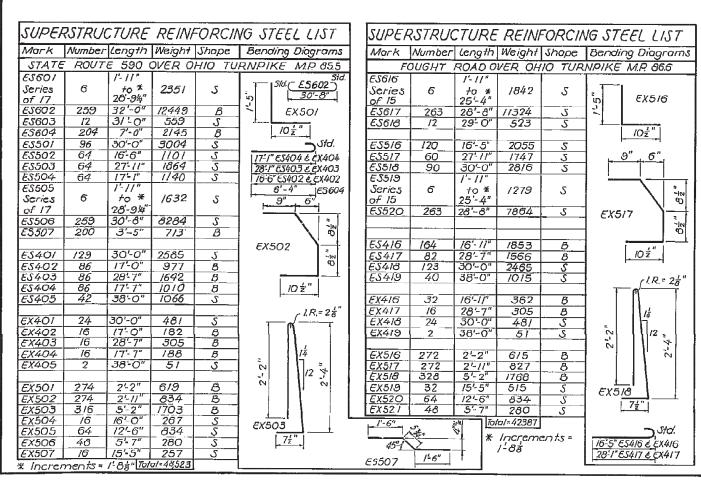








	P						NG STEEL LIST
Mark	No.	Leng4h	Weight	Shape	Rear	Fwd.	Bending Diagrams
				JSE F	ROAD	OVER	OHIO TURNPIKE M.P. 88.1
EA 731	104	8'-5"	1789	5	52	52	7"   2" EY655
							7" 3" £Y634 6" 4" £Y633
EA531	52	8'-5"	456	্ত	26	26	8" 5" EY632
EA532	42	29'-6"	1292	S	21	2/	9" 6" EY631
							l '\
EY631	8	2'-10"	34	8	4	4	100
EY632	4	2'-8"	16	8	2	2	] \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
EY633	4	2'-7"	16	В	2	2	$  \qquad \qquad   \qquad \qquad \qquad   \qquad \qquad \qquad      $
EY634 EY635	16	2'-3"	/5 54	8	8	2	0
61035	10	2-3	34	8	8	-8	FVE316
EY531	4	2'-2"	9		2		EY6316 101"
EY532	4	5'-2"	22	<u>B</u>	2	2	EY633 9½" 1½ EY634 6½"
EY533	16	8'-5"	140	3	2	8	の EY635 75" **   N
EY534	32	3'-6"	117	8	16	16	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
EY535	32	2'-8"	39	B	16	16	
EY536	32	4'-4"	14.5	3	15	16	1   1   1   1
<i>5</i> Y <i>5</i> 37	ප	8'-10"	74		4	4	EY534   EV532
€Y538	ප	7'-7/"	66	<u>5</u>	4	4	1 1002
							102"
EA732	4	8-0"	65	S	2	2	[ <del>  ' ' '  </del>     <del>   </del>
EA733	4	8'-3"	67	5	2	2	l 1 <del></del>
EA734	4	8-9"	72	\$	2	2	
							ין ין
<u>EA533</u>	4	8'-O"	<i>3</i> 3	_ ১	2	2	
EA534	4	8-7"	36	S	2	2	EY53/
EA535	20	10:8"	223	S	10	/0	10±" Sta.
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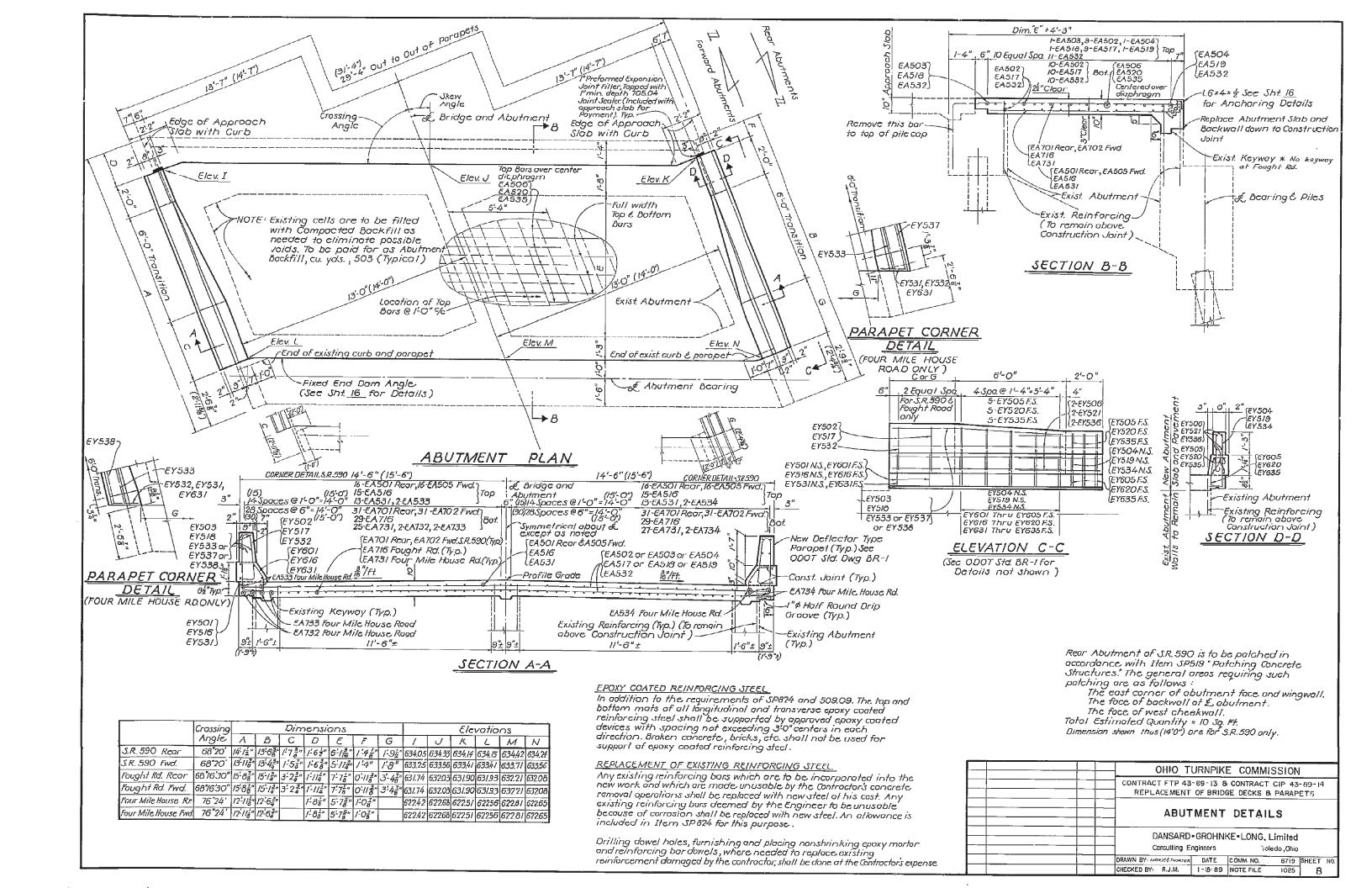


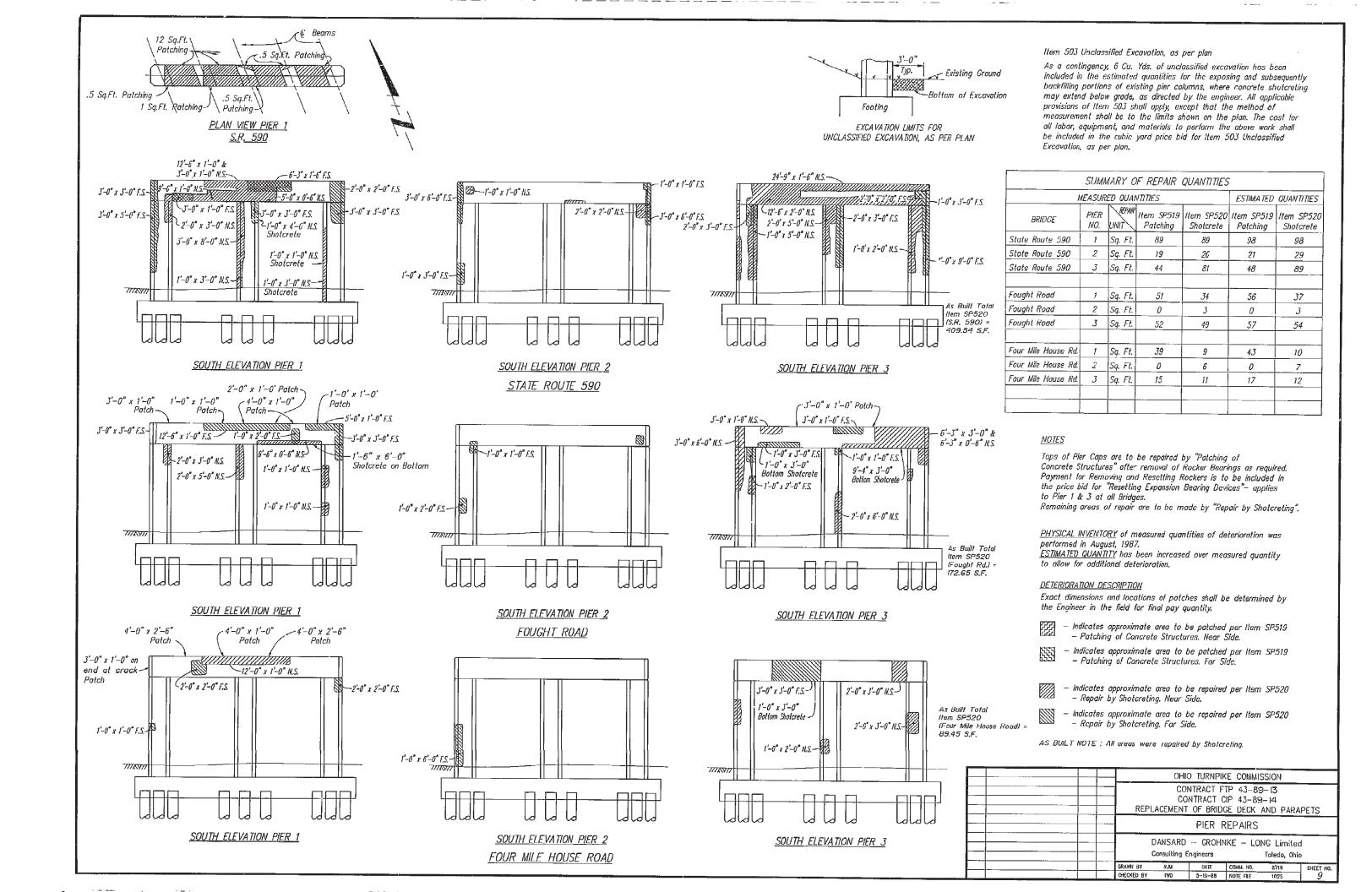
					Bending Diagran	
					TURNPIKE M.P.8	٦.
ES63/	307	29'-5	/3299	_ S	. <del>I −</del> ı	
		1			150 EVE 21	
	1				EX531	
					ł <u>Ł</u>	
ES531	90	30'-0"	28/6	- 5	10½"	
<i>ES5</i> 32	60	24'-10"	1554	- 5	9" 6",	
ES533	289	29'-5"	8867	S	<del>    </del>	
	-		0007			_
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					NI 08	
<i>ES534</i>	/20	15:8"	1961	- 5	1 eve 70 \	F
					EX532	
ES431	123	30.0"	2465	S	η σ	
ES432	82	25-6"	/397	_ <i>B</i>		L
<i>ES43</i> 3	164	/6'-2"	/77/	₿	10 ½"	
ES434	40	38'-0"	1015	S		Ħ
	L				] — n 23	
EX431	24 /6	30'-0"	481	- 5		
EX432		25'-6"	273	В	1/4	
EX433	32	/6'-2"	346	В		
EX434	2	38'-O"	51	J	72 77	
CVC31	000	2/ 2/			2. 2.	
EX531 EX532	260	2'-2"	588		1 111 1	
EX533	260 302	2'-11" 5'-2"	791	B		
EX533 EX534	302	14'-9"	<u> 16</u> 28 _ 492	_ B _ S	1 1 1	
EX535	64	10'-11"	729	<u>~</u>	EX533	
EX 536	56	6'-0"	350	<u>3</u> 3	7½"	
				3		
* /nc/c	ments	= 2 <sup>-</sup> 9" lo	101-40074	İ	<b>→</b> 5to	•
					<del></del>	
					15'8" ES433 & EX43	
Note.	:				25-0"ES432 & EX43	2

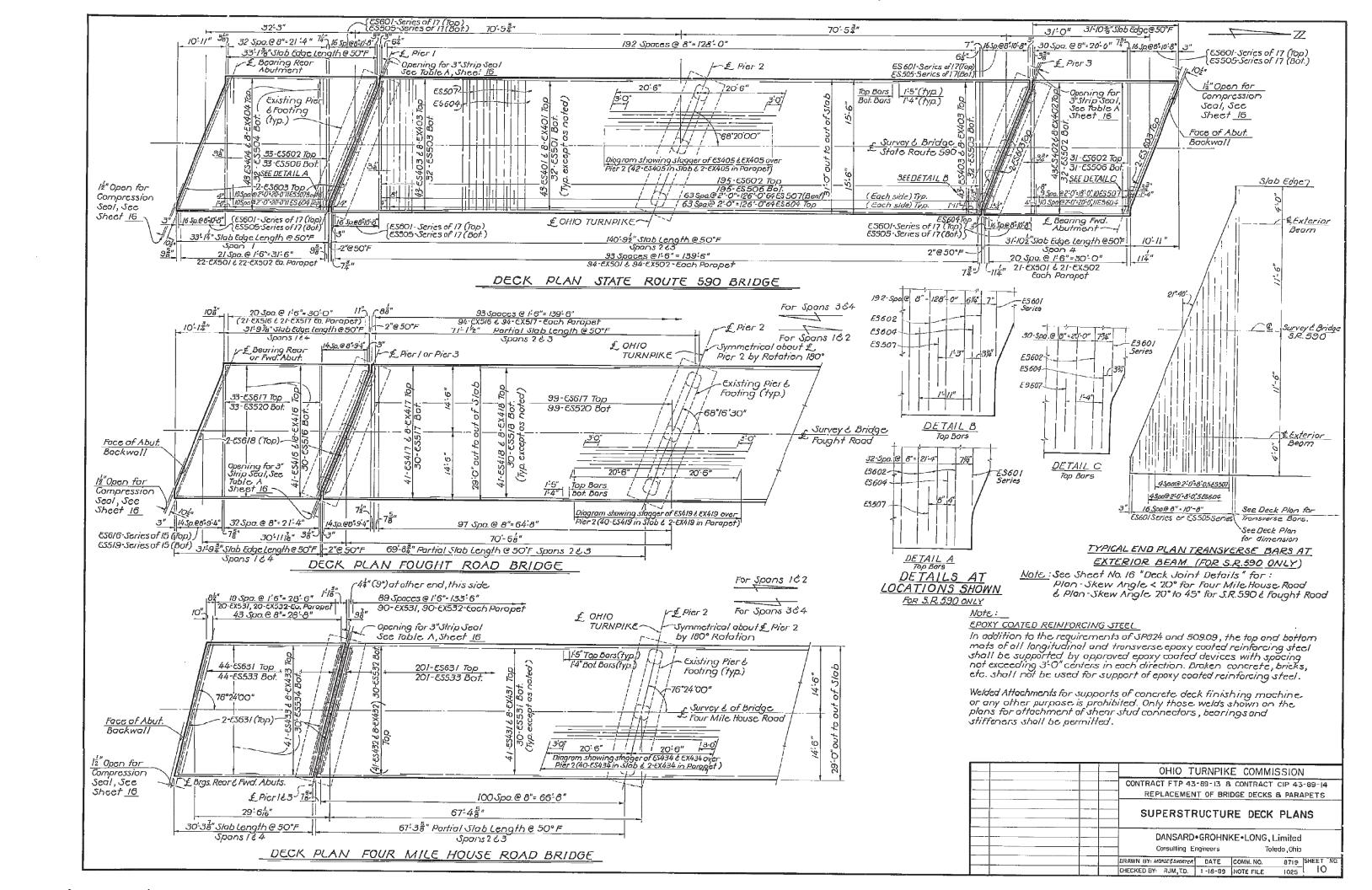
For reinforcing steel samples refer to General Conditions, Section G-6.02 and the G.M.S. Sections 700, 709.01 through 709.05 and 709.08. Sufficient additional reinforcing steel shall be provided for sampling. Random samples shall be replaced in the structure by the additional steel, splice in accordance with 509.08

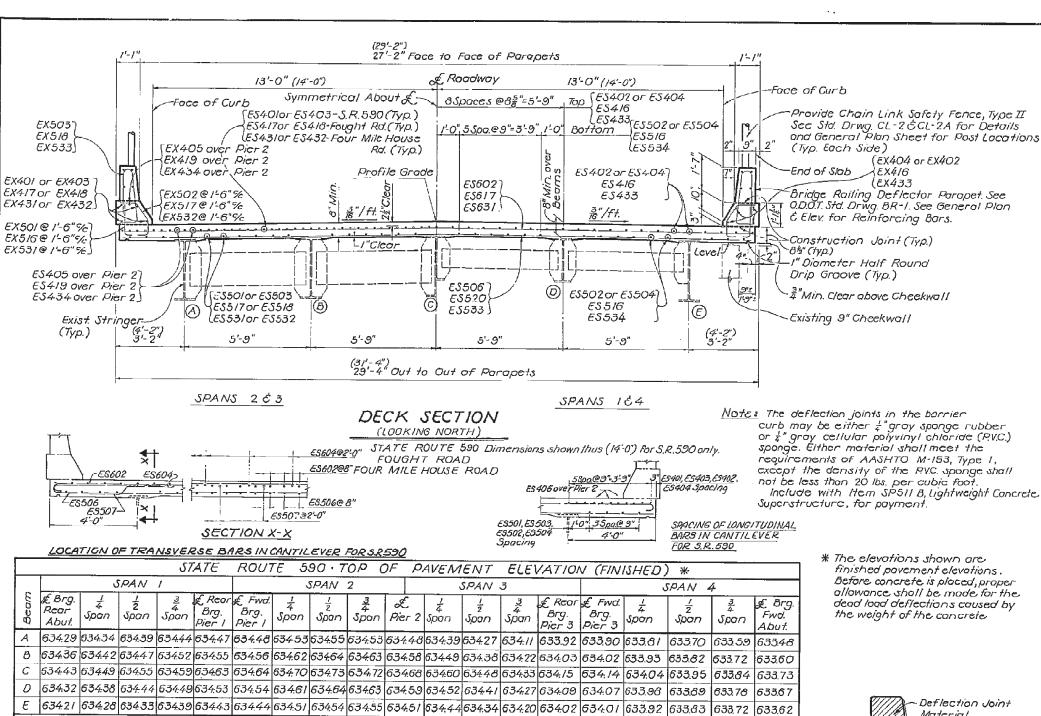
At the Contractor's option, bars EX501 & EX502, EX5/6 & EX5/7, and EX531 & EX532 may be combined and supplied as one bar. Payment will be made based on bars actually supplied.

	OHIO TURNPIKE COMMISSION  CONTRACT FTP 43-89-13 & CONTRACT CIP 43-89-14  REPLACEMENT OF BRIDGE DECKS & PARAPETS								
	REINFORCING STEEL LISTS								
	DANSARD-GROHNKE-LONG, Limited								
	Consulting E	ngineers	Tole	do, Ohio					
	DRAWN BY: MORSE & SHORTER	DATE	COMM. NO.	8719	SHEET NO.				
	CHECKED BY: R.J.M., T.D.	1 - i8 - 89	NOTE FILE	1025	7				









FOUGHT ROAD . TOP OF PAVEMENT ELEVATION (FINISHED) \*

Pier 2 Span

632.23 |632.33 |632.43 |632.52 |632.60 |632.61 |632.76 |632.87 |632.94 |632.96 |632.87 |632.87 |632.76 |632.61 |632.60 |632.52 |632.43 |632.33 |632.23 632.70 632.21 632.31 632.40 63.249 632.50 632.66 632.77 632.84 632.87 632.85 632.79 632.69 632.54 632.53 632.45 632.37 632.27 632.77

631.98 632.09 632.79 632.29 632.37 632.38 632.55 632.67 632.75 632.78 632.77 632.71 632.62 632.48 632.46 632.39 632.30 632.27 632.11

Æ

Pier 2

622.68 |622.77 |622.86 |622.94 |623.01 |623.02 |623.15 |623.24 |623.30 |623.31 |623.28 |623.22 |623.11 |622.96 |622.95 |622.88 |622.79 |622.70

FOUR MILE HOUSE ROAD . TOP OF PAVEMENT ELEVATION (FINISHED) \*

Span

Æ

632,17 632.27 632.37 632.45 632.53 632.54 632.69 632.79 632.85 632.87 632.84 632.77 632.66 632.50 632.49 632.40 632.31 632.21

δραn

Span

8 622.75 622.84 622.93 623.01 623.08 623.09 623.23 623.33 623.38 623.40 623.38 623.31 623.21 623.07 623.06 622.98 622.90

C 62282 62292 623.01 623.09 623.16 623.17 623.31 623.41 623.47 623.49 623.47 623.41 623.31 623.17 623.16 623.09 623.01

622.60 | 622.70 | 622.79 | 622.88 | 622.95 | 622.96 | 623.11 | 623.22 | 623.28 | 623.31 | 623.30 | 623.24 | 623.15 | 623.02 | 623.01 | 622.94 | 622.86

0 | 622.71 | 622.81 | 622.90 | 622.98 | 623.06 | 623.07 | 623.21 | 623.31 | 623.38 | 623.40 | 623.38 | 623.33 | 623.23 | 623.23 | 623.09 | 623.08 | 623.01

632.// 632.2/ 63230 63239 63246 63248 63262 6327/ 632.7/ 632.7/ 632.75 632.67 632.55 632.38 632.37 632.29

SPAN 3

Span

SPAN 3

Span

Span

Span

€ Rear € Fwd.

€ Rear € Fwd.

Brg.

Pier 3

Вгд.

Brg.

Brg. Pier 3

Span

Span

SPAN 4

Span

SPAN 4

Span

Span

632.19 632.09 631.98

Span

622.81

622.93 622.84 622.75

622.92 622.82

£ 819.

Fwd.

Abut

632.10

Fwd.

Abut.

622.6C

622.7

SPAN 2

Span

SPAN 2

Span

AS BUILT = Add 0.24

Span

Span

£ Brg.

Rear

Abut.

£ Brg.

Rear

SPAN 1

SPAN

Span

Span

Span Span

J€ Rear J€ Fwd.

£ Rear £ Fwa.

Brg. Pier I

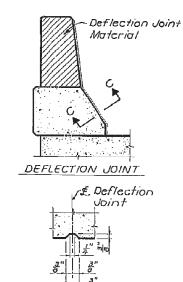
Brg. Pier

Brg. Pier

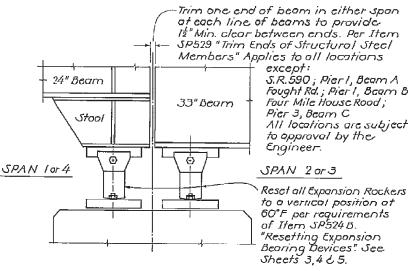
Span

Span

Before concrete is placed, proper allowance shall be made for the dead load deflections caused by



SECTION C-C PARAPET DEFLECTION JOINT DETAIL



# ROCKER BEARINGS AT PIERS 1 & 3 INTERIOR BEAMS SHOWN

# BEARING RESETTING RESTRICTIONS

Jasking and/or temporary supports shall be limited to one (1) substructure unit at any given time. (Jacking and/or temporary supports will not be permitted at Pier I and Pier 3 simultaneously). All beams (A through E) at a given pier shall be raised simultaneously to permit the resetting of all bearings at that pier. The structure shall not be raised more than necessary.

The above provisions may be waived if the entire structure is raised uniformly and simulfaneously. In such case, fixed bearings of Pier No. 2 shall be disassembled and reassembled under the direction and to the satisfaction of the Engineer. No separate payment will be made for work performed at the fixed bearings.

Top of Pier areas that are to be repaired by "Potching Concrete Structures" shall be completed (including rubbing and curing) prior to replacing the rockers in position.

The basis for payment for work performed on the expansion bearings shall be as SP524 B "Resetting Expansion Bearing Devices, as per plan.

		SPAN	7	,	SPAN 2 SPAN		3 ,		SPAN 4				
	4	MID	<u>J</u>	4	MID	3 4	4	MID	<u>3</u>	4	MID	<u>3</u> 4	
Interior	8	<u>3</u> 16	8	1/2	2 16	4	4	25	2.	<u></u>	3.6	8	
Exterior	<u>1</u> 16	16	<u> </u>  6	4	3	15 16	<u>5</u>	É	4	76	1/5	1/6	
FOL	D	UE TO	COV	ICRE	TE D	ECK .		SUMN PARA			HES)		
		PAN			SPAN					SPAN 4			
	4	MID	4	4	MID	3 4	4	MID	<u>3</u>	4	MID	3	
Interior	8	3 16	8	1/2	16	<i>‡</i>	4	16	2	8	3	<u>/</u> 8	
Exterior	<u>/</u> 6	<u>/</u> 6	16	N/0	9	4	4	<u>9</u> 16	7 76	76	15	15	
FOUR M	ILE P DU	HOUSE IE TO	ROA CON	D B	RIDG: E D	E DEI ECK	FLEC AND	TION .	SUMN	1ARY	'(INC	ES)	
		PAN	1		PAN	2	S.OAN 3			SPAN4			
	4	MID	3 4	4	MID	73/4	<u>/</u>	MID	<u>3</u> 4	4	MID	34	
Interior	16	<u>f</u>	<u>1</u> 6	76	2	4	4	<u>z</u>	<u>7</u> /6	<u>/</u> 6	i i	/ <u>f</u>	
xterior	0	10	0	3.	70	<u>3</u> 16	<u>3</u>	7/6	n)ja	0	1/5	Q	

SUPERSTRUCTURE DETAILS

DECK ELEVATIONS & DEFLECTIONS

DANSARD • GROHNKE • LONG, Limited

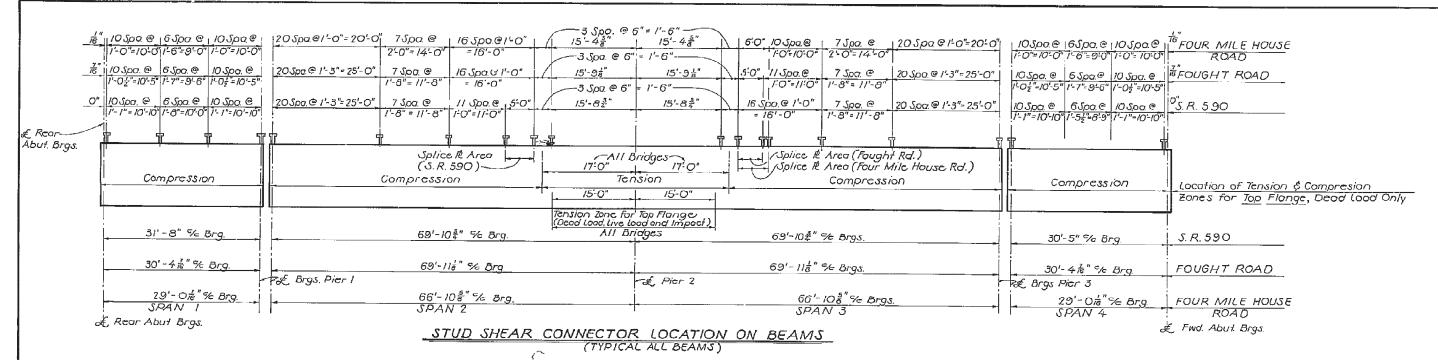
Taledo, Chia

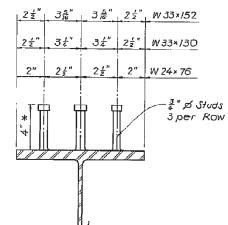
8719 SHEET

Consulting Engineers

RAWN BY, MORSE SHORTER DATE COMM. NO.

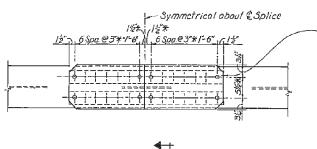
CHECKED BY: R.J.M., T.D. 1-18-89 NOTE FILE





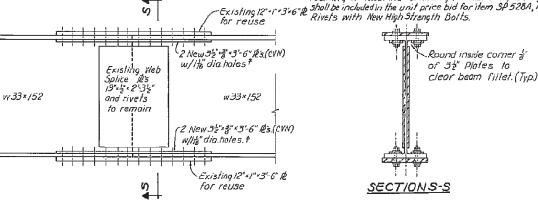
TYPICAL BEAM SECTION
SHOWING SHEAR CONNECTORS

\* Bridge Location | Stud Length FOUGHT RD. 6"



Remove 56. To Dia Rivets in flange spices
Replace with !" Dia A-325High Strength Botts centered
on inside Plates (Top and Bottom Flanges).
Ream existing holes in beam flange and existing
!" plate to It's diameter with new plate clamped in place.
Top and Bottom Flange dismantling, reaming and
assembly are to be completed separately to
maintain one flange splice intact at all times.
In any one flange splice not less than to all times. Removal of rivets,
reaming of holes, and furnishing and installing new tigh Strength Botts

Existing 12:-1:-3:6% Shall be included in the unit price bid for item SP 528A, Replace Existing
for reuse



DETAIL FOR FIELD SPLICE REPAIR ON EXTERIOR BEAMS ONLY FOR S.R. 590 BRIDGE (2. Regd.)

# FIELD SPLICE REPAIR PLATES!

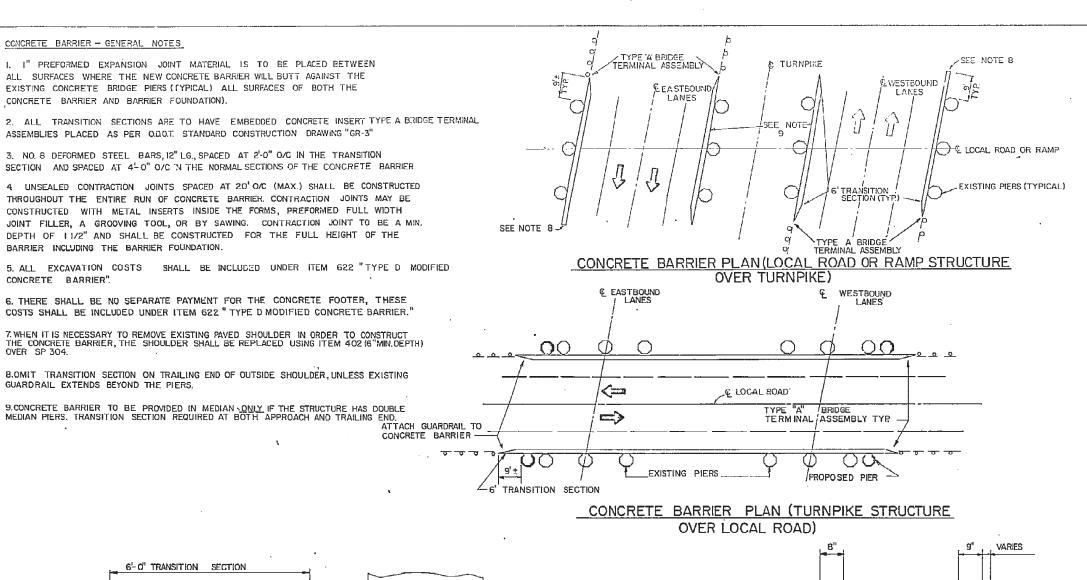
Areas where new plates are installed shall have all existing paint removed by blast cleaning in accordance with 51406 just prior to installing the plates. Plate installation shall occur after complete removal of the existing deck and before reinforcing steel and forms are placed for the new deck. Payment for all labor, material, and equipment necessary to sand blast existing steel, and furnish and install new splice plates shall be included in Item 513, Structural Sizel(AISC Certification not Required), As per Plan.

Where a plate is designated (CVN) the material shall meet specified minimum noich toughness requirements as specified in 711.01 of the State of Ohio Department of Transportation's Construction and Material Specifications.

ik Field verify.

tShop drilled or puncted holes in the new 3½"×36"×36"×36" Plates shall be '\$16" diameter. Holes shall be reamed to 11.6" diameter ofter the new plate has been adequately clamped in place

OHIO TURNPIKE COMMISSION								
CONTRACT FTP 43-89-13 & CONTRACT CIP 43-89-14 REPLACEMENT OF BRIDGE DECKS & PARAPETS								
SUPERSTRUCTURE SHEAR CONNECTORS AND SPLICE REPAIR DETAILS								
DANSARD•GROHNKE•LONG, Limited Consulting Engineers Toledo, Ohio								
DRAWN BY: MONSE SHORTEN DATE COMM. NO. 6719 SHEET NO. CHECKED BY: R.J.M. 1-18-89 NOTE FILE 1025 12								



	622	606	606	606	202	SP 304	402
REF. NO.	TYPE D, MODIFIED CONCRETE BARRIER	GUARDRAIL, TYPE 5	BRIDGE TERMINAL ASSEMBLY TYPE A	TYPE A ANCHOR ASSEMBLY	GUARD HAIL REMOVED	AGGREGATE BASE	ASPHALT CONCRETE
	L.F.	L.F.	EACH	EACH	L.F.	C.Y.	C.Y.
ΙB							
2B							
I GR	·						
2 GR					·		
3 GR							<u> </u>
4 GR							
						<u> </u>	
TOT.							<u> </u>

See Sheets 3,4 &5 for Quantities

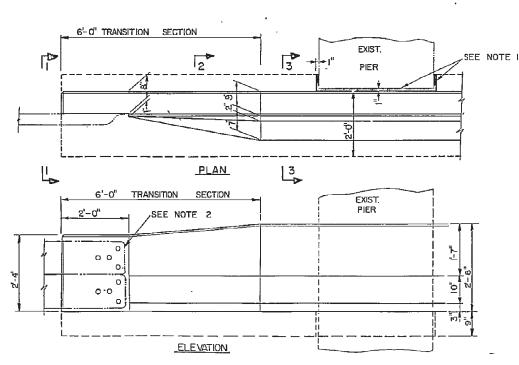
BY DATE

CONCRETE BARRIER

ETP 43 - 89 - 13 CIP 43 - 89 - 14

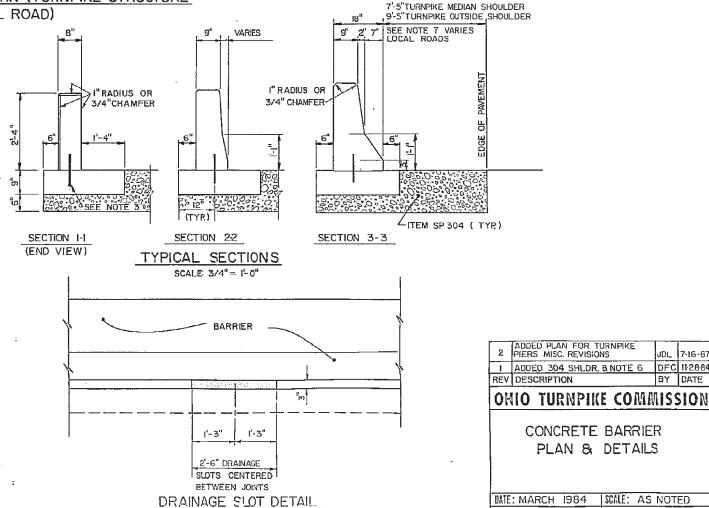
PLAN & DETAILS

SHEET 13

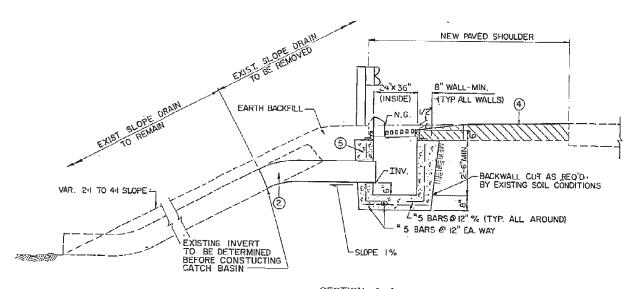


TYPICAL BARRIER END SECTION

SCALE: 3/4" =1'-0"

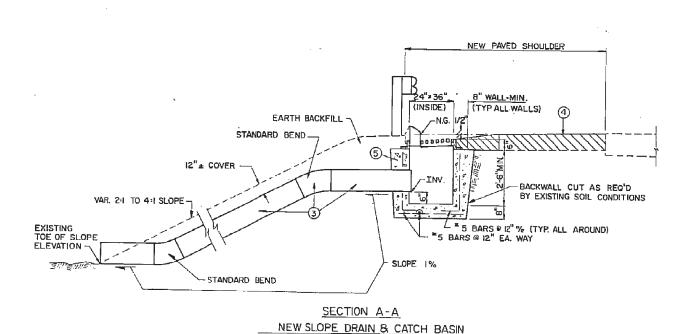


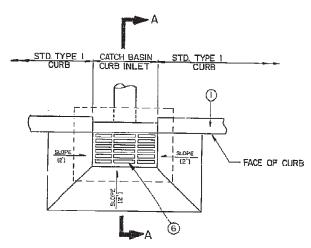
SCALE: 3/4" = 1-0"



SECTION A-A

EXISTING SLOPE DRAIN WITH NEW CATCH BASIN





PLAN VIEW-CATCH BASINS

### <u>LEGEND</u>

- ① SP 609 TYPE I ASPHALT CONCRETE CURB (SEE STANDARD DRWG, BP-5)
- (2) 603 I2" TYPE F CONDUIT, 707.01 (EXCEPT GALVANIZED) OR 707.05 TYPE C WITHOUT PAVED INVERT.
  AS REQUIRED TO FORM TRANSITION BETHEEN NEW CATCH BASIN AND
  EXISTING C.M.P., THAT IS TO REMAIN,
- 3 603 12" TYPE F CONDUIT, 707.01 (EXCEPT GALVANIZED) OR 707.05 TYPE C WITHOUT PAVED INVERT. SIZE WARIES, SEE PLAN SHEETS.
- 4 NEW SHOULDER SURFACE TREATMENT
- (5) REINFORCED CONCRETE CATCH BASIN CLASS "C" CONCRETE USING 499.03 WITH DEFORMED BILLET STEEL REBARS, USING 509.02.
- (6) HEAYY DUTY, GRAY IRON CASTING USING 711.12 CATCH BASIN CURB INLET MODEL NO. R-3246 AS MANUFACTURED BY NEENAH FOUNDRY CO., OR EAST JORDON IRON WORKS MODEL NO. 7030.

### NOTES:

- CATCH BASINS AND SLOPE DRAINS SHALL BE CONSTRUCTED TO THE APPROXIMATE STATIONS AS INDICATED ON THE PLAN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 2. SLOPE DRAIN COUPLING BANDS SHALL BE 10 1/2" BAR & STRAP CONNECTOR WITH CONTINUOUS CORRUGATION AROUND BAND.
- PIPE MAY BE TRIMMED FLUSH WITH INSIDE OF BASIN OR EXTEND INTO THE BASIN 1" MAX.
- 4. N.G. = NORMAL GUTTER ELEVATION INV. = PIPE INVERT ELEVATION.
- WHERE CONNECTIONS ARE MADE BETWEEN NEW AND OLD PIPES PROVIDE CONCRETE COLLAR (SEE STANDARD DRWG. MC-4).

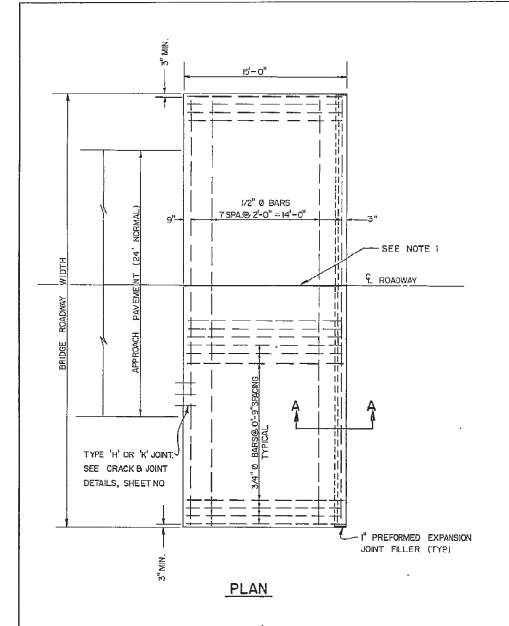
I GENERAL DFC 11-8
NO. REVISIONS BY DAT

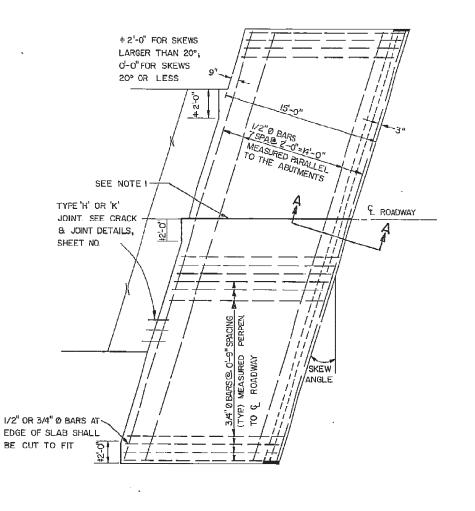
OHIO TURNPIKE COMMISSION

CATCH BASIN &

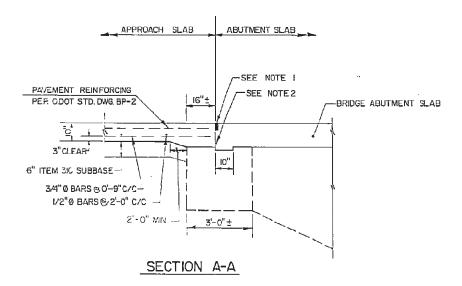
SLOPE DRAIN DETAILS

DATE: JANUARY 1984 SCALE: N. T. S.
FTP 43 - 89 - 14 SHEET 14





# APPROACH SLAB FOR SKEWED BRIDGE



NOTE 1: GROOVE AND SEAL AS PER O.D.O.T. STD. CONST. DWG, BP-3.

NOTE 2: TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE JUINT SEALER IS TO BE

PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.

NOTE 3: REPAIR OF BROKEN APPROACH SLAB SEAT SHALL BE CONSTRUCTED BY THE CONTRACTOR AS PER DETAIL. OR AS DIRECTED BY THE ENGINEER PAYMENT WILL BE MADE ON THE BASIS OF "DIRECT COSTS" PLUS 15 % FOR OVERHEAD AND PROFIT. "DIRECT COSTS" SHALL BE DEFINED UNDER SECTION G-9.02(5) OF THE GENERAL COUNTYLONS

 GENERAL
 THIS
 DRAWING
 PROVIDES
 DESIGN
 AND
 GENERAL
 CONSTRUCTION
 DETAILS

 THE
 PROJECT
 PLANS
 WILL
 SHOW
 SKEW,
 CURBS
 (IF ANY),
 ESTIMATED
 QUANTITY (SQ.YDS.),

 AND
 SPECIAL
 NOTES
 AND
 DETAILS,
 WHERE
 NECESSARY
 FOR
 CONDITIONS
 OTHER

 THAN
 THOSE
 INDICATED
 HEREON,
 THE
 APPROACH
 SLAB
 SHALL
 BE
 ADAPTED
 TO
 FIT

 THE
 ENDS
 OF
 THE
 BRIDGE
 AND
 THE
 APPROACH
 PAVEMENT.

### DESIGN DATA

CONCRETE CLASS S USING SHRINKAGE COMPENSATING CEMENT
REINFORCING STEEL: A.S.T. M. A615, A616 OR A617 - GRADE 60 MIN YIELD STRENGTH
60,000 P.S. I.

PREFORMED EXPANSION JOINT FILLER AND SEALER AT THE CORNERS AND SIDES OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ YARD FOR THE APPROACH SLAB

<u>GROOVE AND JOINT SEAL</u> SHOWN AT THE BRIDGE LIMIT END OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ YARD FOR THE APPROACH SLAB

TYPE A WATERPROOFING SHOWN AT THE ABUTMENT SLAB SHALL BE INCLUDED IN THE PRICE BID PER SO YARD FOR THE APPROACH SLAB.

LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511 09.

CURBS, BRIDGES WITH SIDEWALKS: FOR BRIDGES CONSTRUCTED WITH RAISED SIDEWALKS, DEFLECTOR PARAPETS OR OTHER TYPES OF CONSTRUCTION WHICH RETAIN ROADWAY SURFACE DRAINAGE, THE APPROACH SLABS SHALL EITHER INCLUDE INTEGRAL CURBS OR BE CONSTRUCTED IN CONJUNCTION WITH BRIDGE CURBS. CURB HEIGHT SHALL BE TRANSITIONED UNIFORMLY BETWEEN BRIDGE CURB HEIGHT AND APPROACH CURB HEIGHT IN LENGTH AS FOLLOWS: WHERE WINGWALL EXTENDS BEYOND END OF APPROACH SLAB, USE A MINIMUM LENGTH OF IOFT, BEYOND END OF WINGWALL WHERE THE APPROACH SLAB EXTENDS BEYOND THE END OF WINGWALL, TRANSITION IN THIS LENGTH. HOWEVER, THE TRANSITION LENGTH SHALL NOT BE LESS THAN 10 FT AND THE TRANSITION SHALL EXTEND BEYOND THE END OF THE APPROACH SLAB IF NECESSARY CURB PLACEMENT SHALL BE IN ACCORDANCE WITH 0.0 O.T. STANDARD CONSTRUCTION DRAWING BR—I

APPROACH SLAB WIDTH APPROACH SLAB FOR 38'-6" BRIDGE WIDTH SHALL BE 39'-0" WIDE WHEN CURBS ARE NOT INCLUDED; 39'-3" WHEN CURB IS INCLUDED ON ONE SIDE ONLY; 39'-6" WHEN CURBS ARE INCLUDED ON BOTH SIDES.

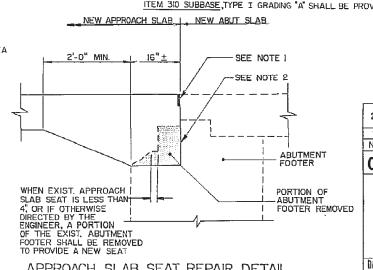
CROWN SHALL CONFORM TO THAT OF THE APPROACH PAVEMENT AND BRIDGE DECK.

IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH PAVEMENT, A SMOOTH TRANSITION SHALL BE PROVIDED WITHIN THE LIMITS OF THE APPROACH SLAB.

TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE EITHER TYPE 'K' OR 'H' AS DETAILED ON THE PLANS.

PAYMENT FOR THE TRANSVERSE JOINT SHALL BE AT THE UNIT PRICE BID PER LIN. FT. FOR THE JOINT FURNISHED.

ITEM 310 SUBBASE, TYPE I GRADING "A" SHALL BE PROVIDED UNDER ALL APPROACH SLABS. -



2 ADDED IMPRESSED JOINT 8 CHANGED TYPE OF CEMENT DFC 112884

1 ADDED SEAT REPAIR DETAIL DFC 10-2-84

Nº REVISION BY DATE

# OHIO TURNPIKE COMMISSION

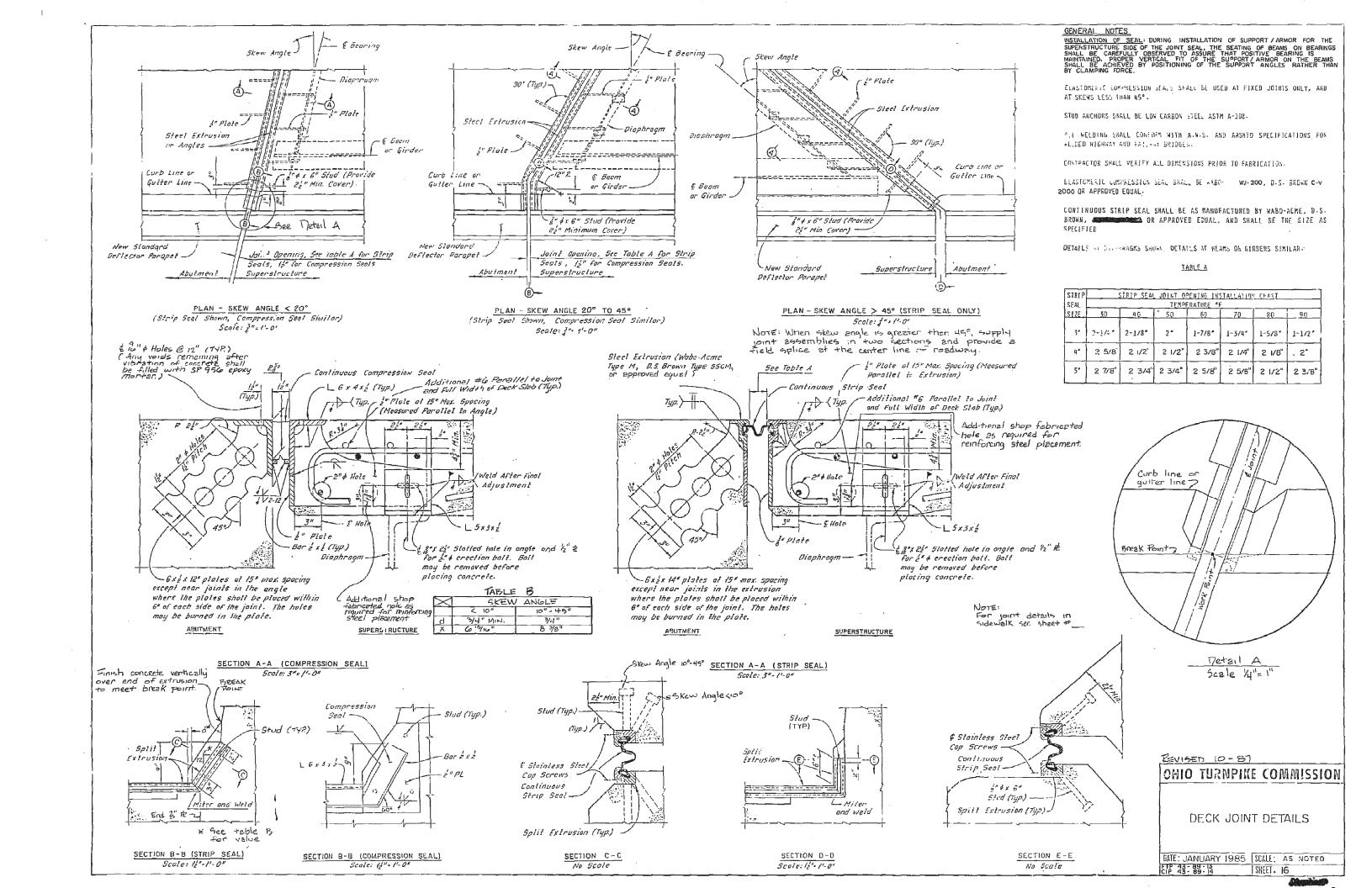
REINFORCED CONCRETE

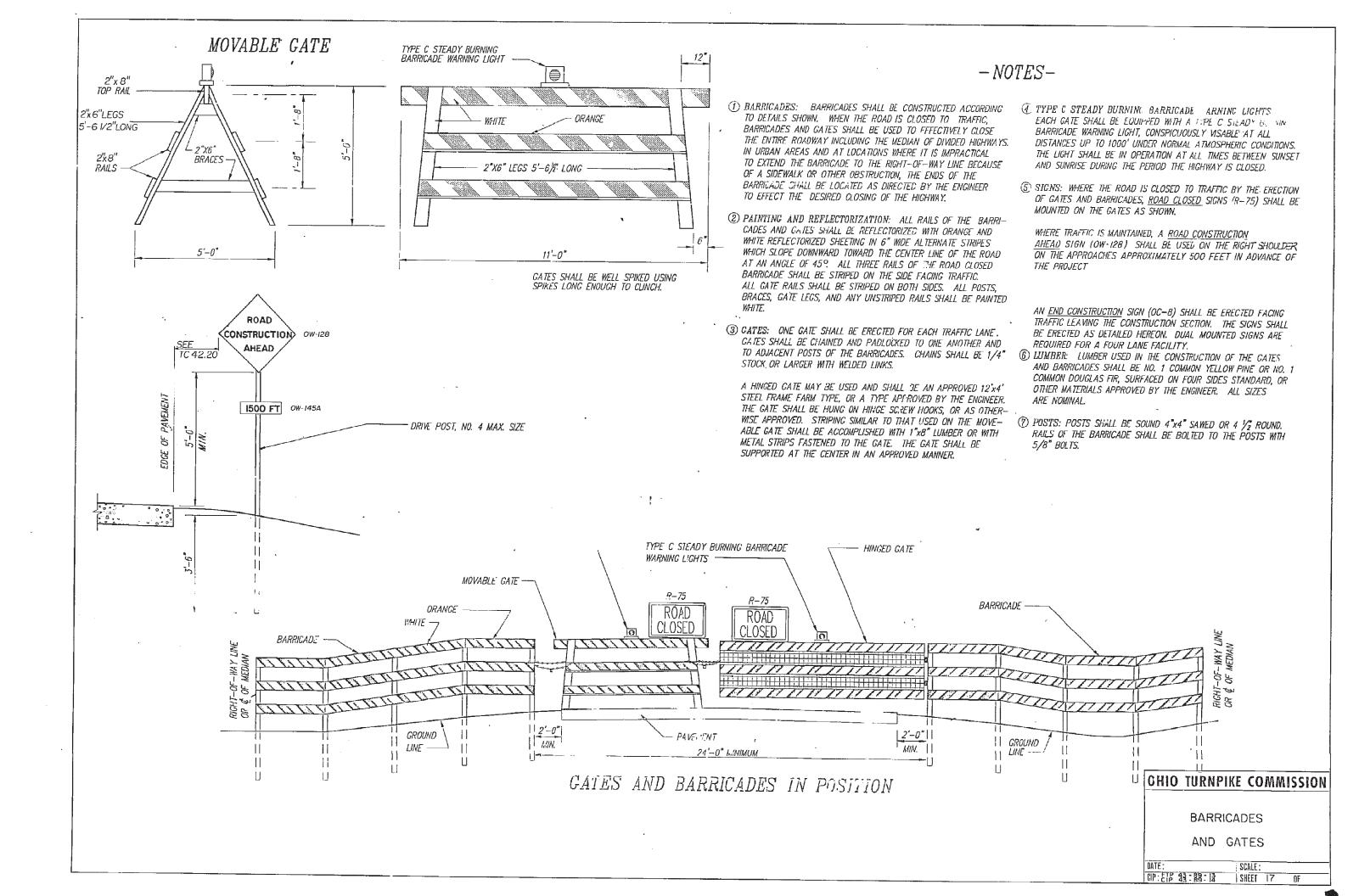
APPROACH SLABS

 DATE: OCTOBER 1983
 SCALE: N.T.S.

 ETP 43 - 83 - 13
 SHEET 15

APPROACH SLAB SEAT REPAIR DETAIL





# GENERAL NOTES

SPECIFICATIONS: 1983 O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS. LATEST A. A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES FOR DESIGN.

MATERIALS: FABRIC SHALL BE I" MESH WOVEN FROM NO. 9 GAUGE, ALUMINUM COATED STEEL WIRE CONFORMING TO A.A.S.H.T.O. MIBI, TYPE II THE ENDS OF THE FABRIC SHALL BE KNUCKLED SELVAGE AT THE TOP AND BOTTOM

ALL POSTS, BRACES, FITTINGS AND HARDWARE SHALL MEET THE REQUIREMENTS OF A.A.S.H.T.C MISI. THEY SHALL BE ZINC COATED STEEL EXCEPT CASTINGS FOR OTHER THAN ORNAMENTAL PURPOSES WHICH SHALL BE ZINC COATED MALLEABLE IRON.

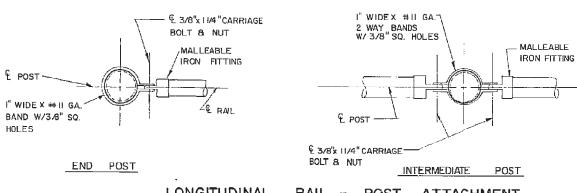
ALL PLATES SHALL BE STEEL CONFORMING TO A. S. T. M. DESIGNATION: A-36. ALL PARTS SHALL BE STEEL GALVANIZED UNLESS OTHER-WISE NOTED AND ALL GALVANIZING SHALL BE DONE AFTER FABRICATION. PRECOATED LONGITUDINAL RAILS, IF CUT, WILL HAVE CUT END COATED WITH WITH A ZINC-RICH PRIMER MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATIONS TT-P-641 TYPE II, PRIOR TO ERECTION

ANCHOR STUDS: MATERIAL FOR ANCHOR STUDS SHALL CONFORM TO A.S.T.M. DESIGNATION: A-276 TYPE 430 TO TYPE 304 STAINLESS STEEL ANNEALED, HOT-FINISHED, ULTIMATE STRENGTH 70,000 P.S.I. MIN., 20% MIN. ELONGATION. THREADS MAY BE ROLLED OR CUT.

POST SPACING: FOR POST SPACING SEE PERTINENT STRUCTURE SHEETS. POST SPACING SHALL BE 8'-0" MAXIMUM.

ERECTION: ALL LONGITUDINAL RAILS TO BE PARALLEL TO TOP OF PARAPET.

ALL POSTS TO BE SET NORMAL TO TOP OF PARAPET.



BAND W/3/8" SQ.

BOLT & NUT-

3/8"x11/4" CARRIAGE

TRUSS

4- 3/4" DIA.x I" LONG

SLOTTED HOLES FOR

1/2" THICK PLATE

5/8" Ø ANCHOR STUDS

HOLES LONGITUDINAL RAIL - POST ATTACHMENT SCALE: 3" = 1'-0" €\_3/8"X11/4" CARRIAGE 3/8" ØTRUSS RODS. BOLT B. NUT I"WIDE X # II GA END FENCE PANELS STRETCHER BAR . & POST I"WIDE X ## 41 GA

ATTACH ANTI-CLIMB SHIELD

TO FENCE POST BY SMALL SECTIONS OF PIPE WITH
I/4" FILLET WELD. PIPE
CONNECTOR TO BE SHAPED TO
HAVE FULL CONTACT WITH POST.

TOP OF PARAPET

4-5/8" Ø ANCHOR STUDS WITH HEX. HEAD NUTS &

WASHERS (AT EACH END)

-ROADWAY

-5/8"ØANCHOR STUD WITH HEX.HEAD NUTS WASHERS (AT EACH END)

I/2" PLATE

∠3/16"x3/4" STRETCHER BAR STRETCHER BAR ATTACHMENT

NO SCALE

2'-9"

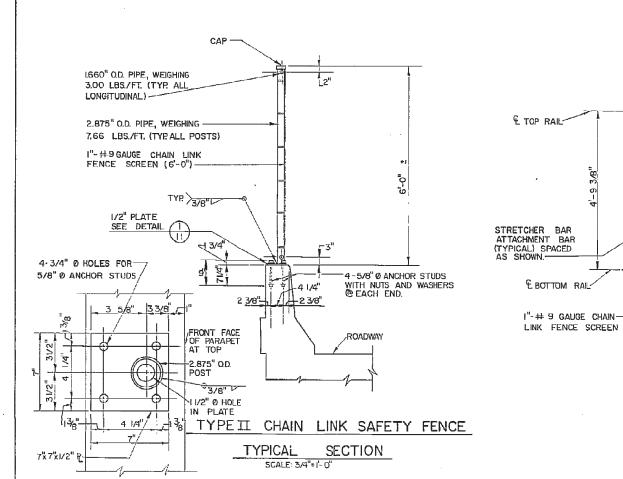
€ OF POST~

1660" O.D. PIPE,

WEIGHING 3.0LBS./FT

3/15% 3/4"

STRETCHER BAR



-2" & 60° F

3/8"

ROD

TRUSS

INTERMEDIATE POST

1.66" O.D. LONGITUDINAL

WEIGHING 7.66 LBS /FT.

-SINGLE#9 GAUGE OR DOUBL5#13 GAUGE TIE

WIRES. (TYP. EACH POST)

1/8"x !" BRACE BAND WITH

3/8"x11/4" CARRIAGE BOLT 8 NUT (TYP)

RAIL WEIGHING 3.00 LBS./FT.

(TYPICAL)

(TYPICAL)

(TYPICAL)

2.875 O.D. POST

1-15/16

3/8" TRUSS

ROD (TYP.®

ALL END POSTS

EXPANSION JOINT

- IN PARAPET-

TOP OF PARAPET

**ELEVATION** 

SCALE:1/2"=1'-0"

ANTI-CLIMB SHIELD TYPICAL OF FOUR PLACES TYPICAL SECTION SCALE: 3/4"= 1-0

1.660" O.D. POST-I" Ø HOLE IN PLATE 3/16" 11/2" HOLE IN PLATE 1/2" THICK PLATE INSIDE FACE OF PARAPET OUTSIDE FACE OF PARAPET SECTION 1.660" O.D. -----BOTTOM RAIL " Ø HOLE IN PLATE TOP OF PARAPET £ 3/4" DIA. SLOTTED 3 V2" 31/2" HOLE FOR 5/8" Ø ANCHOR STUD

MALLEABLE IRON

TURNBUCKLE

MALLEABLE

ROD ATTACHMENT

NO SCALE

IRON FITTING

4 141

/8<u>"</u> 3 3/4"

1 3/8" C SLOTTED HOLES -3 3/8" C POSTS

/2.875" O.D. POST

SECTION SCALE: 3" = 1-0"

# OHIO TURNPIKE COMMISSION

7-12-88 CHAIN LINK SAFETY FENCE DETAILS, TYPE II

> DATE: JUNE 1983 SCALE: AS NOTED CL-2

DETAIL NOT TO SCALE

SINGLE #9 GAUGE OR DOUBLE #13 GAUGE TIE WIRES AT 2'-0"±

RAIL (MINIMUM OF 2 1/2 TURNS)

CAP (TYP ALL

STRETCHER BAR

TYP

ATTACHMENT-

STRETCHER BAR

TYPICAL END POST-

FABRIC TO BE 1/2"±

CLEAR OF TOP OF

PARAPET.-

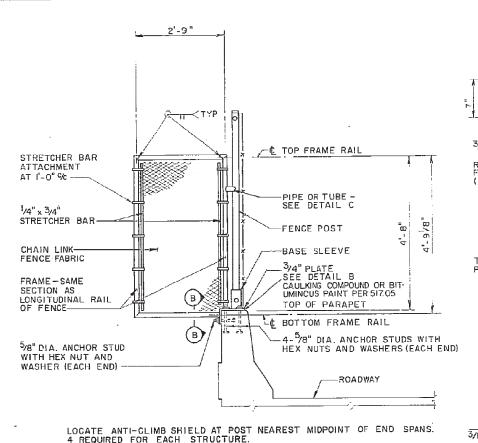
3/16"x 3/4"

POSTS) -

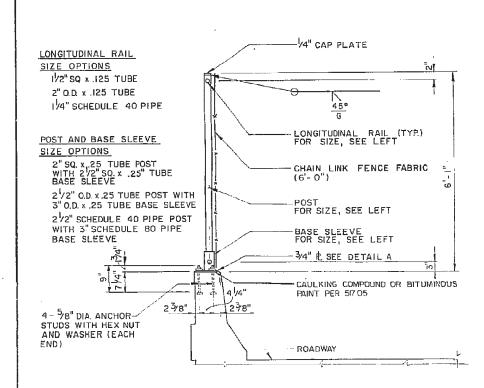
C/C TYPICAL EACH LONGITUDINAL

STANDARD DRAWING

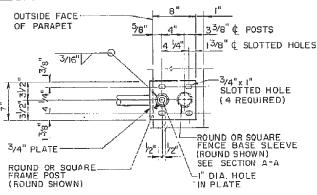
REVISED 2-2-84



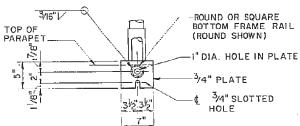
# ANTI-CLIMB SHIELD DETAIL 3/4" = 1'-0"



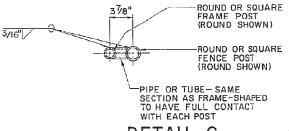
TYPE I CHAIN LINK FENCE DETAIL



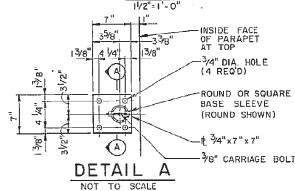
# DETAIL

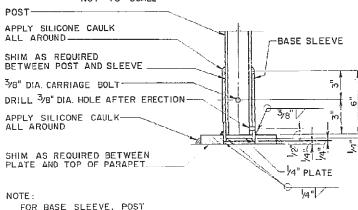


# SECTION B-B 1/2" = 1'-0'



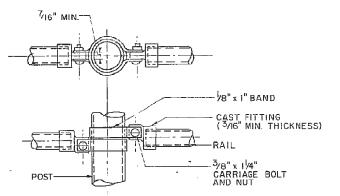
# DETAIL C



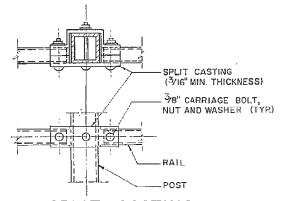


AND RAIL SIZES SEE FENCE DETAIL AT LEFT

SECTION A-A



RAIL FITTING AND BAND

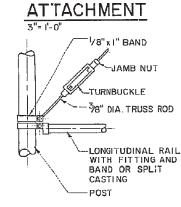


SPLIT CASTING

LONGITUDINAL RAIL-POST ATTACHMENT

MAIN FENCE POST OR FRAME POST FOR ANTI-CLIMB SHIELD /8"x |" BAND AT 1'-0" C/c ± \_<sup>3</sup>/8" x 1 /4" CARRIAGE BOLT AND NUT -1/4"x <sup>3</sup>/4" STRETCHER BAR

# STRETCHER BAR



# TRUSS ROD **ATTACHMENT**

GENERAL NOTES

SPECIFICATIONS: 1983 O.D.O.T. "CONSTRUCTION AND MATERIAL SPECIFICATIONS"; LATEST A.A.S.H.T.O. "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" AND "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS"

MATERIALS: CHAIN LINK FENCE FABRIC SHALL BE I" MESH WOVEN FROM NO.9 GAGE ALUMINUM ALLOY WIRE CONFORMING TO THE REQUIREMENTS OF A.A.S.H.T.O. MISI, TYPE III, AND SHALL HAVE KNUCKLED SELVAGE AT THE BOTTOM AND BARBED SELVAGE AT THE TOP. FABRIC TIES SHALL BE NO.9 GAGE ALUMINUM ALLOY WIRE CONFORMING TO THE REQUIREMENTS OF A.S.T.M. B211, ALLOY 6061, TEMPER T6.

POSTS, RAILS, PLATES, BARS, BANDS AND TRUSS RODS SHALL BE ALUMINUM ALLOY CONFORMING TO THE REQUIREMENTS OF A.S.T.M. B221, ALLOY 6061, TEMPER T6.

SHIMS SHALL BE ALUMINUM ALLOY CONFORMING TO A.S.T.M. B209; ALLOY 1100-0.

RAIL FITTINGS, TURNBUCKLES AND SPLIT CASTINGS SHALL BE ALUMINUM ALLOY CASTINGS CONFORMING TO THE REQUIREMENTS OF A.S.T.M. B26, B85 OR BIO8, ALLOY SG70A-T6, ZCBIA-T5, SGIOOA, SGIOOB OR SI2B.

CARRIAGE BOLTS AND NUTS SHALL BE ALUMINUM ALLOY CONFORMING TO THE REQUIREMENTS OF A.S.T.M. B2II, ALLOY 2024-T4 FOR BOLTS, AND ALLOY 6061-T6 FOR NUTS. WASHERS SHALL BE ALUMINUM ALLOY CONFORMING TO THE REQUIREMENTS OF A.S.T.M. B209, ALLOY 6061-T6.

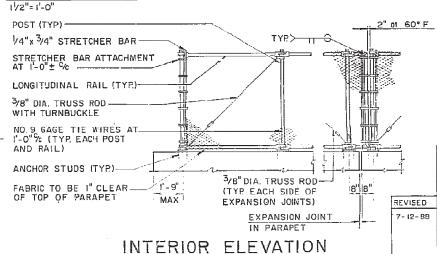
ANCHOR STUDS: MATERIAL FOR ANCHOR STUDS SHALL CONFORM TO A.S.T.M. DESIGNATION A-276, TYPE 430 TO TYPE 304 STAINLESS STEEL ANNEALED, HOT-FIN-ISHED, ULTIMATE STRENGTH 70,000 P.S.I. MINIMUM, 20% MINIMUM ELONGATION, THREADS MAY BE ROLLED OR CUT.

POST SPACING: FOR POST SPACING, SEE PERTINENT STRUCTURE SHEETS. POST SPACING SHALL BE 8'-0" MAXIMUM.

ERECTION: ALL LONGITUDINAL RAILS TO BE PARALLEL TO TOP OF PARAPET.

ALL POSTS TO BE SET NORMAL TO TOP OF PARAPET

ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH CONCRETE SHALL BE GIVEN A HEAVY COAT OF ALKALI-RESISTANT BITUMINOUS PAINT BEFORE INSTALLATION.

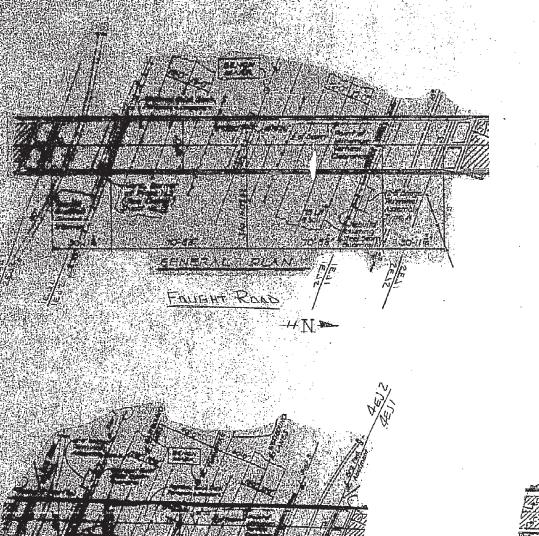


OHIO TURNPIKE COMMISSION

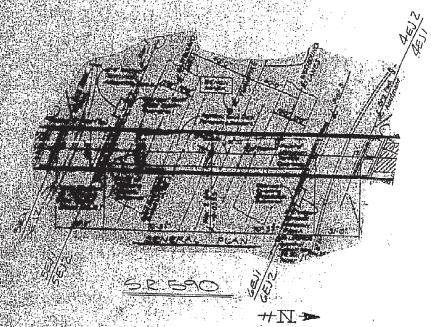
CHAIN LINK SAFETY FENCE (ALL ALUMINUM) DETAILS, TYPE II

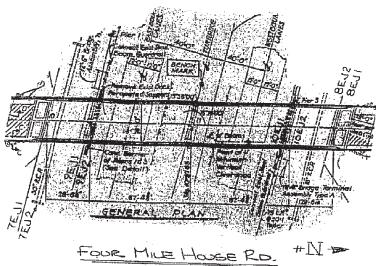
DATE: FEB., 1984 SCALE: AS NOTED STANDARD DRAWING CL - 2A

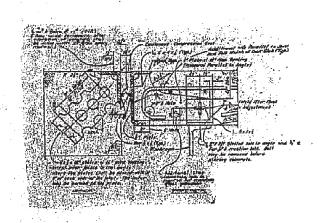
ALC: NO PERSON NAMED IN

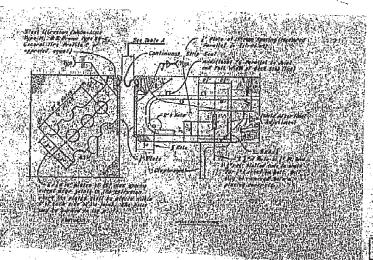


CONTRACTOR TO VERIFY "
ALL SKEW ANGLES PRIOR
TO FABRICATION





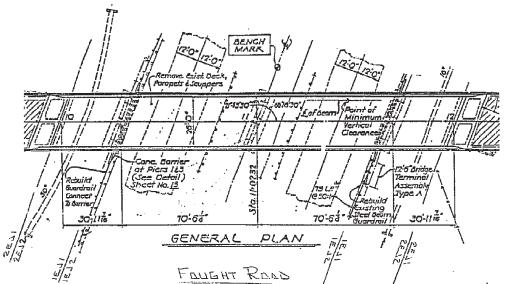




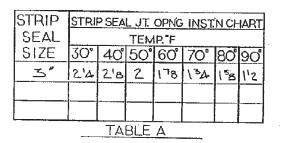
TOR APPROVAL

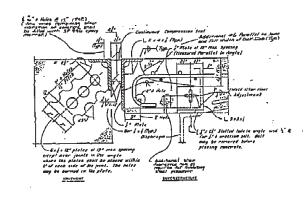
PRINT ISSUED
7-26-89
KOHLI & KALIHER, ASSOC, LIMITED

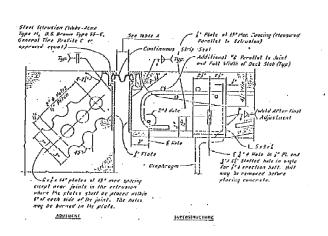
Doubles College



Note: Skew Angle Sinall be VeriFIED PRIOR TO FABRICATION









MARBRI DISCLAIMER NOTE

NO FIELD CHARGES WILL BE ACCEPTED BY MARRIE FROMBERING LACCEPTABLE METHODE FOR CORRECTION ARE PROVINGED AND RELEASED BY MARRIE ENGINEERING.

# FOR APPROVAL

MARBRI ENGINEERING
7811 HICKORY HILLS LN. PARMA OH. 216 842-91

	7811 HICKOF	RY HILLS LN. PARMA, OH 21	842-96	314
CIP 43.80-13 CIP 43.80-14 FAUGHT RAS BRIDGE	MILA	N STEEL FABRIC	LATIN	161
EXV ADIAT BETAILS	HOUTE	MEVILIQNA		BLYS
DANSARA GREHNKE I MAK	THE TE			
SAUDUSCO COULTS	TITLE	Hq.		$\dashv$

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	TYPICAL SECTIONS	_5-11
	GENERAL NOTES	_12-14
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	SOIL PROFILE/FOUNDATION INVESTIGATION	<del></del>
	OTC STANDARD DRAWINGS	_
	OTO OTT INTEL DIVINISTO	_



# OHIO TURNPIKE COMMISSION

HE JAMES W. SHOCKNESSY OHIO TURNPIKE

CONTRACT 77-97-08 THIRD LANE CONSTRUCTION MP. 86.17 TO MP. 91.21

STATION 225+00 TO STATION 493+00 SANDUSKY COUNTY

2 WORKING DAYS SEFORE YOU DIG Coll.\_800-362-2764 (Toll Free) OHIO UTILITIES PROTECTION SERVICE CALL JAYTEL - (419) 884-0400 (LC FIBER OPTIC CABLE)

OHIO TURNPIKE DIMISION SUPERINTENDENT (419) 852-2922 (ROADWAY LIGHTING CABLE)

CR-11112-30-96 FCR-12|6-11-97 ΓCR−13 1−1−97 BEGIN PROJECT 1-1-97 STA.225+00.00 1-1-97 M.P. 86.17

MC-9.110-30-92

MC-9.3 10-30-92 MC-9.4 10-30-92

HW-4B 4-01-80

MC-4 7-26-76

MC-11 8-01-78

APPROVED FOR THE OHIQ TURNPIKE COMMISSION CHIEF ENGINEER

RECOMMENDED FOR APPROVAL

GREINER, INC.

REVIEW CONSULTANT

8-20-97 DATE

PLAN PREPARED BY ₹CT Consultants, Inc. Engineers · Architects · Planners

DESIGN CONTRACT NO. 71-96-44

1,2,20.34, 98-105 OTC STANDARD DRAWINGS

AS1	1-24-97	CB-5	6-25-97	EPA-1	4-21-97	TC-1	6-25-97		TCR-11
AS-2	1-24-97	CBR-1	6-25-97	F-1	4-18-97	TC-2	6-25-97		TCR-12
AS3	4-22-97	CBR-3	8-6-97	GR-1	8-4-97	TCB-1	7-11-97		TCR-13
AS-4	4-21-97	CJ-1	7-11-97	GR-2	8-4-97	TCB-2	6-25-97		UD-1
AS-5	4-21-97	CJ-2	4-18-97	JB-1	1-1-97	TCR-1	1-29-97		XOV-3
CB-1	1-1-97	DJ-1	6-25-97	MCC-1	1-1-97	TCR-2	6-11-97		
CB-2	1-1-97	DJ-2	6-25-97	MCC-2	1-1-97	TCR-9	6-11-97		
CB-4	6-25-97	DJ-5	6-25-97	RPM-1	8-4-97	TCR-10	6-11-97		
								_ `	

FIBER OPTIC CABLE AS-BUILT DRAWINGS

TC-41.40 6-18-79 | MT-105.11 | 7-01-92 | F-2

LCI COMMUNICATIONS CORP.

	OHIO DEPA	RTMENT O	TRANSPO	RIATION	STANDARD L	PRAWINGS	
HL-20.11	5-01-87	TC-42.10	8-19-77	MT-105.10	7-01-92	F-5	5-01-76
TC-7.65	3-01-79	TC-42.20	3-26-79	BP-1.1	2-21-92	GR-1.1	5-06-91
TC-12.30	1-20-84	TC-51.11	9-30-94	BP-1.2	2-21-92	GR-1.3	2-21-92
TC-21.10	9-01-92	TC-51.12	1-03-94	BP-2.1	10-28-94	GR-2.1	5-06-91
TC-21.20	9-01-92	TC-52.10	4-03-79	BP-2.2	10-28-94	GR-3.1	5-06-91
TC-21.40	9-01-92	TC-52.20	4-03-79	BP-2.3	2-21-92	GR-3.2	5-06-91
TC-22.20	9-01-92	TC-41.20	6-21-94	BP-3.1	2-21-92	GR-4.2	5-06-91

5-01-76 MC-1

BS-1-93 12-19-94 FB-1-82 5-10-82 PCB-91 4-24-92

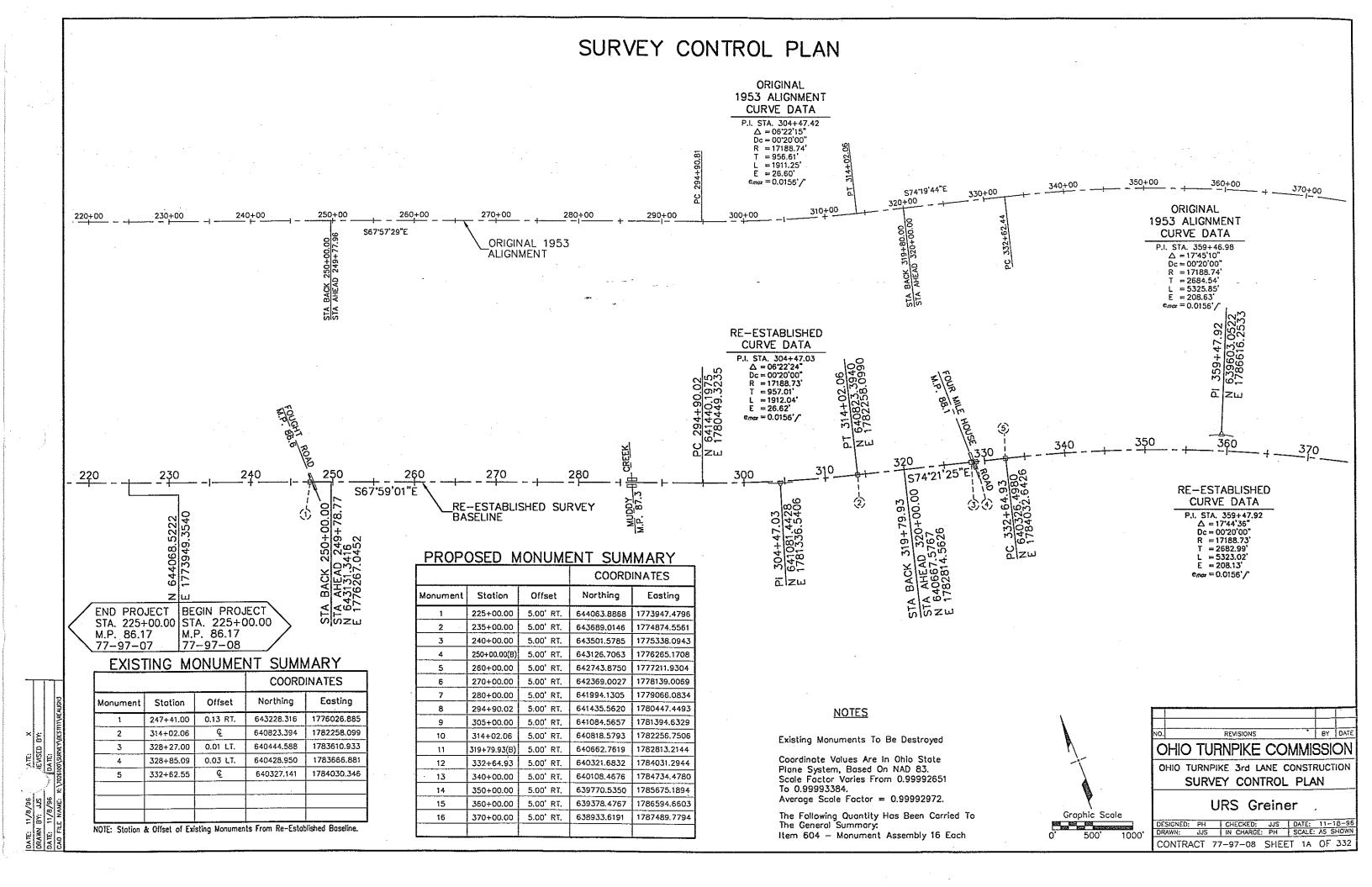
6-13-69

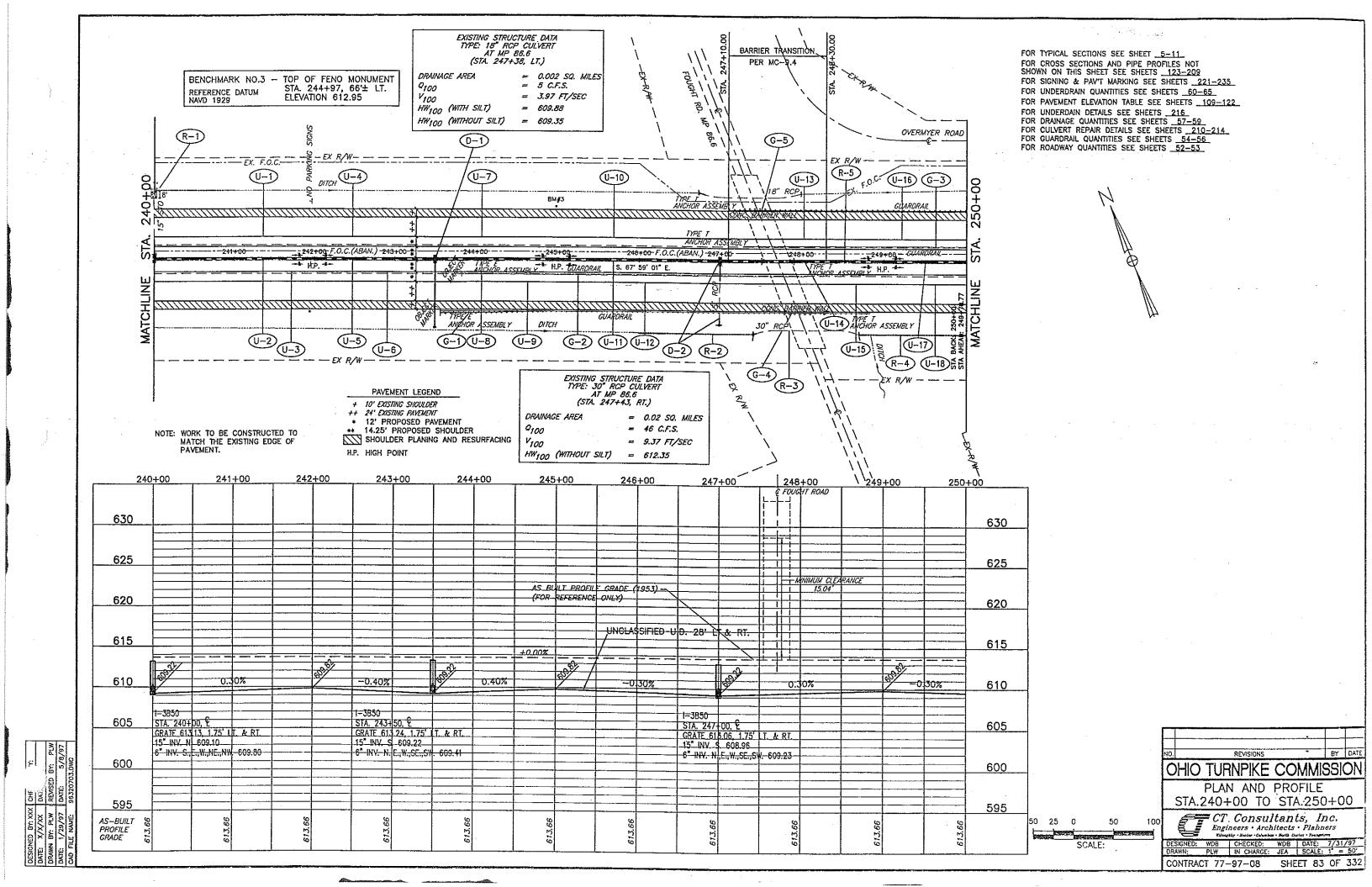
**SCALES** HORIZONTAL DESERVENTICAL DECER HORIZONTAL O 10 VERTICAL 0 10

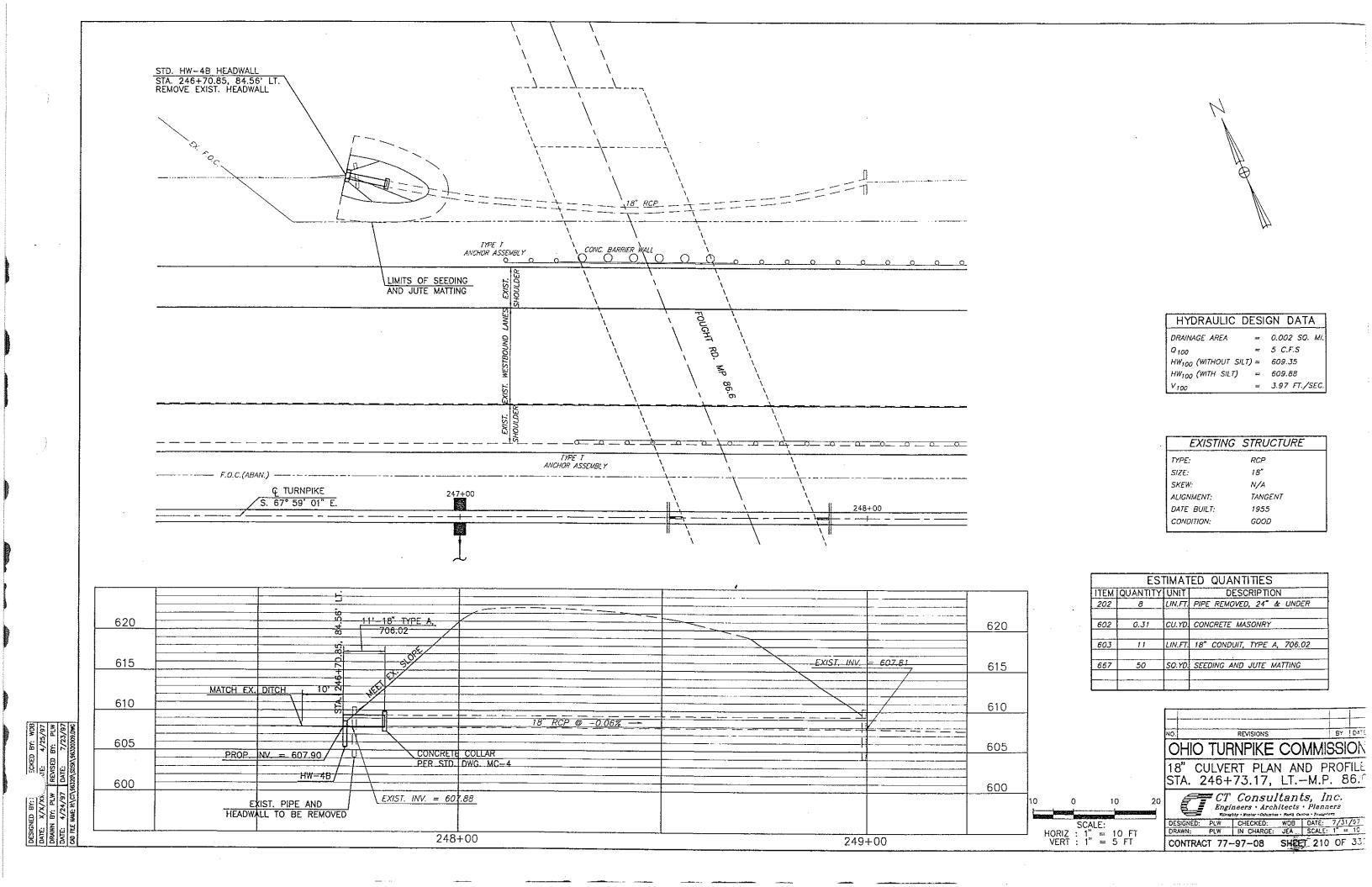
**END PROJECT** 

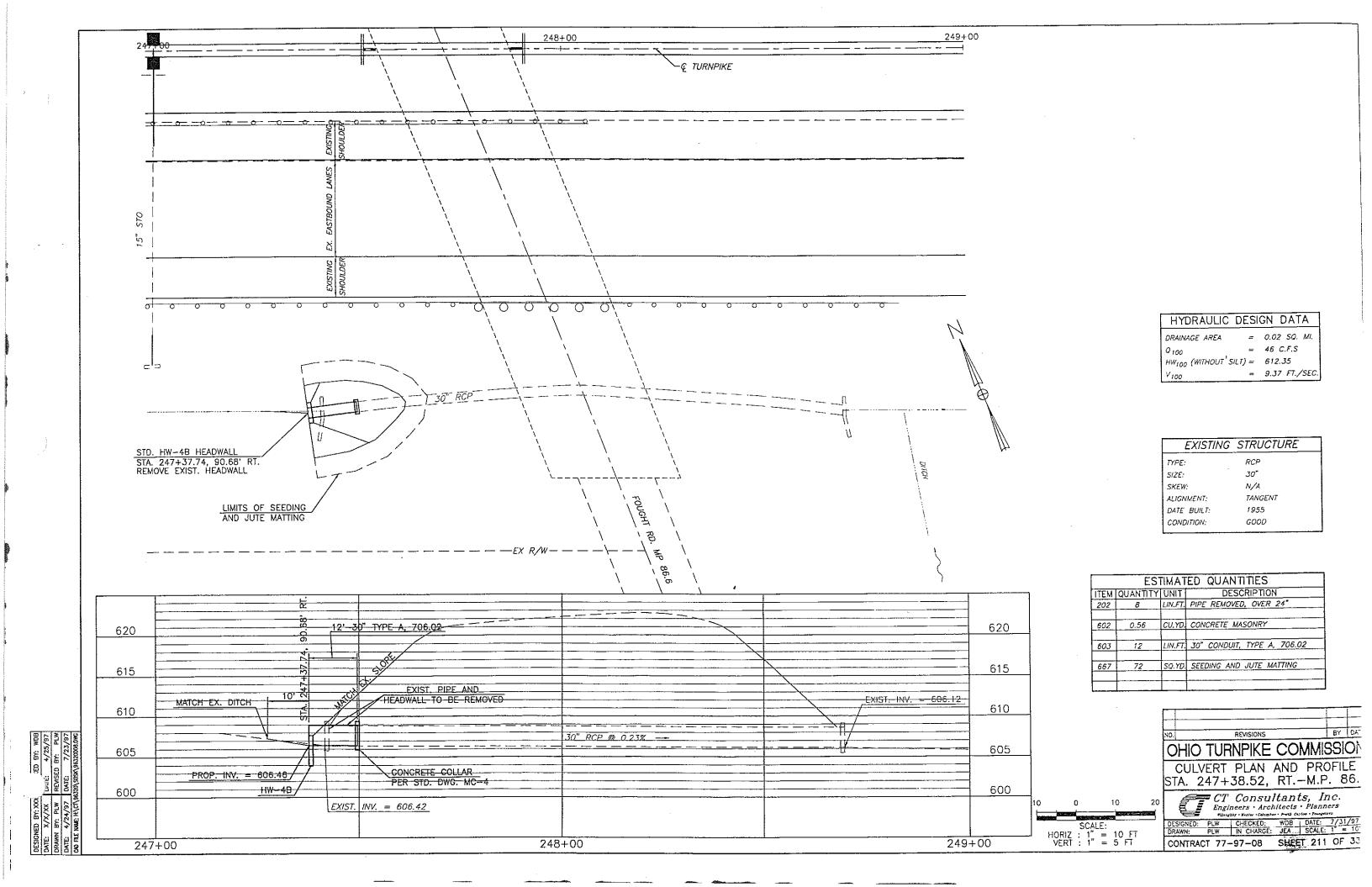
M.P. 91.21

STA.493+00.00

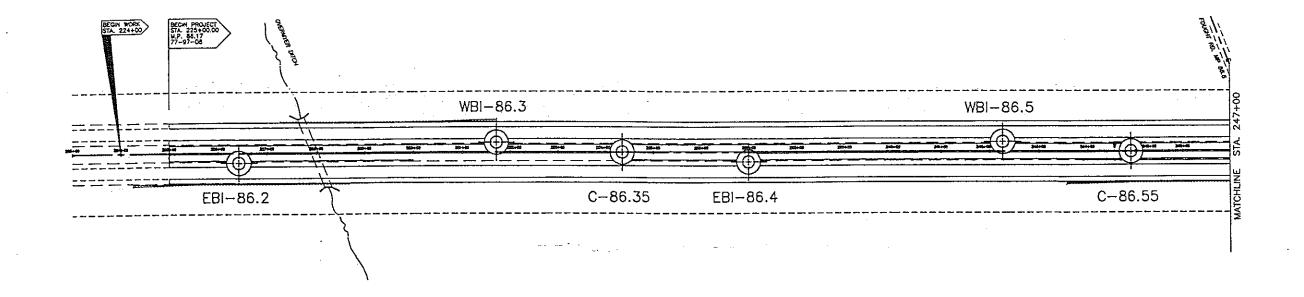


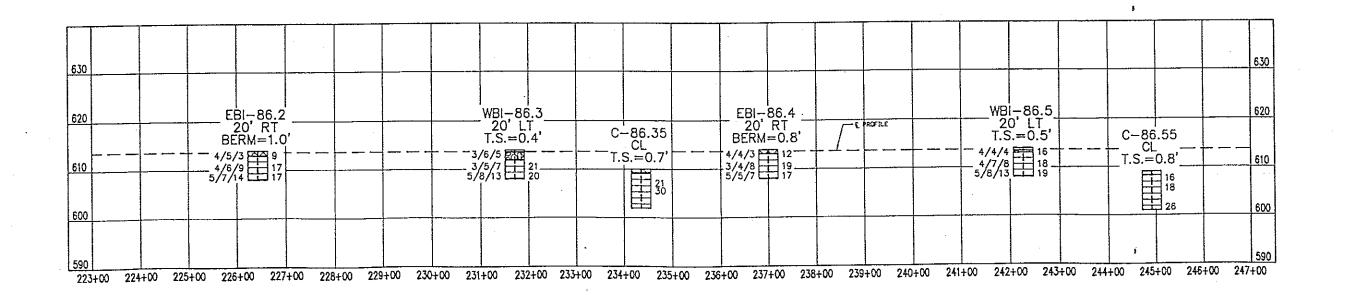






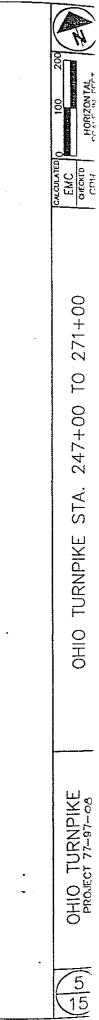


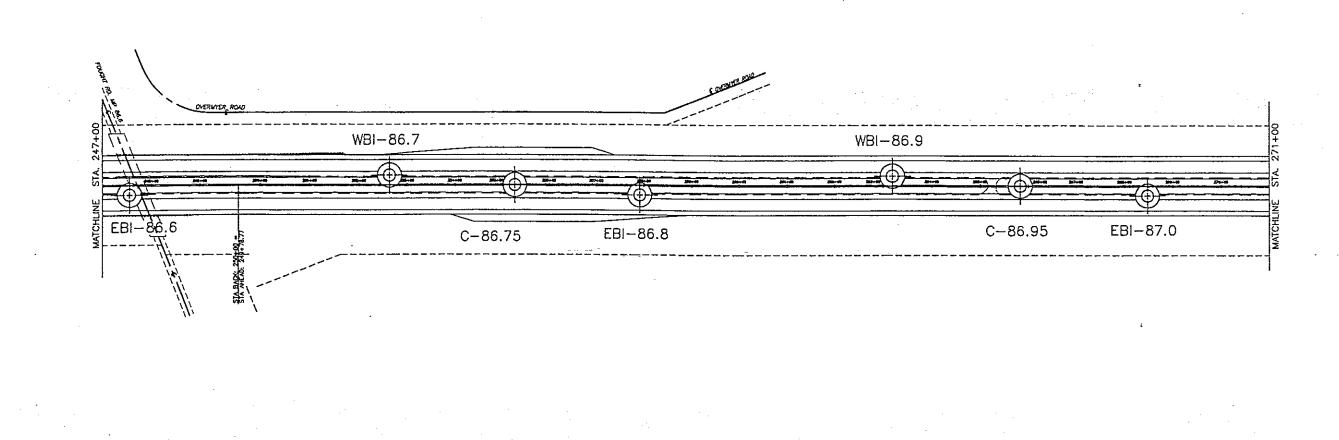




FILENAME: 6304R-4.DWG DATE: 23\_JULY\_1997

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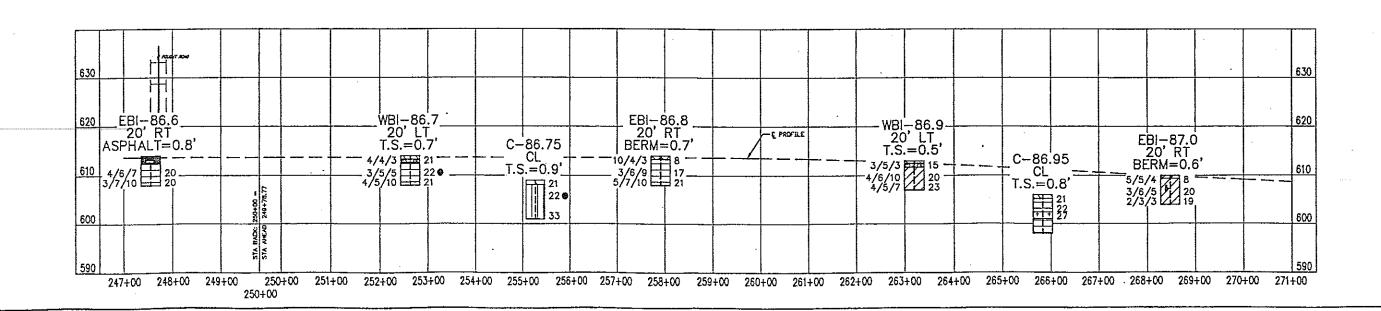


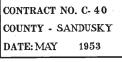
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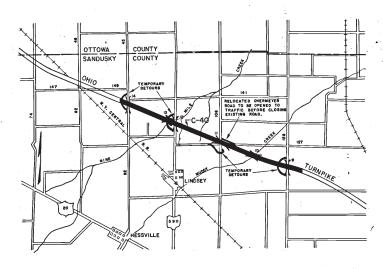




# OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1 DESIGN SECTION D-14

CONTRACT NO. C-40 TURNPIKE CONSTRUCTION CONTRACT STATION 132+00 TO STATION 340+00



LOCATION PLAN (FROM SANDUSKY COUNTY MAP)

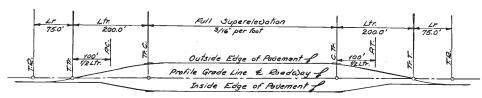
APPROVAL RECOMMENDED PORTER URQUHART ASSOCIATED

APPROVED

SHEET NO.	TITLE	
1	Index Sheet	
2	Summary Sheet	
1	Plan and Profile	
12	Plan and Profile Co. Rd 92, Hessbille Rd.	
13 \$14	Plan and Profile S.R. 590 North & South	
15	Plan and Profile Relocation Co. Rds. 106 \$127	
16	Plan and Profile Co. Rd. 128, Four Mile House	
17	Turnpike - Roscoe Overmyer Boz Cultert Clo	
18	Turnpike-Israel Waggoner Boz Culvert C-3	
19	Roscoe Overmyer Drain, Cleanout & Deepen	
	Structures No. 9 thru No. 14	
	Typical Details for Structures	
38 to 40	Boring Data for Structures	-
		2
	STANDARD DRAWINGS	
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	Typical Roadway Sections	5-6-52
	tlandrail Details Inlets and Curbs	5-6-53 5-6-52
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11	Pavement Joint Spacing	12-31-52
12	Right of Way Fence and Gates Right of Way Fence Installation Details	5-6-53
	Permanent Barricade, Permanent Mon-	5 - 6 -53 3 - 3 -53
15	uments and Delineators Drainage Details For Turnpike Over-	4-27-53
	passes and Underpasses.	4-27-00
	Underdrains Guard Rails Type A and B	1-20-53 1-24-53
18	Guard Rails Type C and D	5-6-53
19	Agricultural Tile Drainage Typical Details Flood Gates for Right of Way Fence	12-5-52
20 21	Transverse Pavement Joints, Type C	1-6-53 1-23-53
22	Culvert Pipe Bedding and Backfill	2-19-53
-		2
	_	
	- 1	

## GENERAL NOTES

1. ELEDATION MEAN SEA LEDEL U.S.C. & G.S. 2. NORTH AS INDICATED AND REFERRED TO IN THIS SET OF PLANS IS THE GRID NORTH OF THE NORTH ZONE OF THE OHIO STATE LAMBERT PROJECTION COORDINATE SYSTEM.



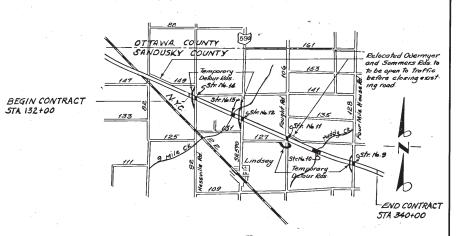
## SUPERELEDATION ROTATED ABOUT CENTER LINE OF PADEMENT

T. & = Point of Tangent Runout
T. Tr. = Point of Tangent Transition
T.C. = Point of Transition Curve
C.Tr. = Point of Curve Transition
T.T. = Point of Transition Tangent
Lr. = Length of Runout

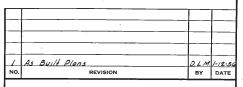
THIS PROJECT SHALL BE CONSTRUCTED UNDER OHIO TURNPIKE PROJECT NO.1, GENERAL SPECIFICATIONS, DATED DECEMBER 9, 1952

## SPECIAL PRODISIONS FOR CONTRACT C-40

	ē.	
SUPPLEMENTAL	SPECIFICATION	NO. B-20 DATED DEC. 9, 1952
SUPPLEMENTAL	SPECIFICATION	NO. I-9 DATED DEC. 9, 1952
SUPPLEMENTAL	SPECIFICATION	NO. I-17 REVISED MAY 28,1953
SUPPLEMENTAL	SPECIFICATION	NO. T-30 DATED DEC. 9, 1952
SUPPLEMENTAL	SPECIFICATION	NO. T-31 DATED DEC. 9, 1952
SUPPLEMENTAL	SPECIFICATION	NO. B-35 DATED DEC. 9, 1952
SUPPLEMENTAL	SPECIFICATION	NO. T- 35 DATED DEC. 9, 1952
SUPPLEMENTAL	SPECIFICATION	NO. I-30 DATED JUL 9,1953
SUPPLEMENTAL	SPECIFICATION	NO. A-5 DATED AUG 7, 1953
SUPPLEMENTAL	SPECIFICATION	NO. I-29 DATED MAY 28, 1953
SUPPLEMENTAL	SPECIFICATION	No. I-18 DATED MAY 28,1953



MAP INDICATING METHOD OF MAINTAINING TRAFFIC
Scale finch | Imile



OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

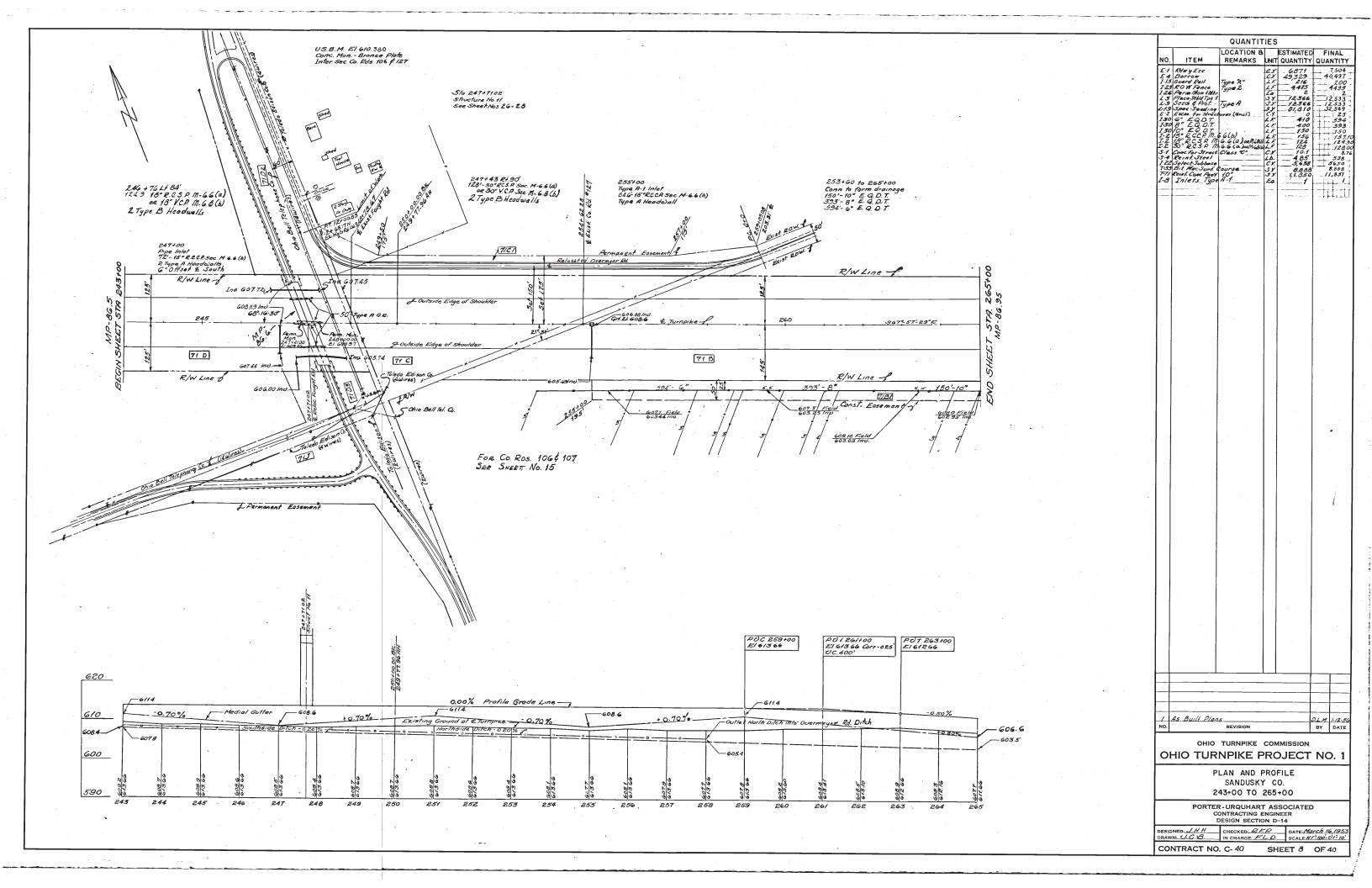
INDEX SHEET

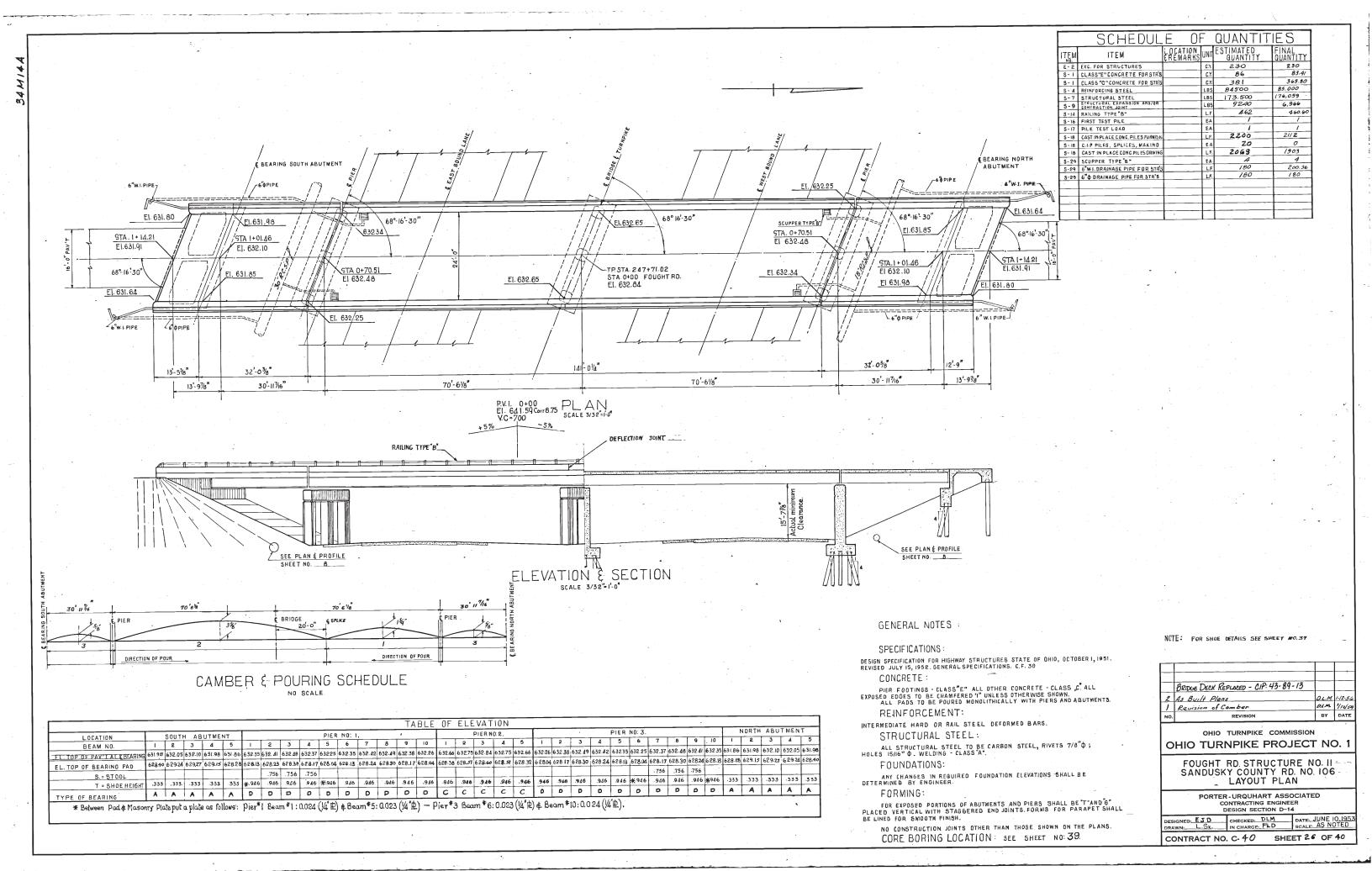
PORTER-URQUHART ASSOCIATED CONTRACTING ENGINEER DESIGN SECTION D-14

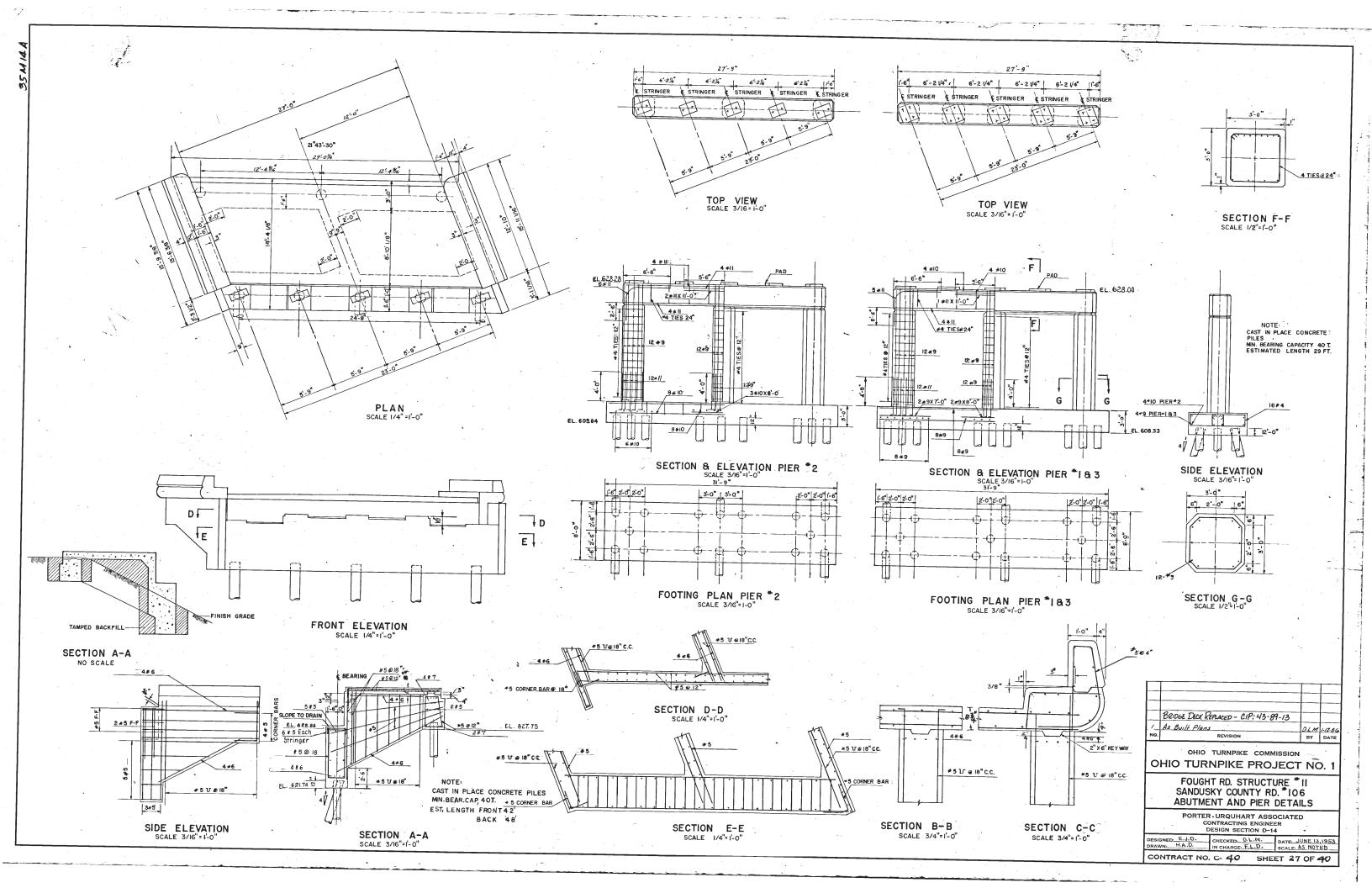
DESIGNED: J. C. B. CHECKED: R.F.P. DATE: 3-18-53

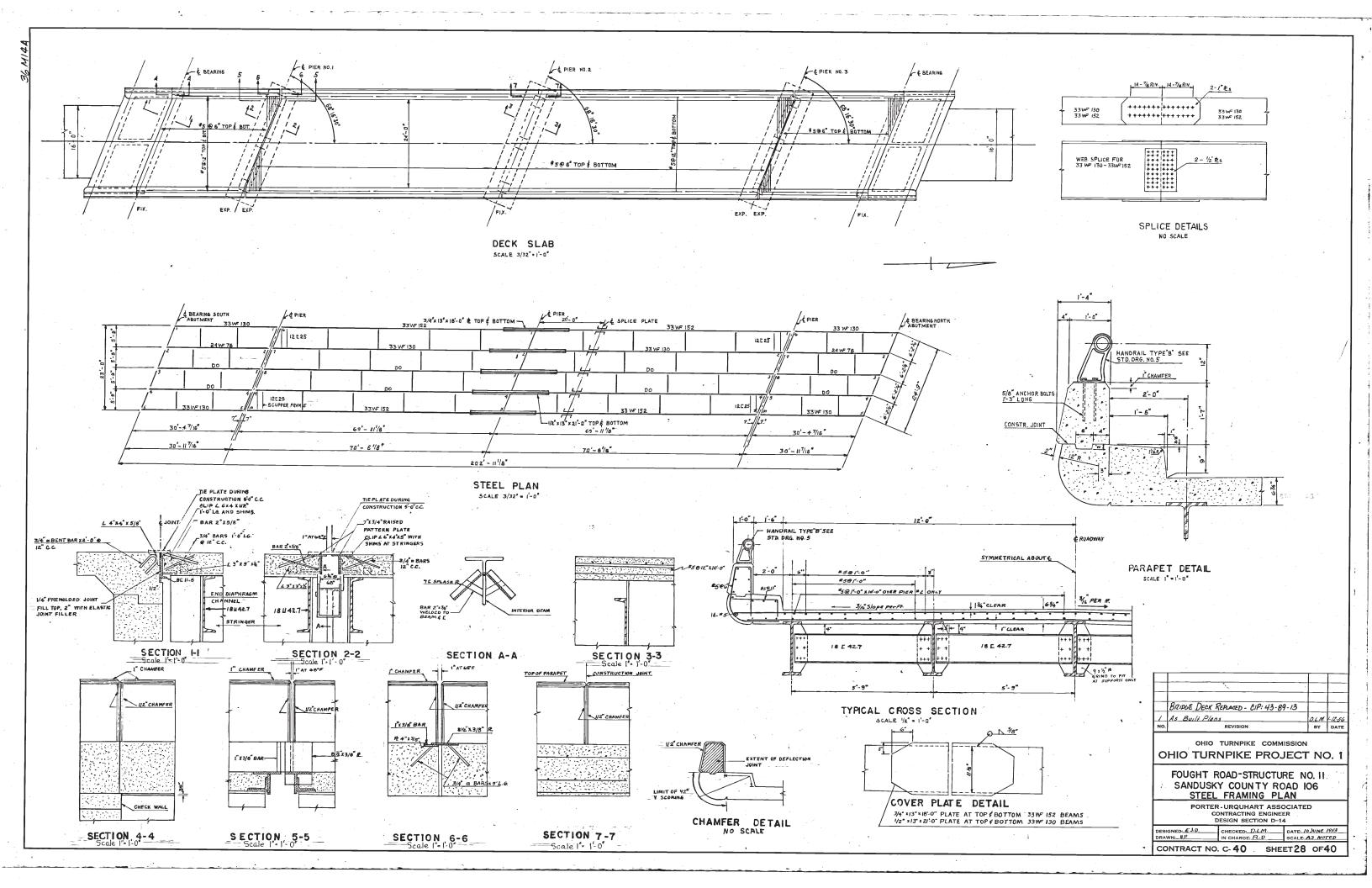
DRAWN: J. C. B. IN CHARGE: F. L. O. SCALE:

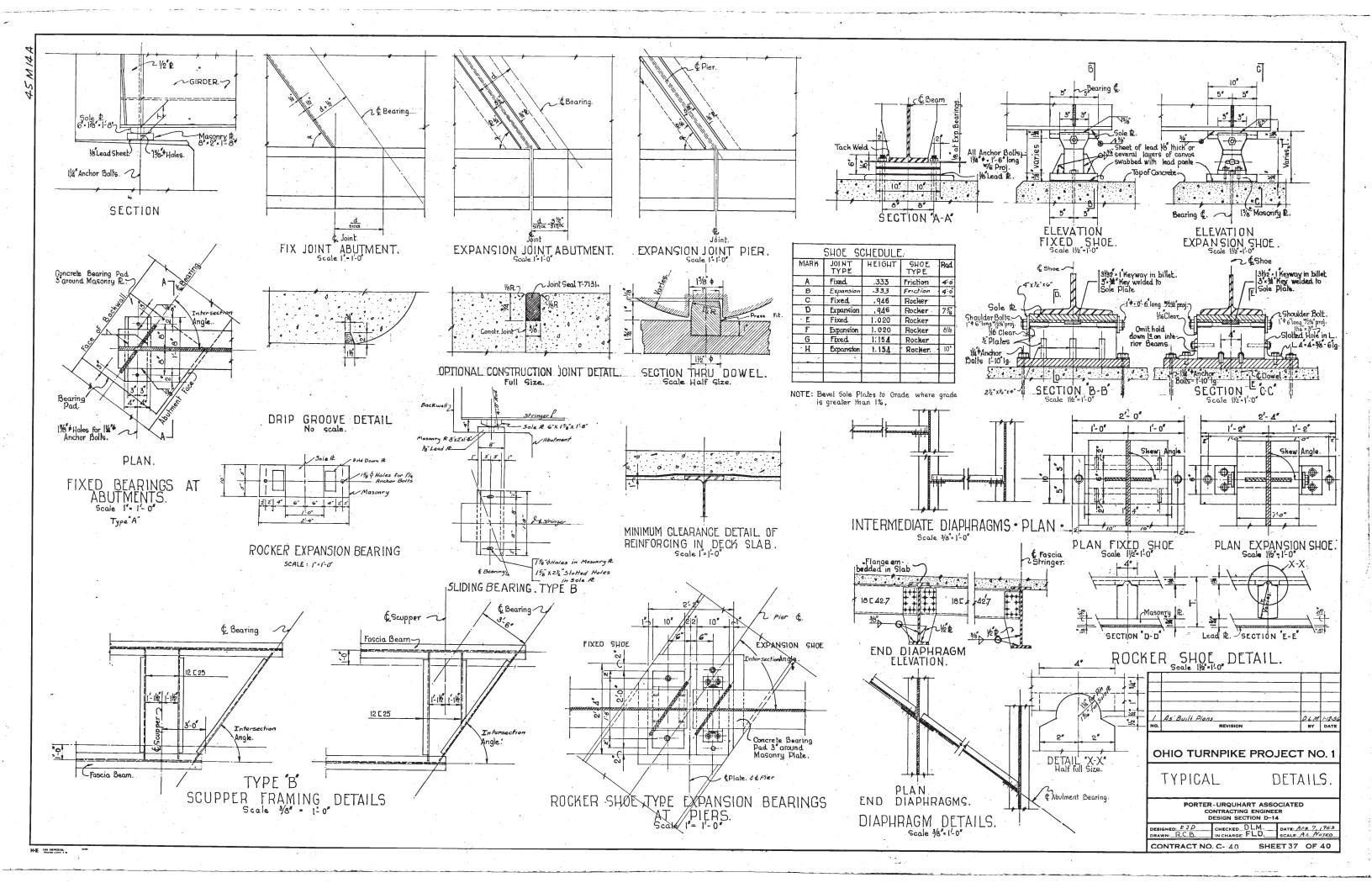
CONTRACT NO. C-40 SHEET 1 OF 40

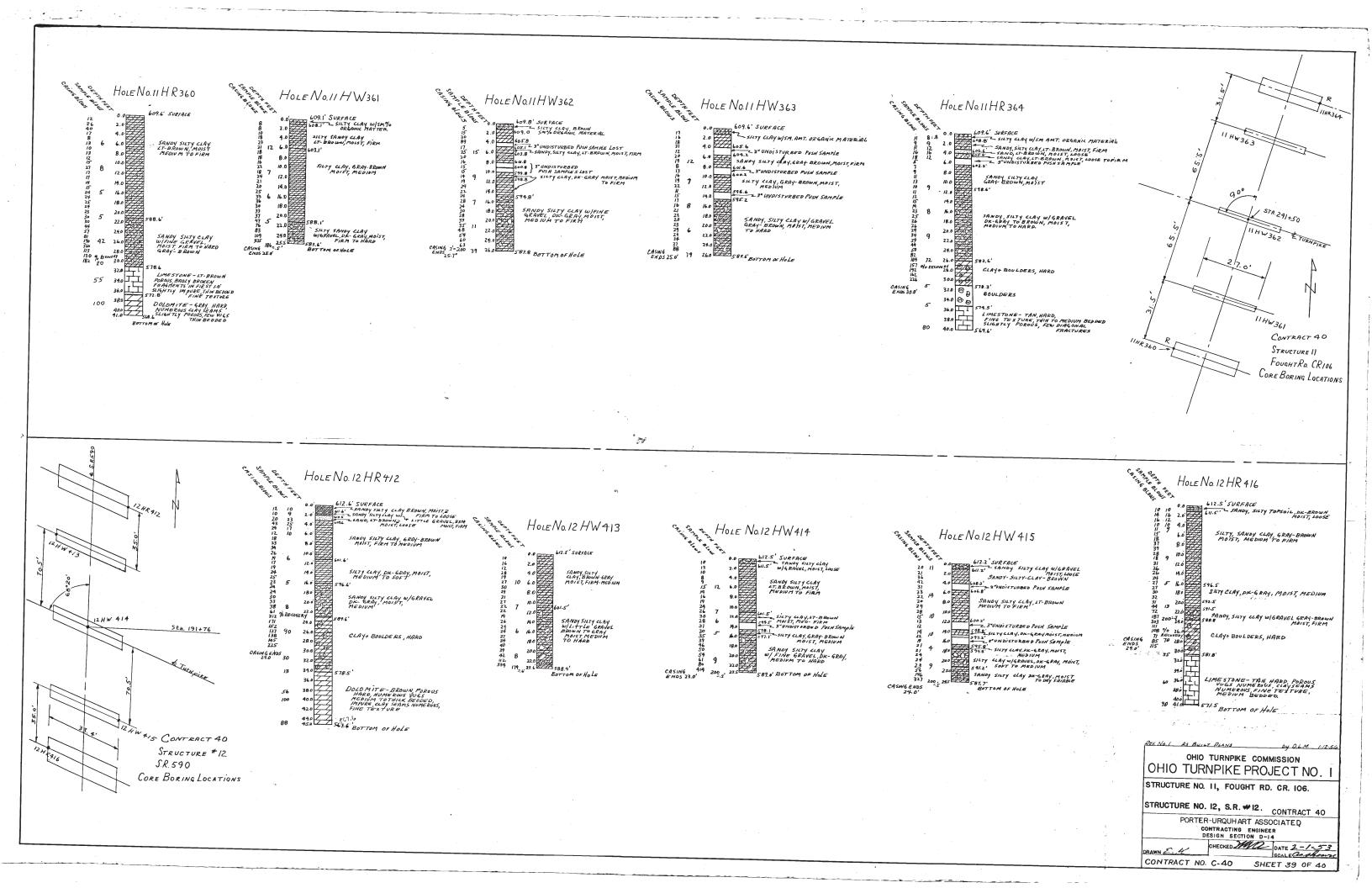










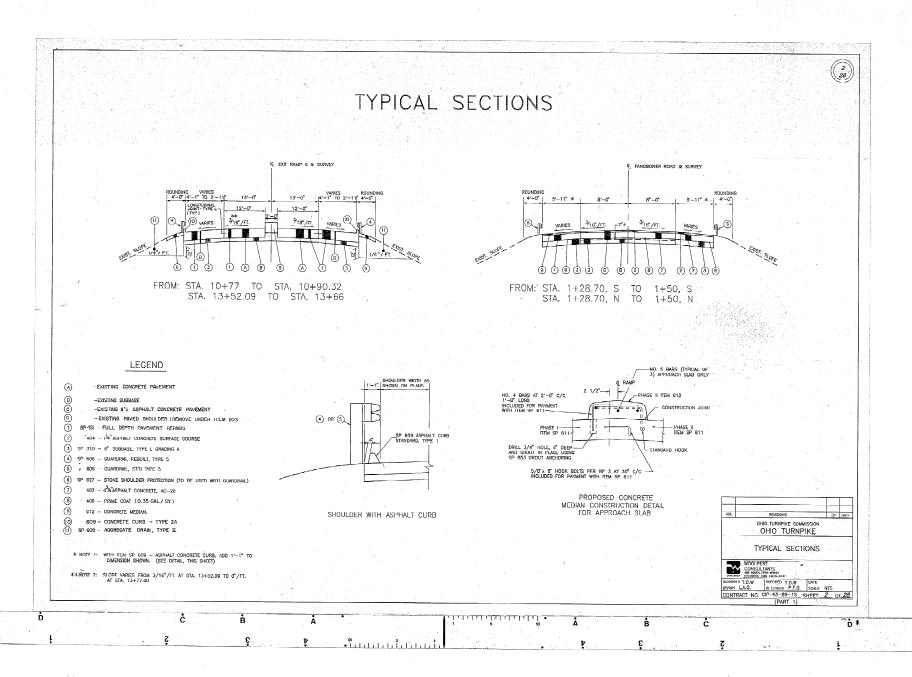


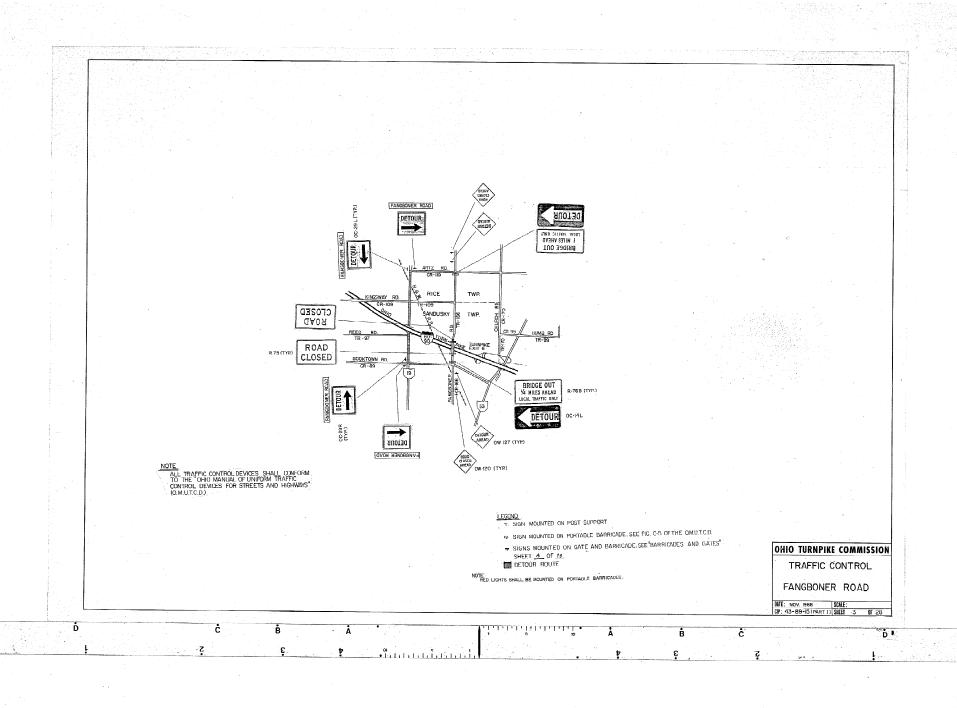


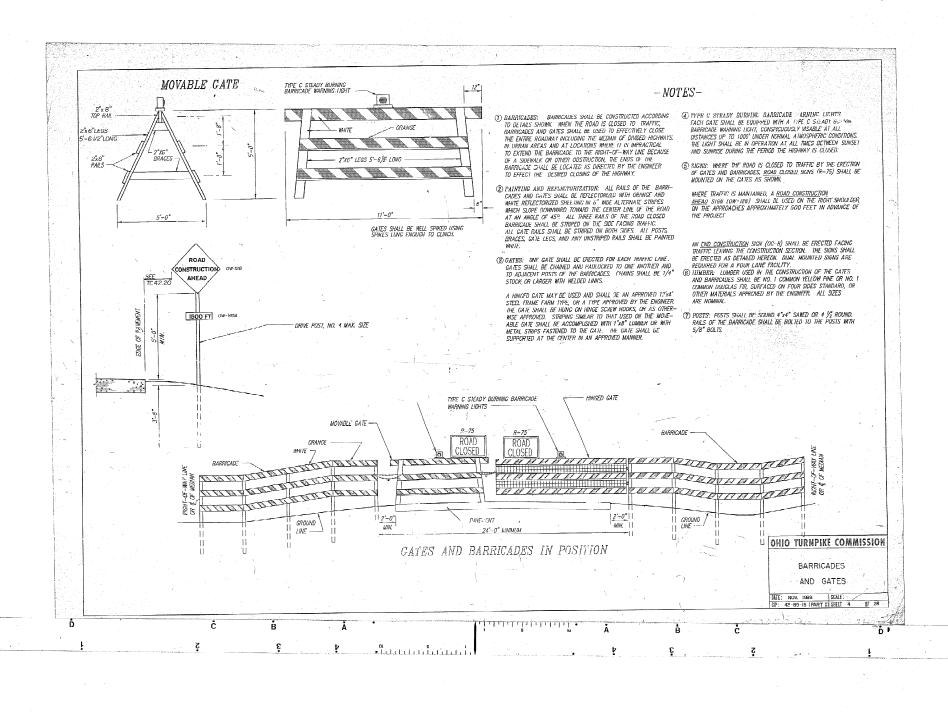
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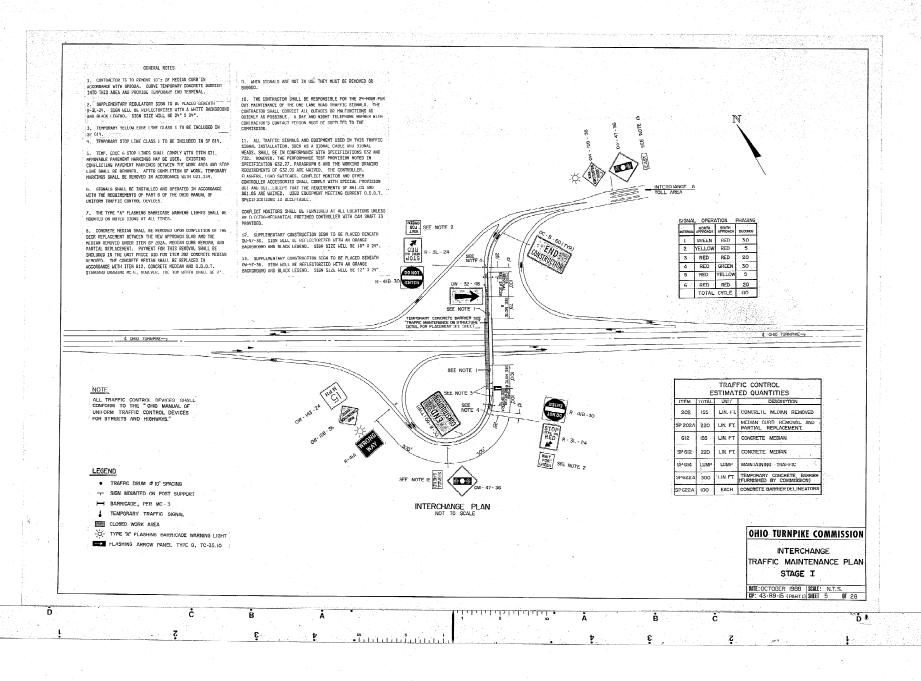
THE JAMES W. SHOCKNESSY OHIO TURNPIKE
CONTRACT CIP 43-89-15 (PART 1)
DECK REPLACEMENT
TURNPIKE STRUCTURES

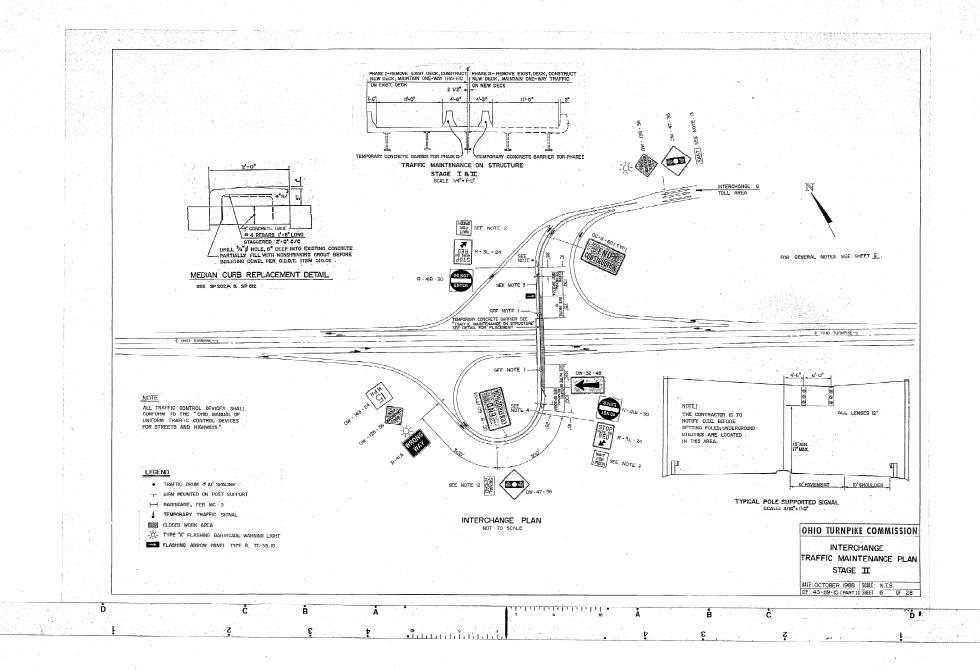
FANGBONER ROAD OVER THE OHIO TURNPIKE M.P. 91.1 EXIT 6 RAMP OVER THE OHIO TURNPIKE M.P. 91.6 SANDUSKY COUNTY ORIGINAL CONTRACT SECTION INDEX OF SHEETS C - 39TITLE SHEET TYPICAL SECTIONS TRAFFIC CONTROL GENERAL NOTES AND CONCRETE PATCHING DETAIL CENERAL SUMMARY \_ ROADWAY PLANS . RAMP 6 CROSS SECTIONS. 11 - 13ROADWAY DETAILS 14 - 18APPROVED FOR STRUCTURE GENERAL NOTES 19 DECK JOINT DETAILS \_ 20 FANGBONER ROAD GENERAL PLAN AND ELEVATION FANGBUNER 21 2-13-89 ESTIMATED QUANTITIES \_ 21 ABUTMENT DETAILS \_ 22 SUPERSTRUCTURE \_ REINFORCING STEEL LIST FREMONT FXIT RAMP 6 THIS CONTRACT IS COMBINED WITH CONTRACT CIP 43-89-15 PART 2 TO FORM A SINGLE GENERAL PLAN AND ELEVATION \_ 25 ESTIMATED QUANTITIES \_\_\_ 25 CONSTRUCTION CONTRACT. ABUTMENT DETAILS \_\_ 26 SUPERSTRUCTURE \_ 27 LOCATION MAP PLANS PREPARED BY: REINFORCING STEEL LIST 28 SCALE IN MILES MISCELLANEOUS DÉTAILS 28A CONSULTANTS CHAIN LINK SAFETY FENCE CL2 Portion to be improved CHAIN LINK SAFETY FENCE CL2A Other Roads **SCALES** UNDERGROUND LITILITIES 2 WORKING DAYS BEFORE YOU DIG CALL ..... 800-362-2764 (Toll Free) OHIO UTILITIES PROTECTION SERVICE SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS NON-MEMBERS 1-11-85 GR-1 12-6-76 GR-2B 10-1-87 GR-3 10-1-87 GR-4 MUST BE CALLED DIRECTLY Pierre F. O'Hare, P.E. 2-5-82 7-26-76 1-30-84 CB 3A M-REVISED TO AS BUILT W.E.B. 1-2-90 • لينايان لغَانِيلَ لينانيان 











## GENERAL NOTES

## 728

TAREA 3 (6 S.F.)

#### CONTINGENCY: QUANTITIES

THE CHARRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PARTIES SET IN OUR USED AN UNICED BY THE ENGNEETY OF A CONTROL OF THE CHARLEST OF THE CHARLEST OF THE CHARLEST OF DECEMBER SHALL BE MADE AM DELIMINATION SHALL BE MADE A MATER OF RECORD BY INCORPORATION INTO THE FINAL CHARGE ORDER OVERNING COMPLETION OF THE REPORT.

THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJECT AREA:

TELEPHONE GENERAL TELEPHONE COMPANY 117 NORTH SANDUSKY STRELI BELLEVUE, OHIO 44811 (419) 483-8134

ELECTRIC
OHIO EDISON COMPANY
237 WEST WASHINGTON ROAD
SANDUSKY, OHIO 44870
(419) 625-7420

FIBER OPTIC CABLE (ALSO SEE FOLLOWING NOTE)
LITEL TELECOMMUNICATIONS CORPORATION
640 TERMINAL TOWER
CLEVELAND, OHIO 44-113
JAYARAM BORNAH OFFICE (419) 884-0400
HOME
(419) 756-6773

#### CURBS ON APPROACH SLABS

STANDARD TYPE ZA CURRS SHALL BE PROVIDED ON BOTH SIDES OF ALL APPROACH SLARS. COST FOR ALL MALERALS, LADOR AND INCIDENTALS REQUIRED SHALL BE RECLUDED IN THE UNIT PRICE DID FOR ITEM SPOTI—CARS S COMPACTE, APPROACH SLAB. USING SHRIMMAGE CURRENT (1=0).

#### APPROACH PROFILES

AND READ TO PROVIDE A SMOOTH TRANSITION FROM THE LOCATING PARKENS TO THE NEW SERGES DEVEN, THE PROPERED THE PROVIDE THE PROVID

PAYMENT FOR THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM SP 623 — CONSTRUCTION LAYOUT SURVEY.

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE, THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC

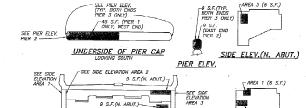
WHERE A CURB IS PROVIDED AT THE OUTER EDGE OF A PRIVED SHOULDER, ANY NECESSARY GLARDRAIL SHALL BE POSITIONED SO THAT THE FACE OF THE GUARDRAIL IS LOCATED FLUSH WITH THE FACE OF THE CURB AND THE TOP OF THE RAIL SHALL BE 27" ABOVE THE GUTTER LINE.

#### TEMPORAY FENGE

IF THE EXISTING FENCE THAT IS CONNECTED TO THE ABUTMENT IS REMOVED BY THE CONTEACTOR DURING CONSTRUCTION, IT SHALL BE REPHACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OHIO TURNPIKE GOMMISSION.

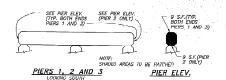
#### SEEDING AND MULCHING LIMITS

QUANTITIES FOR SEEDING ARE CALCULATED FOR PIPE CONSTRUCTION AND FOR THE SOIL AREAS BETWEEN 10" OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS SLCUKIONS, OR TO THE RIGHT—OF—WAY LINE, IF SUCH LINE IS LESS THAN 10" FROM THE WORK LIMITS.



NOTE: SHADED AREAS TO BE PATCHED ABUTMENTS FRONT ELEVATION SIDE ELEV.(N. ABUT.)

CONCRETE PATCHING DETAILS (EXIT RAMP 6 ONLY)



CONCRETE PATCHING DETAILS(FANGBONER ROAD ONLY)

NO.		_	
140.	REVISIONS	BY	DATE
	OHIO TURNPIKE COMMISSION		
	OHIO TURNPIKE		
G	ENERAL NOTES AND DE		S
l	EXIT RAMP 6 OVER TURNPIKE M.P. 9 WNCBONER ROAD OVER TURNPIKE M.P.	11.6	s
l	EXIT RAMP 6 OVER TURNPIKE M.P. 9	11.6	s
	EXIT RAMP 6 OVER TURNPIKE M.P. 9 ANGBONER ROAD OVER TURNPIKE M.P. WOOLPERT CONSULTANTS 400 SQUIR FIRST STREET COMMUNICATION AND COMMUNICATION COMMUNICATION AND COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMM	11.6	s
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## GENERAL SUMMARY



7-	1.5		OLUM .	T 110		-		01111000		T	
	_		SHEE	T NO.				QUANTITY	ITEM	UNIT	DESCRIPTION
5	9	10	11	12	14	15		1414	1.5		
	-			-		<u> </u>		LUMP	103.05	LUMP SUM	PREMIUM FOR PERFORMANCE BOND AND FOR PAYMENT BOND
185	4	-	1	<del> </del>	-	-		155	202	LIN. FT. EA.	CONCRETE MEDIAN REMOVED INLET REMOVED 8. PLUG PIPE
		86						86	202	SQ. YD.	PAVEMENT REMOVED
	1017	150	-	-	150	150	-	150	202	LIN. FT.	GUARDRAIL REMOVED FOR RE-USE
	1913			-	96	84	_	2093	202	LIN. FT.	GUARDRAIL REMOVED
220								220	SP 202 A	LIN, FT.	MEDIAN CURB REMOVAL AND PARTIAL REPLACEMENT
_	270	10	82	16				390 108	203	SQ. YD.	SUBGRADE COMPACTION
	_	-10	02	10	-			108	203	CU. YO.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
					11	9		20	SP 304	CU. YD,	AGGREGATE BASE
_	40	34	-	-		<u> </u>		74	SP 310	CU. YO.	SUBBASE, TYPE I, GRADING A
	19.8				4	4		28	402	CU. YD.	ASPHALT CONCRETE, AC 20
	4		-	-				4	404	CU. YD.	ASPHALT CONCRETE, SURFACE COURSE
	52		-	-			_	52	408	GAL.	PRIME COAT
	_	94		-	_			91	SP 451	SQ. YD.	FULL DEPTH PAVEMENT REPAIRS
		48		_				48	SP 451	LIN. FT.	JOINT REPLACEMENT, TYPE H
		48						48	SP 451	LIN. FL.	JOINT REPLACEMENT, TYPE K
	_	54			_	- 1		. 54	SP 451	LIN. FT.	JOINT REPLACEMENT, TYPE L
	2	2						4	601	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C W/O FILTER
	50	62						112	603	LIN. FT.	15" CONDUIT, TYPE B, 706.02
	104	140						244	603	LIN. FT.	15" CONDUIT, TYPE F, 707.01, EXCEPT GALVANIZED OR 707.05, TYPE C W/O PAVED INVERT
	4	4		_			_	- 8	SP 604	EA.	CATCH BASIN
		40						40	SP 605	LIN. FT	AGGREGATE DRAINS, TYPE II
	25	150			150	150	-	475	SP 606	LIN. FT.	CUARDRAIL REBUILT, TYPE S
	1825					- 100	_	1825	606	LIN. FT.	GUARDRAIL, TYPE 5
	4							4	606	EA.	ANCHOR ASSEMBLY, TYPE A
-	4	4			3	3		14	606	EA,	HRIDGE TERMINAL ASSEMBLY, STANDARD TYPE A
	452							452	SP 607	LIN. FT.	TEMPORARY FENCE(7'-0" CHAIN LINK W/SPECIALS INCLUDING HARBED WI
_	2	54						2 54	SP 607	LA. LIN, FT,	TEMPORARY GATE (14'-0") COMCRETE CURB, STANDARD TYPE 2A
	84	-		-		_		84	SP 609	UN. FT.	ASPHALT CONCRETE CURB, AC-20 STANDARD TYPE 1
	102	109.4						211.4	SP 611	SQ. YO.	CLASS S CONCRETE APPROACH SLAB, USING SHRINKAGE COMPENSATING CEMENT (T=10")
155								155			
220			_					220	612 SP 612	LIN, FT.	CONCRETE MEDIAN CONCRETE MEDIAN
UMP								LUMP	SP 614	LUMP SUM	MAINTAINING TRAFFIC
	-		_				-	LUMP	SP 619	LUMP SUM	FIELD OFFICE
					101	91		192	SP 619	LIN. FT.	TYPE D MODIFIED CONCRETE BARRIER
300 100					- 1			300	SP 622A	UN. FT.	TEMPORARY CONCRETE BARRIER (FURNISHED BY COMMISSION)
100								100 LUMP	SP 622A SP 623	LIN. FT. LUMP SUM	CONCRETE BARRIER DILINEATORS CONSTRUCTION LAYOUT SURVEY
_								LUMP	624	LUMP SUM	MOBILIZATION
	-			_						-	
$\dashv$		12				$\dashv$		12	SP 627	TON	STONE SHOULDER PROTECTION
=			154	178				312	659	SQ. YD.	SEEDING AND MULCHING
· . T			0.05	0.05				0.10	659	TON	COMMERCIAL FERTILIZER

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SHEET NO.										QUANTITY ITEM UNIT			DESCRIPTION			
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FOR EXIT RAMP 6 STRUCTURE QUANTITIES, SEE SHEET <u>25</u>

FOR FANGBONER ROAD STRUCTURE QUANTITIES, SEE SHEET <u>21</u>

NO. BEYGRIES BY DATE

OHIO TURNIFIC COMMISSION

OHIO TURNIFIC COMMISSION

OHIO TURNIFIC COMMISSION

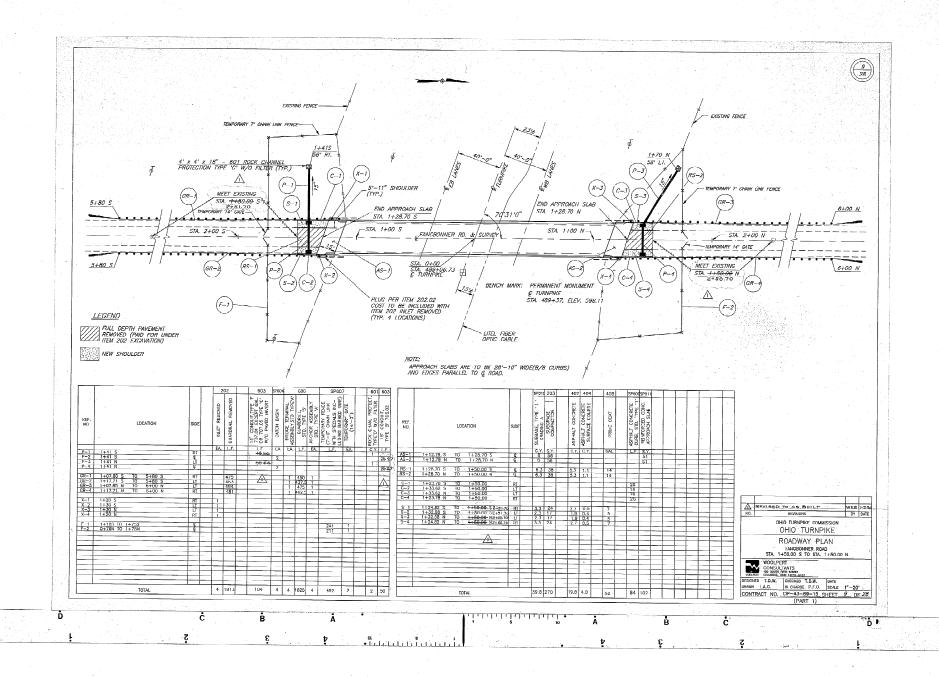
OHIO TURNIFIC MIT SHAPE

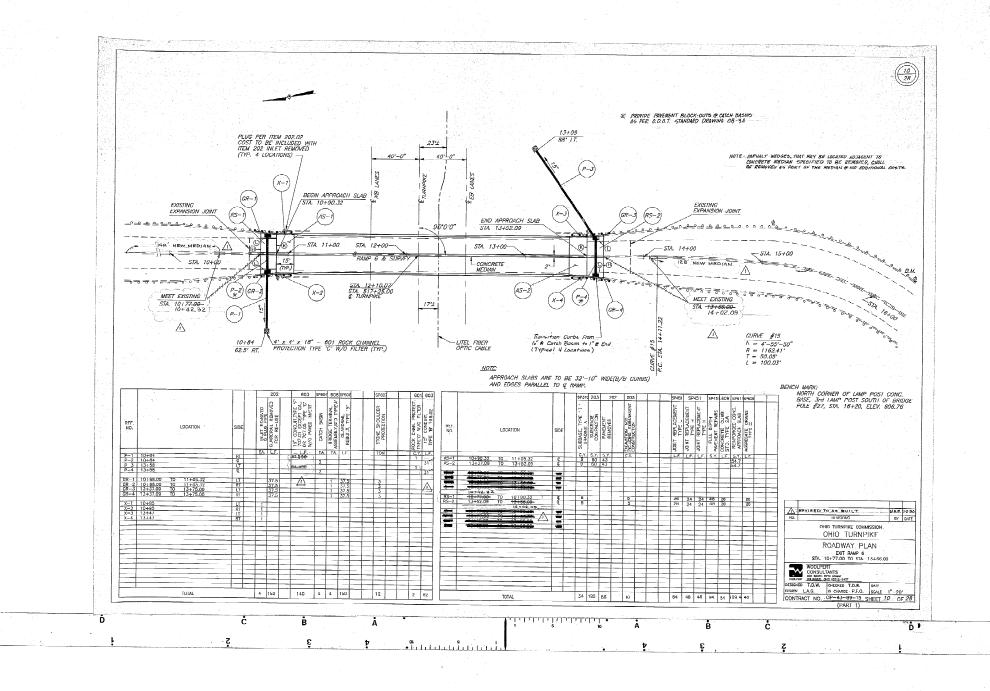
GENERAL SUMMARY

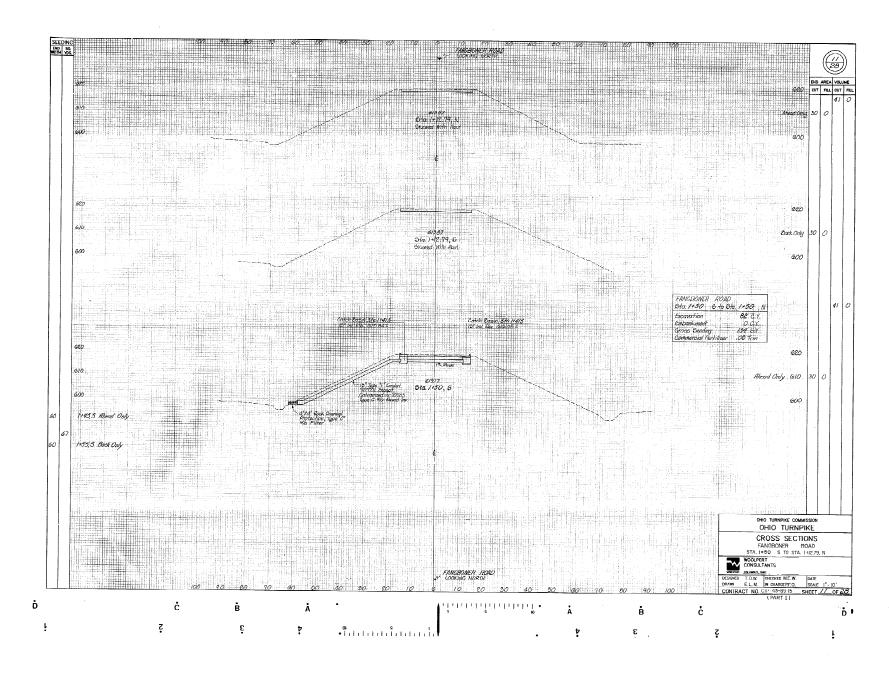
DOT RAMP 6 OVER TURNIFIC MIT SH.1

CONSULTATION

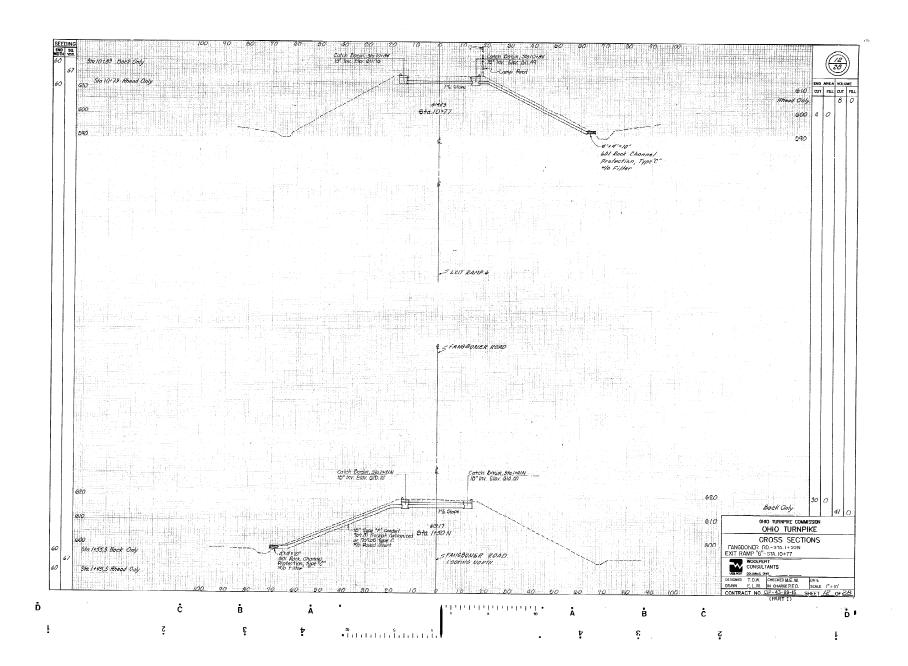
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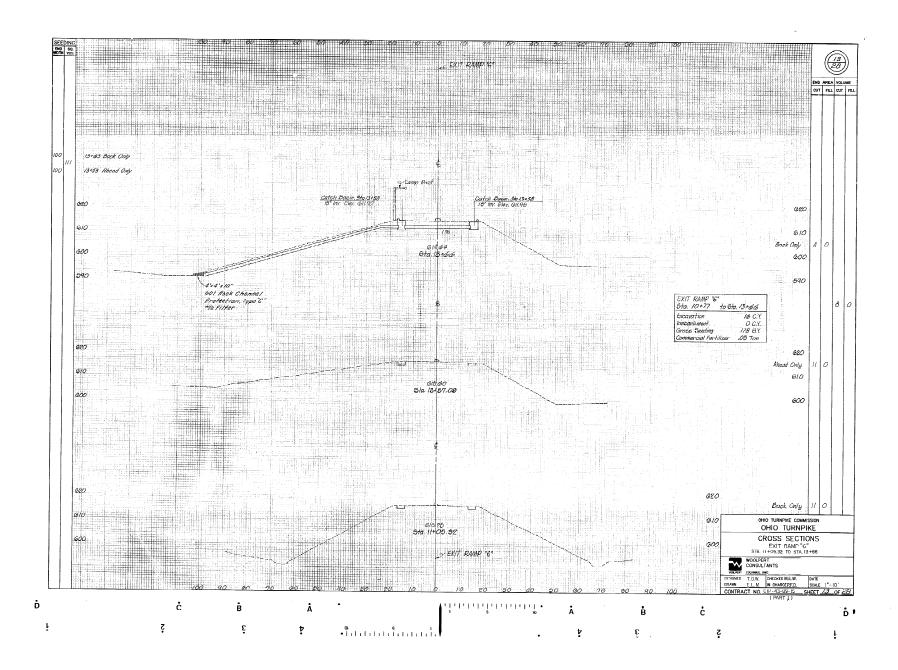


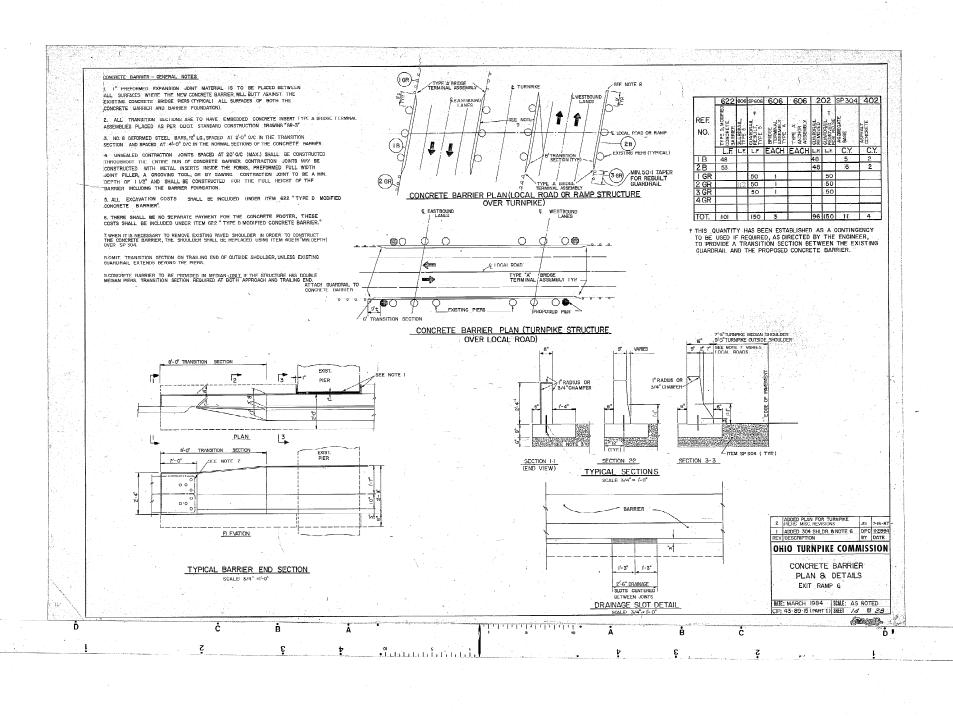


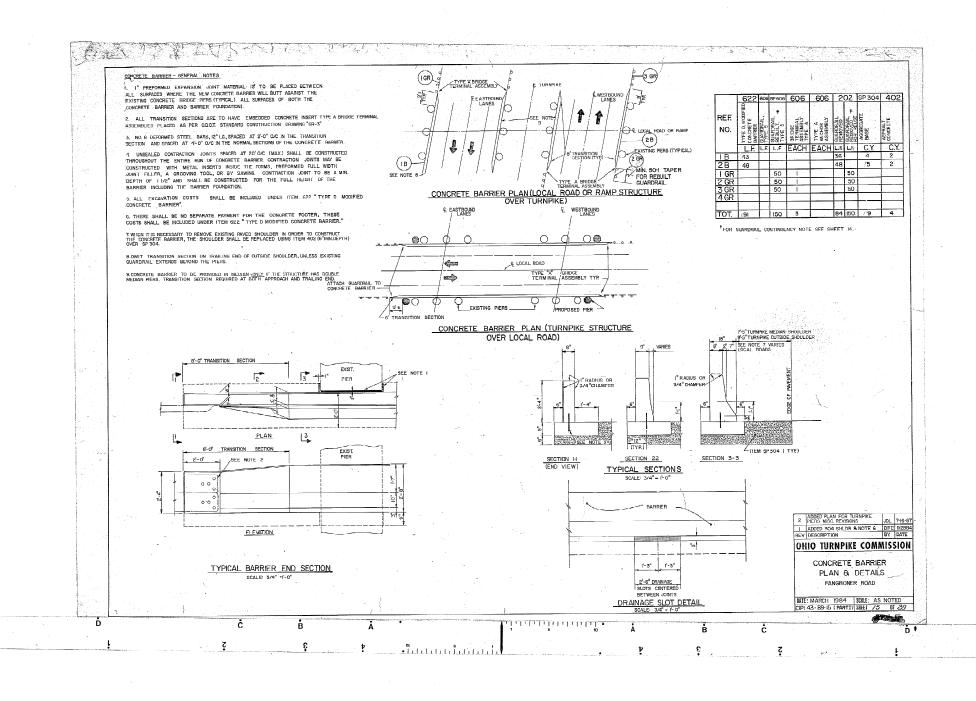
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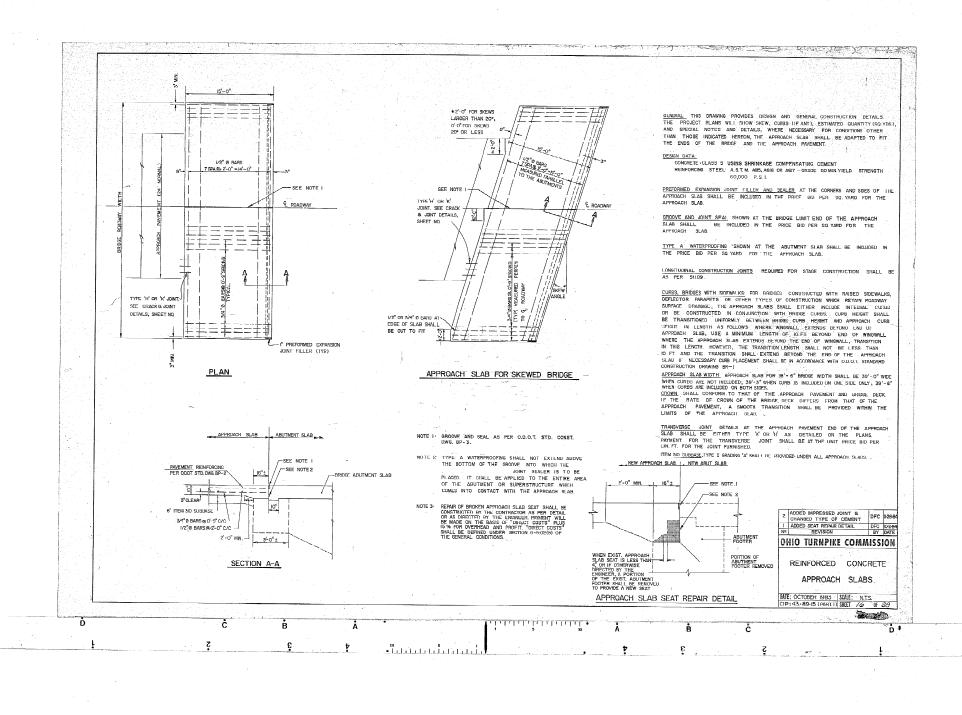


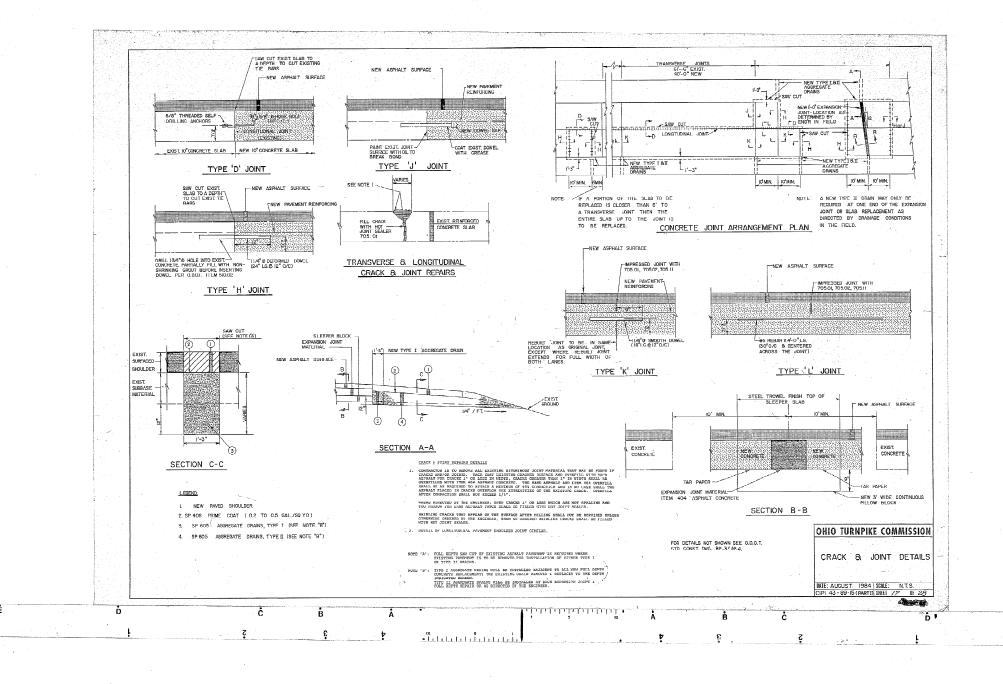
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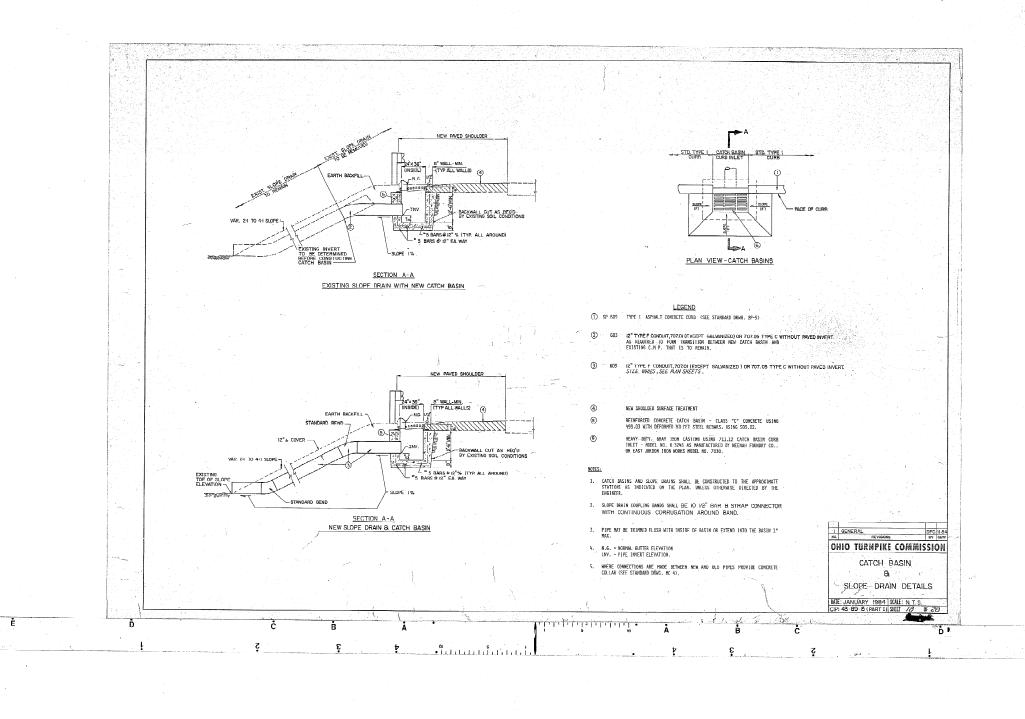












## STRUCTURE GENERAL NOTES

THE PROPOSED WORK FOR THESE STRUCTURES CONFORMS TO THE "STANDARD SPECIFICATIONS FOR HICKMY PRINCES" ADDITED BY THE AMERICAN ASSOCIATION OF STATE HICHMY AND THE AMERICAN ASSOCIATION OF STATE HICHMY AND THE OHIO "SUPPLEMENT TO THESE SPECIFICATIONS."

#### DESIGN DATA

DESIGN LOADING

-HS 20-44 (CASE II) AND THE ALTERNATE MILITARY LOADING. NO PROVISION FOR FUTURE WEARING SURFACE.

-- COMPRESSIVE STRENGTH 4500 P.S.I. FOR SUPERSTRUCTURE. ABUTMENT SLAB AND CONCRETE BARRIER.

CONCRETE CLASS C REINFORCING STEEL

-- COMPRESSIVE STRENGTH 4000 P.S.I. FOR SUBSTRUCTURE -ASTM A615, A616, OR A617 - GRADE 60, MINIMUM YIELD STRENGTH 60,000 P.S.I.

-ASTM A-7 UNIT STRESS 18 000 PS1

NEW STRUCTURAL

-ASTM A-36 UNIT STRESS 20,000 P.S.I.

DECK PROTECTIVE METHOD

EPOXY COATED REINFORCING STEEL FOR BOTH TOP AND BOTTOM MATS AND CONCRETE WEATHERPROOFING ON TOP SURFACE.

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1/2" THICK,

REFERENCES

REFERENCE SHALL BE MADE TO THE FOLLOWING OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS.

DATED 5-29-79

#### EXISTING STRUCTURE VERIFICATIONS

DETAILS AND DIMENSIONS SHOWN ON PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE FAISTING STRUCTURE, AND JOR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE PROPOSED WORK BUT THEY SHALL OF CONDIDENSURE OF THE PROPOSED WORK BUT THEY SHALL OF CONDIDENSURE AND THE PROPOSED WORK BUT THEY SHALL OF CONDIDENSURE OF THE PROPOSED WORK BUT THEY SHALL OF CONDIDENSURE OF THE PROPOSED WORK BUT THEY SHALL OF CONDIDENSURE OF THE PROPOSED WORK BUT THEY SHALL OF THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THEY SHALL OF THE PROPOSED WORK BUT THEY SHALL OF THE PR

CONTRACT 9ID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCRITANTIES OF DESCRIBED ABOVE, AND MYPON A PRE-BID EXAMINATION OF THE EXESTING STRUCTURE BY DESCRIBED ABOVE, AND MYPON A PRE-BID EXAMINATION OF THE EXESTING STRUCTURE BY AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD. ANY ADDITIONAL COST RESULTING FROM MARKATIONS FROM PLAN DIMENSIONS IS THE RESPANSIONAL OF THE STRUCTURE OF THE CONTRACTOR ADDITIONAL PRIMERY OF THE CONTRACTOR ADDITIONAL PRIMERY WILL BE AWARDED

NO SEPERATE PAYMENT WILL BE MADE FOR ANY FIELD MEASUREMENTS BUT COST THEREOF SHALL BE INCLUDED IN THE COST OF THE OTHER TIEMS OF WORK.

THE EXISTING STRUCTURE PLANS MAY BE EXAMINED AT THE OHIO TURNPIKE COMMISSION'S OFFICE LOCATED AT 682 PROSPECT STREET, BEREA, OHIO 44017.

### DEMOLITION OF PORTIONS OF EXISTING STRUCTURES

REMOVAL OF PORTIONS OF EXISTING STRUCTURES AS SHOWN ON THE CONTRACT DRAWNINGS SHALL CONFORM IN ALL RESPECTS TO ITEM 202 OF THE STATE OF OHIO DEPARTMENT OF TRANSFORMATION CONSTRUCTION AND MATERIALS SPECIFICATIONS AND SPICIAL SP 202.

#### TFM 510 - DOWLL HOLES, USING SP 853 GROUT ANCHORING

THIS ITEM SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER AND SHALL BE USED TO REPLACE DETERIORATED BARS WHICH ARE TO REMAIN, PROJECTING FROM PORTIONS OF EXISTING CONCRETE AND TO THE NEW CONSTRUCTION TO EXISTING CONSTRUCTION.

THIS ITEM SHALL CONFORM IN ALL RESPECTS TO ITEM 510 OF THE SPECIFICATIONS EXCEPT THAT A NONSHRINK LPDAY MORTAR SHALL BE USED IN LIFE OF A CEMENT GROUT OR A HICH CREMENT GROTTOR OF SPECIAL PROVISIONS SPIRSS AND 59 956.

### CUTTING OR BENDING OF REINFORCING BARS

ANY CUTTING OR BENDING OF REINFORCING BARS NECESSARY TO ACCOMODATE ANY ESSENTIAL ELEMENT OF WORK RELATED TO THE PROJECT, SHALL BE INCLUDED IN THE PRICE BID PER POUND FOR ITEM 509 — REINFORCING STEEL-GRADE 50 AND/OR ITEM SP 524 — EPOXY COATED REINFORCING STEEL, GRADE 60, OR OTHERWISE NOTICE

#### REPLACEMENT OF EXISTING REINFORCING STEEL

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ANY EXISTING REINFORCING BIRS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MADE UNUSABLE BY THE CONTRACTOR'S CONCRETE RELIDIAL OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR. ANY EXISTING REINFORCING BIRS DEEMED BY THE FRIGHER TO BE UNUSABLE BECAUSE OF CORROSION, SHALL BE REPLACED WITH HE WE STEEL. A THE WARMENT FOR SUCH IN MY CONTRACT UNIT FROM BUT HE FOUND OF TEM SHEEL AND THE CONTRACT UNIT FROM BUT HE FOUND OF TEM SHEEL AND THE CONTRACT UNIT FROM BUT HE FOUND OF TEM SHEEL AND THE CONTRACT UNIT FROM BUT HOUSE TO STRENGISHED AND PLACES OF THE CONTRACT UNIT FROM BUT HOUSE TO STRENGISHED AND PLACES OF THE CONTRACT UNIT FROM BUT HOUSE TO STRENGISHED AND PLACES OF THE CONTRACT UNIT SHEEL BE DONE AT THE CONTRACTOR'S CONTRACT UNIT SHEEL BE DONE AT THE CONTRACTOR'S SHALL BE DONE TO SH

#### EPOXY COATED REINFORGING STEEL SUPPORT

IN ACCISIONER WITH THE EXAMINATION OF SEC. 824 AND 509.09, THE TOP AND BOTTOM MATS OF ALL CHAPITOMAN OF TOWNS AND SEC. 825 AND 509.00 THE HER TOWNS AND THE LIBER 
#### CONCRETE INSERT ASSEMBLIES

THE CONCRETE INSERT ASSEMBLIES, AS SHOWN ON STANDARD CONSTRUCTION DRAWINGS GR-1 AND GR-3, SHALL BE PROVIDED AT ALL WINGWALL TERMINALS FOR ATTACHMENT OF GUARD—RAIL TERMINAL CONNECTORS, INCLUSE WITH ITEM SP 1514 FOR PAYMENT.

#### REMOVAL OF SCUPPER DRAIN PIPE

THE CONTRACTOR SHALL REMOVE EXPOSED EXISTING SCUPPER DRAIN PIPES AND PLUC PORTION TO REMAIN AS PER DETAIL PAYMENT FOR THIS WORK WILL BE INCLUDED IN ITEM SP 202.

## THE CONCRETE WEATHERPROOFING SHALL BE APPLIED TO THE FOLLOWING EXPOSED CONCRETE SURFACES OF THE BRIDGE:

- ALL SIDES OF PARAPETS ON ABUTMENTS AND SUPERSTRUCTURE.
  LUDUS AND UNDERSIDE OF DECK OUTSIDE OF DETERIOR FASCIA BEAMS.
  CONCRETE BRODE DECK WEARING SURFACE ON ABUTMENTS, SUPERSTRUCTURE, AND
  APPROART SLABS, INCLUDING EXPOSED KEDIUM SURFACES (FAMP 6 OMLY).
  WHY EXPOSED CONCRETE SURFACES OF ALL ABUTMENTS AND PIERS.
  SCALING STALL NOT BE DONE UNTIL ANY CONCRETE PATCHING REPAIRS HAVE DEEN
  COMPLETED AND OUTED.

THE WORK SHALL BE PERFORMED PER ITEM SP 536 - CONCRETE WEATHERPROOFING,

THE CONTRACTOR SHALL PROVIDE AND PLACE BACKFILL BETWEEN EXISTING WINGWALLS AS REQUIRED TO BRING THE FILL TO THE LEVEL OF THE PROPOSSIS STAR PRIOR TO PLICING THE NEW DECK STAB. INCLUDE WITH HEM 503 — ABUTMENT BACKFILL, AS PER 503.10 FOR PAYMENT.

EPOXY BONDING COMPOUND (SP 526) SHALL BE PLACED ON THE SURFACE AREAS OF EXISTING CONCRETE WHICH WILL BE IN CONTACT WITH MEN CONCRETE. PRICE INCLUDED IN THE CONTRACT BID PRICE FOR THE EPERTINENT CONCRETE ITEMS.

#### ABUTMENT SLAB AND DECK SLAB POURING SEQUENCE (FOR EACH PHASE)

THE ABUTMENT SLAB AND THE DECK SLAB MAY RF POLITED AT THE SAME TIME. HOWEVER, UPON THE COMPLETION OF THESE POURS AND PROR TO POURING THE CONCRUIL APPROVAGE SLABS, THE CHORNELS WILL PROVIDE THE CONTRACTOR WITH FIRST GRADE SIZECURED I O PROVIDE A SMOOTH TRANSITION FROM THE EXISTING ROADWAY TO THE CONCRETE ABUTMENT AND DECK SLAD.

### REPLACEMENT OF BEARING DEVICES

AFTER DECK REMOVAL AND PRIOR TO REPLACEMENT OF NEW DECK FORMWORK AND REINFORCING SIEEL, THE BEARING DEVICE WORK SHALL BE PERFORMED AS FOLLOWS:

- EXIT RAMP 6 OVER TURNPIKE M.P. 91.6; ITEM 516, LAMINATED FLASTOMERIC BEARINGS, COMPLETE, AS PER PLAN.
- FANGBONER ROAD OVER TURNPIKE M.P. 91.1; ITEM 518, LAMINATED ELASTOMERIC BEARINGS, COMPILIE, AS PER PLAN.

I'LL CINTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF AN ACCOUNT SUPPORT AND JACKING SYSTEM CAPABLE OF RAISME THE STRUCTURE TO INSTALL AND ACCOUNT OF THE STRUCTURE TO INSTALL SHOWN THE STRUCTURE TO INSTALL SUPPORTS SO AS NOT TO DAMAGE OR BOLDCY OVERSTRESS. SHOWN THE STRUCTURE SHALL NOT BE RIVISED MORE THAN INDUSTRIES.

THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED TEMPORARY SUPPORT AND JACKING SYSTEMS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE SUBMITTAL SHALL INDICATE MAREFERS, MEMBER SUSSES, SPACING, SUPPORT LICATIONS, JACKING POINTS, REACTIONS, AND REMOVAL PROCEDURES, WELDING SHALL BE REMOVED BY THE AIR—ARC BEOFFEE.

PAYMENT FOR ALL LABOR, MATERIAL, AND EQUIPMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE RID FOR TEM 202 — REMOVAL OF EXISTING BEARING DEVICES AS PER PLAN FOR EACH BRODGE. PAYMENT FOR THE INSTALLATION OF NEW BEARING DEVICES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH PERTINENT ITEM.

#### BEARING REPLACEMENT RESTRICTIONS

BERKEIN, INTLIGUISHEN, INCLINIONAL AND ADMINISTRATION OF THE DAY OF THE STATE OF TH

#### TRIM ENDS OF STRUCTURAL STEEL MEMBERS AT ABUTMENTS AND PIERS

THE QUANTITY OF WORK DONE UNDER THIS ITEM MILL BE DETERMINED BY THE ENGINEER AFTER THE REMOVAL OF THE LYCSING CONCRETE BRODGE DECK SLAB, WITH THE PRIOR APPROVAL OF THE ENGINEER DECKNOON OF THE ENGINEER CONCRETION OF THE EXISTING STEEL PROPERTIES. THE CONTRACTOR SHALL REMOVE THE SELECT DECKNOON OF THE EXISTING STEEL TO PROVIDE A 2° GAP 0 GF 7, AS SYON OF SIELT PROPERTIES. THE CONTRACTOR SHALL REMOVE THE ENGINE STEEL TO PROVIDE A 2° GAP 0 GF 7, AS SYON OF SIELT PROPERTIES. THE CONTRACTOR SHALL REMOVE THE DISCINING STEEL TO PROVIDE A 2° GAP 0 GF 7, AS SYON OF SIELT PROPERTIES. THE CONTRACTOR SHALL REMOVE THE DISCINING STEEL TO PROVIDE A 2° GAP 0 GF 7, AS SYON OF SIELT PROPERTIES. THE CONTRACTOR SHALL REMOVE THE BRANS TO PRIOR ON IN PLACE WILL ES GROUND WOUND. HE PRICE BID FOR EACH TIME SHALL REMOVE THE STRUCTURAL STEEL MEMBERS, AS PER PLAN, SHALL NOCLUDE ALL HEART, TOOLS, COUPHARD, AND MAINTAIN THE OFF PROMITTIES.

#### DECK SLAB CONSTRUCTION

DECK SLABS AND 10 ASSURE THE PROPER LOCATION OF THE TREE PROPERS SHABS.

HE COMMINIOR SHALL GETAIN THE ELEVATION OF THE TOP OF THE STEEL SPANS AFTER THE COMPLETE REMOVAL OF THE EXSTING BECK SLAB AT THE LOCATIONS SHORN IN THE TABLE ON SHITS. 23 AND 27 FOR THE HANAL APPRIENT ELEVATIONS, AND COMPUTE THE DECK THICKNESS OVER THE BRANS. IF THE COMPUTED BECK THICKNESS IS FOUND TO BE LESS THAN THE MIMMINIM PRICKIESS REQUIRED, THE COPY OF FINAL PRICKIESS IS FOUND TO BE LESS THAN THE MIMMINIM PRICKIESS FOR THE BRANS. IS THE COMPUTED BY THE STAND THE

#### SPLASH\_CHANNEL\_REMOVAL

ANY EXISTING SPLUGH CHANNEL ASSEMBLES LOCATED AT PIERS 1 AND 3 SHALL BE REMOVED. WHERE CUTTING IS REQUIRED TO REMOVE THE ABOVE CUT AS CLOSELY TO THE STRUCTURAL SHAPE AS PESSIBLE WITHOUT DAMARING IT. GINED ALL SHAPE EDGS NOW PREPARE SUBFACE PIER TILL SP 514. PROSIDENCE OF ALL WORK RELATED TO REMOVAL OF EXISTING SPLUSH CHANNELS SHALL BE INCLUDED IN THE LUMP SAM PRICE BD FOR THE 202 — PORTIONS OF STRUCTURE REMOVED.

## STAGED CONSTRUCTION - RAMP 6 OVER TURNPIKE

ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. SUPERSTRUCTURE AND ABUTHENT SLABS SHALL BE CONSTRUCTED IN STANDEDS. FOR DETAILS REQUIRED TO ACCOMMODATE THE STANDED CONSTRUCTION. SHALL BE CONSTRUCTION STANDED CONSTRUCTION STANDED CONSTRUCTION STANDED CONSTRUCTION STANDED UNDER ROADWAY THE STANDED CONSTRUCTION STAND UNDER ROADWAY THE SP STANDED CONSTRUCTION STANDED UNDER ROADWAY THE SP STANDED CONSTRUCTION STANDED UNDER ROADWAY THE SP STANDED CONSTRUCTION STANDED

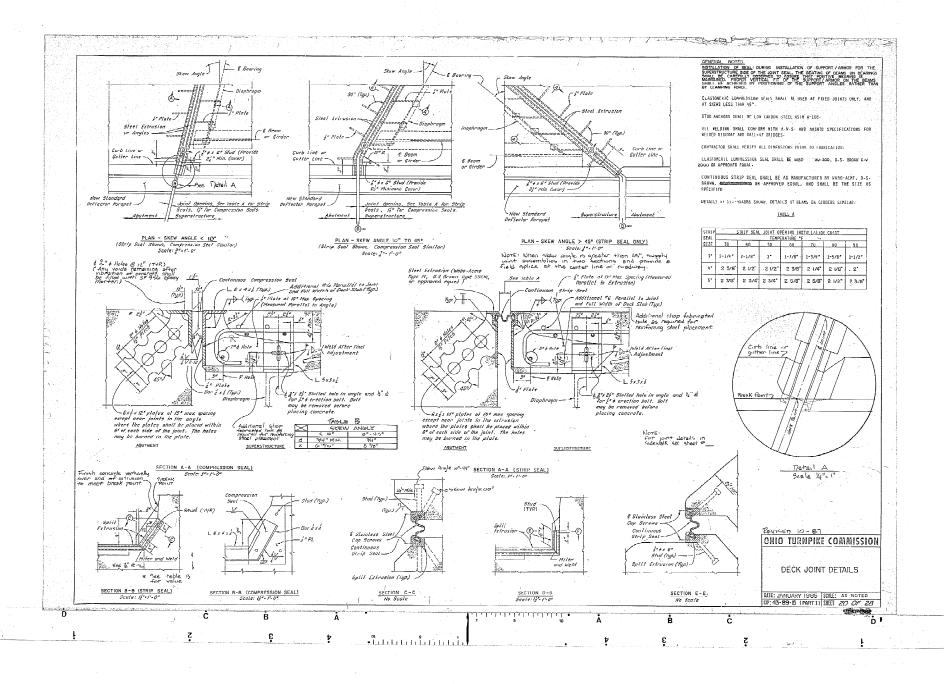


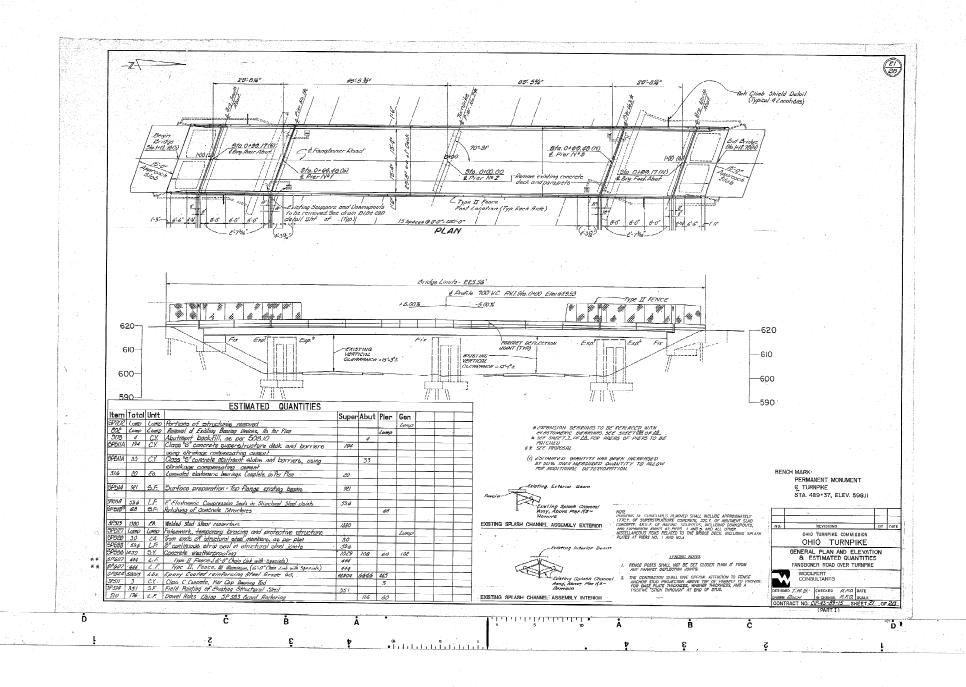
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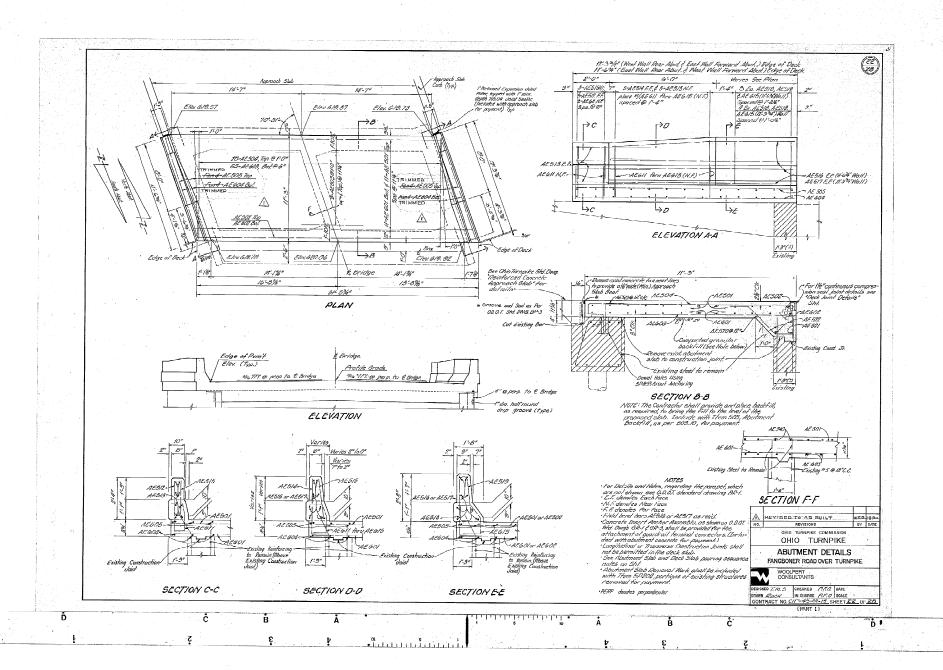
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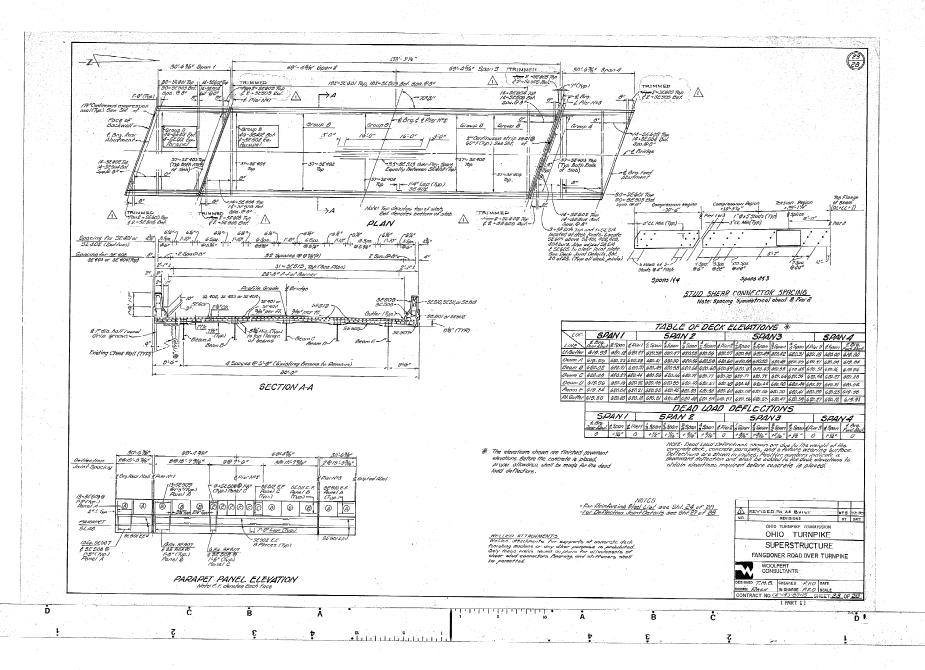
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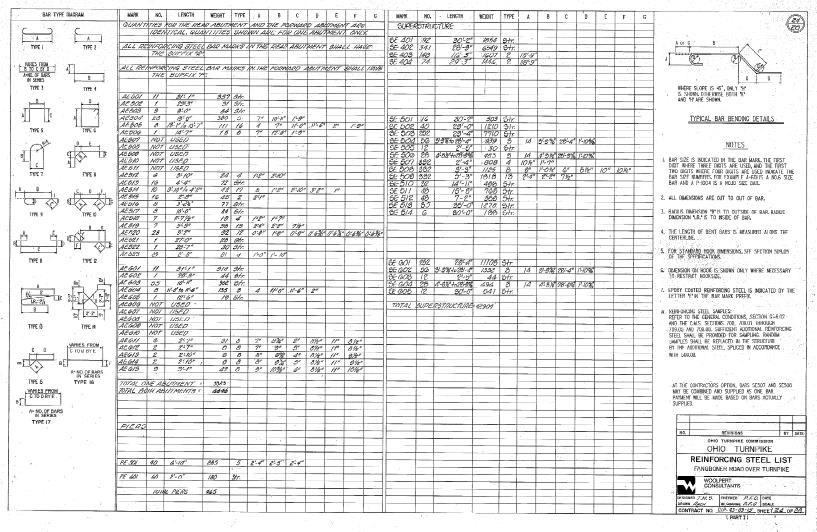
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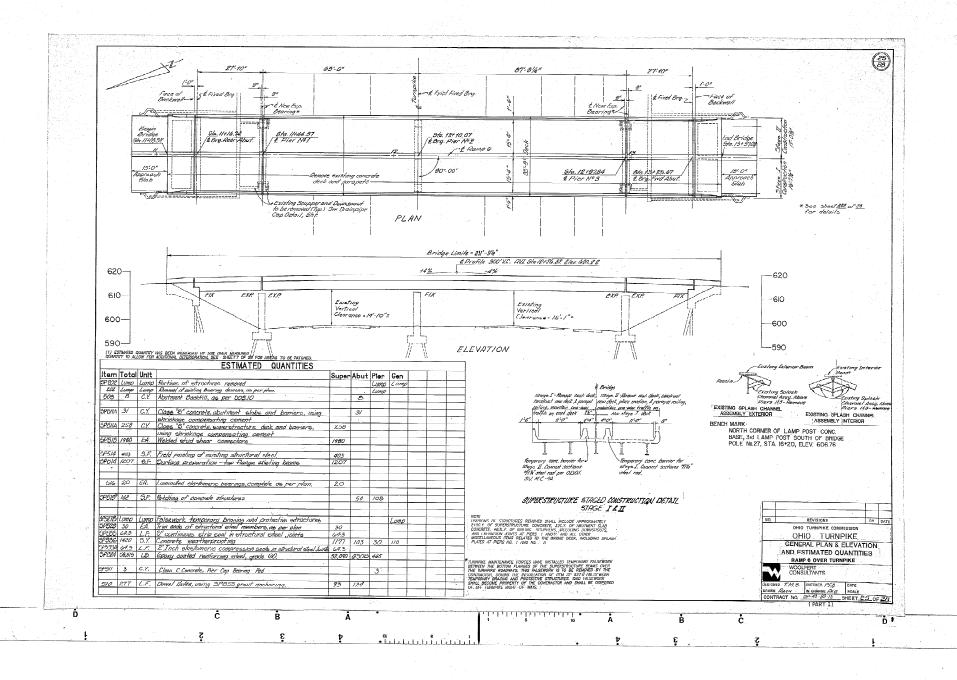
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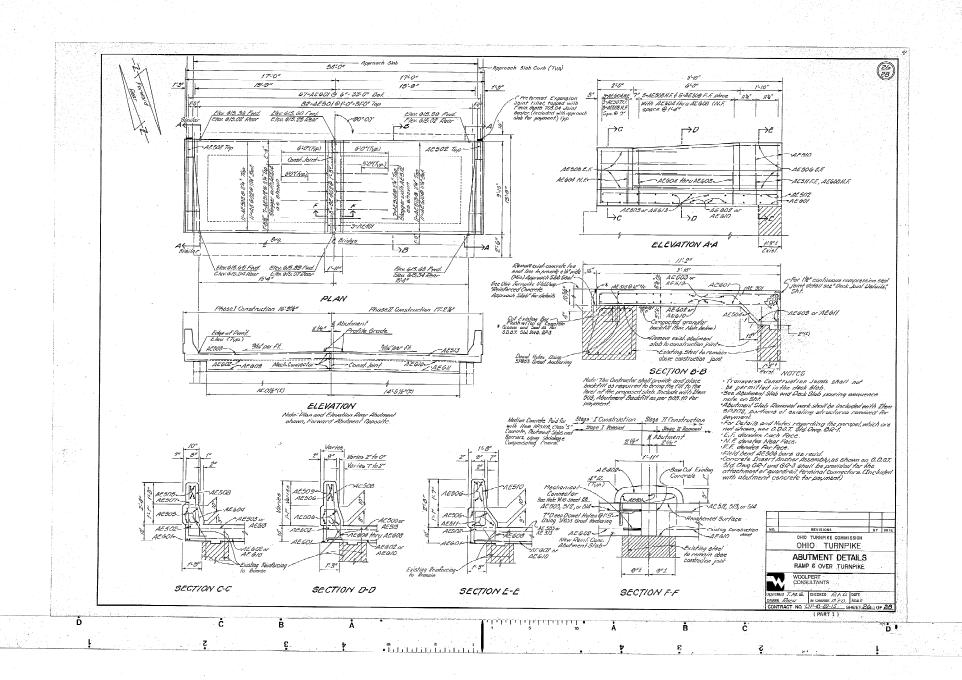
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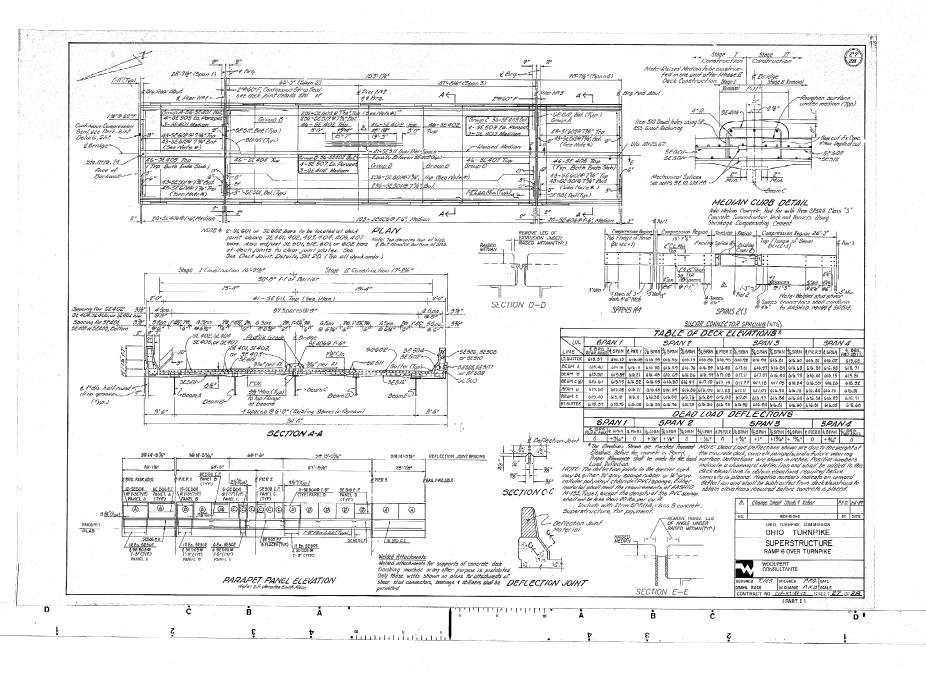
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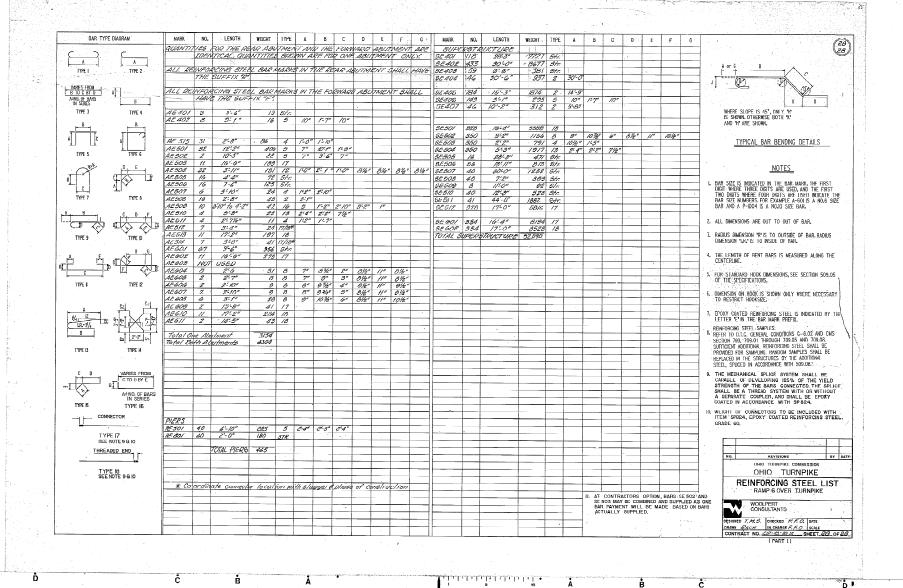
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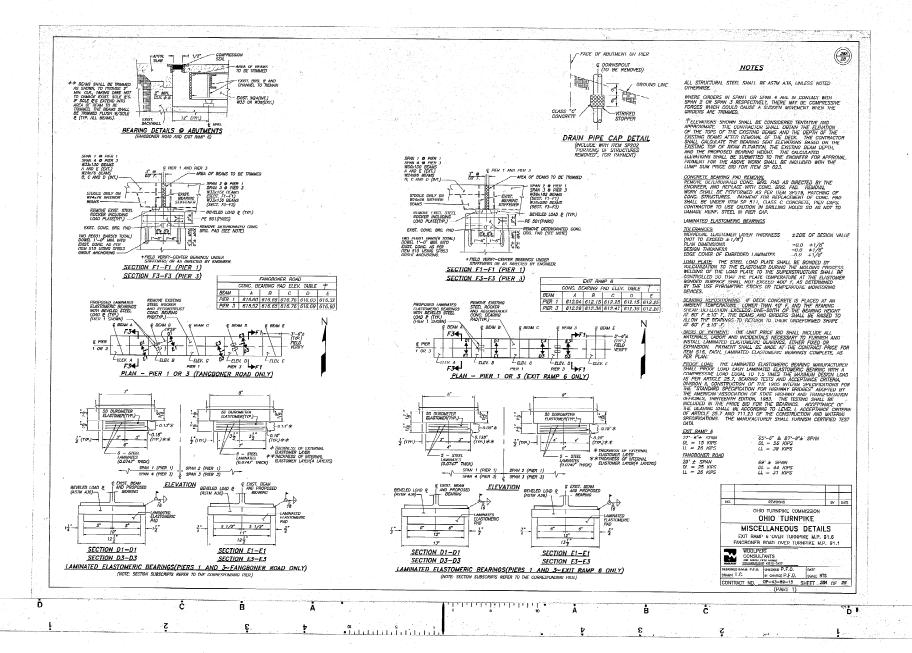


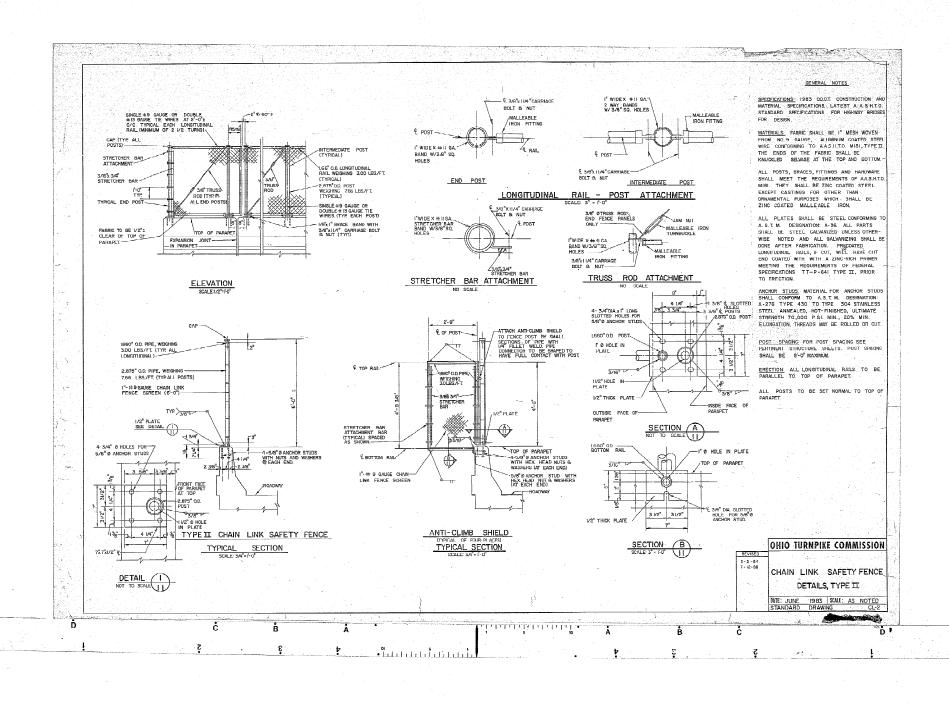


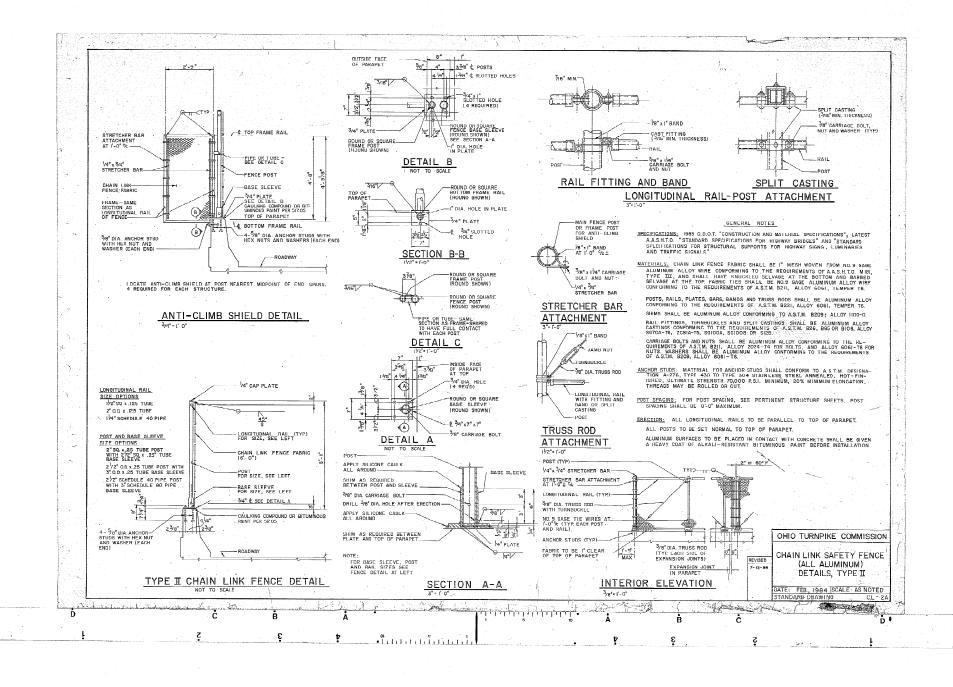




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# OHIO TURNPIKE COMMISSION

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THE JAMES W. SHOCKNESSY OHIO TURNPIKE

STANDARD CONSTRUCTION DRAWINGS
OHIO DEPARTMENT OF TRANSPORTATION

DRAWING NO.		DATE
BP - 2		1-11-85
BP 3		12-6-76
8P~4		10-1-87
BP-5		10-1-87
BP - 7		10-1-87
CB - 3A		5 - 1 - 79
GR - I		1 - 11 - 85
GR - 2B	-	2 - 5 - 82
GR - 3		1-21-85
GR - 4		2 - 5 - 82
F - 1 -		11 - 10 - 83
TC - 35.10		8 - 29 - 84
BR-I		5 - 29 - 79
MC-6		1 - 30 - 84

PREPARED BY 
adache - ciuni - lynn associates

CONSULTING ENGINEERS & SURVEYORS

4401 ROCKSIDE RD.

CLEVELAND, OHIO 44131



CONTRACT CIP 43-89-15-PART 2 REPLACEMENT OF BRIDGE DECKS

EXIT 6 RAMP OVER S.R. 53 (MP 92.0) SHANNON ROAD OVER OHIO TÜRNPIKE (MP 93.0) CARLEY ROAD OVER OHIO TURNPIKE (MP 94.7)

SANDUSKY COUNTY

ORIGINAL CONTRACT SECTIONS C-37 AND C-39



2 WORKER DAYS

BEFORE POU DIG

CALL TOLL PRISE 800-362-2764

NOTE:
THIS CONTRACT IS COMBINED
WITH CONTRACT CIP 43-89-15
PART I TO FORM A SINGLE
CONSTRUCTION CONTRACT.

# INDEX OF SHEETS

TYPICAL S	ECTIONS		 			2
GENERAL B	OTES (ROADWAY)		 	·. • • • • • • •		
GENERAL M	OTES (BRIDGE)		 			
GENERAL S	SHEARY (ROADWAY).		 			- 4
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	RUCTURAL DETAILS.					
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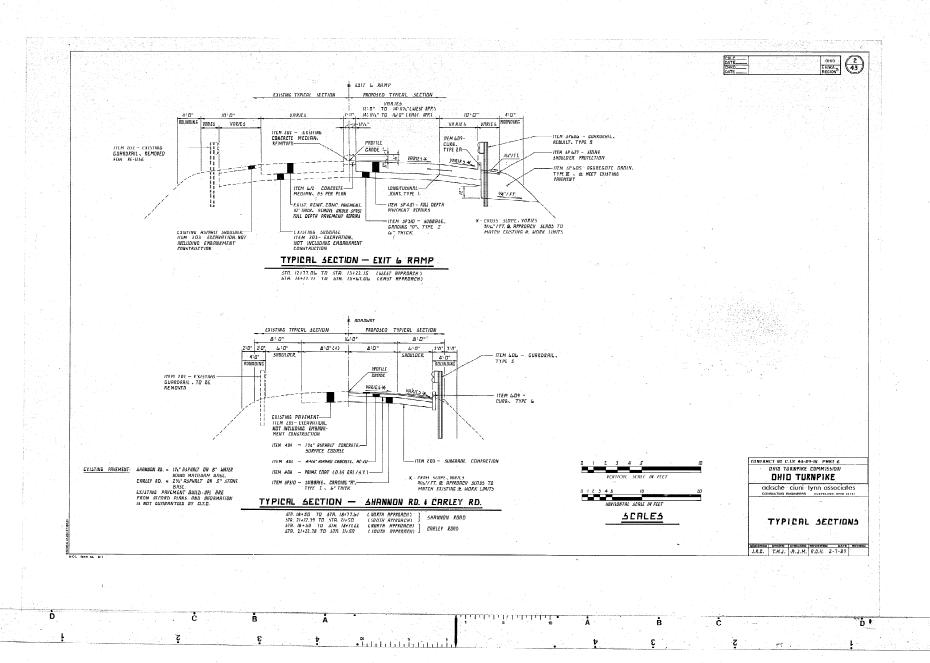
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APPROVED FOR:

THE OHIO TURNPIKE COMMISSION

Har Plan 2-13-89

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### PROPOSED WORK

THE EXIT 6 RAMP BRIDGE OVER STATE ROUTE 53 AND THE SHAMMON ROAD BRIDGE AND CARLEY ROAD
SHILUSE OVER THE CHILD TURNPIKE WILL BE REMABILITATED UNDER THIS CONTRACT. MAJOR WORK
TO BE PERFORMED CONSISTS OF:

- REPLACING THE BRIDGE DEFEXS AND ARRITHMENT MONUMAY SLABS, APPROACH SLABS AND DECK JOINTS WITH NEW REINFORCED CONCRETE DECKS, ABUTMENT SLABS, APPROACH SLABS, SEALED DECK JOINTS AND SAFETY BARRIERS.
- REPAIRING THE EXISTING COMMRETE ABUTHENTS AND PIERS BY PAIGHING THE OFTERIORATED SECTIONS WITH DIMERHIE.
- 3.) ROADMAY IMPROVEMENTS INCLUDING RELOCATING/REPLACING QUARDRAIL, REPLACING PAVEMENT JOINTS, REPLACING PHITIONS OF EXISTING PAVEMENT AND RULDATING/REPLACING DRAIMAGE LITENS. DETAILS OF THIS MORK ARE SHOWN ON THE PLANS.

### CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL CONFIDENT TO THE SEQUENCING OF CONSTRUCTION OPERATIONS IN THE CONSTRUCTION OF THESE BRIDGE PROJECTS,  $^{\prime\prime\prime}$ 

- 1.1 SHAMMUN AND CAPLEY ROADS SHALL BE CLOSED FOR THE DURATION OF THE PROJECT.

  DETAILS OF SIGNING, BARRICADING AND TEMPORARY FENCE ARE SHOWN ON THE

  PLANS.
- 2.) EXIT 8 RAMP OVER S.R. 53 SHALL DE CONSTRUCTED IN TAD (2) PHASES. ALL MORK SHALL BÉ CURRINAN EN WITH THE MAINTENANCE OF TRAFFIC DEVAILS SHEAN IN THE PLANS. ALL PROVISIONS FOR SAFETY MUST BE IN PLACE PRIOR TO ANY DEPOLITION OR CONSTRUCTION MORK COMMERCHEMST.
- THE SEQUENCE OF CONCRETE PLACEMENT SMALL BE AS SPECIFIED AND INDICATED ON THE UNAWLINGS.
- a.) MD CHANGES IN THE SEQUENCING OF CONSTRUCTION OPERATIONS SHALL HE PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ENGINEER OBTAINED NO LATER THAN 88 MOURS IN ADVANCE OF THE PROPOSED CHANGE.

### ELEVATION DATA

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE U.S. GEDUETIC SURVEY AND ARE IN FEET ADDRESSES LEVEL.

### CATCH BASIN AND SLOPE DRAIN

MERRE PLANS PROVIDE FOR NEW CATCH BASIN AND SLOPE GRAIN, ALL MORK SHALL BE IN ACCORDANCE
MITH RETAILS SHOWN. IN ADDITION, 4 FT, X 6 FT, X 1.5 FT, THICK OF ROCK CHANNEL
PROTECTION TYPE C, MITHOUT FILTER SHALL BE INSTALLED. PAYMENT SHALL III, ADDROVING
TO THE UNITY PRICES DID FOR THE PRETINENT TIPMS.

### UTILITIES NOTIFICATION

AT LEAST THE 12) MORKING DAYS PRIOR TO COMMENCING CONSTRUCTION GREATIONS IN AN AREA MATCH MAY INDUCE UNDERGROUND UTILITY FROM INTEREST. THE RESISTANCE HER RESISTANCE OF THE R

THE DAMP OF THE INDICEMBERORS UTILITY PAGELITY SMALL, MITTHE FORTY IS BOURDED. SENDINGUES, EXPENDENT, SUPPORTS, MOD LEGAL MOLIDAYS, AFTER MOTTRE IS ROCEIVED. STAKE, MAKE OR OTHERWISE IN SICKE A MANNER AS TO INITIALE THEIR COURSE TORSTHER WITH THE APPROXIMATE OPPINT AT MINION THEY MERE LISSIALLED. THE MARKENG OR LOCATING SMALL OR CORROBATED OF THE AVAILABLE LOWERING LIGHT.

### UNDERGROUND UTILITIES

THE LOCATIONS OF UNDERGROUND WILLTIES SHEWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS MINIBIDED BY SECTION 153.84 ORC.

OHIO EDISON COLUMBIA GAS OF CHID
6326 LAKE AVENUE 827 MALINIT STREET
ELYRIA. OHIO 40055
ELYRIA. OHIO 40055
TELEPHONE: (218) 324-5451
TILLUPHUNC. (218) 329-5551

ONTO BELL TELEPHONE TOLEDO EDISION

IDICIDI, ONTO 2500 M. SAMURSKY U.S. 20

TELEPHONE: (418) 245-7304 LINSEY, OHTO 83042

ATTN: MR, MARK HYLTON TELEPHONE: 1-(000)1-335-2800

ATTN: TIN BHIARIÁ

FIRST TELECOMMUNICATIONS CORPORATION, FIREN OF THE CHAIR TO A FIREN APPROXIMATELY TO PETE LOURTH OF CONTREMAN IN GROUND TURNERIE IS LOCATED A FIREN OFFICE CARE, EXTERNE CARE MOST IET TAKEN BY THE CONTRECTOR TO PRESERVE AND PROMISED THIS CONSTRUCTION. ANY EXCAVATION IN HIS AREA FOR ANY IN-FASTA MINIAL NOT SE PREFORMED MITHOUT LITTLE, FIRST HEALTH IN CARE, AFTER THE CABLE AND SECONDATED BY LITTLE. THE CHAIRMAND SHALL EXCAVATE TO MITHOUT LITTLE FIRST HEALTH AND THE TO MITHOUT LITTLE PROGRAMMATOR SHALL EXCAVATE TO MITHOUT LITT

LITEL CORPORATION SHALL BE NOTIFIED A MINIMUM OF TWO DAYS PRIOR TO ANY
EXCAVATION OVER THEIR LIMES AND/OR LOCATING BH, CANLE.

THE FOLLOWING SHALL BE CONTAGTED FOR LOCATING THE CABLE:

JAYAROM BORAIAH OFFICE: (#19) 884-0400 HOHE: (#19) 756-6773

CONTRACT NO. C.I.R 43-89-15 PART 2

GHIO TURNPIKE COMMISSION

DHIO TURNPIKE

adoche ciuni lynn associates

GENERAL NOTES

J.R. C. G.S.B. R.J.M. B.B.H. 2-7-87

ACL form no B-1

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### DESIGN SPECIFICATIONS

THESE STRUCTURES CONFORM TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1983, INCLUDING INTERIM SPECIFICATIONS THRU 1988, AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

### DESIGN LOADING:

EXIT 6 RAMP OVER S.R. 53: HS20-44 CASE I. THE ALIEHNALE MILITARY LUADING, AND A 30 P.S.F. FUTURE WEARING SURFACE.

SHANNON/CARLEY ROAD OVER THE DHIO TURNPIKE: HS20-44 CASE II. AND NO PROVISIONS FOR A FUTURE WEARING SURFACE.

CONCRETE CLASS S - COMPRESSIVE STRENGTH 4500 P.S.I. CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 P.S.I.

RETNEORCING STEEL - ASTM ARIS ARIS ARIS

GRADE 60 MIN: MUM YIELD STRENGTH 60,000 P.S.I. EXISTENS STRUCTURAL STEEL ASTM A7 (ASSUMED) - YIELD STRENGTH 33,000 P.S.I.

DECK PROTECTION METHOD FOR ARHYMENT SLAR AND SUPERSTRUCTURE DECK IS EDDAY COATED DEINCORPORAGE

STELL IN TOP AND BOTTOM MATS AND CONCRETE WEATHERPROOFING SEALER ON TOP SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED. FOR DESIGN PURPOSES. TO BE 1/2" THICK

### MATERIALS:

(1) WELDED SHEAR STUD CONNECTORS: SHALL CONFORM TO AASHTO MIES AND SPELS.

### EXISTING STRUCTURE PLANS:

THE DRIGINAL DESIGN PLANS MAY BE EXAMINED BY PROSPECTIVE RIDDERS AT THE CONSTRUCTION OF PRINCIPLE OFFICE, GRZ PROSPECT STREET, REREA ONTO THE CONTRACTOR SHALL SANTI LADYZE

### EXISTING STRUCTURE VERTETCATIONS:

DETAILS AND DIMENSITONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY. THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CUNTRACTOR IS REFERRED TO CMS SECTION 513.02 AND O.T.C. GENERAL CONDITIONS G-7.04 AND G-5.02.

CONTRACT BID PRICES SHALL BE BASED UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBIO EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOMEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES WHICH HAVE USEN VERIFIED BY THE CONTRACTOR IN THE FIELD. THE STRUCTURAL STEEL AND STRUCTURAL STEEL DECK JOINTS SHALL NOT BE FARRICATED UNTIL THE ACTUAL DETAILS. DIMENSIONS, ELEVATIONS, AND SKEW ANGLES HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

ANY ADDITIONAL COST RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT OVER THE UNIT PRICE BID WILL BE AMARDED BY THE COMMISSION

DIMENSIONS: GIVEN ARE MEASURED HORIZONTALLY AND AT 60 DEGREES FAMRENHEIT. UNLESS DTHERMISE NOTED.

## REPLACEMENT OF CXISTING REINFORCING STEEL:

ANY EXISTING REINFORGING BARS WHICH ARE TO BE INCORPURATED INTO THE NEW WORK AND WHICH ARE MADE UNUSABLE BY THE CONTRACTOR'S COMORETE REMOVAL OPERATIONS SHALL BE REPLACED. WITH MEN STEEL AT HIS COST. MAY EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION SHALL BE REPLACED WITH NEW STEEL

HERELING BOWEL HOLES, FURNISHING AND PLACING SP 956 WOMSHRINKING EPOXY MORTAH, AND REINFORCING BAR DOWELS. WHERE NULLOUD TO REPLACE EXISTING REINFORCEMENT DAMAGED BY THE CONTRACTOR: SHALL BE THINE AT THE CONTRACTOR'S EXPENSE.

ITEM SP 536 IDNORFIE WEATHERPROOFING SHALL BE APPLIED TO THE FOLLOWING EXPOSED CONCRETE SURFACES OF THE BRIDGE.

- THE TOPS OF ARITHENT AND SUDERSTRUCTURE SLARS
- ALL PARAPET SURFACES AND SLAB SIDE FORES.
- THE BOTTOM SURFACE OF THE SUPERSTRUCTURE SLAB FROM THE SLAB SIDE EDGE TO THE EXTERIOR STRINGER FLANCE.
- APPROACH SLABS.
- NEW EXPOSED CONCRETE SURFACES OF ALL ABUTHENTS AND PIERS. SEALING SHALL NOT BE DOWN UNTIL ANY CONCRETE PATCHING REPAIRS HAVE BEEN COMPLETED AND CURED.

CARE SHALL BE TAKEN NOT TO APPLY WEATHERPROOFING ON CONSTRUCTION JOINT SURFACES, SURFACES TO RECEIVE JOINT SEALER, AND FASCIA BEAM PAINT

EXIMITALITE INSERT ASSEMBLIES, AS SHOWN ON STANDARD CONSTRUCTION DRAWING GR-1 AND GR-5. SHALL BE PROVIDED AT ALL MINGHALL TERMINALS FOR ATTACHMENT OF GIMRORATE TERMINAL CONNECTORS. INCLUDE WITH ITEM SP 511 FOR PAYMENT.

### PATCHING CONCRETE STRUCTURES:

A CONTINGENCY OF SP 519 PATCHING CONCRETE STRUCTURES HAS BEEN INCLUDED ON EACH OF THE STRUCTURE'S SUMMARY OF QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER

### ABUTMENT BACKFILL

THE CONTRACTOR SHALL PROVIDE AND PLACE BACKFILL BETWEEN EXISTING WINGHALLS AS REQUIRED TO DRING THE FILE TO THE LEVEL OF THE PROPOSED SLAB PRIOR TO PLACING THE NEW DECK SLAB. INCLUDE WITH ITEM 503, ABUTHENT BACKFILL. AS PER 503.10 FOR PAYMENT.

### EPOXY BONDING COMPOUND:

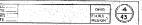
EPOXY BUNDING COMPOUND (SP 528) SHALL BE PLACED ON THE SURFACE AREA OF EXISTING CONCRETE MATICAL MILL BE IN CONTACT HITH THE NEW CONCRETE. PRICE INCLUDED IN THE CONTRACT BID PRICE FOR THE PERTINENT CONCRETE ITEMS.

### BRIDGE BECK ELEVATIONS, SLAB THICKNESS, AND APPROACH PROFILES

IN ORDER TO MEET MONINAY GRADUS. TO ASSURE THE CONSTRUCTION OF THE REQUIRED THICKNESS OF DICK SLABS. AND TO ASSURE THE PROPER LOCATION OF THE REINFORCING STEEL. IN THE DECK SHARS; THE CONTRACTOR SHALL OBTAIN THE ELEVATIONS OF THE TOP OF EXISTING STEEL BEAMS. AFTER THE COMPLETE REMVOAL OF THE EXISTING DECK SLAB. AT THE LOCATIONS SHOWN IN THE TABLE ON SHEET 3D OF 43 (FOR EXIT & RAMP BRIDGE) AND 41 OF 43 FOR (SHANNON AND GARLEY ROAD BRIDGES! FOR THE FINAL PAVENENT ELEVATIONS. THE CONTRACTOR SHALL COMPUTE THE OFFIX SCREED ELEVATIONS UTILIZING THE GEAD LOAD DEFLECTIONS. THEN, THE DONTRACTOR SHALL CALCULATE THE DECK THICKNESS OVER THE BEAMS USING THE DECK SCREED ELEVATIONS AND THE TOP OF BEAM ELEVATIONS. IF THE COMPUTED DECK THICKNESS IS FOUND TO BE LESS THAN A MINIMUM THICKNESS REQUIRED. THE FINAL PAVEMENT ELEVATIONS SHALL BE ADJUSTED AS DIRECTED BY THE

THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON 8 1/2" THICK LEXIT B HAMP BRIDGE: AND 8" THICK (SHANNON/CARLEY ROAD BRIDGES) CONCRETE DUTSIDE THE HALMON ARFAS, AND THE AVERAGE THICKNESS OF CONCRETE PLACED OVER THE EXISTING ULAMS AT THE HAUNCHES. A TYPICAL HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING THE QUANTITY OF CONCRETE. HOMEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 8" AND 12" PROVIDED THAT THE SLOPE SHALL NOT BE MORE THAN 1.4 FOR A HAUNCH LESS THAN 9" IN WIDTH.

PLAGEMENT OF THE ABUTMENT SLAB PRIOR TO THE DECK SLAB WILL NOT BE PERMITTED. HOWEVER. THE ARRIMENT SLAB AND THE DECK SLAB MAY BE POURED AT THE SAME TIME. UPON THE COMPLETION OF THESE POURS AND PRIOR TO POURING THE CONCRETE APPROACH SLABS, THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH FINISH CRADES AND ELEVATIONS REQUIRED TO PROVIDE A SMOOTH TRANSITION FROM THE ASPHALT HEADHAY AND APPROACH SLABS TO THE CONCRETE ABILITMENT AND DECK SLARS



IN ORDER TO PROVIDE A SMOOTH TRANSITION FROM THE EXISTING PAVEMENT TO THE NEW BRIDGE DECK, THE ENGINEER SHALL PROVIDE THE CONTRACTOR WITH FINISH PAVENENT ELEVATIONS. (MICH. COMPLETION OF THE ABUTMENT AND DECK SLABS, THE CONTRACTOR SHALL PROVIDE TO THE ... ENGINEER ELEVATIONS OF THE EXISTING SURFACE ALONG THE DENTERLINE AND BOTH EDGES OF PAVEMENT AT 25' INTERVALS. ELEVATIONS OF THE NEW DIRIDGE SLABS, AND THE EXISTING PAVEMENT FOR A DISTANCE 100' BEYOND THE PAVING LIMITS SHALL ALSO 86 PROVIDED. UPON RECEIPT OF THESE FLEVATIONS. THE ENGINEER WILL CALCULATE AND PROVIDE THE CONTRACTOR HINAL FLEVATIONS FOR THE CONCRETE APPROACH SLABS AND FOR THE APPROACH PAYENENT NO APPROACH SLABS SHALL BE POURED NOR SHALL APPROACH PAYING COMMENCE UNTIL THE CONTRACTOR RECEIVES THE FINAL PAVEMENT ELEVATIONS FROM THE ENGINEER.

PAYMENT FOR THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM SP 623 - CONSTRUCTION LAYOUT SURVEY.

### CONTINGENCY QUANTITIES:

THE CONTRACTOR SHALL NOT ORDER MATERIALS ON PERFERM WORK LISTED IN THE ESTIMATED QUANTITIES FOR ITEMS DESIGNATED BY PLAN MOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE HADE A MATTER OF RECORD BY INCOMPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

### EPOXY COATED REINFORGING STEEL SUPPORT:

IN ACCOMMANCE WITH THE REQUIREMENTS OF SP 824 AND 509.03, THE TOP AND BOTTOM MATS OF ALL LUNGITUDINAL AND TRANSVERSE EPOXY COATED REINFORGING SILEL SHALL BE SUPPORTED BY APPROVED EPOXY COATED DEVICES WITH STACING NUT EXCEEDING 3" - 0" CENTERS IN EACH DIRECTION, BROKEN CONCRETE, BRIDG FIR. SHALL NOT BE USED FOR SUBDOOT OF EDOMY CONTROL REINFORGING STEEL. SUPPORTING DEVICES SHALL BE INCIDENTAL TO ITEM SP 824.

### ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN-

AS A CONTINGENCY, 10 CU. YO. OF UNCLASSIFIED EXCAVATION RAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR EACH BRIDGE FIRE EXPOSING AND SUBSEQUENTLY BACKFILLING PORTIONS OF EXISTING PIER COLUMNS. WHERE CUMURETE PATCHING MAY EXTEND BELOW GRADE, AS DIRECTED BY THE ENGINEER. ALL APPLICABLE PROVISIONS OF ITEM 503 SHALL APPLY. EXCEPT THAT THE MEINOU OF MEASUREMENT SHALL BE TO THE LIMITS SHOWN ON THE PLAN. THE COST FOR ALL LABOR, FOUTPMENT, AND MATERIALS TO PERFORM THE ABOVE WINK SHALL BE INCLUDED IN THE CUBIC YARD PRICE BID FOR ITEM 503 UNCLASSIFIED EXCAVATION, AS

PORTIONS OF STRUCTURES REMOVED SHALL INCLUDE SCUPPERS, COMMSPOUTS, SPLASH PLATES,

SCUPPER SUPPORTS, EXPANSION JOINTS AND THE FOLLOWING APPROXIMATE QUANTITIES:

	UNIT	EXIT 6 SHANNON CARLEY HAMP ROAD ROAD
SUPERSTRUCTURE COMORETE	C.Y.	160 180 180
ABUTHENT SLAB CONCRETE	C.Y.	25 30 30
RAILING.	L.F.	535 435 h35
		CONTRACT NO. C.I.P. 43-89-15 PART 2  OHIO TURNPIKE COMMISSION  OHIO TURNPIKE
		adache ciuni lynn associates
		GENERAL NOTES
		J.R.C. G.S.B. P. J.M. R.D.H. 2-7-89

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6 6 All in . 1 SHEET | TITEM | NO, 7 | NO. 8 | NO. 10 | NO. 12 | NO. 18 | NO. 25 | NO. 52 | NO. 55 | TOTAL | DNIT | DESCRIPTION 202 95 | S.Y. IAPPROACH SLAB REMOVED 202 1,700 J. 3,400 L.F. IGUARDRAIL REMOVED 202 250 525 | L.F. | GUARDRAIL REMOVED FOR REUSE 202 155 L.F. ICONCRETE MEDIAN REMOVED 202 12 | EACH | INLET REMOVED AND PUBL PIPE ISP 202A 220 L.F. IMEDIAN CURB REMOVAL AND PARTIAL REPLACEMENT
458 S.Y. SUBGRADE COMPACTION 203 205 138 1138 C.Y. IEXCAVATION, NOT INCLUDING EMBANKMENT CONSTRUCTION 203 800 800 | C.Y. ISPECIAL BORROW, AS PER PLAN 24 24 | C.Y. LAGGREGATE BASE SP 310 90 1 180 | G.Y. ISUBBASE, TYPE I. GRADING A 402 54 I C.Y. IASPHALT CONCRETE, AC-20 404 12 | C.Y. IASPIJALT CONCRETE, AC=20 108 118 | GAL. | PRIME COAT ISP 451 390 | S.Y. | FULL GEPTH PAVEMENT REPAIRS ISP 451 24 | L.F. JOINT REPLACEMENT, TYPE H 70 70 | L.F. LICHT REPLACEMENT, TYPE K ISP 451 100 TAD I.C.F. IJOINT REPLACEMENT, TYPE L ISP 451 32 32 | L.F. EXPANSION JOINT 10.8 10.8 C.Y. IROCK CHANNEL PROTECTION, TYPE C; WITHOUT FILTER 603 563 | L.F. | 12" TYPE F COMOUIT, 207.01 (EXCEPT GALVANIZED) OR 707.05 WITHOUT PAVED INVEST 563 12 | EACH | GATCH BASIN 80 | L.F. | AGGREGATE ORAIN, TYPE !! SP 605 80 606 21 | EACH | BRIDGE TERMINAL ASSEMBLY, TYPF "A 606 12 | EAGH LANGHOR ASSEMBLY, TYPE "A" 808 300 1.387.5 | 1.612.5 | 3.300 | L.F. | GUARDRAIL, TYPE 5 SP 606 275 250 525 | I.I. GUANDRAIL REBUILT, TYPE 5 SP 607 1 1,200 1,200 | L.F. ITEMPORARY FENCE (7'-0" CHAIN LINK WITH SPECIALS. INCLUDING BARBED WIRE) SP GDZ 4 EACH ITEMPORARY GATE: (141-0") 609 190 : L.F. (GONGRETE CURS, TYPE 6 609 182 182 I U.F. ICONORETE CURB. TYPE 2A 117 315 | S.Y. ICLASS S CONCRETE APPROACH SLAB.USING SHEINKAH COMPENSATING CEMENT (T=10") B12 0 ISP 612 220 220 | U.E. ICONCRETE MEDIAN 622 300 | L.F. | TYPE D MODIFIED CONCRETE BARRIER SP 622A1 250 250 L.F. (TEMPORARY CONCRETE BARRIER (FURNISHED BY COMMISSION)) 18P 62ZA1 100 100 EACH CONCRETE BARRIER DELINEATORS ISP 627 12 TON STONE SHOULDER PROTECTION 70 C.Y. 12" TOPSOIL. FURNISHED AND PLACED 653 70 859 1,200 1.200 | S.Y. | SEEDING AND MULCHING 659 | 0.11 0.11 TON | COMMERCIAL FERTILIZER CONTRACT NO. C.I.P. 43-89-15 PART 2 OHIO TURNPIKE COMMISSION
OHIO TURNPIKE 1103.05 LUMP SUM L.S. PREMIUM FOR CONTRACT PERFOMANCE AND PAYMENT BOND adache - ciuni - lynn associates SP 614 LUMP SUM! L.S. IMAINTAINING TRAFFIC ISP 619 1 LUMP SUM! L.S. FIELD DEFICE 6P623 LUMP SUM! L.S. IGONSTRUCTION LAYOUT SURVEY 624 LUMP SUMI U.S. IMOBILIZATION GENERAL SUMMARY ( RORDWRY)

OHIO LA

### EXIT 6 RAMP STRUCTURAL QUANTITIES

į	ITEM	TOTAL	TIMU	DESCRIPTION
1	SP202	ILUMP SUM	1 1.5.	IPORTIONS OF STRUCTURE REMOVED
i	503	1 10	C.Y.	IUNCLASSIFIED EXCAVATION, AS PER PLAN
ľ	503	. 5	G.Y.	IABUTHENT BACKFILL AS PER 503.10
	510	200	L.F.	IDOMEL HOLES USING SP 853 GROUT ANCHORING
	SP 511A	1 3	C.Y.	ICLASS S CONCRETE, USING SHRIMKAGE COMPENSATING CEMENT,
		,		FOR PRE-POUR TESTING
	SP 511A	183	G.Y. 1	ICLASS S CONCRETE, SUPERSTUCTURE DECK AND BARRIERS
		!		USING SHRINKAGE COMPENSATING CEMENT
	SP 511A	31	C.Y.	ICLASS S CONCRETE, ABUIMENT SLAB AND BARRIERS
		1	1	USING SHRINKAGE COMPENSATING CEMENT
	SP 513	600	EACH	IWELDED STUD SHEAR CONNECTORS
	SP 518	890	S.F.	ISURFACE PREPARATION - TOP FLANGE, EXISTING BEAMS
	SP 514	200	1 S.F.	FFIELD PAINTING OF EXISTING STRUCTURAL STEEL
į	SP 519	725	S.F.	IPATCHING CONCRETE STRUCTURES
	5P 52≅	1 1	I EACH	REBUILDING EXPANSION BEARING DEVICES
	SP 524B	1 . 1 .	1 EACH	RESETTING EXPANSION BEARING DEVICES
	SP 527	ILUMP SUM	11.8.	IFALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
į	SP 529	30	EACH	ITRIM ENDS OF STUCTURAL STEEL MEMBERS
į	SP 533	69.3	L.F.	3 INCH CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
	SP 533A	69.3	1 L.F.	12 INCH ELASTOMERIC COMPRESSION SEAL IN STRUCTURAL STEEL JOIN
	SP 536	1,020	S.Y.	IGONGRETE WEATHERPROOFING
ì	SP 824	I An 725	I INC	TEPRNY CRATER RETAINMENTING STEEL GRADE GO

### SHANNON ROAD STRUCTURAL QUANTITIES

ITEM .	I TOTAL	TINU	I DESCRIPTION
SP202	LUMP SUM	L.S.	I PORTIONS OF STRUCTURE HEMOVED
503	. 10	C.Y.	UNGLASSIFIED EXCAVATION, AS PER PLAN
503	5	C.Y.	ABUTMENT BACKFILL AS PER 503.10
SP 511A	192	C.Y.	CLASS S CONCRETE. SUPERSTUCTURE DECK AND BARRIERS
			USING SHRINKAGE COMPENSATING CEMENT
SP 511A	31	G.Y	ICLASS & CONCRETE, ABUTMENT SLAB AND BARRIERS
			USING SHRINKAGE COMPENSATING CEMENT
SP 513	1.590	EADI	WELDED STUD SHEAR CONNECTORS
SP 514	900	5.F.	ISURFACE PREPARATION - TOP FLANGE, EXISTING BEAMS
SP 518	175	S.F.	FIELD PAINTING OF EXISTING STRUCTURAL STEEL
SP 519	500	S.F.	PATCHING CONCRETE STRUCTURES
SP 524	1.1	EACH	REBUILDING EXPANSION BEARING DEVICES
SP 5248	1	EACH	IRESETTING EXPANSION BEARING DEVICES
SP .527	LUMP SUM	E.S.	FRALSEWORK, TEMPORARY STRUCING AND PROJECTIVE STRUCTURES
SP 529	. 30		TRIM ENDS OF STUCTURAL STEEL MEMBERS
SP 533	58.9	L.F.	3 INCH CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
SP 555A	58.9	L.F.	12 INCH FLASTOMERIC COMPRESSION SEAL IN STRUCTURAL STEEL JOIN
SP 536	1,180	S.Y.	CONCRETE WEATHERPROOFING
SP 607	422	L.F.	ITYPE II FENCE (8'-0" CHAIN LINK WITH SPECIALS)
SP 607	422	L.F.	TYPE II FENCE, ALL ALUMINUM (8'-0" CHAIN LINK WITH SPECIALS)
5P 824	48.275		FEPONY GOATED REINFORGING STEEL, GRADE 60
SPECIAL		EACH	IDIAPHRAGM ADJUSTMENT

ITEM	TOTAL	i UNIT	DESCRIPTION
SP202	LUMP SUM	L.S.	IPORTIONS OF STRUCTURE REMOVED
503	10	C.Y.	UNCLASSIFIED EXCAVATION, AS PER PLAN
503	5	C.Y.	ABUTMENT BACKFILL AS PER 503.10
SP 511A	193	C.Y.	CLASS S CONCRETE, SUPERSTUCTURE DECK AND BARRIERS
			USING SHRINKAGE COMPENSATING CEMENT
SP 511A	31	C.Y.	CLASS S CONCRETE, ABUTMENT SLAB AND BARRIERS
			USING SHRINKAGE COMPENSATING CEMENT
SP 513	1.590	EACH	NELDED STUD SHEAR CONNECTORS
SP 514	902	S.F.	ISUNFACE PREPARATION - TOP FLANGE, EXISTING BEAMS
SP 518	175	S.F.	FIELD PAINTING OF EXISTING STRUCTURAL STEEL
SP 519	675	S.F.	PATCHING CONCRETE STRUCTURES
SP 524	1	EACH	REBUTLDING EXPANSION BEARING DEVICES
SP 5248	1	ÉACH	RESETTING EXPANSION BEARING DEVICES
SP 527	LUNP SUM	L.S.	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
SP 529	30	EACH	TRIM ENDS OF STUCTURAL STEEL MEMBERS
SP 535	58.7	L.F.	13 INCH CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
5P 553A	58.7	CL.F.	12 INCH FLASTOMERIC COMPRESSION SEAL IN STRUCTURAL STEEL JOINT
SP 536	1,200	5.Y.	CONCRETE WEATHERPROOFING
SP 607	424	Lif.	TYPE II FENCE 13'-0" CHAIN LINK WITH SPECIALS!
SP 607	926	L.F.	TYPE II FENCE, ALL ALUMINUM (8"-0" CHAIN LINK WITH SPECIALS)
SP 824	08,368	LBS	IEPOXY COATED REINFORCING STEEL. GRADE 60

NOTE: CONTINGENT QUANTITIES HAVE BEEN SET UP FOR SELECTED ITEMS AND ARE TO BE USED AS DIRECTED BY THE ENGINEER.

THE FOLLOWING QUANTITIES INCLUDE A CONTINGENT QUANTITY:

1TEM 503 DESCRIPTION
UNCLASSIFIED EXCAVATION, AS PER PLAN

SP 519 PATCHING CONCRETE STRUCTURES REBUILDING EXPANSION BEARING DEVICES
RESETTING EXPANSION BEARING DEVICES SP 524 SP 524B

CONTRRCT NO. C.I.P. 43-89-15 PART & BAID TURNPIKE COMMISSION OHIO TURNPIKE

adache ciuni lynn associates

GENERAL SUMMARY

DESIGNED GRAWN CHECKED REVIEWED DATE N.
J.R.C. G. S. B. R. J. M. R.D. H. 2-7-89



THE GENERAL AREA OF SLOPE FAILURE REPAIR IS ON THE SOUTHLAST AND SOUTHHEST EMBANCHENT OF

THE FAILURE PLANT SHOWN AND THE LIMITS OF CORRECTIVE MORE IS ESTIMATED.

THE ACTUAL FAILURE PLANE SHALL BE ESTIMATIONERS BY COMPUTE TREMOTHER DROPAL TO THE
PROMADERY FORD TO MAY EXAMINATION ADMICS REPORTED OF THE FAILURE DROMANEST MATERIAL.
THE SPRESHED OF, AND THE LOCATION OF, THE FAILURE PLANE SMALL BE VARIETY BY BY THE
PLANETY OF THE PLANETY OF T

THE MORK SHALL CONSIST OF REMOVING FAILUU SLOPE MATERIAL AND DISPOSING OF ALL MATERIALS SO REMOVED FROM THE PROJECT. THE EXISTING SLOPE SHALL HE REMOVED AS SHOWN ON THE PLANS AND EMBARKHENT MATERIAL FURNISHED, PLACED AND COMPACTED IN ACCORDANCE WITH ITEM 203.

THE CONTRACTOR SHALL GREAT FIELD CROSS SECTIONS AND SUBMIT THEN TO THE ENGINEER PRIOR TO THE STAIT OF THE REPAIRS. FROM THE CROSS SECTIONS PROVIDED, THE LIMITS OF MORK AND THE PROPRISED SLOPES WILL BE DETERMINED BY THE INHIBITE.

AFTER COMPLETION OF THE SLOPE REPAIR IN ACCORDANCE WITH THE PROPOSED CHOSSI SLUTIONS DEVELOPED BY THE ENGINEER, THE CONTRACTOR SHALL AGAIN CROSS SECTION THE REPAIR AREA AT

THE ACTUAL AMOUNT OF FAILED SLOPE MATERIAL REMOVED AND REPLACED SHALL BE DETERMINED.

FROM THE FIELD CROSS SECTIONS PROVIDED BY THE CONTRACTOR, DOTH BEFORE AND AFTER REPAIRS.

SENCIFICAND LIMITS OF CORRECTIVE MORK SIGNM ON THE DETAIL SHALL BE MODIFIED, IN MICHIGARMER MITH FIELD CONDITIONS TO ENSURE THAT THE FAILURE PLANE IS LOCATED AND MATERIAL IS IMPOVED AND REPLACED TO THE DIMENSIONS SHOWN ON THE PLANS OR AS DIRECTED OF THE MEGINERS.

BENCHES SHALL CUT INTO SOFT OR LOOSE MATERIAL AND EXTEND A MINIMUM OF A FEET BEYOND THE FAILURE PLANE INTO FIRM MATERIAL.

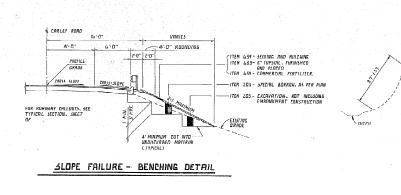
SPECIFIED DORROW TO RECONSTRUCT THE SITE SLIDES SHALL BE CHILD DEPARTMENT OF TRANSPORTATION TESTING LABORATORY CLASSIFICATION A-2. A-3A. A-8 OR A-6 SOIL AND SHALL BE COMPACTED TO A MINIMUM DORSTITO OF SAUGHT T-99).

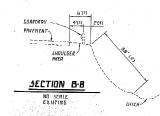
THE TOP 6 INCHES OF EMBANKMENT REMAINING AFTER REMOVAL TO THE SPECIFIED DEPTH SHALL BE COMPACTED TO A MINIMUM DENSITY OF 98% (AASHTO Y-99) PRIOR TO PLACING SPECIAL REPERTH MATERIAL

THE SURFACE OF BENCHED AREAS SHALL BE SLOPED TO DRAIN DURING INCLEMENT WEATHER TO

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED ON THE GENERAL SUMMARY FOR BIDDING

	TTEM	203	EXCAVATION, NOT INCLUDING EMBANKMENT CONSTRUCTION	800	C.Y.
	ITEM	203	SPECIAL BORROW. AS PER PLAN	800	C.Y
	ITEM	659	SEEDING AND HULCHING	1200	S.Y
ì	ITEM	653	2" TOPSOIL, FURNISHED AND PLACED	70	C.Y.
	ITEM	659	COMMERCIAL FERTILIZER	0.11	TON





B' (1)

4'(±), 4'(±)

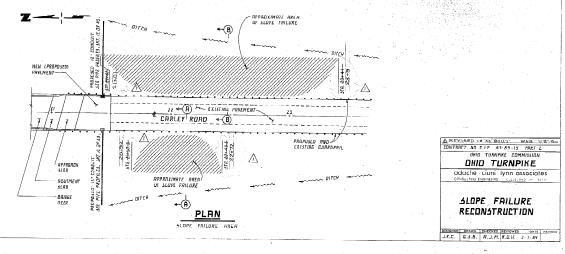
- GUARDRAIL

PRVEMENT

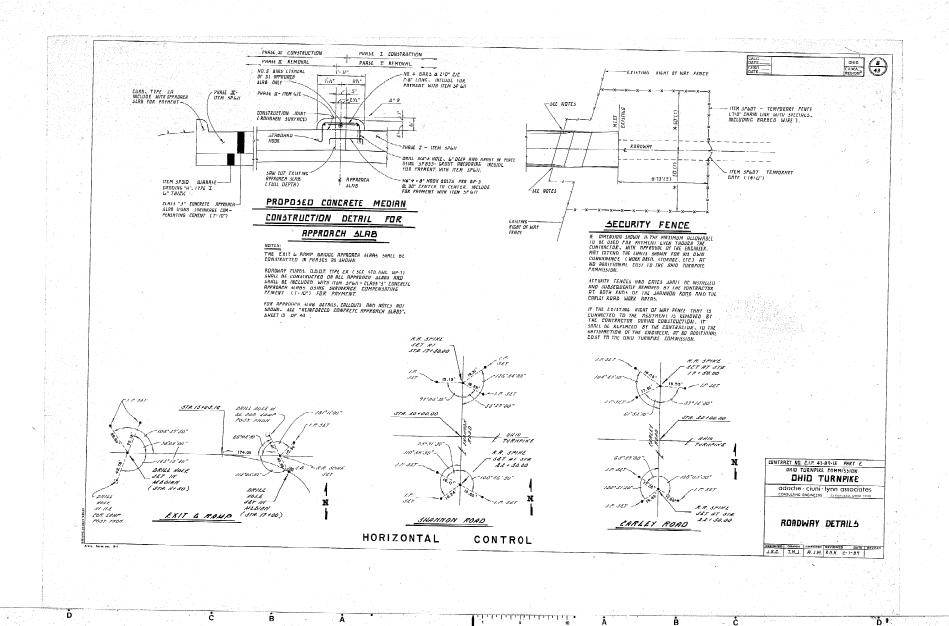
SHOULDER PREA

SECTION A.A

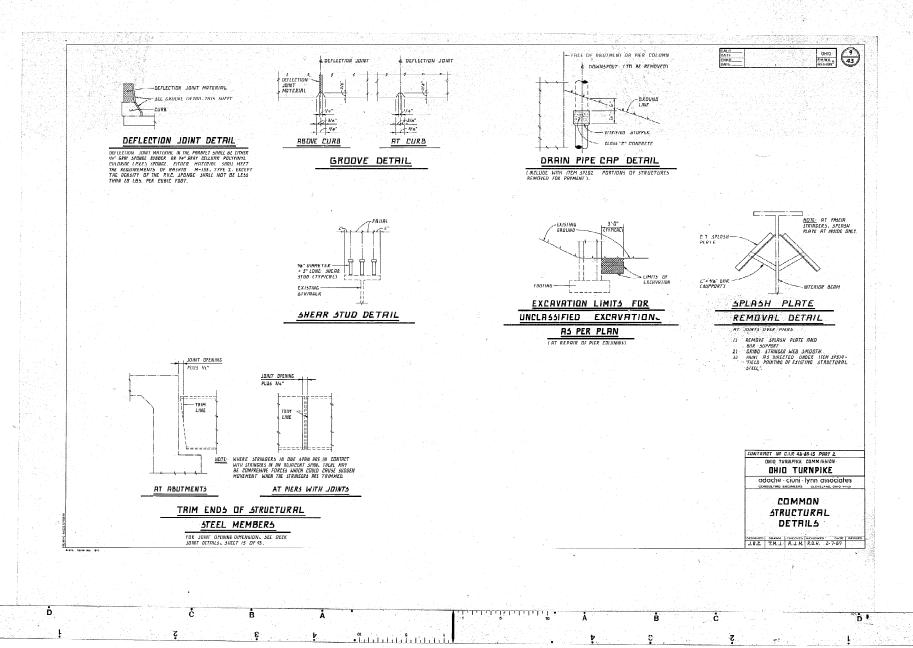
NO SCALE EXISTING 43

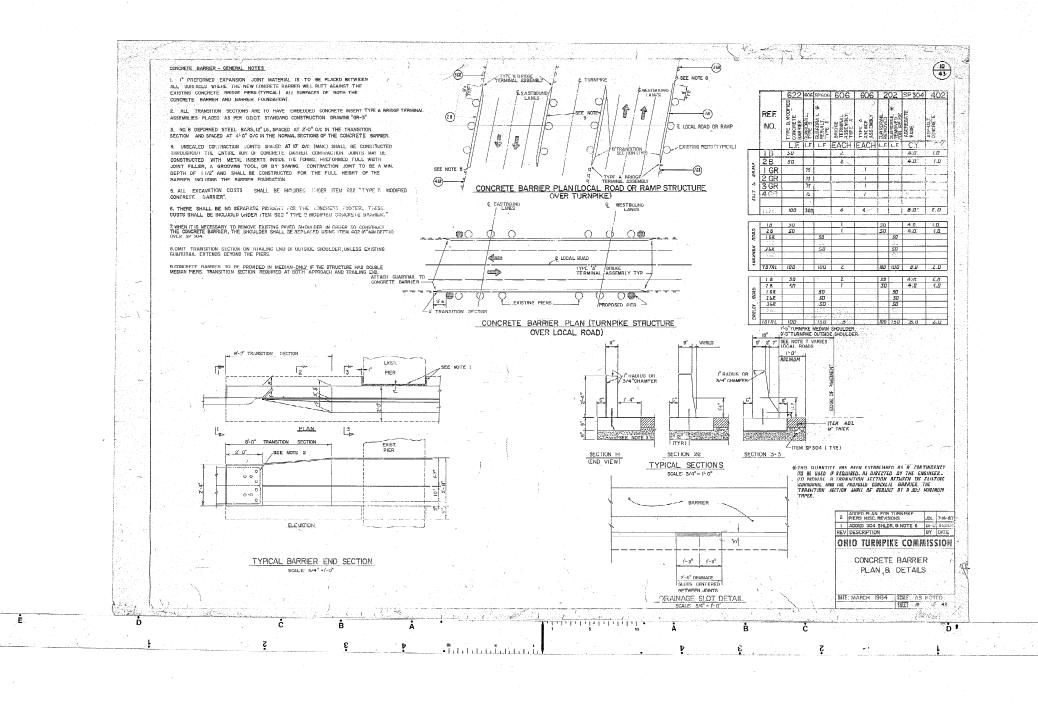


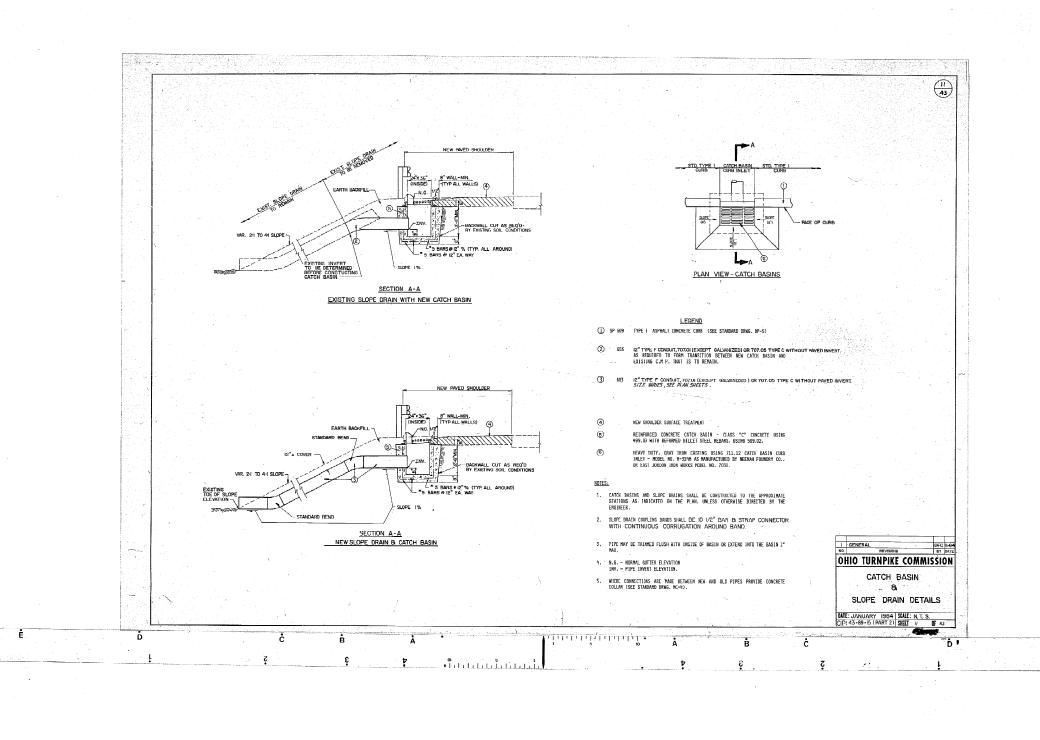
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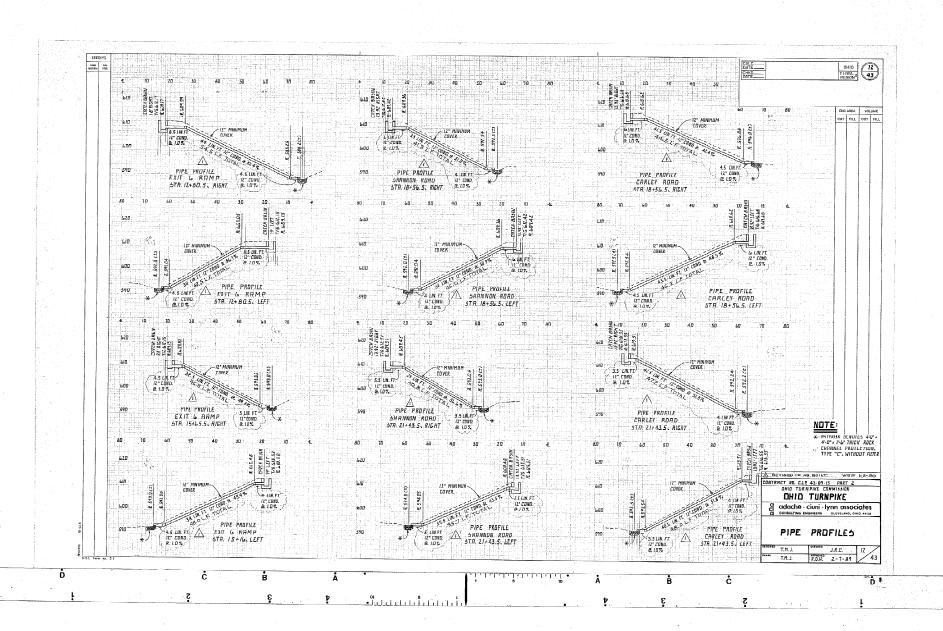


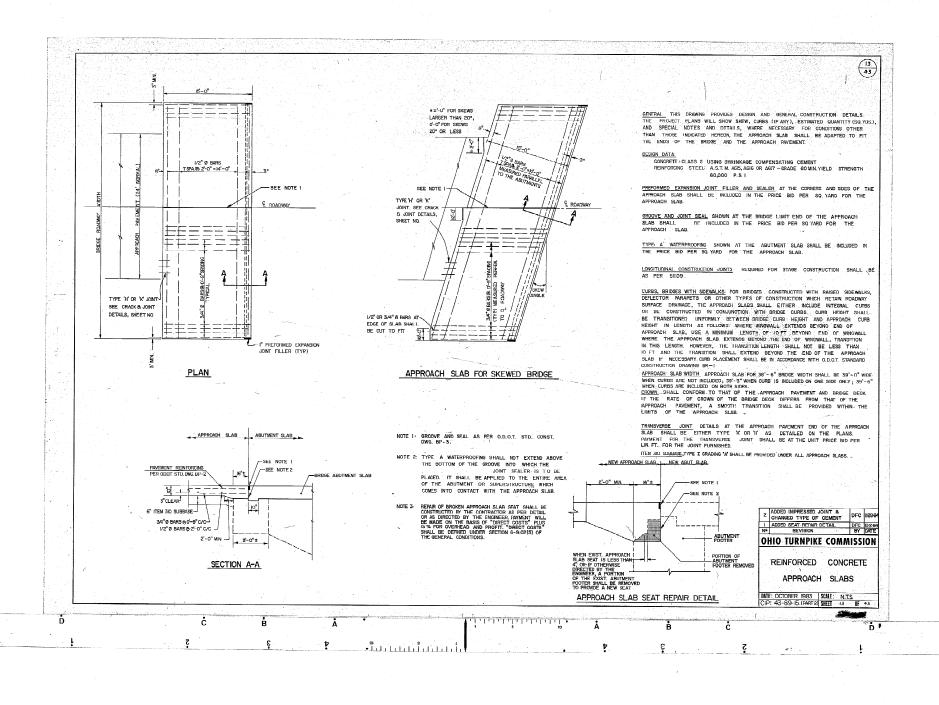
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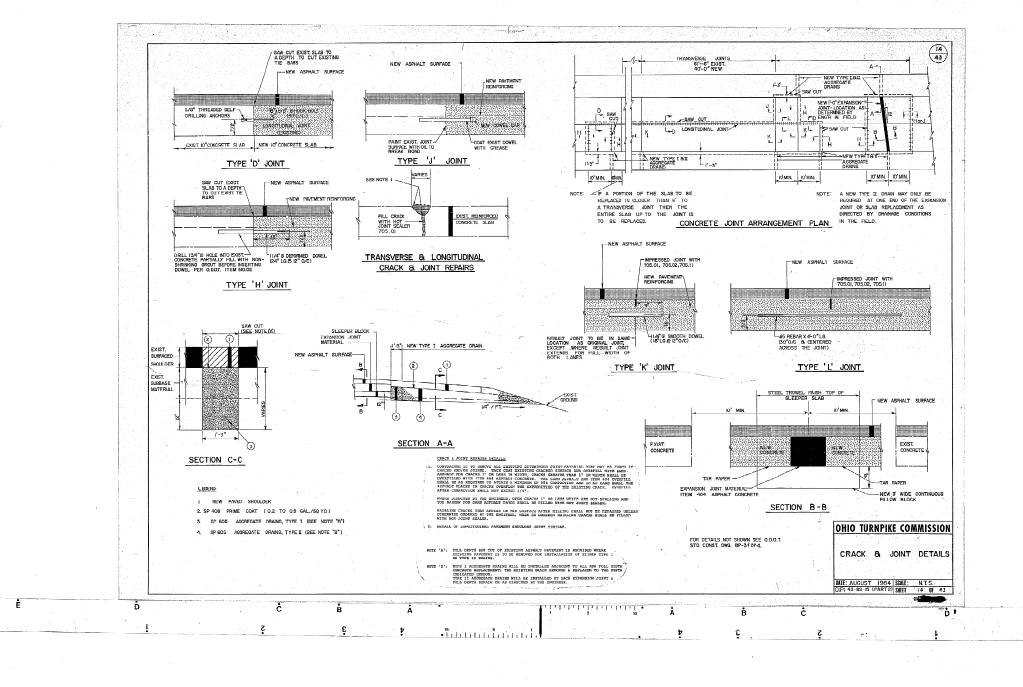


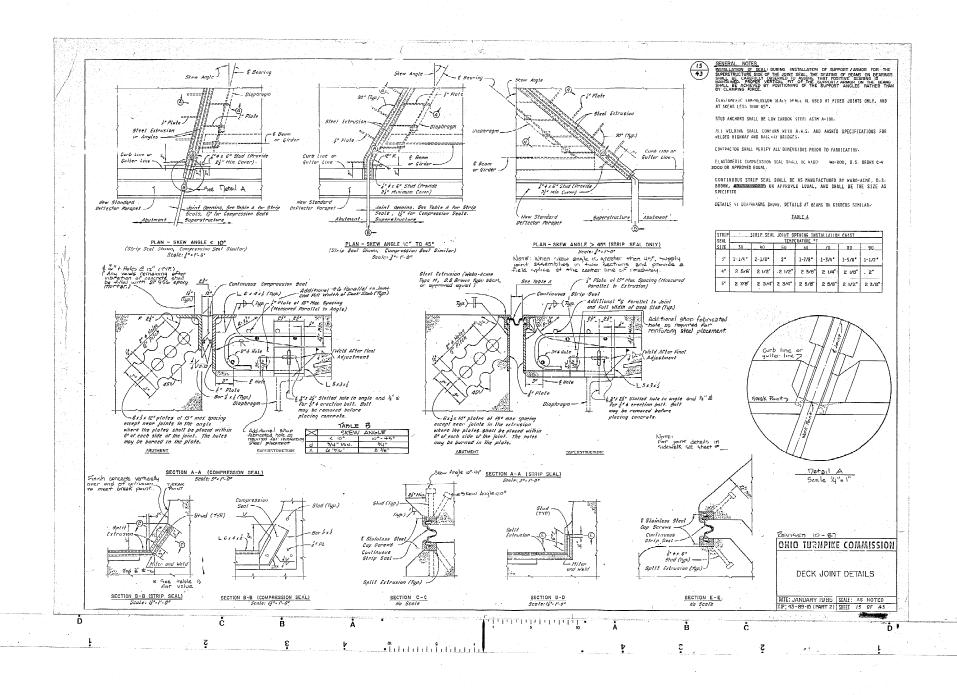


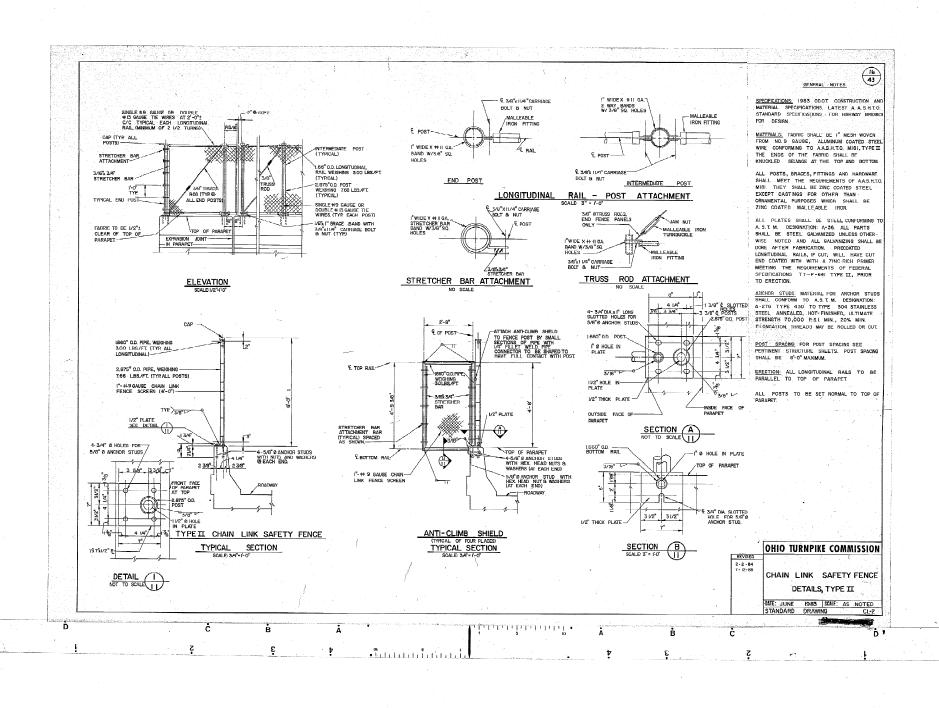


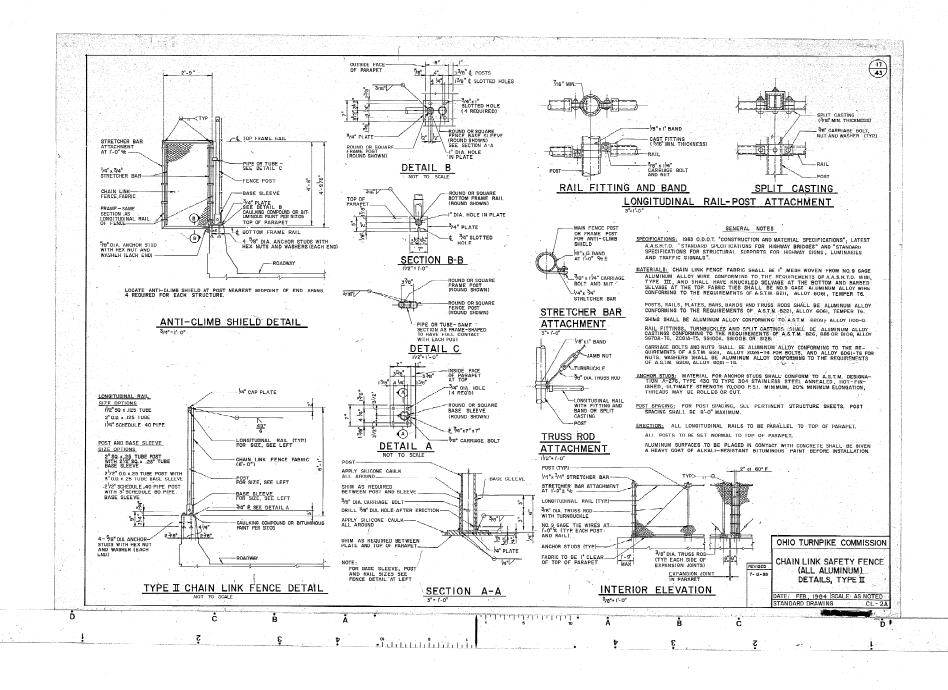


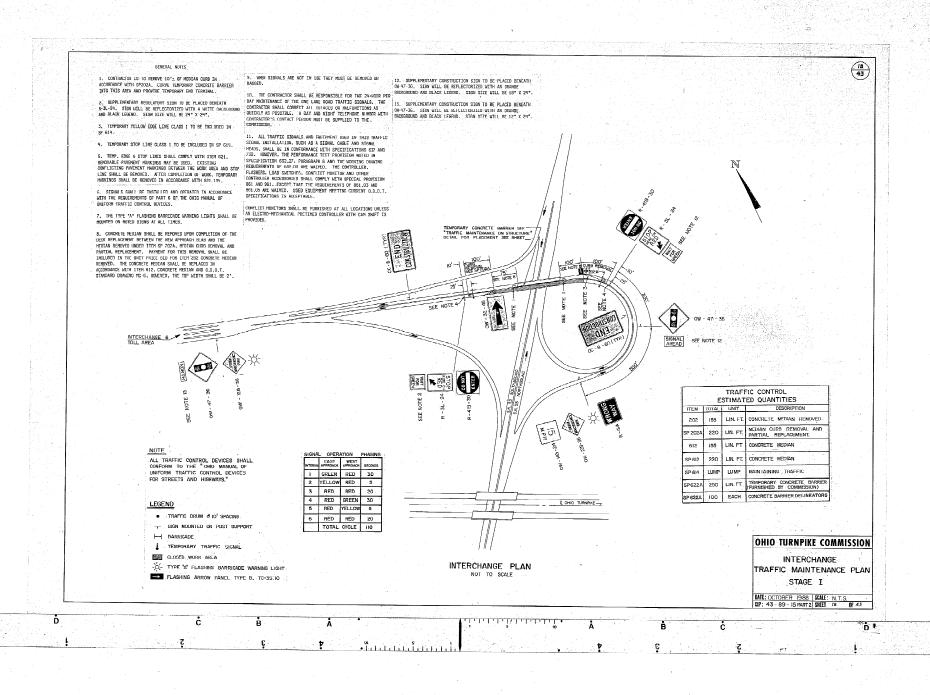
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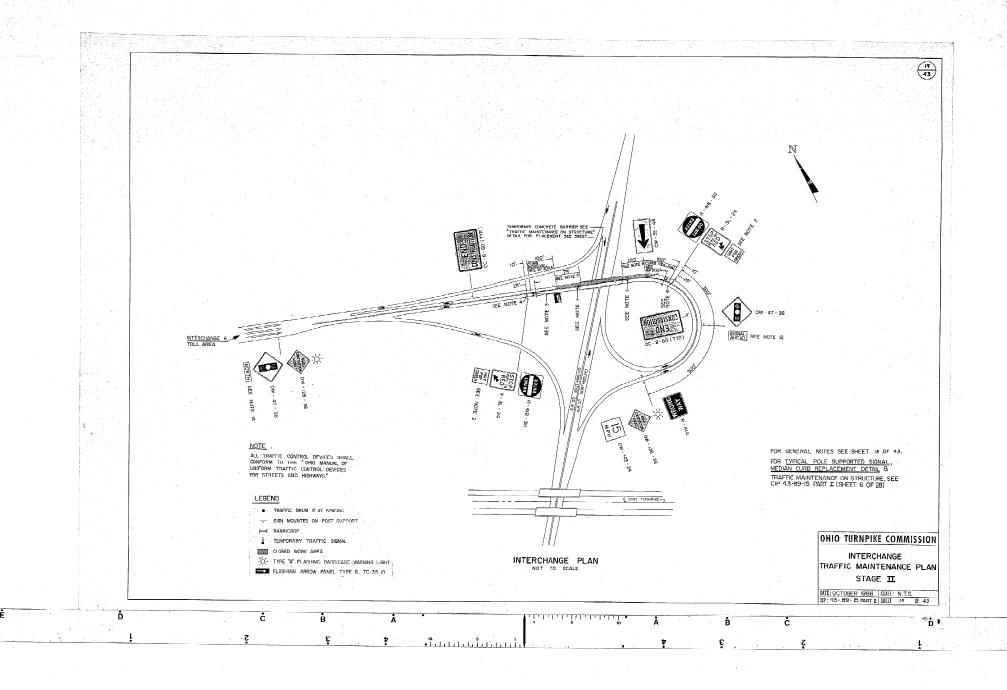


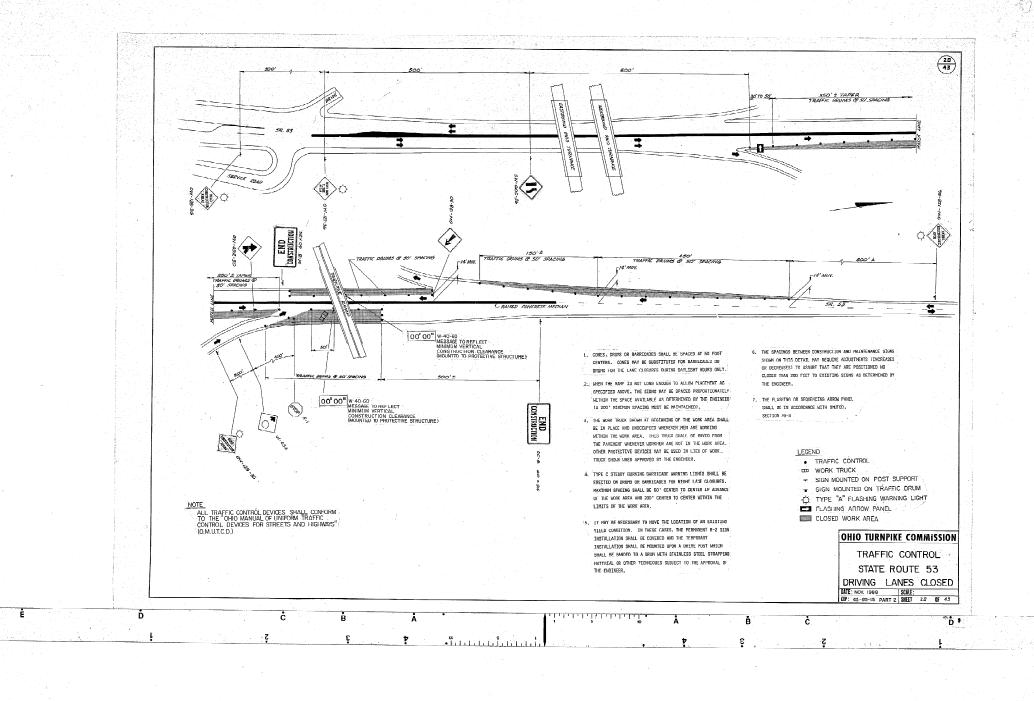


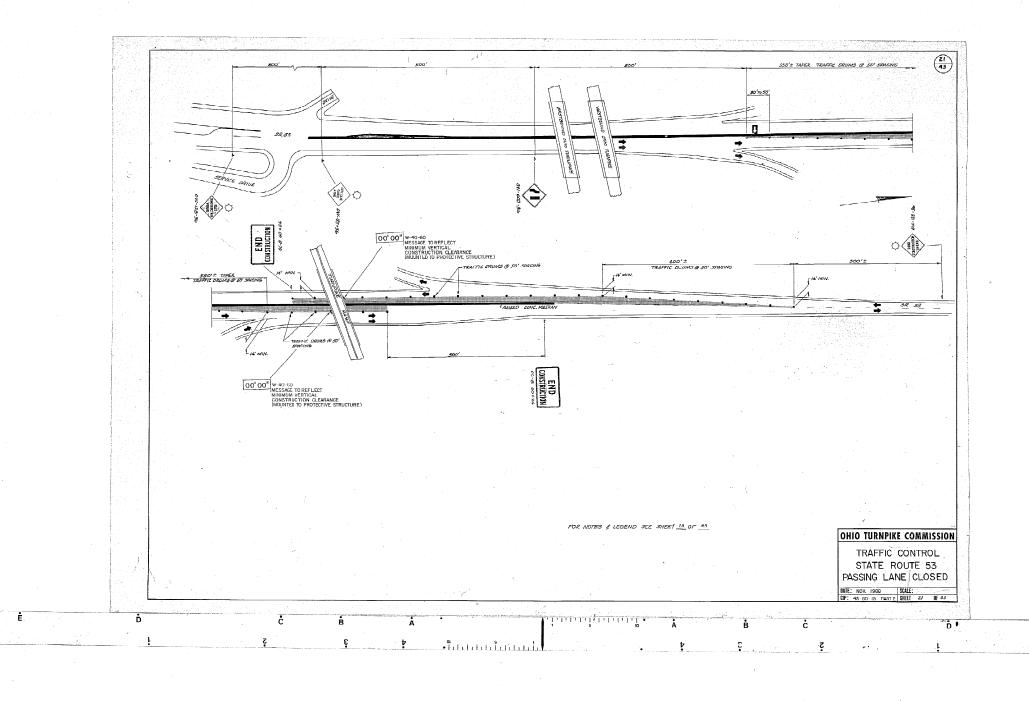


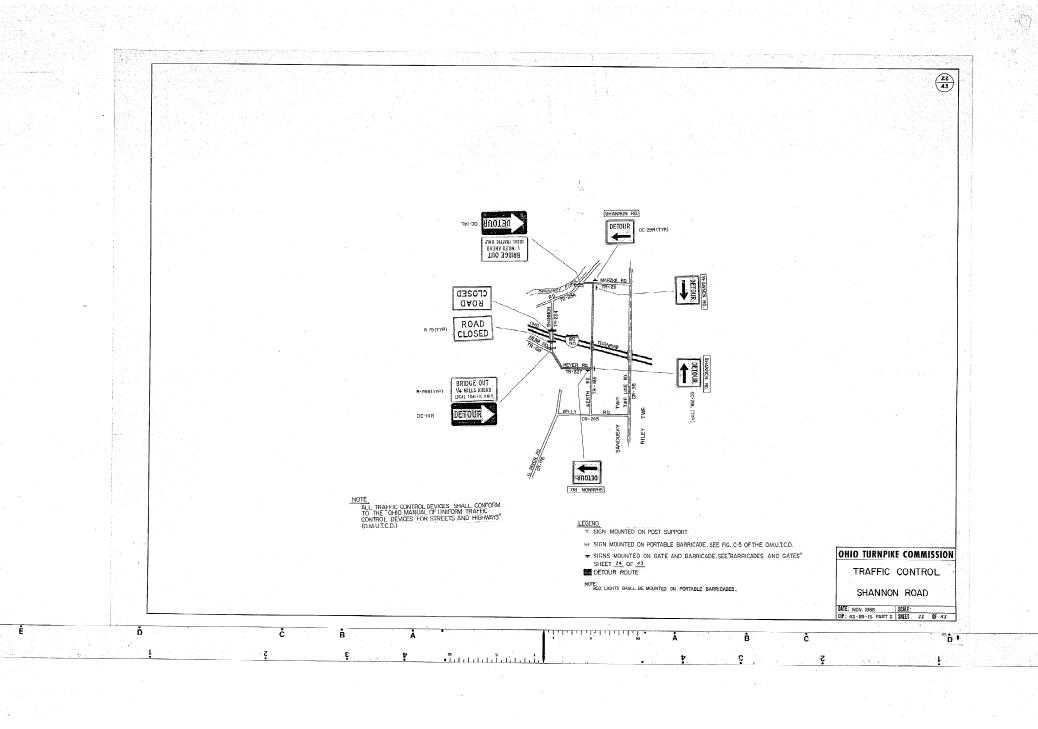


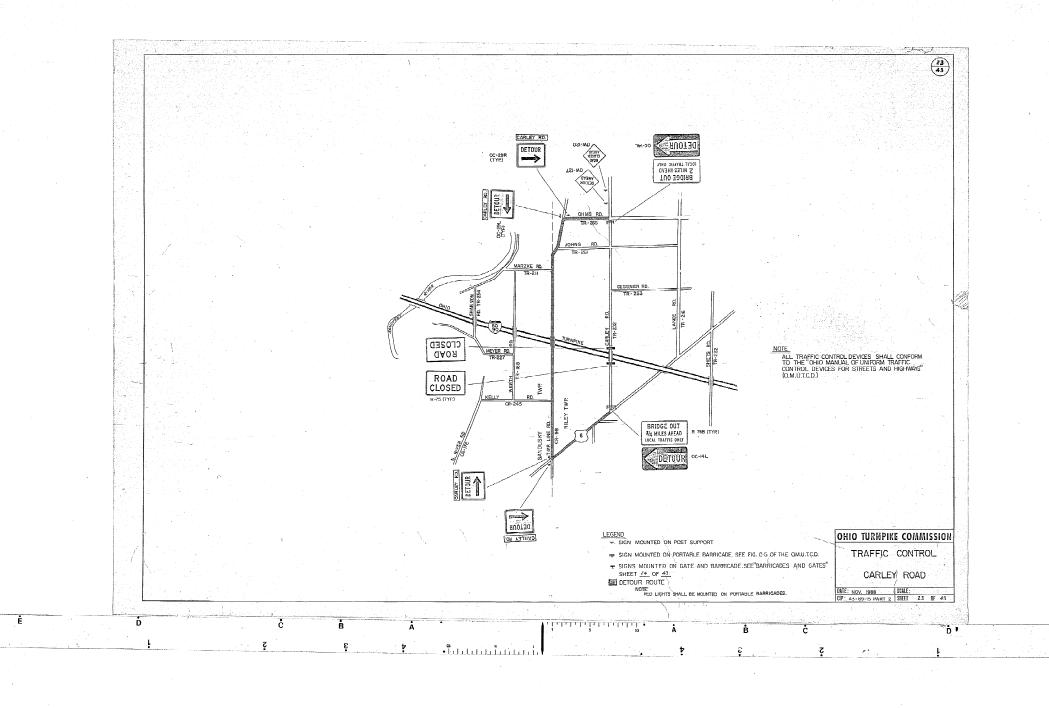


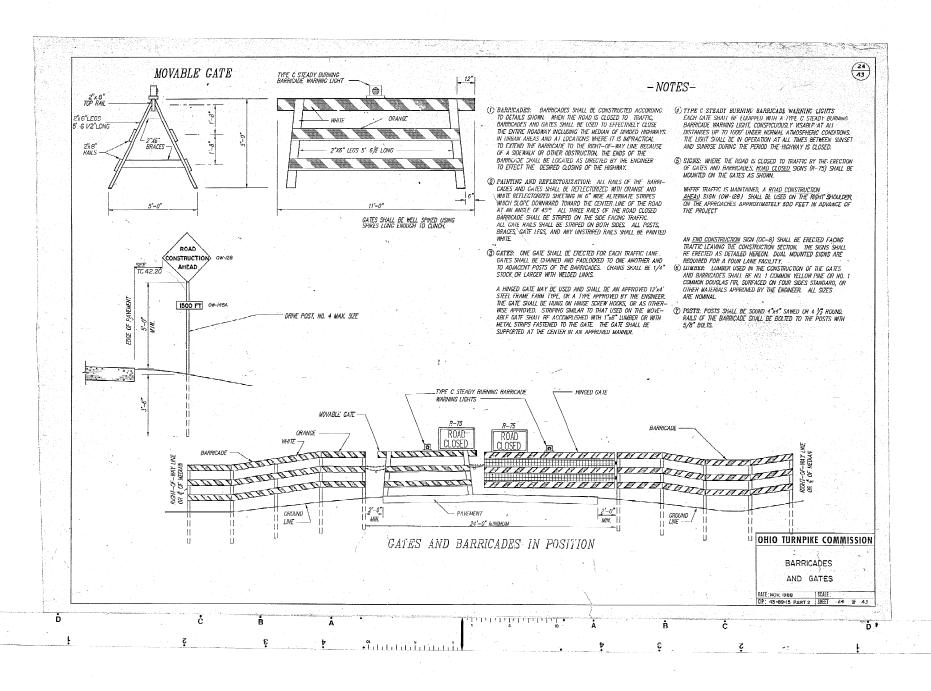


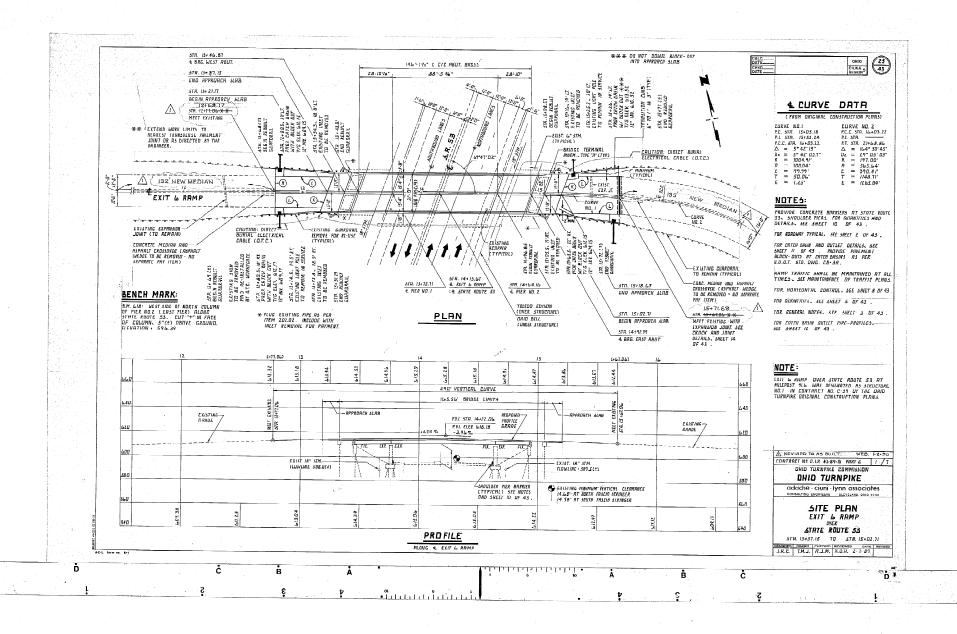


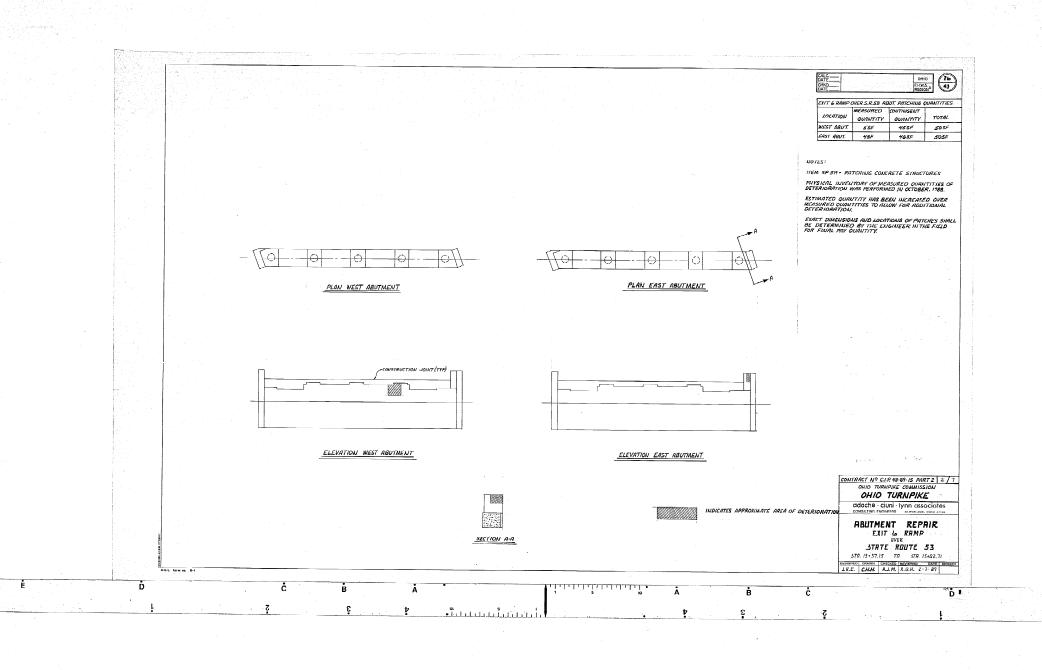


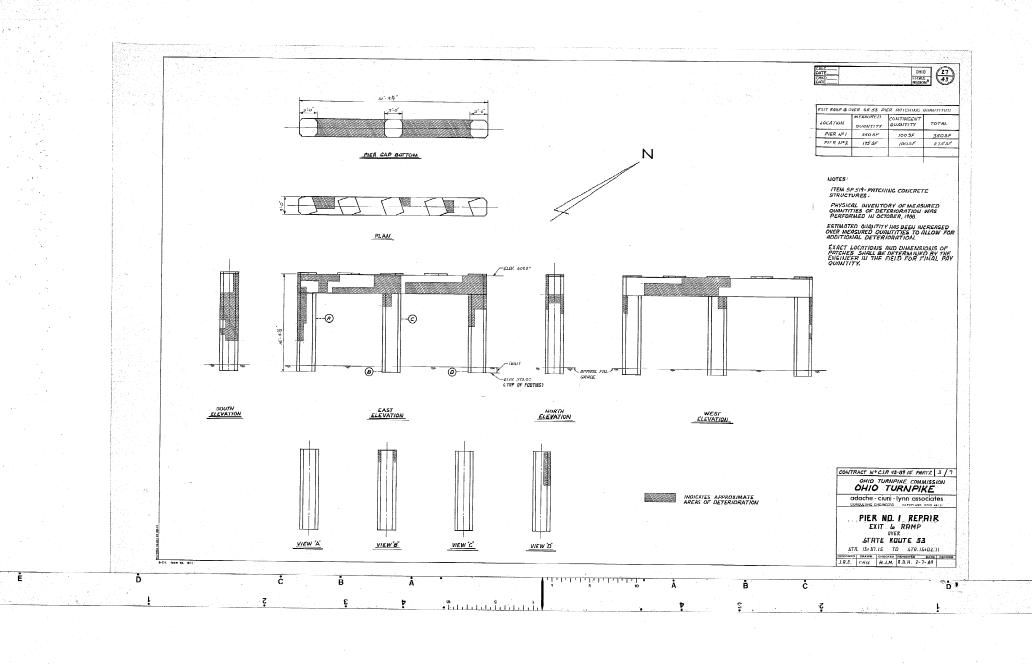


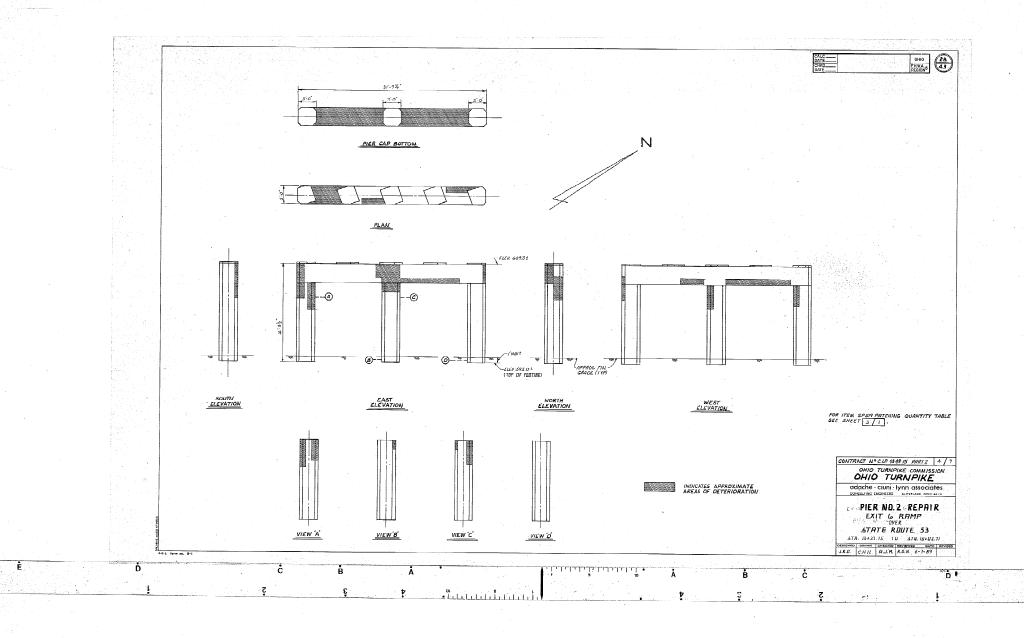


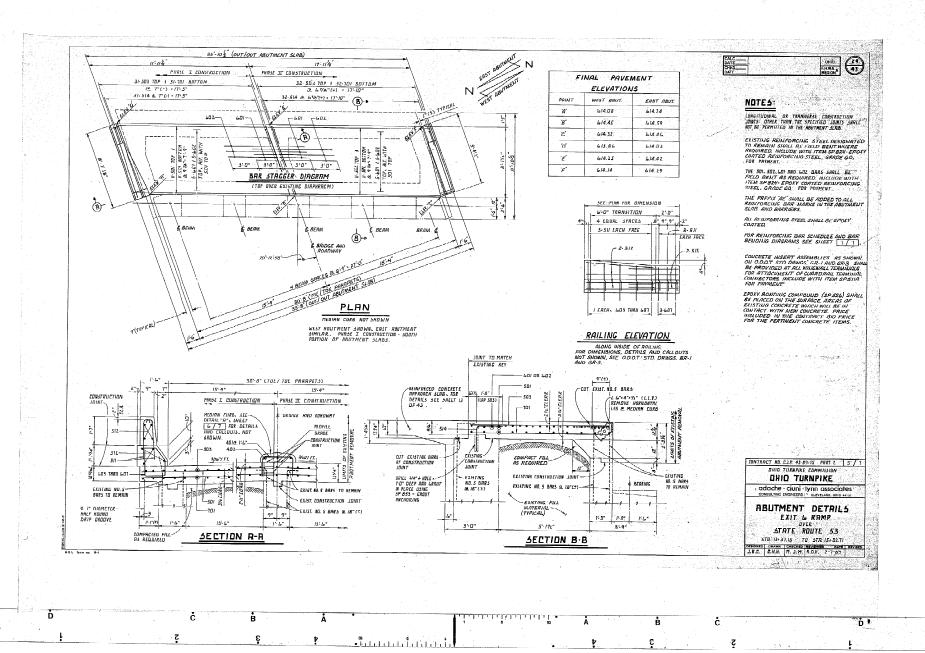


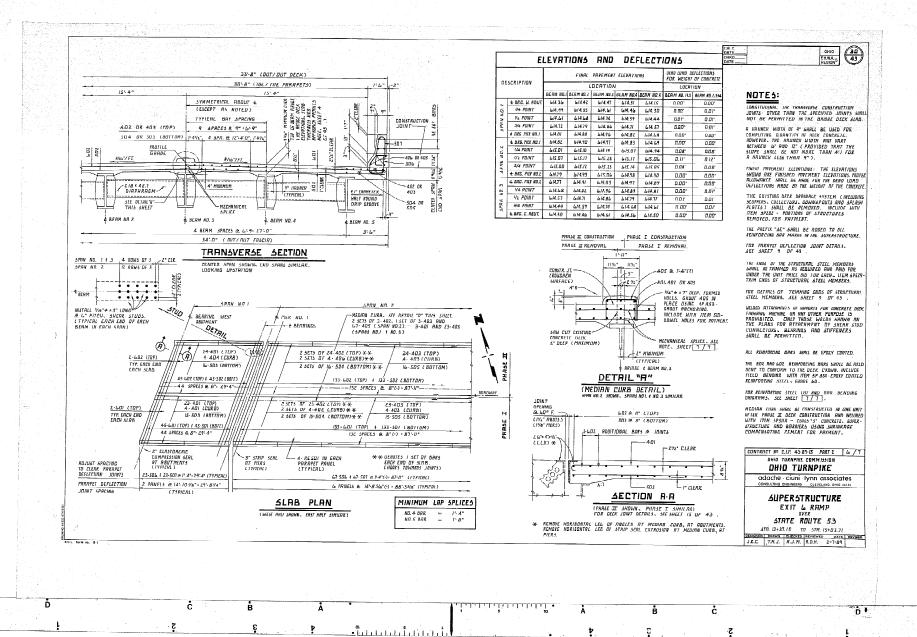


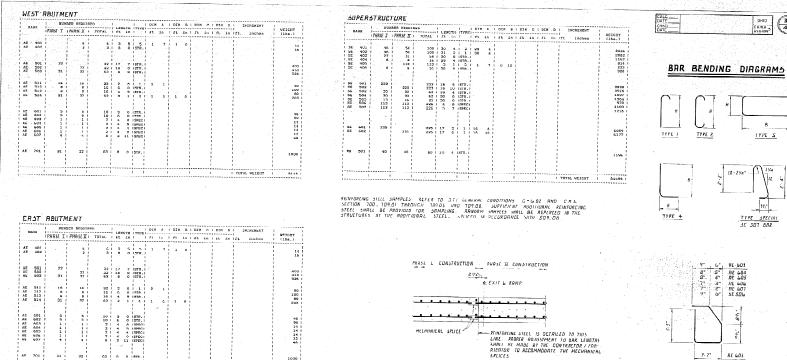












MECHANICAL SPLICE DETAIL

THE MICROWICH, SPLITE SYSTEM SHOLL BE COPHOLL OF DEVELOPME 125 PERCENT OF THE VIELD STEEDERS OF THE SYSTEM OF THE

THE MECHRNICAL SPUTCE SYSTEM SHALL BE INFILIDED WITH ITEM SPREAM - EPOXY CORFED REINFORCING STELL, GRADE 6D. TOR PRYMENT. NO SEPRENTE PRIMENT SHALL BE RILDWED THREEF.



TYPE Z

CONTRRCT NO. F.I.F. 43-89-15 PART 2 7 / 7
DHID TURNPINE COMMISSION
DHID TURNPIKE

(3) (43)

OHIO EH.WA.5 REGIONS

TYPE 5

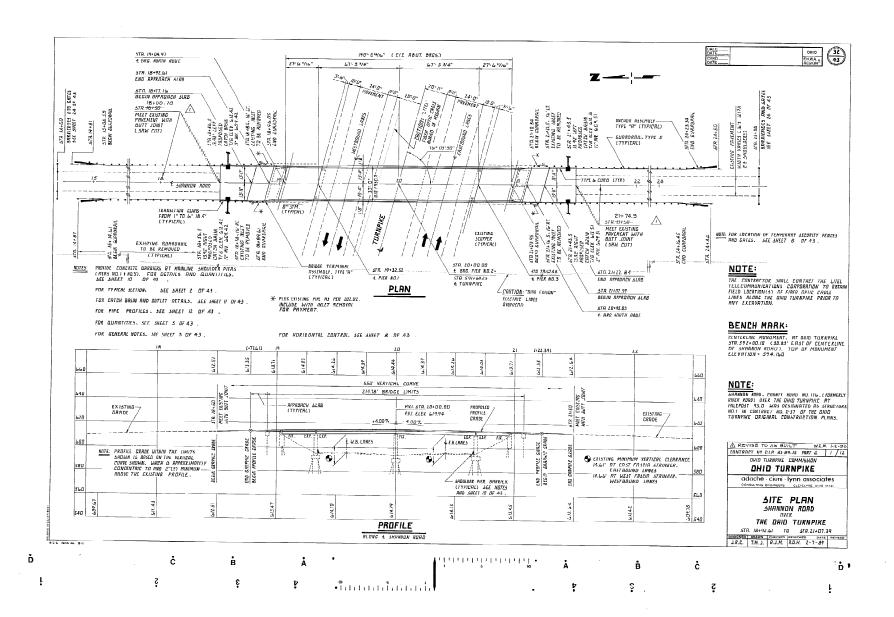
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adache ciuni lynn associates

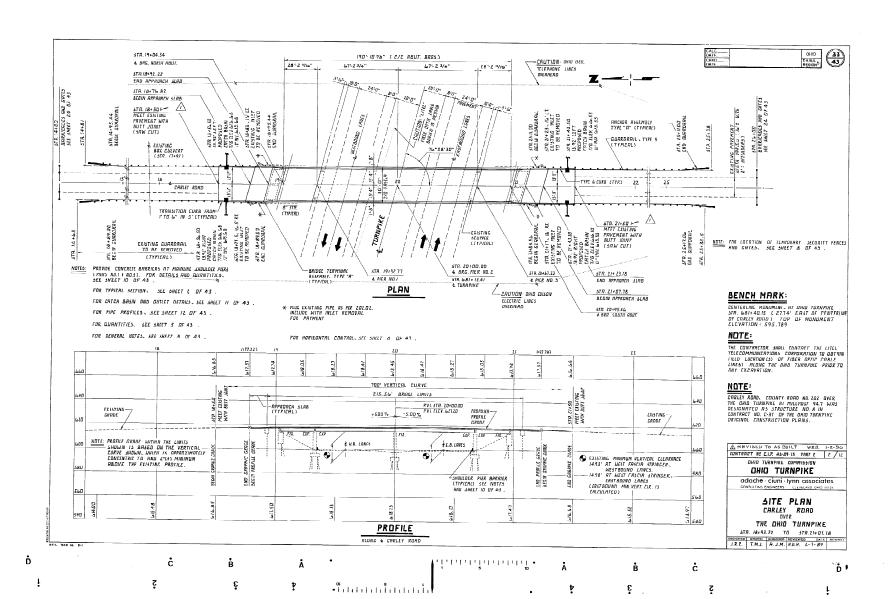
REINFORCING SCHEDULE EXIT & RAMP OVER STATE ROUTE 53

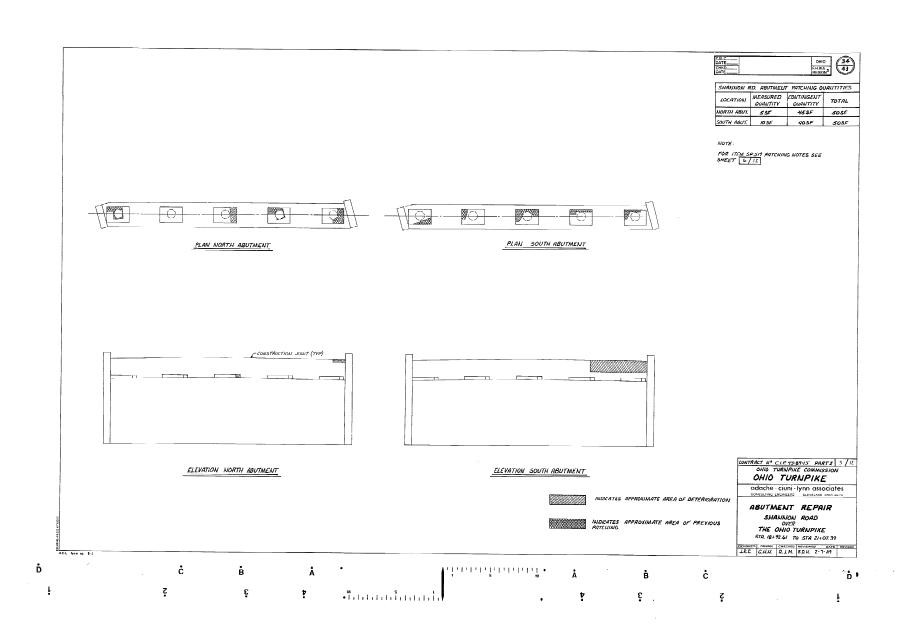
STR. 13+31.15 \* TO STA. 15+ D2 T/ J.R.C. T.M. J. R. J.M. R.B.H. 2-1-89

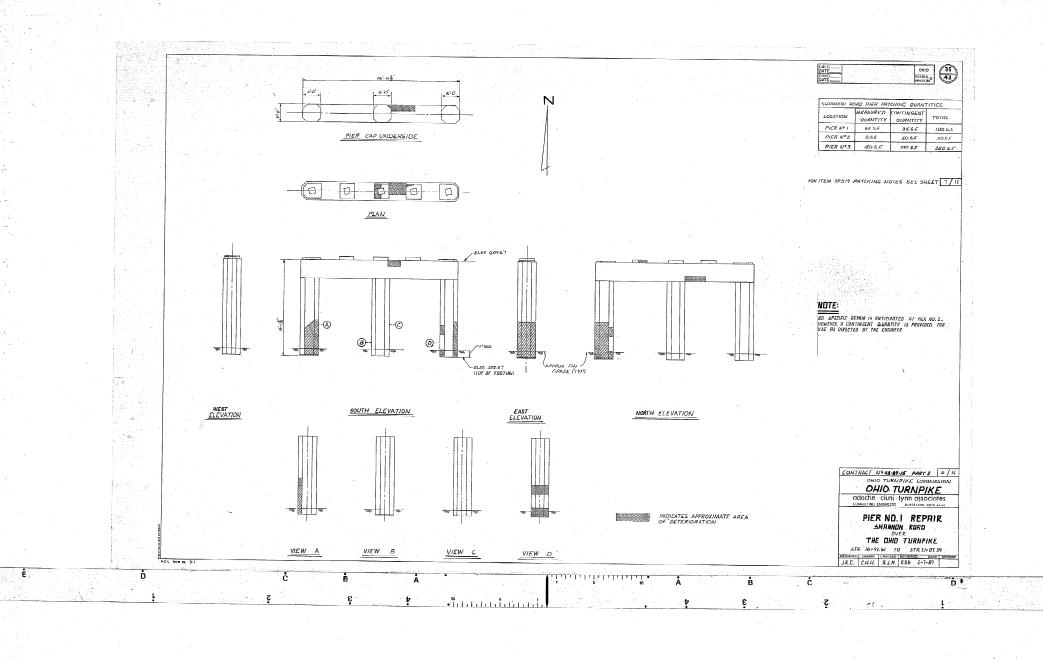
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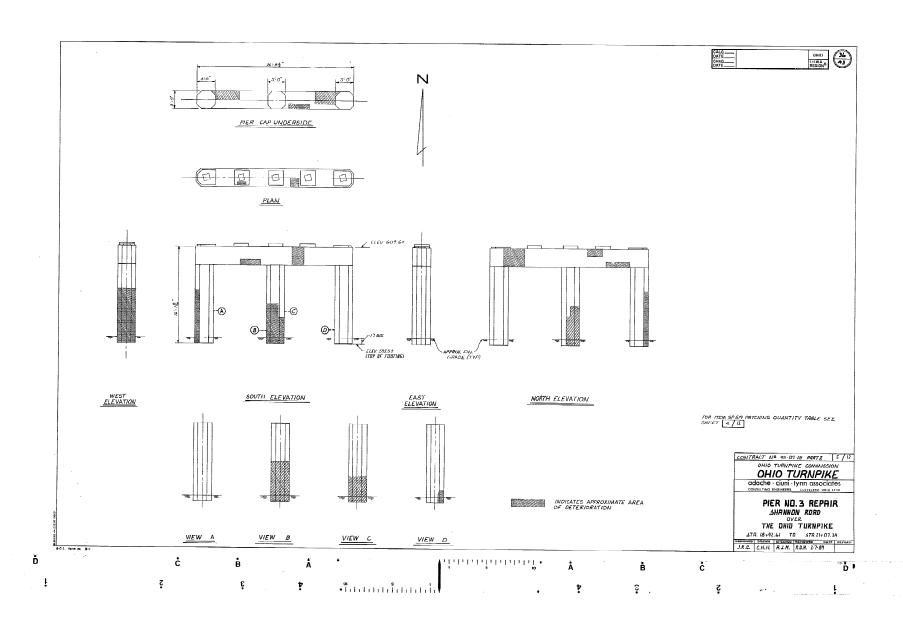


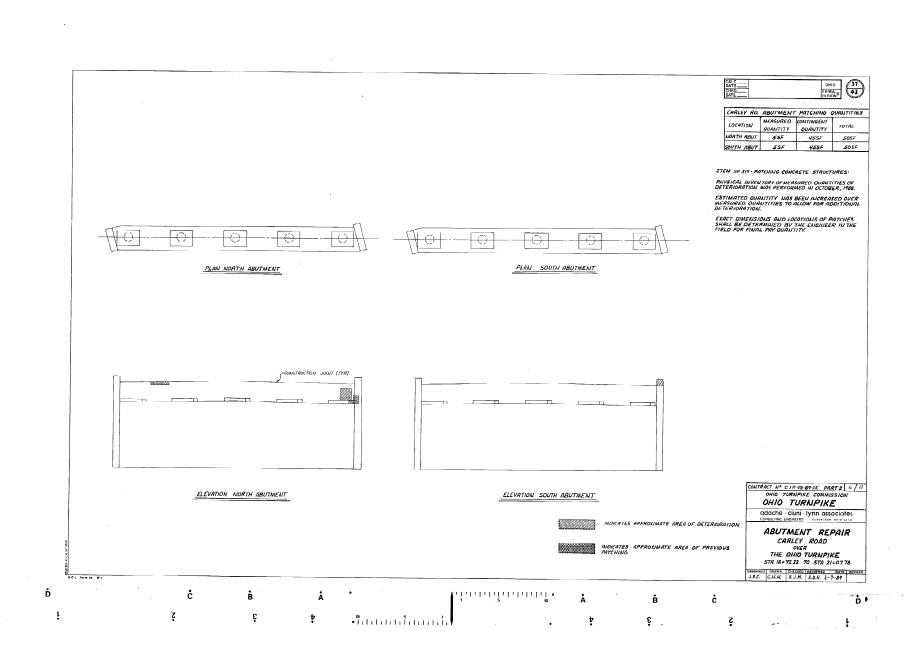
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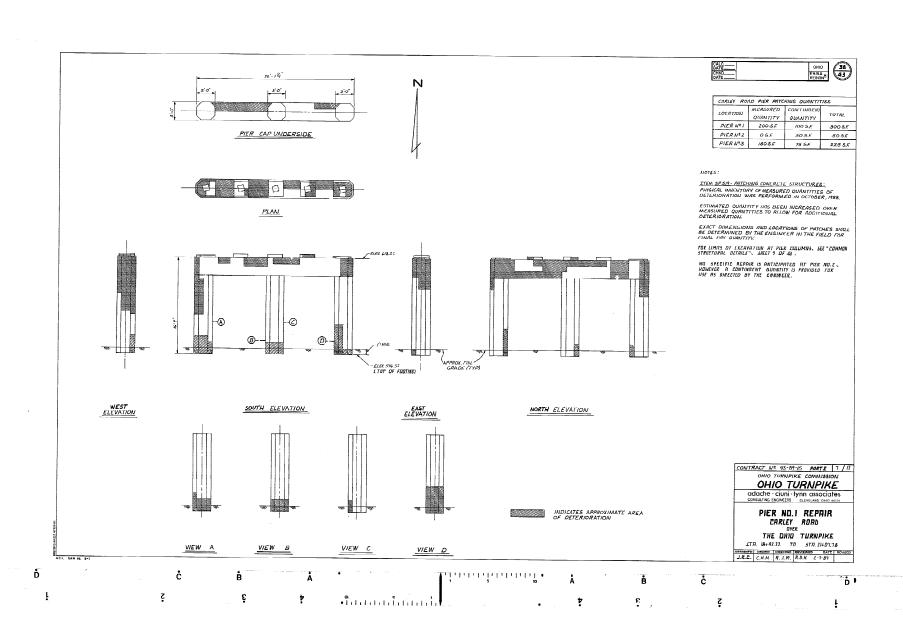


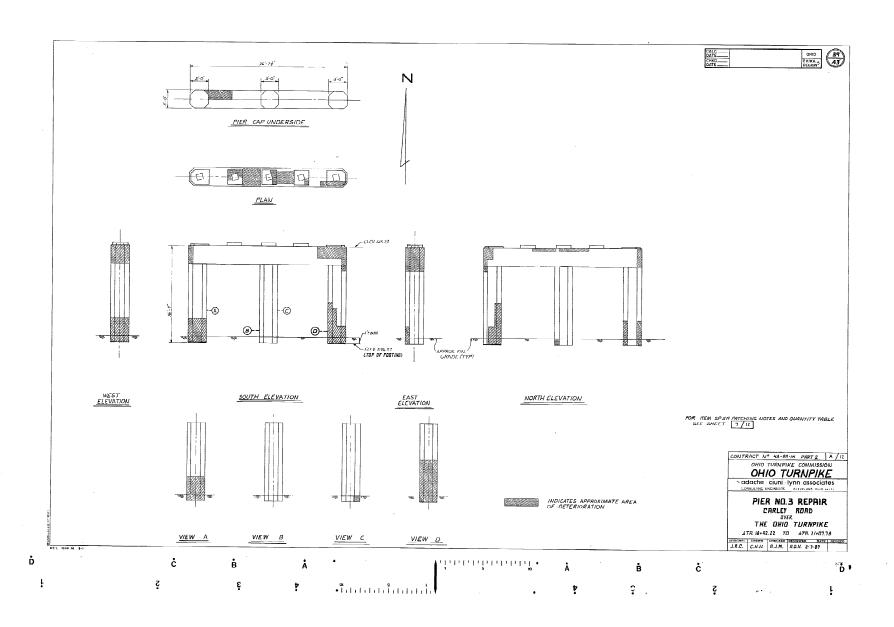




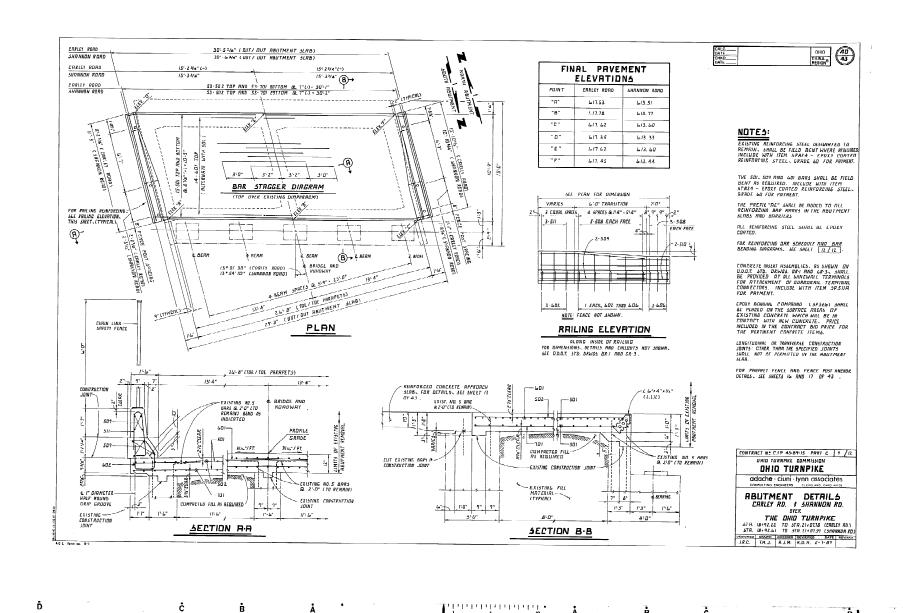






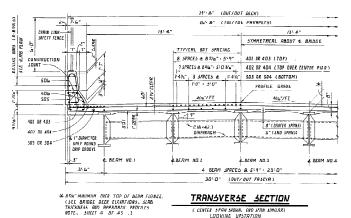


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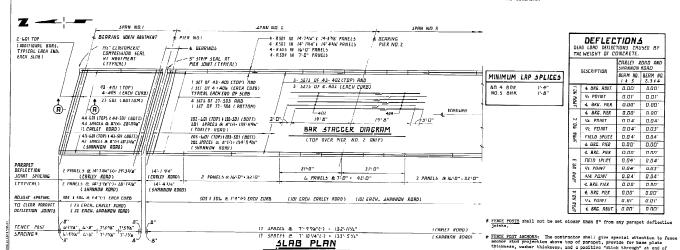


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		F	INAL	PAVE	MEN	r EL	EVAT	10N 5			
DESCRIPTION		CARLEY RUAD					SHAMMON ROAD				
		BERM NO!	BERM NO.2	BEAM NO.3	BEAN NO.4	BERM NO. 5	BERM NO.I	BERN NO. L	BERM NO.3	BERM NO. 4	BERM NO.
SPRA! NE.	£ BRG. PBUT.	LIT.LL	L17.73	617.80	617.69	617.58	613.64	613.71	613.78	613.67	6/3.56
	72 POINT	617.83	617.90	617.91	617.87	617.76	6.13.81	L13.88	613.96	613.85	613.74
	4. BRG. PIER	617.91	618.05	618.12	618.02	617.92	6/3.95	614.03	6/4.10	6/4.00	613.90
SPRW NG. 2	4. BRE. PIER	617.98	618.D5	618.13	618.03	617.93	613.96	614.04	614.11	614.01	613.91
	V4 PDINT	618.11	618.19	6/8.27	618.17	6/8.07	614.10	L14.18	6/4.16	614.16	614.06
	Vz POINT	618.20	618.29	618.37	618.27	618.18	614.19	614.18	6/4.36	LM.26	614.16
	FIELD SPLICE	618.26	6/8.35	618.44	618.34	6/8.25	614.25	614.34	614.43	6/4.33	614.24
APRIV N.E. 3	& BRC. PIER	618.27	418.36	618.45	618.3b	618.27	614.26	614.35	614.44	6/4.35	6/4.26
	FIELD SPLICE	618.25	618.34	618.44	618.35	618.26	414.24	6/4.33	6/4.43	614.34	In14.25
	1/1 PDINT	618.18	618.27	6/8.37	4/8.29	L18 7D	la 14. 11a	L14 74	6/4.36	414.28	674.19
	3/4 PRINT	618.07	618.17	418.27	618.19	618.11	614.06	614.16	6/4.26	614.18	614.10
	4. BRS. PIER	617.93	6/8.03	6/8./3	618.85	6/7.48	L/3.9/	614.BI	6/4//	614.04	613.96
SPRN NO.4	& BRG. PIER	617.92	618.DZ	618.12	4/8.05	611.97	L-13.90	L-14.00	614.10	6/4.D3	613.95
	V2 PDINT	617.76	611.87	617.97	6/7.90	617 83	613.74	6/3.85	613.96	1-13.88	613.8/
	♣ BRG. RBUT.	617.58	617.69	617.80	617.73	617.66	6/3.56	6/3.67	6/3.78	6/3.7/	6/3.64

TIMESH FRIMMENT CLEVATIONS: THE ELEVATIONS SHOWN FOR FINISHED PHYEMENT ELEVATIONS. PROFEE
BUILDHINGS SHOWN FOR THE CARD LORD DEFLECTIONS CHOSED BY
THE MULBER OF THE CONCRETE.



L NORTH HALF SHOWN, SOUTH HALF SIMILAR

## NOTE5:

IONGITUDING OF TROMIVERSE CONCERNICATION IDINTS: OTHER THAN THE SPECIFIED JOINTS
SHALL NOT BE PERMITTED IN THE SUPERSTRUCTURE DEEK SLAB.

A HAUNCH WIGTH OF 9" SMALL BE USED FOR COMPUTING BUDNITY OF DICK FONCESS. MOMEKER. THE HANNCH WIGHT MAY VARY ESTMEN W" WHO IZ" (PROVIDED THAP THE SLOPE SHALL BE NOT MORE THAN 4-1 FOR A HAUNCH LESS THAN "".

FOR SECTION N.A. SEE SHEET II / 12

FOR ADDITIONAL DETAILS AND NOTES, SEE SHEET 11 / 12.

HIL KEINFORCING BARS SHALL BE EPOXY COATED.

THE PREFIX "5E" RIND "RE" SHHLL BE ADDED TO BLL REINFORCING BAR MARKS IN THE SUPER-STRUCTURE AND THE RAILING, RESPECTIVELY.

THE SUI HND GOI REINFORCING BARS SHALL BE FIELD BENT TO CONFORM TO THE DECK CROWN. INCLUDE FIELD BENDING WITH ITEM 824 - EPOX.

FOR REINFORCING STEEL SCHEDULE HND BHR BENDING WHERRMS. SEE SHEET 12/12.

FOR PARAPET DEFLECTION JOINT DETRILS.

FOR EXPANSION JOINT DETRILS. SEE SHEET 15

FOR PARAPET FENCE AND FENCE POST ANCHOR DETAILS. SEE SHEETS 16 AND 17 OF 43

EONTRRET Nº C.LP. 43-89-15 PRRT 2 10 / 12 DUID TURNPIKE COMMISSION

OHIO TURNPIKE

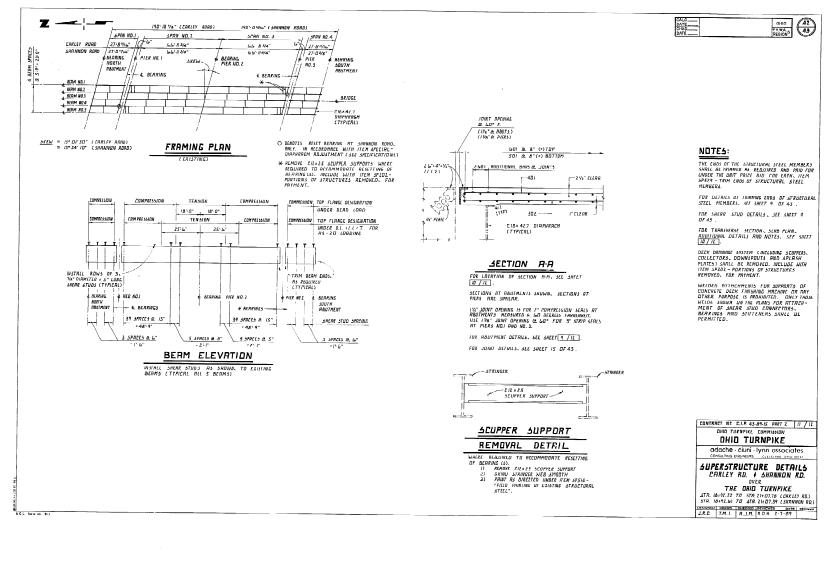
adache - ciuni - lynn associates CONSULTING ENGINEERS | CLEVELAND ONIO 4413

**SUPERSTRUCTURE** CARLEY RD. \$ SHANNON RD.

THE DHID TURNPIKE 4TR. 18+72.22 TO STR. 21+01.78 (CRRLEY RD.) 5TR. 18+72.61 TO 4TR. 21+07.39 (SHRNNON RD.)

ESIGNED DRAWN CHECKED REVIEWED DATE REVISED

J.R.C. T.M.J. R.J.M. R.D.H. 2-7-89

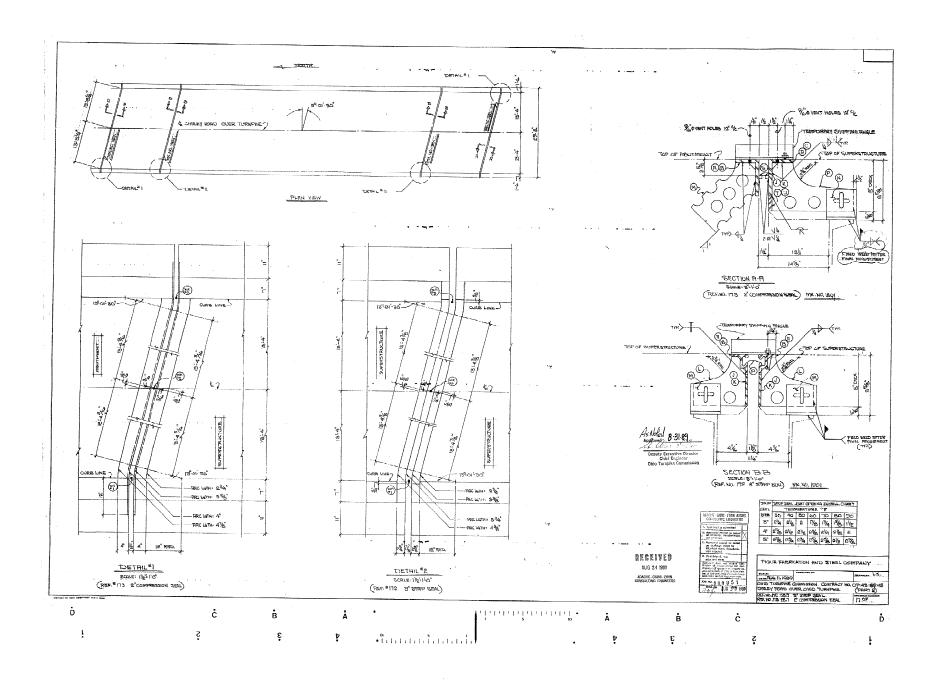


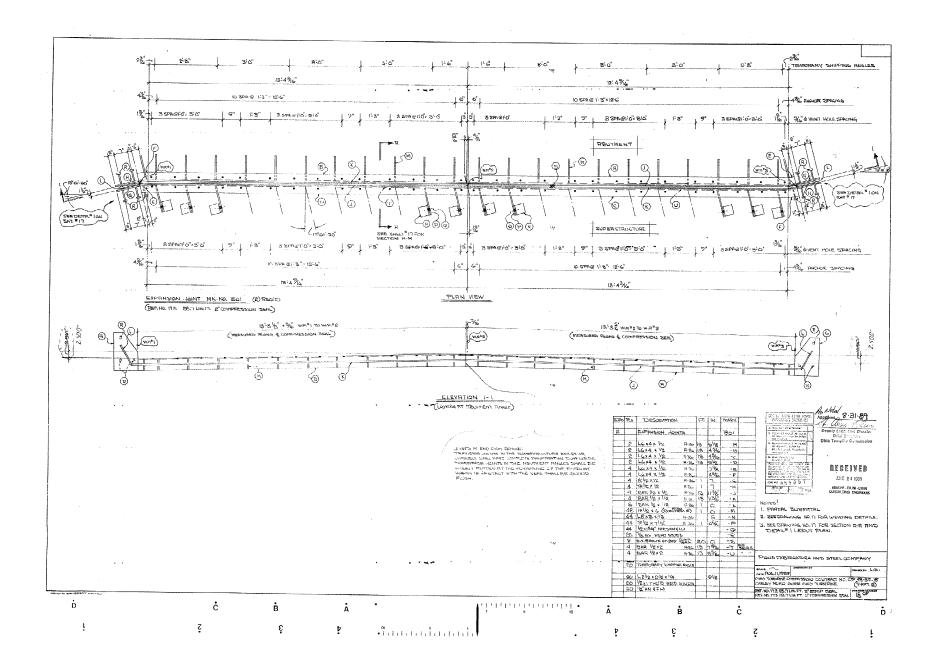
## OHIO FH,WA 5 REGION<sup>5</sup> CARLEY ROAD SHANNON ROAD ABUTMENTS RBUTMENTS | NOWHER REQUIRED | | DIM a | DIM a | DIM c | DIM D | INCREMENT | NORTH | SOUTH | TOTAL | ft in | ft i BAR BENDING DIRGRAMS 60 1 30 1 15TR.1 1888 1 AE 508 | 1 AE 509 | 1 AE 510 | 32 : 16 : 16 : 32 16 16 6 392 8 112 1 26 1 26 1 24 1 94 1 19 1 8 1 2 1 2 1 2 1 8 1 601 602 603 604 605 392 | 112 | 26 | 26 | 26 | 21 | 94 | В TYPE I TYPE 2 TYPE 5 5330 2317 6724 J7%"\_ TYPE 4 TYPE SPECIAL SUPERSTRUCTURE SUPERSTRUCTURE RE SUL 4 SESTION NAME | NUMBER | DIM A | DIM B | DIM C | DIM D | IMPREMENT METGHT (1bs.) 1719 3988 1446 420 309 264 | SE 401 | | SE 402 | | SE 403 | | SE 404 | | SE 405 | 1680 3988 1496 420 302 262 AE 601 RE 603 RE 604 RE 605 501 502 503 504 505 506 9099 1629 9979 562 1431 1384 SE 501 | SE 502 | SE 503 | SE 504 | SE 505 | SE 505 | 9093 1591 3379 596 1421 1574 14251 14241 501 502 503 504 501 502 503 504 RE 603 RE 604 RE 605 BE WILL I TOTAL WEIGHT | 41519 1"- 2" 5E 5D5 TYPE SPECIAL NOTE: CONTRACT Nº C.I.P. 43-89-15 PRRT 2 12/12 NUTE: KHWIKEND SHELL SHWELD REES TO 200 SERVER, TOROTHORS, SHOULD BUR O'M SHELLUM 100, 100 0' THOUGH TORISS SHOT TORIS, STOTE TOROTHORS, SERVERORME STELL AREL BE KRANDON TOR STOTEM, SHOWN SHAMELD SHELL BE KERLOKEN IN THE STRUTUKE BY THE HOUTINAME STELL SPLEED IN RECORDINATE WITH SOROED IN THE DHIU TURNPIKE COMMISSION OHIO TURNPIKE adache ciuni lynn associates REINFORCING SCHEDULE ERRLEY RD. # SHRNNON RD. DUR THE DHID TURNPIKE SIN ME-VILLE TO STO 21-0718 (CARLEY RD.) STO ME-VILLE TO STO 21-0718 (CARLEY RD.) DESIGNED DNAWN CHECKED REVIEWED DAVE REVINED J.R.C. T.M.J. R.J.M. R.D.H. 2-7-89

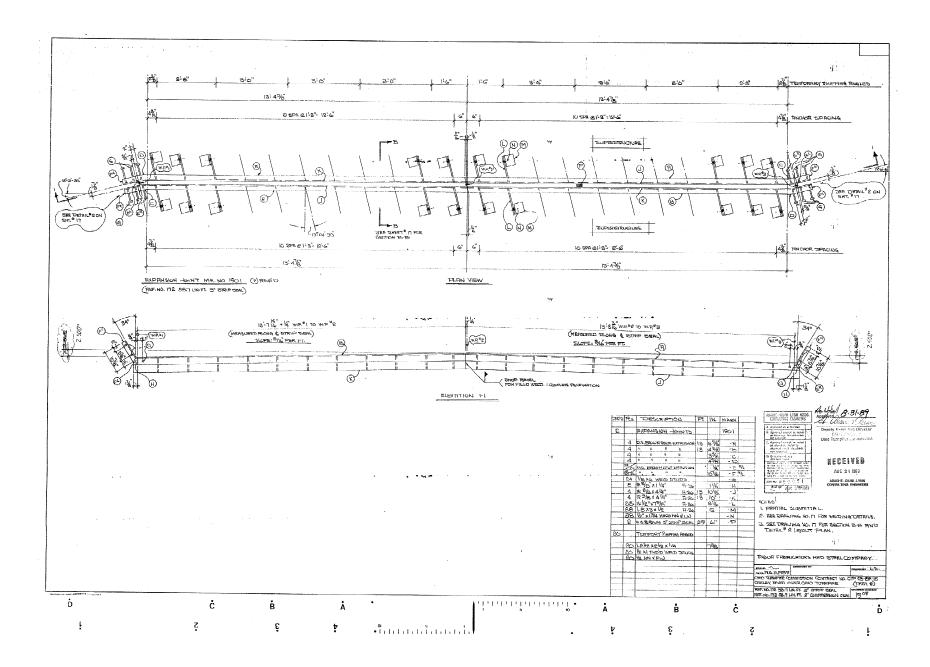
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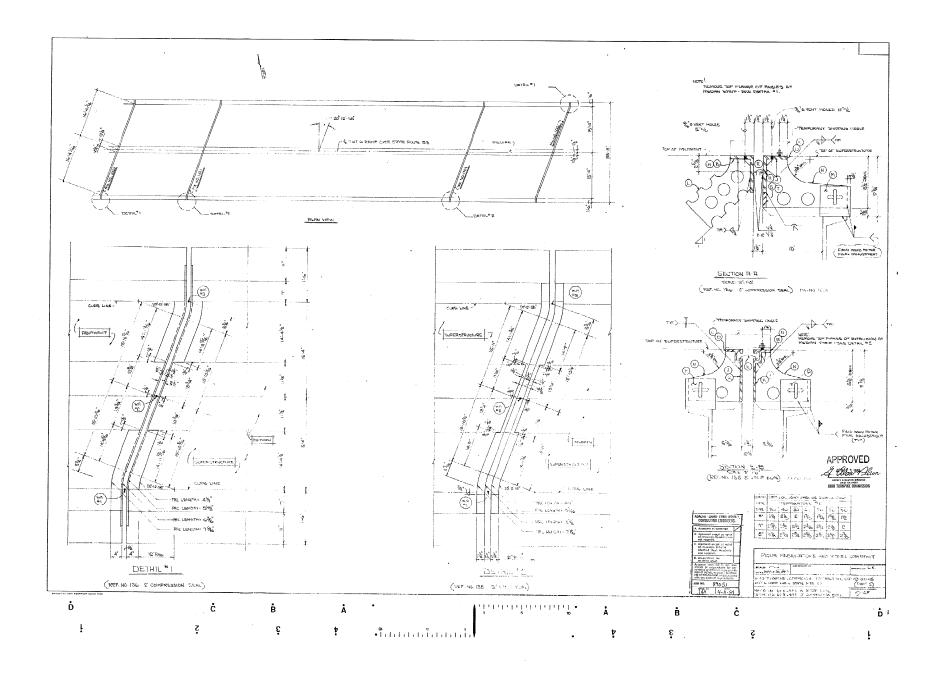
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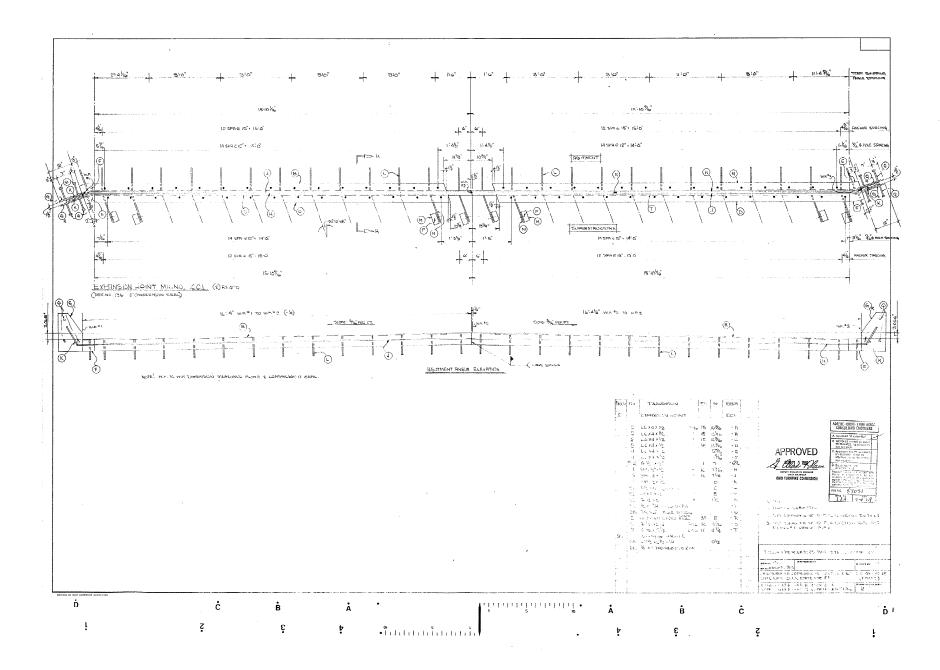


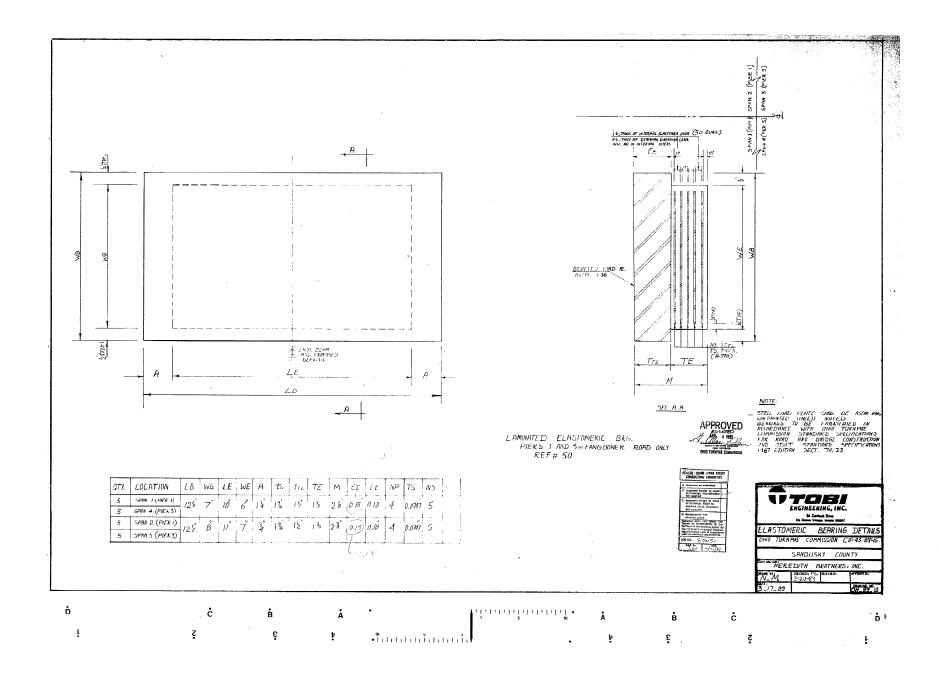




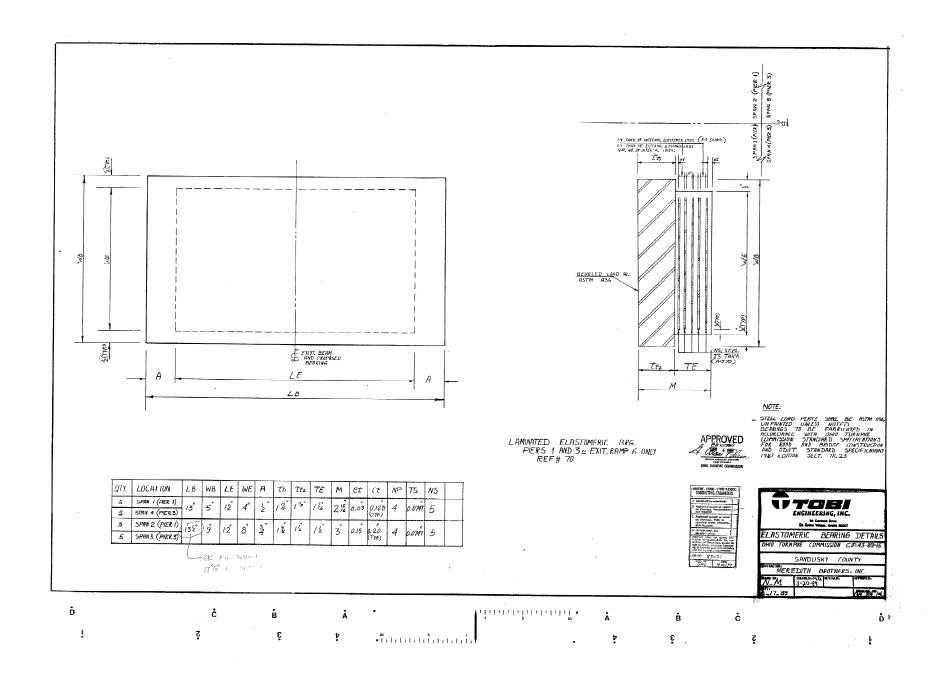
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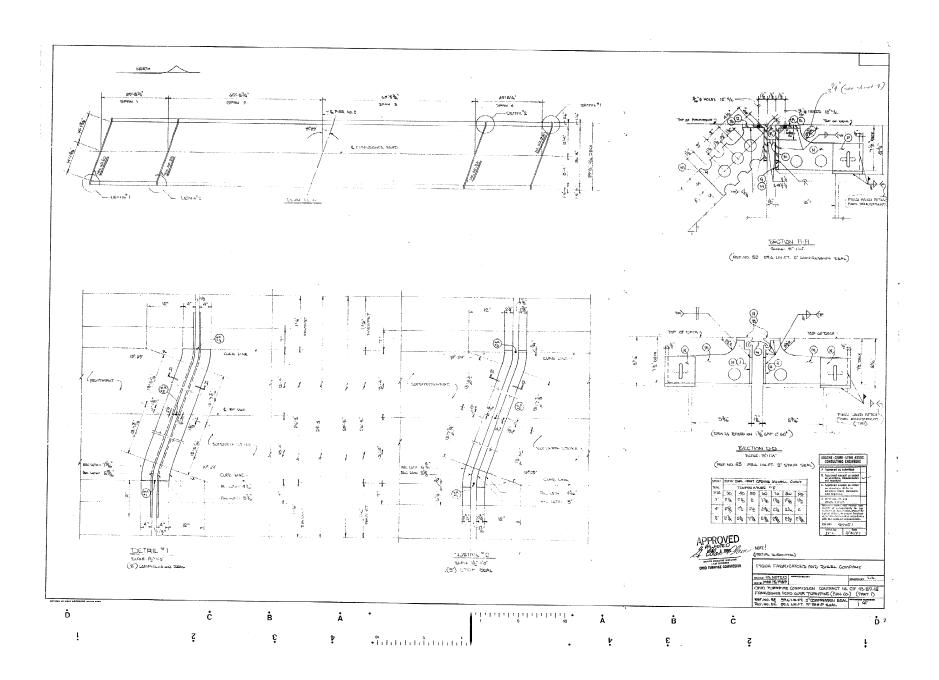


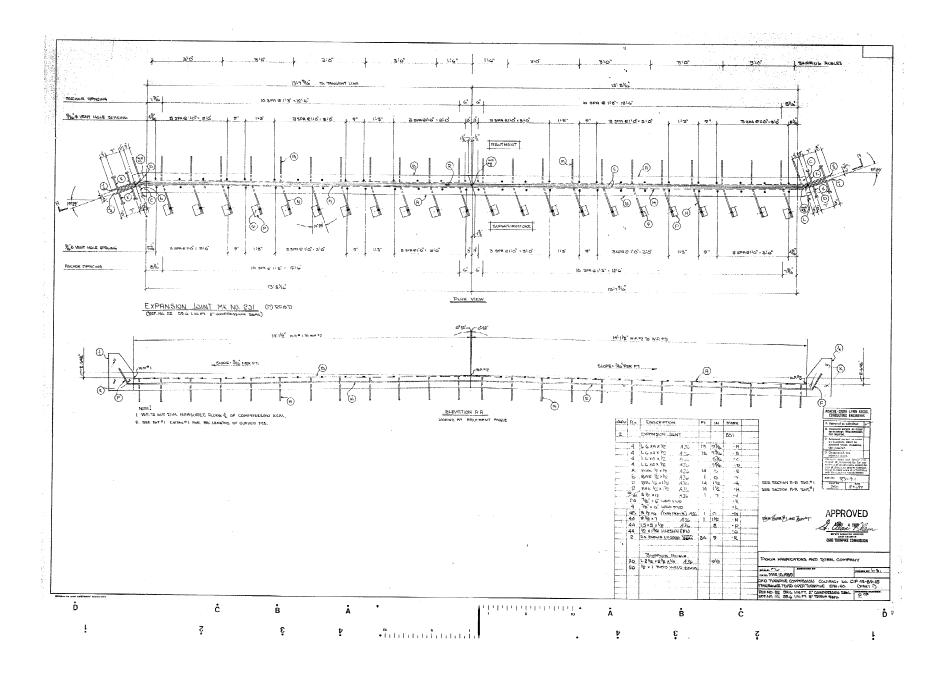


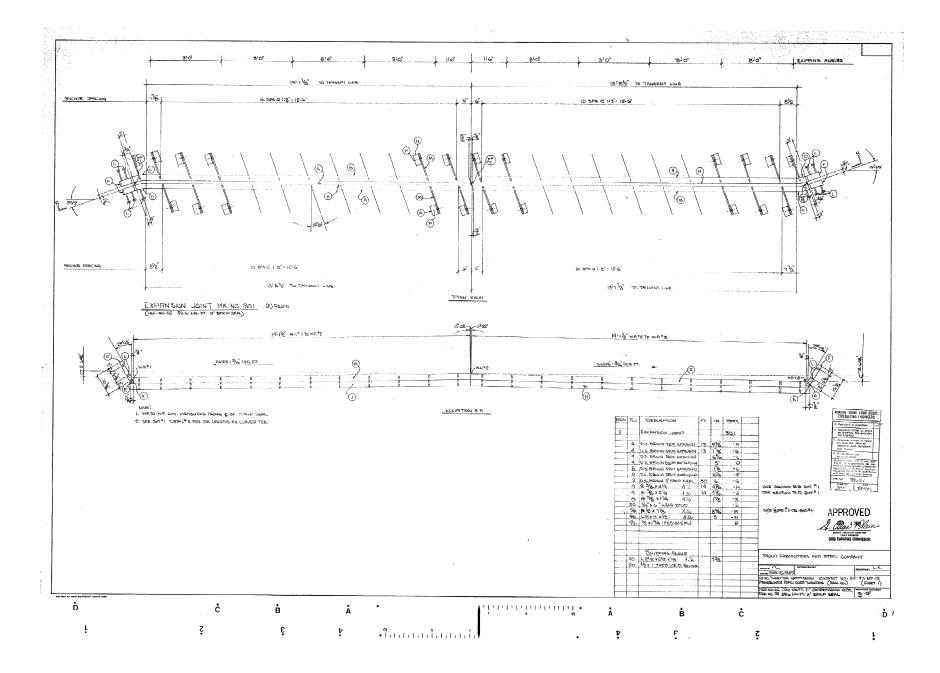
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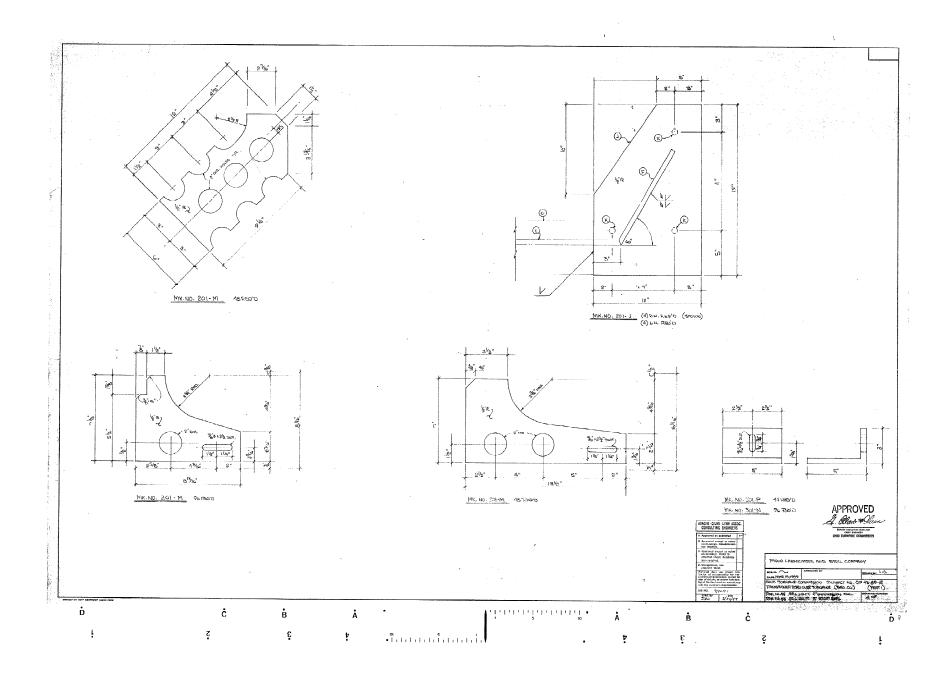


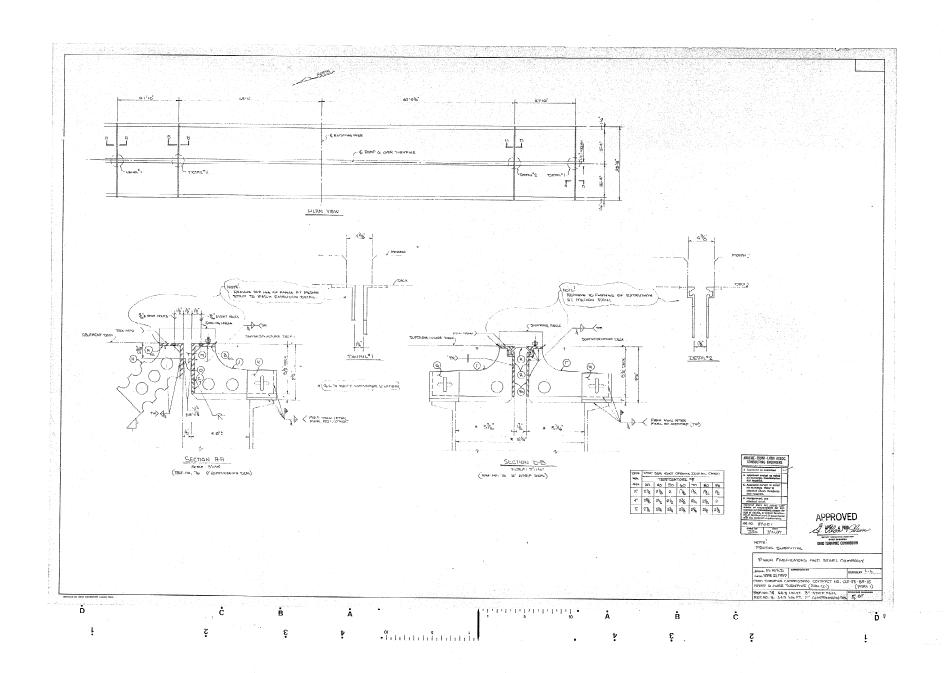
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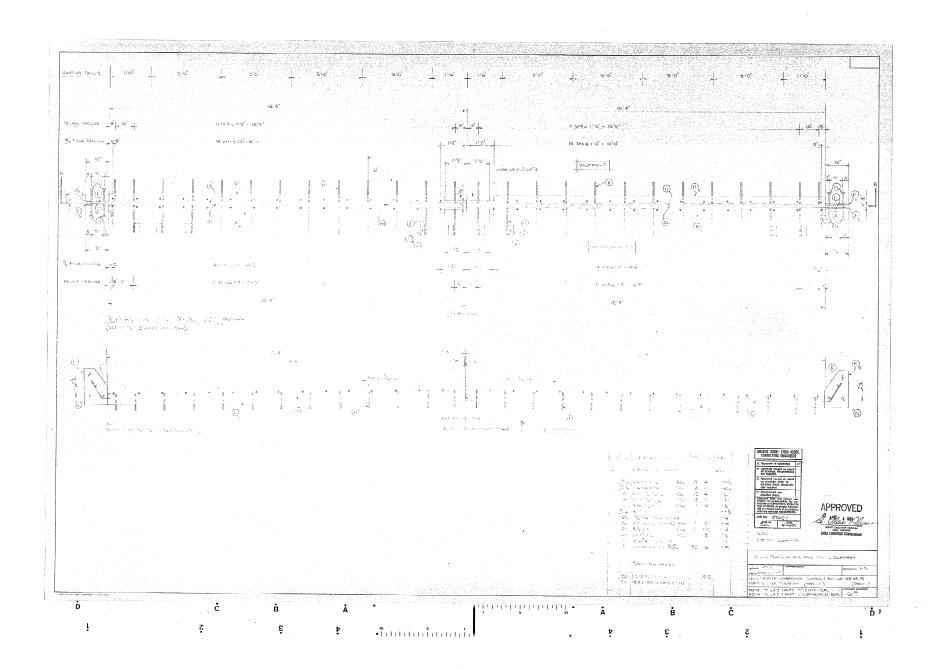


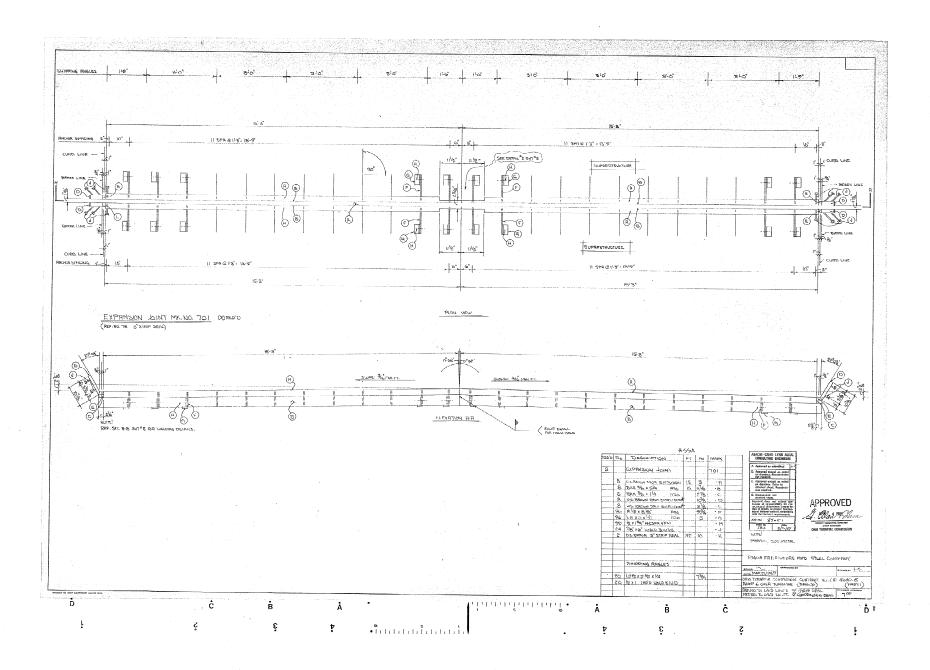


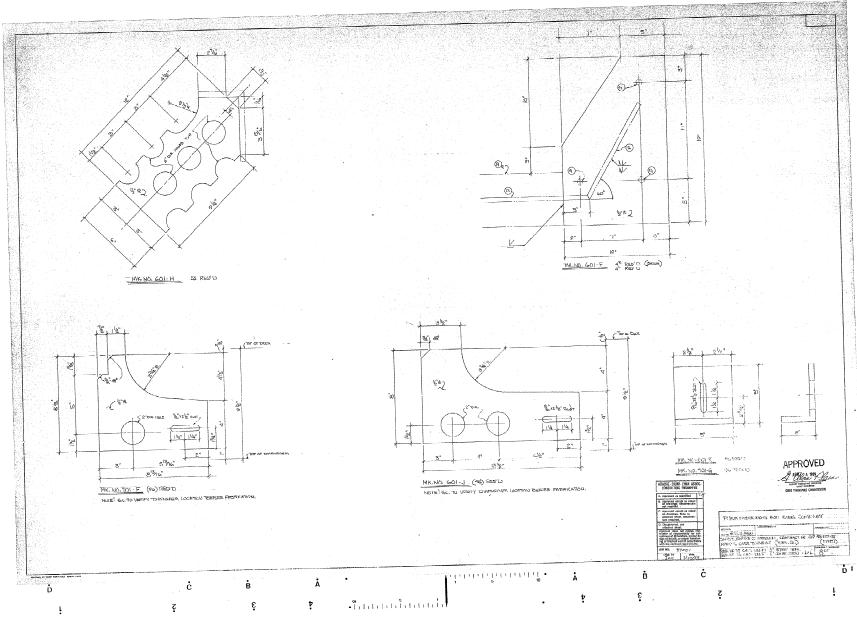




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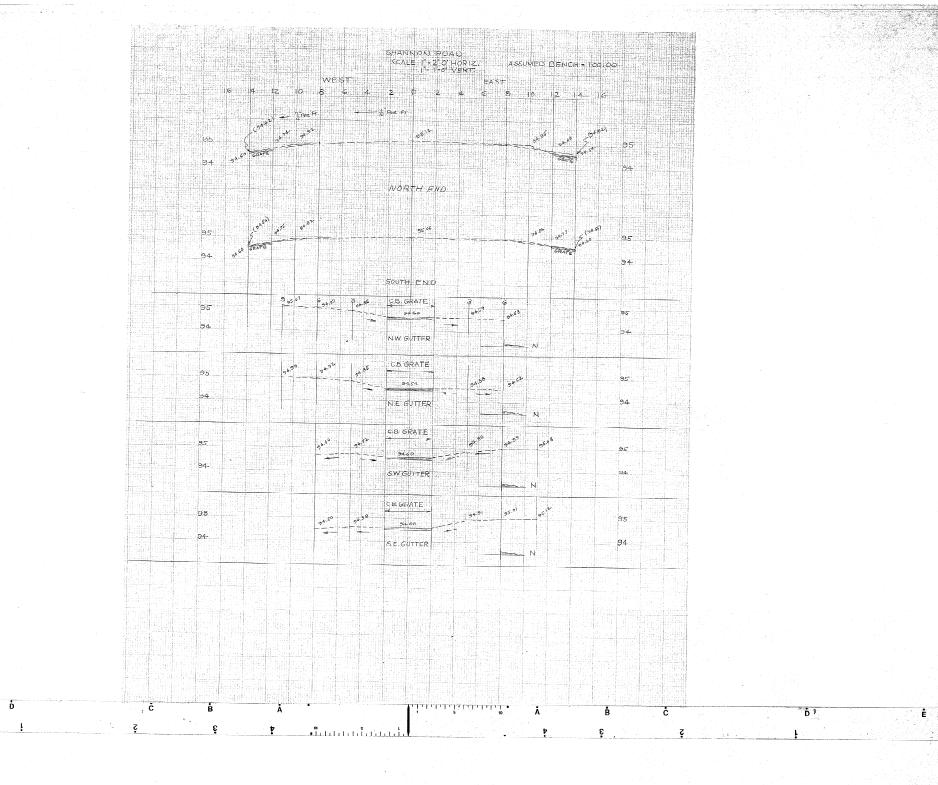




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## OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1
DESIGN SECTION D-12

CONTRACT NO. C-37
TURNPIKE CONSTRUCTION CONTRACT
STATION 557+52 TO STATION 770+00



APPROVAL RECOMMENDED BROWN & BLAUVELT CONTRACTING ENGINEER Houses a Blauvelt

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J. E. GREINER CO.
CONSULTING ENGINEER

J. Sentino 7

5-25-53

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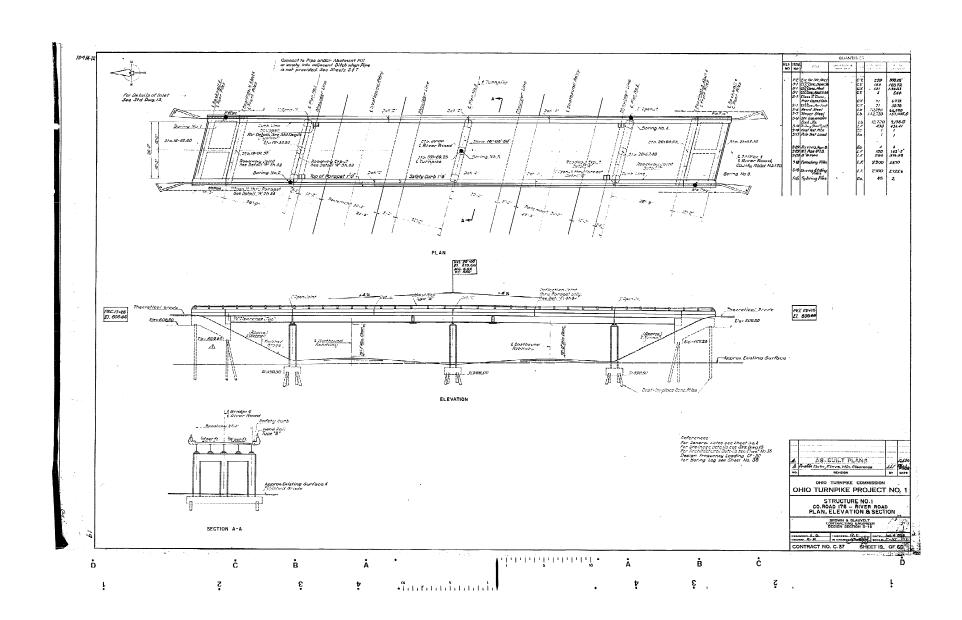


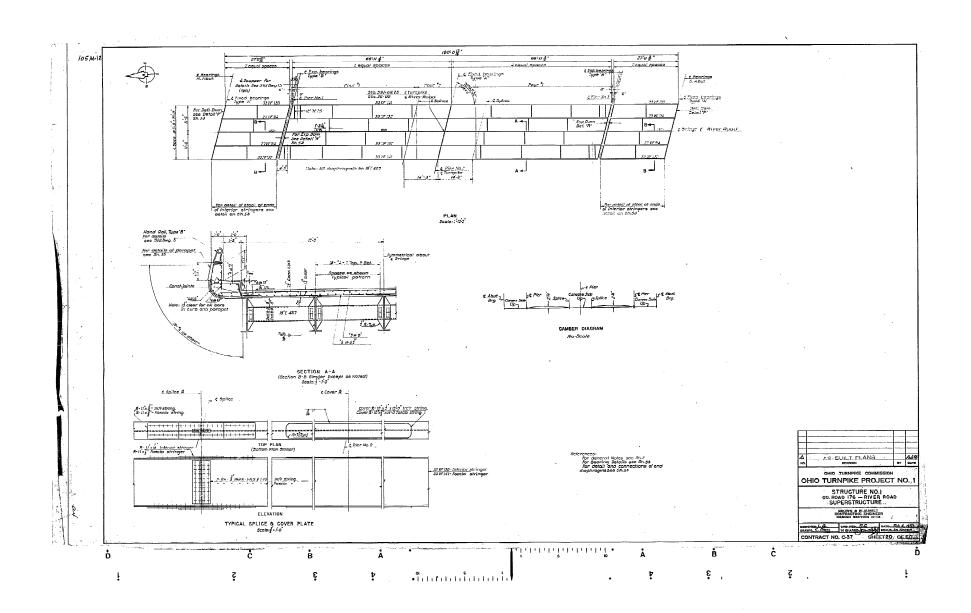
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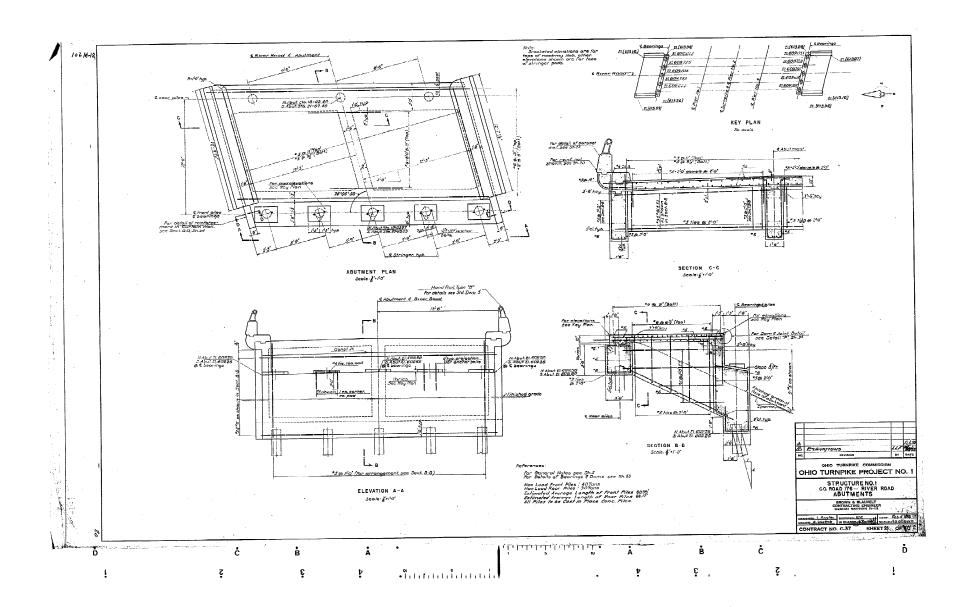
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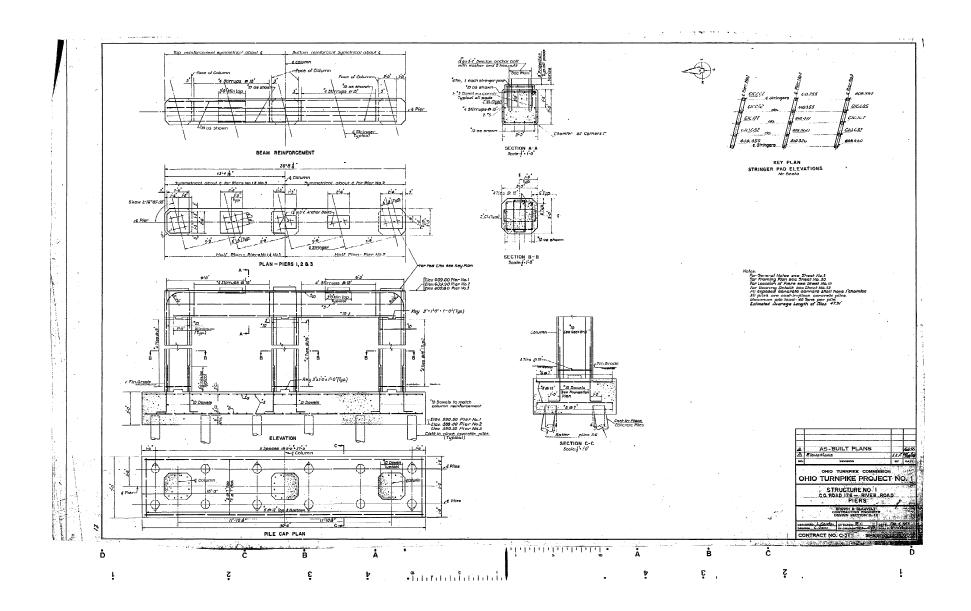
CONTRACT NO. C- 87 COUNTY - SANDUSKY

STRUCTURE \*5 TURNPIKE OVER BARK CREEK . I LIST OF DRAWINGS 50 SUPERSTRUCTURE 2 GENERAL NOTES AND LEGEND 31 PLAN, ELEVATION AND SECTION 51 ABUTMENT 3 MAINTENANCE OF TRAFFIC MAP 32 SUPERSTRUCTURE 52 PIERS 4 SUMMARY OF ESTIMATES 33 ABUTMENT MISCELLANEOUS DETAILS 5 PLAN AND PROFILE STA. 556+75 TO STA. 576 + 00 34 PIER 6 PLAN AND PROFILE STA.576+00 TO STA.604+00 53 STRUCTURAL DETAILS STRUCTURE \*6 CULVERT 54 STRUCTURAL DETAILS 7 PLAN AND PROFILE RIVER ROAD 35 GENERAL PLAN AND DETAILS 55 ARCHITECTURAL DETAILS 8 PLAN AND PROFILE STA. 604+00 TO STA. 632+00 56 CROSSROAD AND DETOUR DETAILS 9 PLAN AND PROFILE WERTH ROAD STRUCTURE \*7 CULVERT 57 PAYMENT LINES AND SUPERELEVATION DETAILS 10 PLAN AND PROFILE STA, 632+00 TO STA,659+00 36 GENERAL PLAN AND DETAILS BORING LOGS II PLAN AND PROFILE TOWNSHIP LINE ROAD 58 STRUCTURES \*1,2,3,4 12 PLAN AND PROFILE STA, 659+00 TO STA, 687+00 59 STRUCTURES #4(CONCL) 5,6,7,8,9 13 PLAN AND PROFILE CARLEY ROAD 60 STRUCTURES \*9(CONCL.) IO,II 14 PLAN AND PROFILE STA.687 +00 TO STA.712+00 STRUCTURE \*8 CARLEY ROAD OVER TURNPIKE 15 PLAN AND PROFILE STA. 712+00 TO STA. 740+00 37 PLAN, ELEVATION AND SECTION STANDARD DRAWINGS 16 PLAN AND PROFILE STA. 740+00 TO STA. 767+00 38 SUPERSTRUCTURE REV. DATE 5-6-53 I TURNPIKE DITCH DETAILS IT PLAN AND PROFILE SHEETS ROAD 1-20-53 2 STANDARD HEADWALLS FOR PIPE SIZES 48" AND UNDER 39 ARUTMENT 18 PLAN AND PROFILE STA. 767+00 TO STA. 770+00 40 PIERS 1-20-53 3 STANDARD HEADWALLS FOR PIPE SIZES OVER 48" 5-6-53 4 TYPICAL ROADWAY SECTIONS STRUCTURE \* RIVER ROAD OVER TURNPIKE STRUCTURE \*9 TURNPIKE OVER STATE ROUTE (U.S. 6) 5-6-53 5 HANDRAIL DETAILS 19 PLAN, ELEVATION AND SECTION 41 PLAN, ELEVATION AND SECTION 5-6-53 6 INLETS AND CURBS 20 SUPERSTRUCTURE 42 SUPERSTRUCTURE 5-6'-53 7 MANHOLES 21 ABUTMENT 43 ARUTMENT 9-9-53 B PAVEMENT REINFORCEMENT AND DETAILS 22 PIERS 44 PIFRS 2-7-53 9 TRANSVERSE PAVEMENT JOINTS TYPE A 5-6-5310 TRANSVERSE PAVEMENT JOINTS TYPE B 12-31-52 | | PAVEMENT JOINT SPACING 5-6-6312 RIGHT OF WAY FENCE AND GATES STRUCTURE \*3 WERTH ROAD OVER TURNPIKE 5-6-53 13 RIGHT OF WAY INSTALLATION DETAILS 23 PLAN, ELEVATION AND SECTION 5-3-53 14 PERMANENT BARRICADE, PERMANENT MONUMENT AND DELINEATORS 24 SUPERSTRUCTURE STRUCTURE \*10 SHEETS ROAD OVER TURNPIKE 4-27-53 15 DRAINAGE DETAILS FOR TURNPIKE OVERPASSES AND UNDERPASSES 25 ABUTMENT 45 PLAN, ELEVATION AND SECTION 1-20-53 16 UNDERDRAINS 26 PIERS 1-24-53 17 GUARD RAILS TYPE A AND TYPE B 46 SUPERSTRUCTURE STRUCTURE #4 TOWNSHIP LINE ROAD OVER TURNPIKE 5-6-53 18 GUARD RAILS TYPE C AND TYPE D 47 ABUTMENT 27 PLAN, ELEVATION AND SECTION 48 PIERS 12-5-52 19 AGRICULTURAL TILE DRAINAGE - TYPICAL DETAILS 28 SUPERSTRUCTURE 1-6-53 20 FLOOD GATES FOR RIGHT OF WAY FENCE STRUCTURE #11 TURNPIKE OVER GREEN CREEK I- 23-53 21 TRANSVERSE PAVEMENT JOINTS - TYPE C 29 ABUTMENT 49 PLAN, ELEVATION AND SECTION 30 PIERS 2-19-55 22 CULVERT PIPE BEDDING AND BACKFILL OHIO TURNPIKE COMMISSIO OHIO TURNPIKE PROJECT NO. 1 LIST OF DRAWINGS ម្នាប់ពេកស្និកសម្នាក់ 🔹 Š Ė Ş ŀ

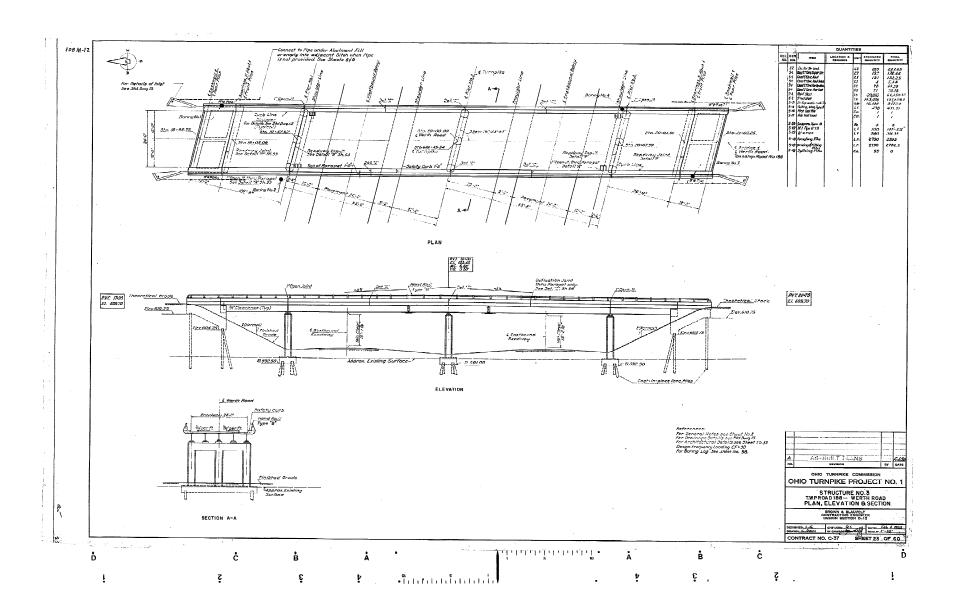








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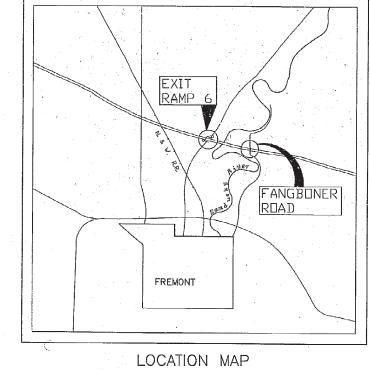
# OHIO TURNPIKE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE CONTRACT CIP 43-89-15 (PART 1) DECK REPLACEMENT TURNPIKE STRUCTURES

> FANGBONER ROAD OVER THE OHIO TURNPIKE M.P. 91.1 EXIT 6 RAMP OVER THE OHIO TURNPIKE M.P. 91.6

SANDUSKY COUNTY AL CONTRACT SECTION C-39

TITLE SHEET	INA
TYPICAL SECTIONS 2 TRAFFIC CONTROL 3-6 GENERAL NOTES AND CONCRETE PATCHING DETAIL 7 GENERAL SUMMARY 8 ROADWAY PLANS 9- CROSS SECTIONS 11-	8 42
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APPROVED FOR THE OHIO TURNPIKE COMMISSION

NOTE:

THIS CONTRACT IS COMBINED WITH CONTRACT CIP 43-89-15 PART 2 TO FORM A SINGLE CONSTRUCTION CONTRACT.



Portion to be improved Other Roads



# **SCALES**

1-30-84 CB 3A

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCT





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10	NC	DRAWIN	IGS		
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PLANS PREPARED BY:





Pierre F. O'Hare, P.E.

A-REVISED TO AS BUILT W.E.B. 1-2-90

### UNDERGROUND UTILITIES

MISCELLANEOUS DÉTAILS

CHAIN LINK SAFETY FENCE

CHAIN LINK SAFETY FENCE

2 WORKING DAYS BEFORE YOU DIG CALL ..... 800-362-2764 (Toll Free) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

28A

CL2

CL2A



# OHIO TURNPIKE COMMISSION

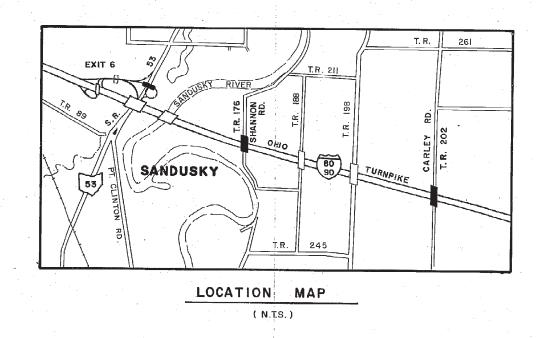
THE JAMES W. SHOCKNESSY OHIO TURNPIKE

CONTRACT CIP 43-89-15-PART 2
REPLACEMENT OF BRIDGE DECKS

EXIT 6 RAMP OVER S.R. 53 (MP 92.0)
SHANNON ROAD OVER OHIO TURNPIKE (MP 93.0)
CARLEY ROAD OVER OHIO TURNPIKE (MP 94.7)

SANDUSKY COUNTY

ORIGINAL CONTRACT SECTIONS C-37 AND C-39



2. WORKING DAYS

2. WORKING DAYS

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROJECTION SERVICE

THIS CONTRACT IS COMBINED WITH CONTRACT CIP 43-89-15 PART I TO FORM A SINGLE CONSTRUCTION CONTRACT.

# STANDARD CONSTRUCTION DRAWINGS OHIO DEPARTMENT OF TRANSPORTATION

DRAWING NO.	DATE
BP - 2	l- II- 85
BP 3	12-6-76
BP-4	10-1-87
BP-5	10-1-87
BP - 7	10-1-87
CB - 3A	5 - 1 - 79
GR - 1	1 - 11 - 85
GR - 2B	2 - 5 - 82
GR - 3	1-21-85
GR - 4	2 - 5 - 82
F I	11 - 10 - 83
TC - 35.10	8 - 29 - 84
BR-I	5 - 29 - 79
MC-6	I - 30- 84

#### PREPARED BY :

adache - ciuni - lynn associates

CONSULTING ENGINEERS B SURVEYORS

4401 ROCKSIDE RD.

CLEVELAND, OHIO 44(3)



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ENERAL NOTES (BRIDGE)4
ENERAL SUMMARY (ROADWAY)5
ENERAL SUMMARY (BRIDGE)
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OADWAY DETAILS8
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ONCRETE BARRIER PLAN AND DETAILS
ATCH BASIN AND SLOPE DRAIN DETAILS
TPE PROFILES
EINFORCED CONCRETE APPROACH SLABS
RACK AND JOINT DETAILS
ECK JOINT DETAILS15
HAIN LINK SAFETY FENCE DETAILS, TYPE II
HAIN LINK SAFETY FENCE (ALL ALUNINUM) DETAILS, TYPE II
AINTENANCE OF TRAFFIC DETAILS
EXIT 6 RAMP OVER S.R. 53
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YER NO. 1 REPAIR
TER NO. 2 REPAIR
BUTNENT DETAILS
UPERSTRUCTURE
EINFORCING SCHEDULE
EINFORCING SCREDULE
SHANNON AND CARLEY ROAD BRIDGES OVER OTC
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ITE PLAN - SHANNON ROAD
ITE PLAN - CARLEY ROAD
ITE PLAN - CARLEY ROAD
ITE PLAN - CARLEY ROAD
S3   S4   S4   S4   S5   S6   S7   S7   S7   S7   S7   S7   S7
S3   S4   S5   S6   S7   S7   S7   S7   S7   S7   S7
STE PLAN - CARLEY ROAD
1TE PLAN - CARLEY ROAD
1TE PLAN - CARLEY ROAD
11E PLAN - CARLEY ROAD
1TE PLAN - CARLEY ROAD

APPROVED FOR

THE OHIO TURNPIKE COMMISSION

Allan Plan

2-13-89 DATE

A= REVISED TO AS BUILT W.E.B. 1-2-90

PROPOSED WORK

THE EXIT 6 RAMP BRIDGE OVER STATE ROUTE 53 AND THE SHANNON ROAD BRIDGE AND CARLEY ROAD BRIDGE OVER THE OHIO TURNPIKE WILL BE REHABILITATED UNDER THIS CONTRACT. MAJOR WORK TO BE PERFORMED CONSISTS OF:

- 1.) REPLACING THE BRIDGE DECKS AND ABUTMENT ROADWAY SLABS. APPROACH SLABS AND DECK JOINTS WITH NEW REINFORCED CONCRETE DECKS, ABUTMENT SLABS, APPROACH SLABS. SEALED DECK JOINTS AND SAFETY BARRIERS.
- 2.) REPAIRING THE EXISTING CONCRETE ABUTMENTS AND PIERS BY PAICHING THE DETERIORATED SECTIONS WITH CONCRETE.
- 3.) ROADWAY IMPROVEMENTS INCLUDING RELOCATING/REPLACING GUARDRAIL, REPLACING PAVEMENT JOINTS. REPLACING PORTIONS OF EXISTING PAVEMENT AND RELOCATING/REPLACING DRAINAGE ITEMS. DETAILS OF THIS WORK ARE SHOWN ON THE PLANS.

#### CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL CONFORM TO THE SEQUENCING OF CONSTRUCTION OPERATIONS IN THE CONSTRUCTION OF THESE BRIDGE PROJECTS.

- 1.1 SHANNON AND CARLEY ROADS SHALL BE CLOSED FOR THE DURATION OF THE PROJECT.

  DETAILS OF SIGNING, BARRICADING AND TEMPORARY FENCE ARE SHOWN ON THE

  PLANS.
- 2.) EXIT 6 RAMP OVER S.R. 53 SHALL BE CONSTRUCTED IN TWO (2) PHASES. ALL WORK SHALL BE COORDINATED WITH THE MAINTENANCE OF TRAFFIC DETAILS SHOWN IN THE PLANS. ALL PROVISIONS FOR SAFETY MUST BE IN PLACE PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK COMMENCEMENT.
- THE SEQUENCE OF CONCRETE PLACEMENT SHALL BE AS SPECIFIED AND INDICATED ON THE DRAWINGS.
- 4.) NO CHANGES IN THE SEQUENCING OF CONSTRUCTION OPERATIONS SHALL BE PERMITTED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ENGINEER OBTAINED NO LATER THAN 48 HOURS IN ADVANCE OF THE PROPOSED CHANGE.

#### ELEVATION DAT

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE U.S. GEODETIC SURVEY AND ARE IN FEET ABOVE SEA LEVEL.

### CATCH BASIN AND SLOPE DRAIN

WHERE PLANS PROVIDE FOR NEW CATCH BASIN AND SLOPE DRAIN, ALL WORK SHALL BE IN ACCORDANCE WITH DETAILS SHOWN. IN ADDITION, 4 FT. X 4 FT. X 1.5 FT. THICK OF ROCK CHANNEL PROTECTION TYPE C, WITHOUT FILTER SHALL BE INSTALLED. PAYMENT SHALL BE ACCORDING TO THE UNIT PRICES SID FOR THE PERTINENT ITEMS.

## UTILITIES NOTIFICATION

AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFIY THE PROJECT ENGINEER. THE REGISTERED UTILITY PROTECTION SERVICE. TOLL FREE 1-800-362-2764. AND THE OWNERS OF EACH UNDERGROUND UTILITY SHOWN IN THE PLANS.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS. AFTER NOTICE IS RECEIVED. STAKE, MARK OR OTHERWISE IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO (2) DAYS AHEAD OF THE PLANNED CONSTRUCTION.

#### UNDERGROUND UTILITIES

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

OHIO EDISON

COLUMBIA GAS OF OHIO

6326 LAKE AVENUE

827 WALNUT STREET

ELYRIA, OHIO 44035

ELYRIA, OHIO 44035

TELEPHONE: (216) 324-5431

TELEPHONE: (216) 323-5551

OHIO BELL TELEPHONE

TOLEDO EDISION

TOLEDO. OHIO

2600 W. SANDUSKY U.S. 20

ATTN: TIM SHIARLA

TELEPHONE: (419) 245-7304 ATTN: MR. MARK HYLTON

LINDSEY, OHIO 43442 TELEHONE: 1-(800)-533-2600

LITEL TELECOMMUNICATIONS CORPORATION. FIBER OPTIC CABLE

APPROXIMATELY 10 FEET NORTH OF CENTERLINE OF OHIO TURNPIKE IS LOCATED A FIBER

OPTIC CABLE. EXTREME CARE MUST BE TAKEN BY THE CONTRACTOR TO PRESERVE AND PROTECT

THIS CABLE DURING ALL PHASES OF CONSTRUCTION. ANY EXCAVATION IN THIS AREA FOR

ANY REASON SHALL NOT BE PERFORMED WITHOUT LITEL FIRST LOCATING THE CABLE. AFTER

THE CABLE HAS BEEN LOCATED BY LITEL. THE CONTRACTOR SHALL EXCAVATE TO WITHIN

12 INCHES OF THE CABLE DEPTH AS PROVIDED. LITEL REPRESENTATIVES WILL THEN

HAND DIG TO EXPOSE THE CABLE.

LITEL CORPORATION SHALL BE NOTIFIED A MINIMUM OF TWO DAYS PRIOR TO ANY EXCAVATION OVER THEIR LINES AND/OR LOCATING THE CABLE.

THE FOLLOWING SHALL BE CONTACTED FOR LOCATING THE CABLE:

JAYAROM BORAIAH

OFFICE: (419) 884-0400

OME: (419) 756-6773

CONTRACT NO. C.I.P. 43-89-15 PART 2

DHIO TURNPIKE

F.H.W.A.

adoche ciuni lynn associates

GENERAL NOTES

DESIGNED DRAWN CHECKED REVIEWED DATE REVISED

J.R. C. G. S. B. R. J. M. R.D.H. 2-7-89

THESE STRUCTURES CONFORM TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1983, INCLUDING INTERIM SPECIFICATIONS THRU 1988, AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

#### DESIGN LOADING:

EXIT 6 RAMP OVER S.R. 53: HS20-44 CASE I. THE ALTERNATE MILITARY LOADING, AND A 30 P.S.F. FUTURE WEARING SURFACE.

SHANNON/CARLEY ROAD OVER THE OHIO TURNPIKE: HS20-44 CASE II, AND NO PROVISIONS FOR A FUTURE
WEARING SURFACE.

#### DESIGN STRESSES:

CONCRETE CLASS S - COMPRESSIVE STRENGTH 4500 P.S.I.

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 P.S.I.

REINFORCING STEEL - ASTM A615. A616. A617

GRADE 60 MIN! MUM YIELD STRENGTH 60,000 P.S.I.

EXISTING STRUCTURAL STEEL ASTM A7 (ASSUMED) - YIELD STRENGTH 33,000 P.S.I.

DECK PROTECTION METHOD FOR ABUTMENT SLAB AND SUPERSTRUCTURE DECK IS EPOXY COATED REINFORGING STEEL IN TOP AND BOTTOM MATS AND CONCRETE WEATHERPROOFING SEALER ON TOP SURFACE.

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1/2" THICK.

#### MATERIALS:

1) WELDED SHEAR STUD CONNECTORS: SHALL CONFORM TO AASHTO M169 AND SP513.

#### EXISTING STRUCTURE PLANS:

THE ORIGINAL DESIGN PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT THE COMMISSION'S PRINCIPLE OFFICE, 682 PROSPECT STREET, BEREA, OHIO. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS.

#### EXISTING STRUCTURE VERIFICATIONS:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY. THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTION 513.02 AND 0.T.C. GENERAL CONDITIONS G-2.04 AND G-5.02.

CONTRACT BID PRICES SHALL BE BASED UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD. THE STRUCTURAL STEEL AND STRUCTURAL STEEL DECK JOINTS SHALL NOT BE FABRICATED UNTIL THE ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

ANY ADDITIONAL COST RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT OVER THE UNIT PRICE BID WILL BE AWARDED BY THE COMMISSION.

DIMENSIONS: GIVEN ARE MEASURED HORIZONTALLY AND AT 60 DEGREES FAHRENHEIT. UNLESS OTHERWISE NOTED.

# REPLACEMENT OF EXISTING REINFORCING STEEL:

ANY EXISTING REINFORCING BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MADE UNUSABLE BY THE CONTRACTOR'S CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED WITH NEW STEEL AT HIS COST. ANY EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION SHALL BE REPLACED WITH NEW STEEL.

DRILLING DOWEL HOLES, FURNISHING AND PLACING SP 956 NONSHRINKING EPOXY MORTAR. AND REINFORCING BAR DOWELS. WHERE NEEDED TO REPLACE EXISTING REINFORCEMENT DAMAGED BY THE CONTRACTOR'S EXPENSE.

ITEM SP 536 CONCRETE WEATHERPROOFING SHALL BE APPLIED TO THE FOLLOWING EXPOSED CONCRETE
SURFACES OF THE BRIDGE.

- THE TOPS OF ABUTMENT AND SUPERSTRUCTURE SLABS.
- ALL PARAPET SURFACES AND SLAB SIDE EDGES.
- THE BOTTOM SURFACE OF THE SUPERSTRUCTURE SLAB FROM THE SLAB SIDE EDGE TO THE EXTERIOR STRINGER FLANGE.
- APPROACH SLABS
- NEW EXPOSED CONCRETE SURFACES OF ALL ABUTMENTS AND PIERS. SEALING SHALL NOT BE DONE
- UNTIL ANY CONCRETE PATCHING REPAIRS HAVE BEEN COMPLETED AND CURED.

CARE SHALL BE TAKEN NOT TO APPLY WEATHERPROOFING ON CONSTRUCTION JOINT SURFACES, SURFACES TO RECEIVE JOINT SEALER, AND FASCIA BEAM PAINT.

CONCRETE INSERT ASSEMBLIES. AS SHOWN ON STANDARD CONSTRUCTION DRAWING GR-1 AND GR-3.
SHALL BE PROVIDED AT ALL WINGWALL TERMINALS FOR ATTACHMENT OF GUARDRAIL TERMINAL
CONNECTORS. INCLUDE WITH ITEM SP 511 FOR PAYMENT

#### PATCHING CONCRETE STRUCTURES:

A CONTINGENCY OF SP 519 PATCHING CONCRETE STRUCTURES HAS BEEN INCLUDED ON EACH OF THE STRUCTURE'S SUMMARY OF QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER.

#### ABUTMENT BACKFILL:

THE CONTRACTOR SHALL PROVIDE AND PLACE BACKFILL BETWEEN EXISTING WINGWALLS AS REQUIRED TO BRING THE FILL TO THE LEVEL OF THE PROPOSED SLAB PRIOR TO PLACING THE NEW DECK SLAB. INCLUDE WITH ITEM 503, ABUTMENT BACKFILL, AS PER 503.10 FOR PAYMENT.

#### EPOXY BONDING COMPOUND:

EPOXY BONDING COMPOUND (SP 526) SHALL BE PLACED ON THE SURFACE AREA OF EXISTING CONCRETE WHICH WILL BE IN CONTACT WITH THE NEW CONCRETE. PRICE INCLUDED IN THE CONTRACT BID PRICE FOR THE PERTINENT CONCRETE ITEMS.

### BRIDGE OECK ELEVATIONS, SLAB THICKNESS, AND APPROACH PROFILES:

IN ORDER TO MEET ROADWAY GRADES, TO ASSURE THE CONSTRUCTION OF THE REDUIRED THICKNESS OF DECK SLABS, AND TO ASSURE THE PROPER LOCATION OF THE REINFORCING STEEL. IN THE DECK SLABS; THE CONTRACTOR SHALL OBTAIN THE ELEVATIONS OF THE TOP OF EXISTING STEEL BEAMS, AFTER THE COMPLETE REMVOAL OF THE EXISTING DECK SLAB. AT THE LOCATIONS SHOWN IN THE TABLE ON SHEET 3D OF 43 (FOR EXIT 6 RAMP BRIDGE) AND 41 OF 43 FOR (SHANNON AND CARLEY ROAD BRIDGES) FOR THE FINAL PAVEMENT ELEVATIONS. THE CONTRACTOR SHALL COMPUTE THE DECK SCREED ELEVATIONS UTILIZING THE DEAD LOAD DEFLECTIONS. THEN, THE CONTRACTOR SHALL CALCULATE THE DECK THICKNESS OVER THE BEAMS USING THE DECK SCREED ELEVATIONS AND THE TOP OF BEAM ELEVATIONS. IF THE COMPUTED DECK THICKNESS IS FOUND TO BE LESS THAN A MINIMUM THICKNESS REQUIRED. THE FINAL PAVEMENT ELEVATIONS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.

THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON 8 1/2" THICK (EXIT 6 RAMP BRIDGE) AND 8" THICK (SHANNON/CARLEY ROAD BRIDGES) CONCRETE OUTSIDE THE HAUNCH AREAS, AND THE AVERAGE THICKNESS OF CONCRETE PLACED OVER THE EXISTING BEAMS AT THE HAUNCHES. A TYPICAL HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING THE QUANTITY OF CONCRETE. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12" PROVIDED THAT THE SLOPE SHALL NOT BE MORE THAN 1:4 FOR A HAUNCH LESS THAN 9" IN WIDTH.

PLACEMENT OF THE ABUTMENT SLAB PRIOR TO THE DECK SLAB WILL NOT BE PERMITTED. HOWEVER.

THE ABUTMENT SLAB AND THE DECK SLAB MAY BE POURED AT THE SAME TIME. UPON THE COMPLETION

OF THESE POURS AND PRIOR TO POURING THE CONCRETE APPROACH SLABS. THE ENGINEER WILL

PROVIDE THE CONTRACTOR WITH FINISH GRADES AND ELEVATIONS REQUIRED TO PROVIDE

A SMOOTH TRANSITION FROM THE ASPHALT ROADWAY AND APPROACH SLABS TO THE CONCRETE

ABUTMENT AND DECK SLABS.

OHIO FH.WA REGION<sup>5</sup>

IN ORDER TO PROVIDE A SMOOTH TRANSITION FROM THE EXISTING PAVEMENT TO THE NEW BRIDGE.

DECK, THE ENGINEER SHALL PROVIDE THE CONTRACTOR WITH FINISH PAVEMENT ELEVATIONS. UPON COMPLETION OF THE ABUTMENT AND DECK SLABS, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER ELEVATIONS OF THE EXISTING SURFACE ALONG THE CENTERLINE AND BOTH EDGES OF PAVEMENT AT 25' INTERVALS. ELEVATIONS OF THE NEW BRIDGE SLABS. AND THE EXISTING PAVEMENT FOR A DISTANCE 100' BEYOND THE PAVING LIMITS SHALL ALSO BE PROVIDED. UPON RECEIPT OF THESE ELEVATIONS. THE ENGINEER WILL CALCULATE AND PROVIDE THE CONTRACTOR FINAL ELEVATIONS FOR THE CONCRETE APPROACH SLABS AND FOR THE APPROACH PAVEMENT.

NO APPROACH SLABS SHALL BE POURED NOR SHALL APPROACH PAVING COMMENCE UNTIL THE CONTRACTOR RECEIVES THE FINAL PAVEMENT ELEVATIONS FROM THE ENGINEER.

PAYMENT FOR THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM SP 623 - CONSTRUCTION LAYOUT SURVEY.

### CONTINGENCY QUANTITIES:

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE ESTIMATED QUANTITIES FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

### EPOXY COATED REINFORCING STEEL SUPPORT:

IN ACCORDANCE WITH THE REQUIREMENTS OF SP 824 AND 509.09. THE TOP AND BOTTOM MATS OF ALL LONGITUDINAL AND TRANSVERSE EPOXY COATED REINFORCING STEEL SHALL BE SUPPORTED BY APPROVED EPOXY COATED DEVICES WITH SPACING NOT EXCEEDING 3' - 0" CENTERS IN EACH DIRECTION. BROKEN CONCRETE, BRICK, ETC. SHALL NOT BE USED FOR SUPPORT OF EPOXY COATED REINFORCING STEEL. SUPPORTING DEVICES SHALL BE INCIDENTAL TO ITEM SP 824.

# ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN:

AS A CONTINGENCY, 10 CU. YO. OF UNCLASSIFIED EXCAVATION HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR EACH BRIDGE FOR EXPOSING AND SUBSEQUENTLY BACKFILLING PORTIONS OF EXISTING PIER COLUMNS, WHERE CONCRETE PATCHING MAY EXTEND BELOW GRADE. AS DIRECTED BY THE ENGINEER. ALL APPLICABLE PROVISIONS OF ITEM 503 SHALL APPLY. EXCEPT THAT THE METHOD OF MEASUREMENT SHALL BE TO THE LIMITS SHOWN ON THE PLAN. THE COST FOR ALL LABOR, FQUIPMENT, AND MATERIALS TO PERFORM THE ABOVE WORK. SHALL BE INCLUDED IN THE CUBIC YARD PRIGE BID FOR ITEM 503 UNCLASSIFIED EXCAVATION. AS

PORTIONS OF STRUCTURES REMOVED SHALL INCLUDE SCUPPERS. DOWNSPOUTS, SPLASH PLATES,
SCUPPER SUPPORTS, EXPANSION JOINTS AND THE FOLLOWING APPROXIMATE QUANTITIES:

	UNIT	EXIT 6	SHANNON ROAD	CARLEY ROAD
SUPERSTRUCTURE CONCRETE	C.Y.	160	180	180
ABUTMENT SŁAB CONCRETE	C.Y.	.23	30	30
RAILING.	L.F.	335	435	435

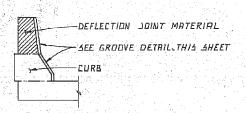
CONTRACT NO. C.I.P. 43-89-15 PART Z

DHID TURNPIKE

adache ciuni lynn associates

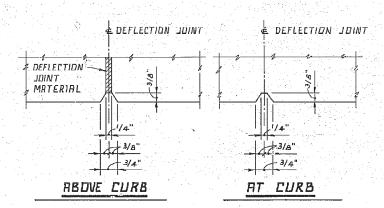
GENERAL NOTES

J.R.C. G.S.B. P.J.M. R.D.H. 2-7-89

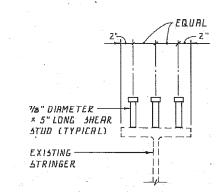


# DEFLECTION JOINT DETAIL

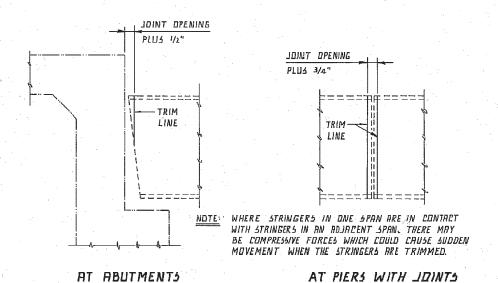
DEFLECTION JOINT MATERIAL IN THE PARAPET SHALL BE EITHER 1/4" GRRY SPONGE RUBBER OR 1/4" GRRY CELLUAR POLYVINYL CHLORIDE LAVELY APONGE. EITHER MATERIAL SHALL MEET THE REQUIREMENTS OF RASHTO M-153. TYPE I. EXCEPT THE DENSITY OF THE P.V.C. SPONGE SHALL NOT BE LESS THAN 20 LBS. PER CUBIC FOOT.



# GROOVE DETRIL



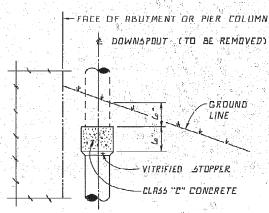
SHEAR STUD DETAIL



# TRIM ENDS OF STRUCTURAL

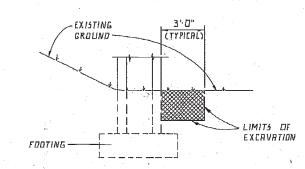
# STEEL MEMBERS

FOR JOINT OPENING DIMENSION. SEE DECK JOINT DETRILS, SHEET 15 OF 43.



# DRAIN PIPE CAP DETAIL

(INCLUDE WITH ITEM SPEEZ PORTIONS OF STRUCTURES REMOVED FOR PHYMENT).

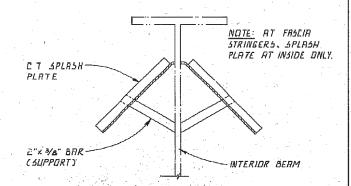


# EXCAVATION LIMITS FOR

UNCLASSIFIED EXCRVATION.

# **AS PER PLAN**

( AT REPAIR OF PIER COLUMNS)



F.H.W.A. REGION<sup>5</sup>

43

# SPLASH PLATE REMOVAL DETAIL

- AT JOINTS OVER PIERS
- 1) REMOVE SPLASH PLATE AND BAR SUPPORT
- GRIND STRINGER WEB SMOOTH
- PAINT PS DIRECTED UNDER ITEM SP514-"FIELD PAINTING OF EXISTING STRUCTURAL STEEL".

CONTRACT Nº C.I.P. 43-89-15 PART 2

OHIO TURNPIKE COMMISSION

# OHIO TURNPIKE

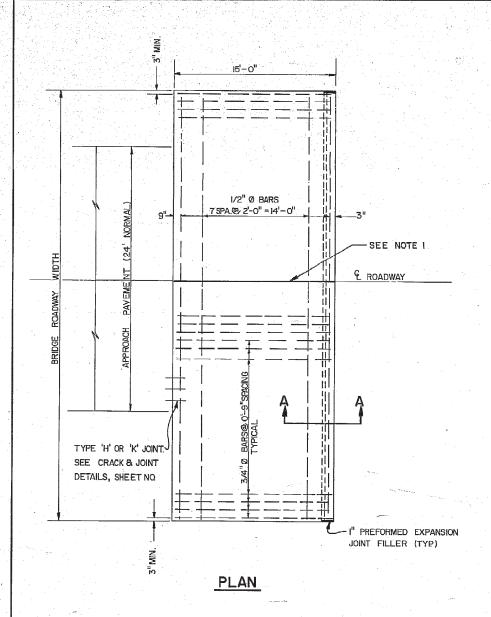
adache - ciuni - lynn associates CONSULTING ENGINEERS CLEVELAND, OHIO 44131

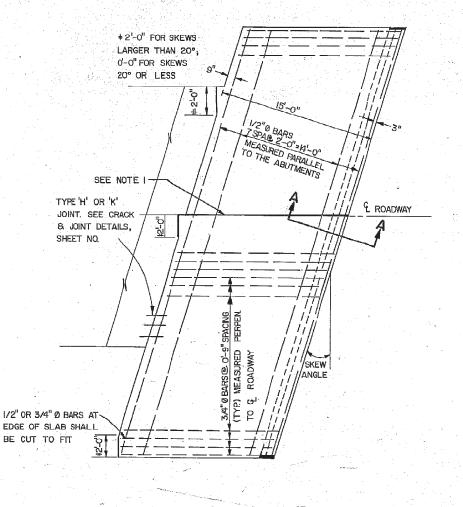
> COMMON STRUCTURAL DETRIL5

DESIGNED DRAWN CHECKED REVIEWED DATE

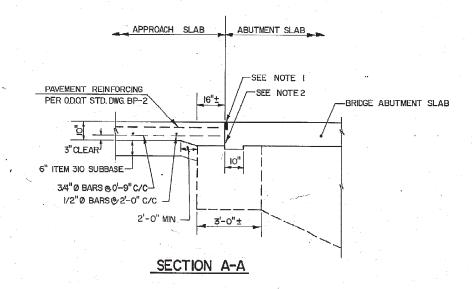
J.R.C. T.M. J. R. J. M. R.D.H. Z-7-89

A.C.L. form no. B-1





# APPROACH SLAB FOR SKEWED BRIDGE



NOTE I: GROOVE AND SEAL AS PER O.D.O.T. STD. CONST. DWG. BP-3.

NOTE 2: TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE
THE BOTTOM OF THE GROOVE INTO WHICH THE
JOINT SEALER IS TO BE
PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA
OF THE ABUTMENT OR SUPERSTRUCTURE WHICH
COMES INTO CONTACT WITH THE APPROACH SLAB.

NOTE 3: REPAIR OF BROKEN APPROACH SLAB SEAT SHALL BE CONSTRUCTED BY THE CONTRACTOR AS PER DETAIL OR AS DIRECTED BY THE ENGINEER, PAYMENT WILL BE MADE ON THE BASIS OF "DIRECT COSTS" PLUS 15 % FOR OVERHEAD AND PROFIT. "DIRECT COSTS" SHALL BE DEFINED UNDER SECTION G-9:02(5) OF THE GENERAL CONDITIONS.

GENERAL THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS.

THE PROJECT PLANS WILL SHOW SKEW, CURBS (IF ANY), ESTIMATED QUANTITY (SQ.YDS.)

AND SPECIAL NOTES AND DETAILS, WHERE NECESSARY FOR CONDITIONS OTHER

THAN THOSE INDICATED HEREON, THE APPROACH SLAB SHALL BE ADAPTED TO FIT

THE ENDS OF THE BRIDGE AND THE APPROACH PAVEMENT.

#### DESIGN DATA:

CONCRETE CLASS S USING SHRINKAGE COMPENSATING CEMENT
REINFORCING STEEL: A.S.T. M. AGI5, AGIG OR AGI7 - GRADE GO MIN. YIELD STRENGTH
60,000 P.S. L

PREFORMED EXPANSION JOINT FILLER AND SEALER AT THE CORNERS AND SIDES OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ YARD FOR THE APPROACH SLAB.

GROOVE AND JOINT SEAL SHOWN AT THE BRIDGE LIMIT END OF THE APPROACH SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ YARD FOR THE APPROACH SLAB.

TYPE: A WATERPROOFING SHOWN AT THE ABUTMENT SLAB SHALL BE INCLUDED IN THE PRICE BID PER SQ. YARD FOR THE APPROACH SLAB.

LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511.09

CURBS, BRIDGES WITH SIDEWALKS: FOR BRIDGES CONSTRUCTED WITH RAISED SIDEWALKS, DEFLECTOR PARAPETS OR OTHER TYPES OF CONSTRUCTION WHICH RETAIN ROADWAY SURFACE DRAINAGE, THE APPROACH SLABS SHALL EITHER INCLUDE INTEGRAL CURBS OR BE CONSTRUCTED IN CONJUNCTION WITH BRIDGE CURBS. CURB HEIGHT SHALL BE TRANSITIONED UNIFORMLY BETWEEN BRIDGE CURB HEIGHT AND APPROACH CURB HEIGHT IN LENGTH AS FOLLOWS WHERE WINGWALL EXTENDS BEYOND END OF APPROACH SLAB, USE A MINIMUM LENGTH OF JOIET BEYOND END OF WINGWALL WHERE THE APPROACH SLAB EXTENDS BEYOND THE END OF WINGWALL, TRANSITION IN THIS LENGTH. HOWEVER, THE TRANSITION LENGTH SHALL NOT BE LESS THAN TO FT AND THE TRANSITION SHALL EXTEND BEYOND THE END OF THE APPROACH SLAB IF NECESSARY CURB PLACEMENT SHALL BE IN ACCORDANCE WITH O.D.O.T. STANDARD CONSTRUCTION DRAWING BR-I

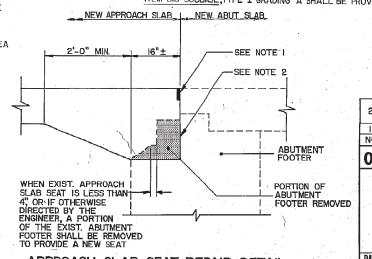
APPROACH SLAB WIDTH APPROACH SLAB FOR 38'-6" BRIDGE WIDTH SHALL BE 39'-0" WIDE WHEN CURBS ARE NOT INCLUDED; 39'-3" WHEN CURB IS INCLUDED ON ONE SIDE ONLY; 39'-6" WHEN CURBS ARE INCLUDED ON BOTH SIDES.

CROWN. SHALL CONFORM TO THAT OF THE APPROACH PAVEMENT AND BRIDGE DECK
IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE
APPROACH PAVEMENT, A SMOOTH TRANSITION SHALL BE PROVIDED WITHIN. THE
LIMITS OF THE APPROACH SLAB.

TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE EITHER TYPE 'K' OR 'H' AS DETAILED ON THE PLANS.

PAYMENT FOR THE TRANSVERSE JOINT SHALL BE AT THE UNIT PRICE BID PER LIN. FT. FOR THE JOINT FURNISHED.

ITEM 310 SUBBASE, TYPE I GRADING "A" SHALL BE PROVIDED UNDER ALL APPROACH SLABS. -



1 ADDED SEAT REPAIR DETAIL DFC 10.2-84
Nº REVISION BY DATE

DFC |11286

ADDED IMPRESSED JOINT &

CHANGED TYPE OF CEMENT

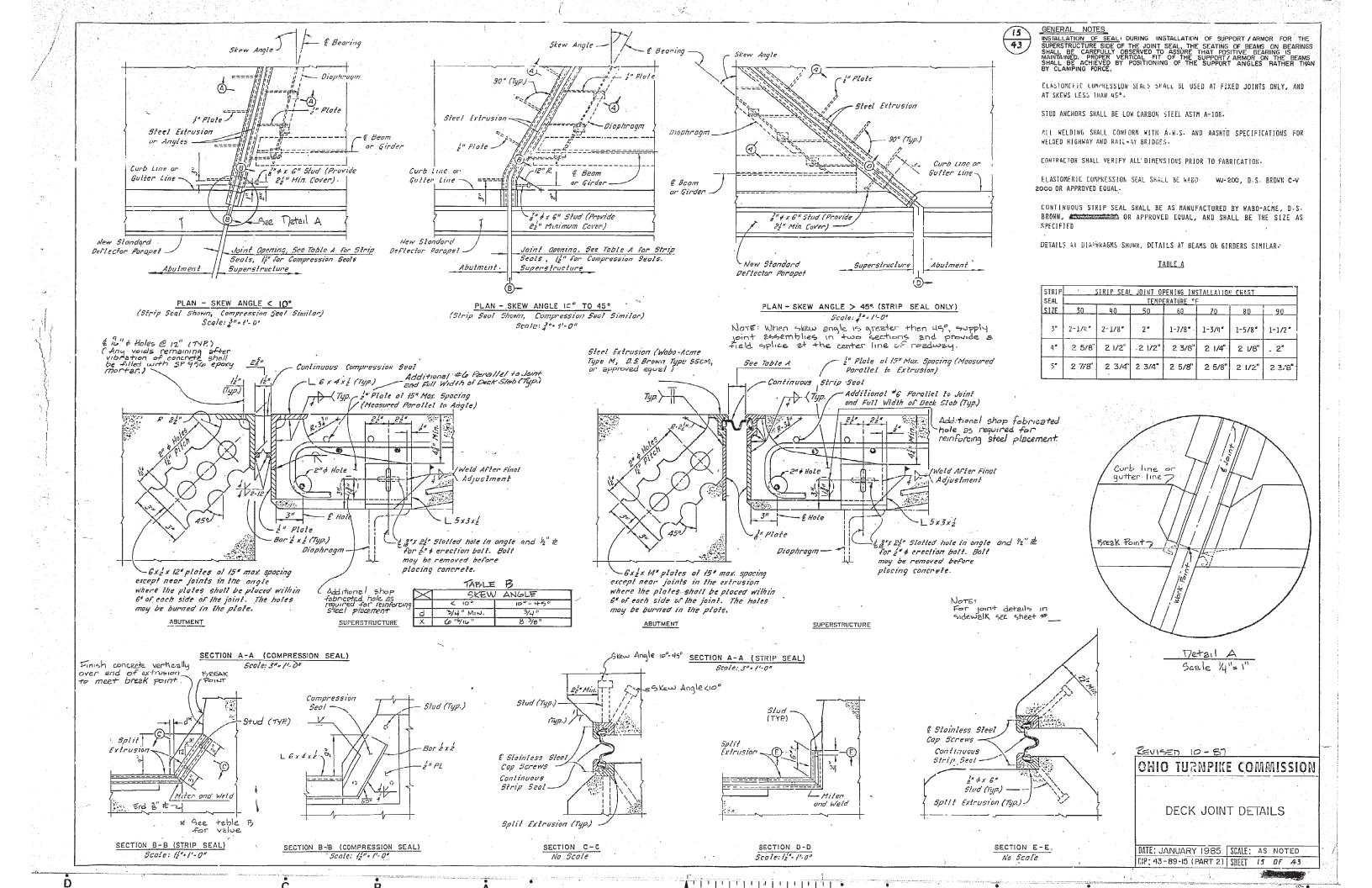
# OHIO TURNPIKE COMMISSION

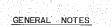
REINFORCED CONCRETE

APPROACH SLABS

DATE: OCTOBER 1983 | SCALE: N.T.S. | CIP: 43-89-15.(PART 2) SHEET 13 | OF 43

APPROACH SLAB SEAT REPAIR DETAIL





16 43

SPECIFICATIONS: 1983 O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS. LATEST A. A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES FOR DESIGN

MATERIALS: FABRIC SHALL BE I" MESH WOVEN FROM NO. 9 GAUGE, ALUMINUM COATED STEEL WIRE CONFORMING TO A.A.S.H.T.O. MISI, TYPE II THE ENDS OF THE FABRIC SHALL BE KNUCKLED SELVAGE AT THE TOP AND BOTTOM

ALL POSTS, BRACES, FITTINGS AND HARDWARE SHALL MEET THE REQUIREMENTS OF AASHTO MISI. THEY SHALL BE ZINC COATED STEEL EXCEPT CASTINGS FOR OTHER THAN ORNAMENTAL PURPOSES WHICH SHALL BE ZINC COATED MALLEABLE IRON.

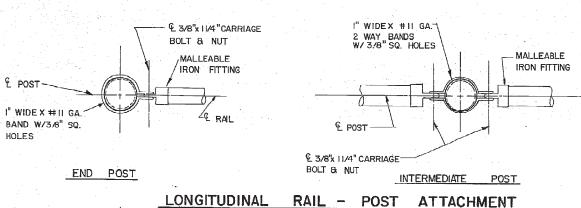
ALL PLATES SHALL BE STEEL CONFORMING TO A. S. T. M. DESIGNATION: A-36. ALL PARTS SHALL BE STEEL GALVANIZED UNLESS OTHER-NOTED AND ALL GALVANIZING SHALL BE DONE AFTER FABRICATION. PRECOATED LONGITUDINAL RAILS, IF CUT, WILL HAVE CUT END COATED WITH WITH A ZINC-RICH PRIMER MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATIONS TT-P-641 TYPE II, PRIOR TO ERECTION.

ANCHOR STUDS: MATERIAL FOR ANCHOR STUDS SHALL CONFORM TO A.S. T. M. DESIGNATION: 13/8" & SLOTTED A 276 TYPE 430 TO TYPE 304 STAINLESS
-3 3/8" & POSTS STEEL ANNEALED, HOT-FINISHED, ULTIMATE | /2.875" OD POST STRENGTH 70,000 P.S.I. MIN., 20% MIN. ELONGATION. THREADS MAY BE ROLLED OR CUT.

> POST SPACING FOR POST SPACING SEE PERTINENT STRUCTURE SHEETS. POST SPACING SHALL BE 8'-0" MAXIMUM.

ERECTION: ALL LONGITUDINAL RAILS TO BE PARALLEL TO TOP OF PARAPET.

ALL POSTS TO BE SET NORMAL TO TOP OF PARAPET



SCALE: 3" = 1'-0'

ONLY:

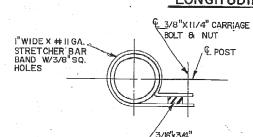
3/8"x11/4" CARRIAGE BOLT & NUT-

1"WIDE X # 11 GA.

BAND W/3/8" SQ.

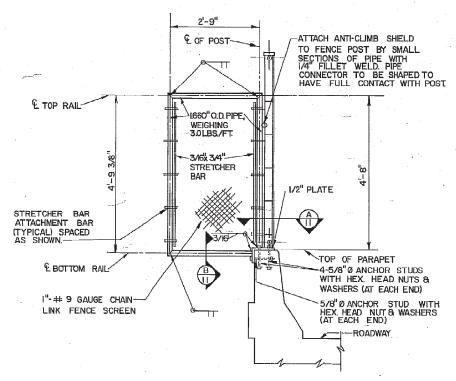
HOLES

3/8" ØTRUSS ROCS, END FENCE PANELS



STRETCHER BAR ATTACHMENT





ANTI-CLIMB SHIELD (TYPICAL OF FOUR PLACES) TYPICAL SECTION SCALE: 3/4"= 1-0

1.660" O.D. —— BOTTOM RAIL -I" Ø HOLE IN PLATE TOP OF PARAPET 3/16" 3/4" DIA. SLOTTED HOLE FOR 5/8"Ø ANCHOR STUD. 3 1/2" 31/2" 1/2" THICK PLATE

SECTION

NOT TO SCALE 11

JAM NUT

TURNBUCKLE

MALLEABLE

ROD ATTACHMENT

NO SCALE

4- 3/4" DIA.x I" LONG SLOTTED HOLES FOR

5/8"Ø ANCHOR STUDS

1.660" O.D. POST

I" Ø HOLE IN

3/16"

1/2" THICK PLATE

OUTSIDE FACE OF

I V2" HOLE IN

PLATE

PARAPET

PLATE

IRON FITTING

4 1/4 7/8" 3 3/4"

MALLEABLE IRON

SECTION SCALE: 3" = 1-0"

REVISED 2-2-84 7 - 12 - 88

3/8"

INSIDE FACE OF PARAPET

OHIO TURNPIKE COMMISSION

CHAIN LINK SAFETY FENCE DETAILS, TYPE II

DATE: JUNE 1983 SCALE: AS NOTED STANDARD DRAWING

DETAIL NOT TO SCALE

7x7x1/2"

SINGLE #9 GAUGE OR DOUBLE #13 GAUGE TIE WIRES AT 2'-0"± C/C TYPICAL EACH LONGITUDINAL

RAIL (MINIMUM OF 2 1/2 TURNS)

CAP (TYP ALL

STRETCHER BAR

STRETCHER BAR

TYPICAL END POST

FABRIC TO BE 1/2"±

CLEAR OF TOP OF

1.660" O.D. PIPE, WEIGHING

3.00 LBS/FT. (TYP. ALL

2.875" O.D. PIPE, WEIGHING -

I"-#9 GAUGE CHAIN LINK

FENCE SCREEN (6'-0")

1/2" PLATE

4-3/4" Ø HOLES FOR-

5/8" Ø ANCHOR STUDS

SEE DETAIL (

<u>3 5/8" |33/8" / </u>l

7.66 LBS./FT. (TYP.ALL POSTS)

TYP. >3/8"

LONGITUDINAL) --

PARAPET.

POSTS) -

3/16th 3/4"

--2" **©** 60° F

3/8"

TRUSS

ROD

INTERMEDIATE POST

1.66" O.D. LONGITUDINAL RAIL WEIGHING 3.00 LBS./FT.

WEIGHING 7.66 LBS./FT.

SINGLE #9 GAUGE OR

DOUBLE # 13 GAUGE TIE WIRES. (TYP EACH POST)

I/8"x I" BRACE BAND WITH

3/8"x11/4" CARRIAGE BOLT & NUT (TYP)

(TYPICAL)

(TYPICAL)

2.875"0.D. POST

H5/16

3/8" TRUSS

ROD (TYP@

ALL END POSTS

EXPANSION JOINT-

- IN PARAPET-

TOP OF PARAPET

**ELEVATION** 

1 23/8"

2 3/8"\_

FRONT FACE OF PARAPET

-2.875" O.D. POST

O3/8" V

11/2" Ø HOLE

TYPEIL CHAIN LINK SAFETY FENCE

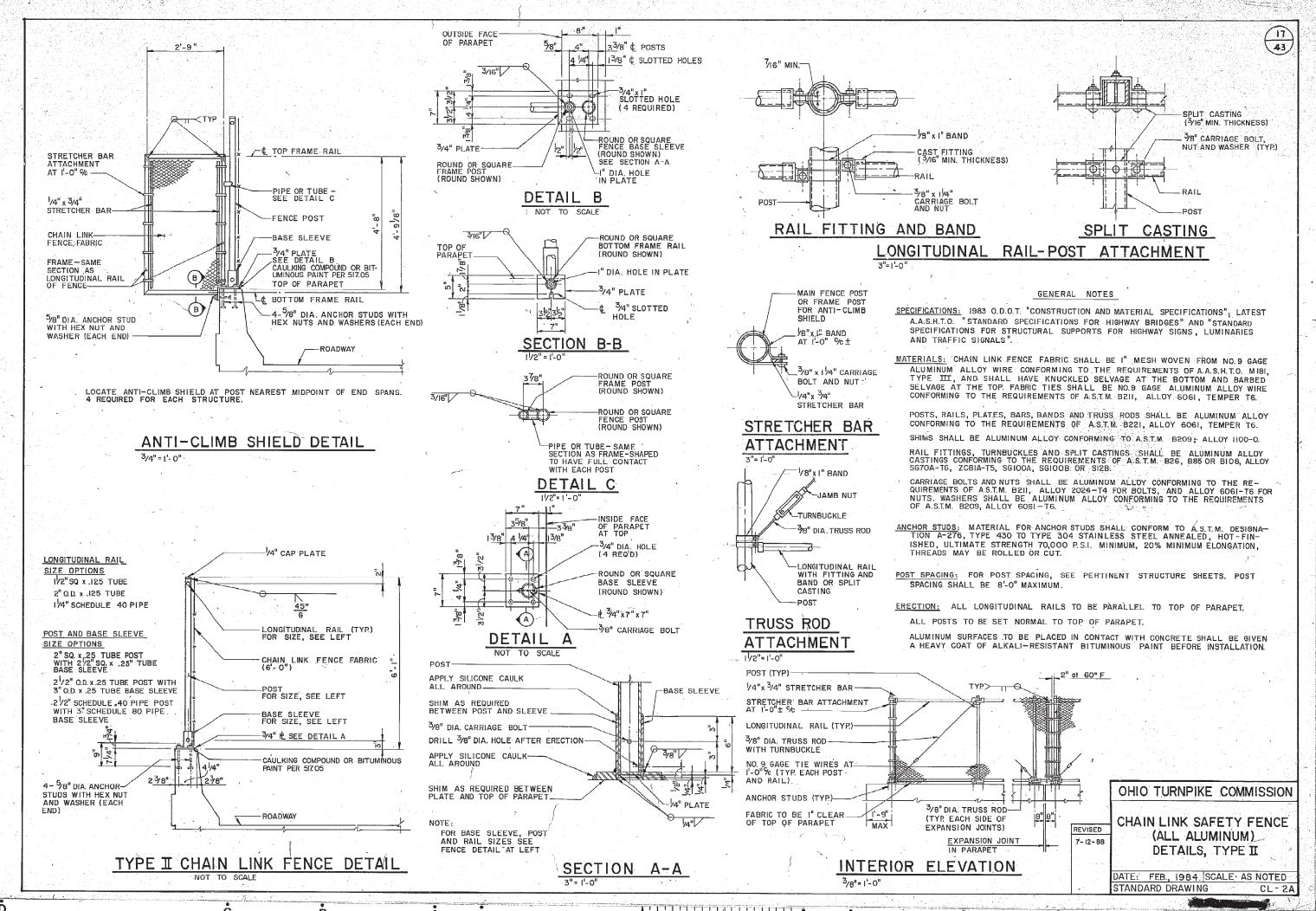
TYPICAL

SCALE: 3/4"=1-0"

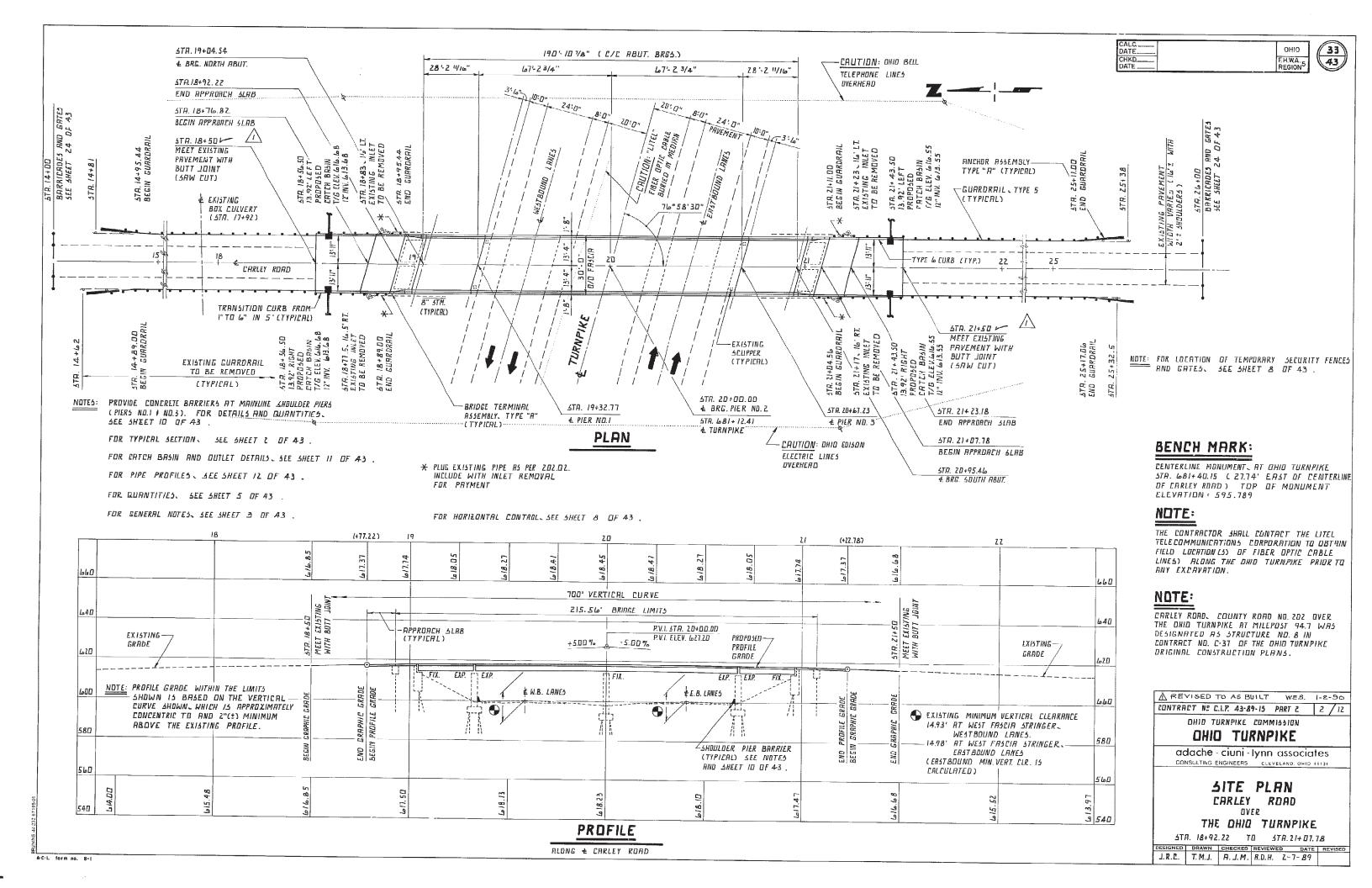
SECTION

4-5/8" Ø ANCHOR STUDS

WITH NUTS AND WASHERS @ EACH END.

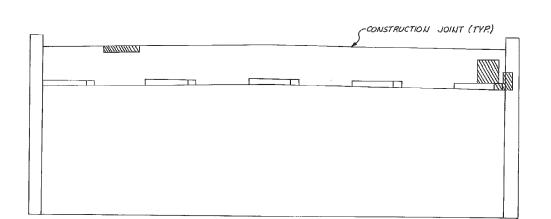


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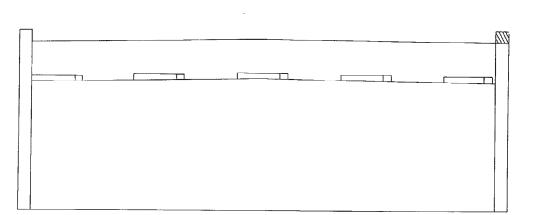


PLAN SOUTH ABUTMENT



PLAN NORTH ABUTMENT

ELEVATION NORTH ABUTMENT



ELEVATION SOUTH ABUTMENT



INDICATES APPROXIMATE AREA OF DETERIORATION

CALC.\_\_ DATE\_\_ CHKD.\_\_

LOCATION

NORTH ABUT

SOUTH ABUT

F.H.W.A. REGION<sup>5</sup>

CARLEY RD. ABUTMENT PATCHING QUANTITIES

CONTINGENT

QUANTITY

455F

MEASURED

QUANTITY

5SF

5SF

ITEM SP 519 - PATCHING CONCRETE STRUCTURES: PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN OCTOBER, 1988.

ESTIMATED QUANTITY HAS BEEN INCREASED OVER MEASURED QUANTITIES TO ALLOW FOR ADDITIONAL DETERIORATION.

EXACT DIMENSIONS AND LOCATIONS OF PATCHES SHALL BE DETERMINED BY THE ENGLISEER IN THE FIELD FOR FINAL PAY QUANTITY.

43

TOTAL

505F



INDICATES APPROXIMATE AREA OF PREVIOUS PATCHING

CONTRACT Nº C.I.P. 43-89-15 PART 2 6/12 OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

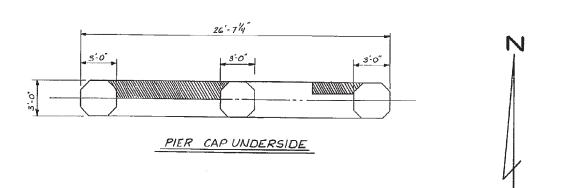
adache - ciuni - lynn associates CONSULTING ENGINEERS CLEVELAND, OHIO 44131

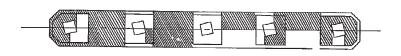
ABUTMENT REPAIR CARLEY ROAD

OVER THE OHIO TURNPIKE STA. 18+ 92.22 TO STA. 21+07.78

DESIGNED DRAWN CHECKED REVIEWED DATE REVISED

J.R.C. C.H.H. R. J.M. R.D.H. 2-7-89

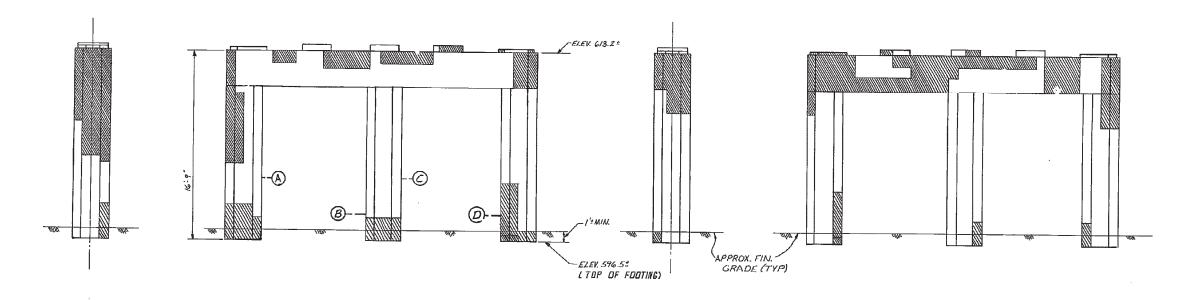




PLAN

**WEST** ELEVATION

VIEW A



	SOUTH ELEVATION		EAST ELEVATION
LINKE THE THE THE THE THE THE THE THE THE TH	1186.	1188	

VIEW C

VIEW D

VIEW B

NORTH ELEVATION

INDICATES APPROXIMATE AREA OF DETERIORATION

DATE	OH10
CHKD DATE	F.H.W.A. 5 REGION <sup>5</sup>

CARLEY RA	AD PIER PATE	HING QUANTIT	160
LOCATION	MEASURED QUANTITY	CONTINGENT	TOTAL
PIER Nº I	200 S.F.	100 S.F.	300 S.F.
PIER Nº 2	0 S.F.	50 S.F.	50 S.F.
PIER Nº3	150 S.F.	75 S.F.	225 S.F

75 S.F.

225 S.F.

NOTES:

ITEM SP519 - PATCHING CONCRETE STRUCTURES: PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN OCTOBER, 1988.

ESTIMATED QUANTITY HAS BEEN INCREASED OVER MEASURED QUANTITIES TO ALLOW FOR ADDITIONAL DETERIORATION.

EXACT DIMENSIONS AND LOCATIONS OF PATCHES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD FOR FINAL PAY QUANTITY:

FOR LIMITS OF EXCAVATION AT PIER COLUMNS. SEE "COMMON STRUCTURAL DETAILS". SHEET 9 OF 43.

NO SPECIFIC REPAIR 15 ANTICIPATED AT PIER NO.2 . HOWEVER A CONTINGENT QUANTITY 15 PROVIDED FOR USE AS DIRECTED BY THE ENBINEER.

CONTRACT Nº 43-89-15 PART 2 7 /12

OHIO TURNPIKE COMMISSION OHIO TURNPIKE

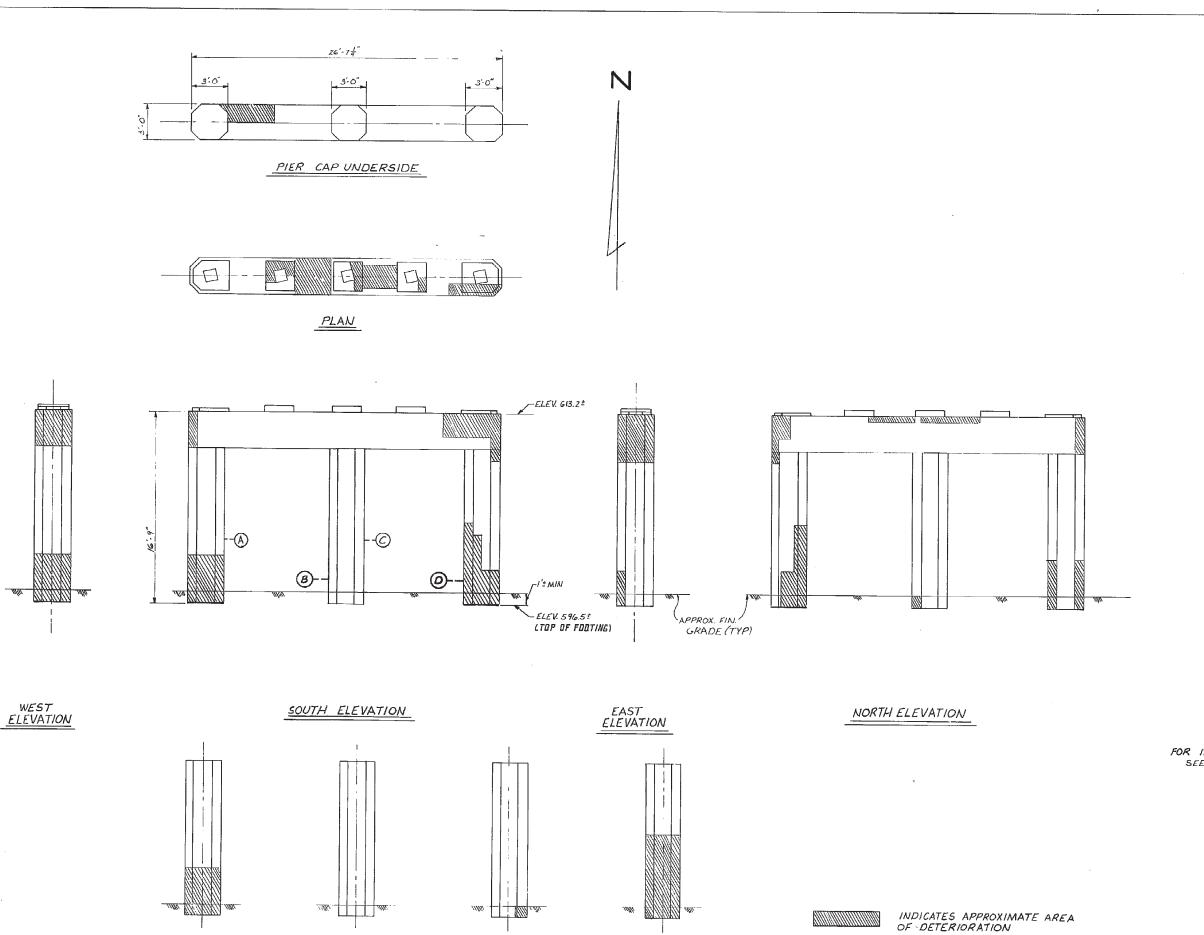
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CONSULTING ENGINEERS CLEVELAND, OHIO 44131

PIER NO.1 REPAIR

CARLEY ROAD DYER

THE DHID TURNPIKE ATA. 18+92.22 TD ATA. 21+07.78

J.R.C. C.H.H. H.J.M. R.D.H. Z-7-89



<u>VIEW</u> A

VIEW B

VIEW C

VIEW D

39 OHIO F.H.W.A. 5 REGION<sup>5</sup>

FOR ITEM SP SIA PATCHING NOTES AND QUANTITY TABLE
SEE SHEET 7/12

CONTRACT Nº 43-89-15 PART 2 8 / 12

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE

adache - ciuni - lynn associates

CONSULTING ENGINEERS CLEVELAND OHIO 44131

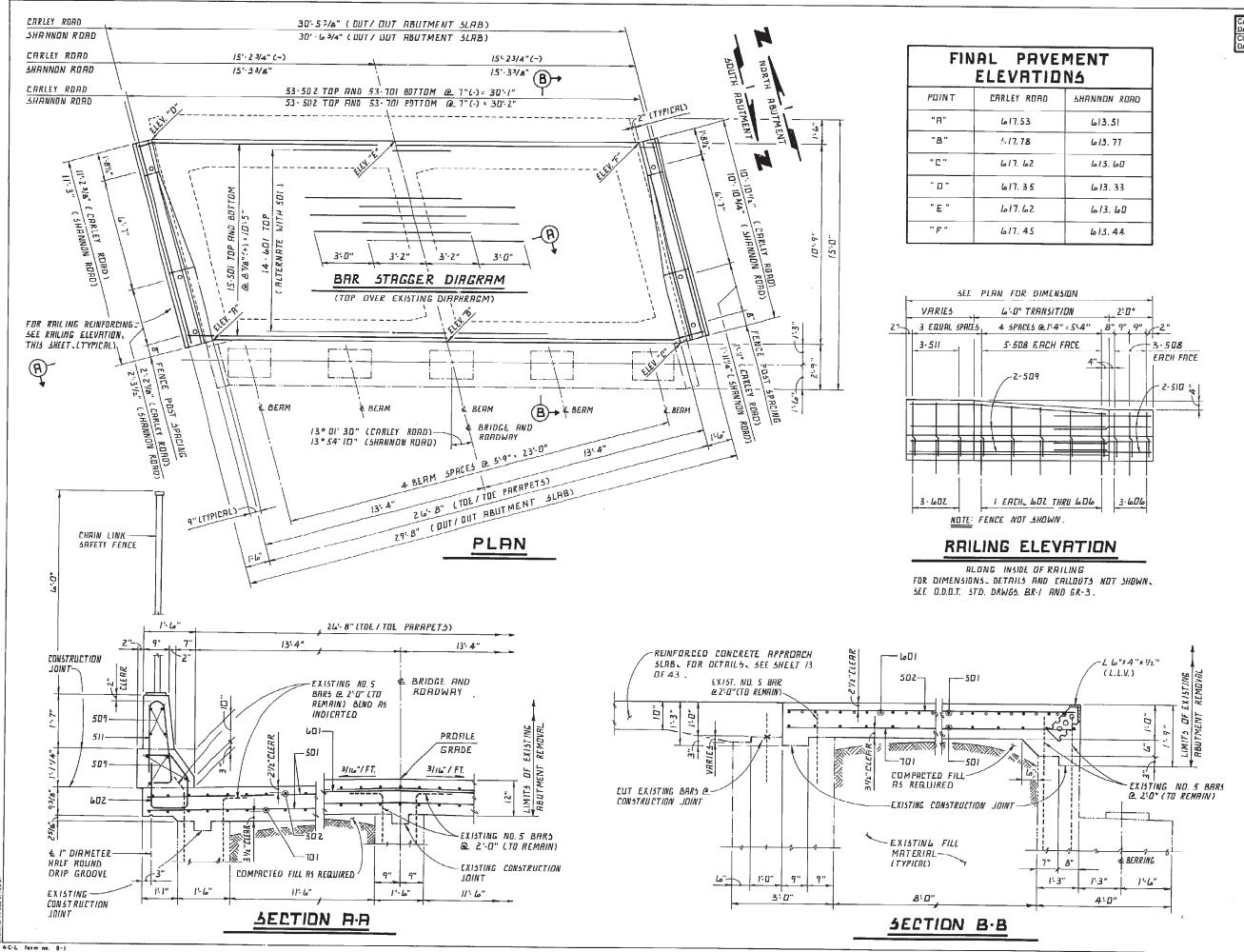
PIER NO.3 REPAIR CARLEY ROAD

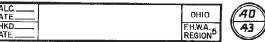
DVER THE DHIO TURNPIKE

ATR. 18+92.22 TO ATR. 21+07.78

DESIGNEC DRAWN CHECKED REVIEWED DATE REVISED

J.R.C. C.H.H. H.J.M. R.D.H. 2-7-89





# NOTES:

EXISTING REINFORCING STEEL DESIGNATED TO REMAIN. SHALL BE FIELD BENT WHERE REQUIRED INCLUDE WITH ITEM SP824 - EPDXY COATED REINFORCING STEEL. GRADE 60 FOR PAYMENT.

THE 5DI SOY AND LOD BARS SHALL BE FIELD BENT AS REQUIRED. INCLUDE WITH ITEM SPACE - EPDXY COATED REINFORCING STEEL BRADE LOD FOR PAYMENT.

THE PREFIX "RE" SHALL BE ADDED TO ALL
REINFORCING BAR MARKS IN THE ABUTMENT
SLABS AND BARRIERS

ALL REINFORCING STEEL SHALL BE EPOXY CDATED.

BENDING DIAGRAMS, SEC SHEET 12 / 12

CONCRETE INSERT ASSEMBLIES. AS SHOWN ON O.D.O.T. STD. DRWGS. GR-I AND GR-3. SHALL BE PROVIDED AT ALL WINGWALL TERMINALS FOR ATTACHMENT OF GUARDRAIL TERMINAL CONNECTORS. INCLUDE WITH ITEM SPSIIA FOR PRYMENT.

EPOXY BONDING COMPOUND (5P526) SHALL BE PLACED ON THE SURFACE AREAS OF EXISTING CONCRETE WHICH WILL BE IN CONTRACT WITH NEW CONCRETE. PRICE INCLUDED IN THE CONTRACT BID PRICE FOR THE PERTINENT CONCRETE ITEMS.

LONGITUDINAL OR TRANSVERSE CONSTRUCTION
JOINTS: GTHER THAN THE SPECIFIED JOINTS
SHALL NOT BE PERMITTED IN THE RBUTMENT
SLAB.

FOR PARAPET FENCE AND FENCE POST ANCHOR DETRILS. SEE SHEETS 16 AND 17 OF 43 .

CONTRRET Nº C.I.P. 43-89-15 PART 2 9 /12

# OHIO TURNPIKE

adache ciuni Ivan associa

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CONSULTING ENGINEERS CLEVELAND, DHIO 44131

RBUTMENT DETRILS
CARLEY RD. \$ SHANNON RD.

THE DHID TURNPIKE

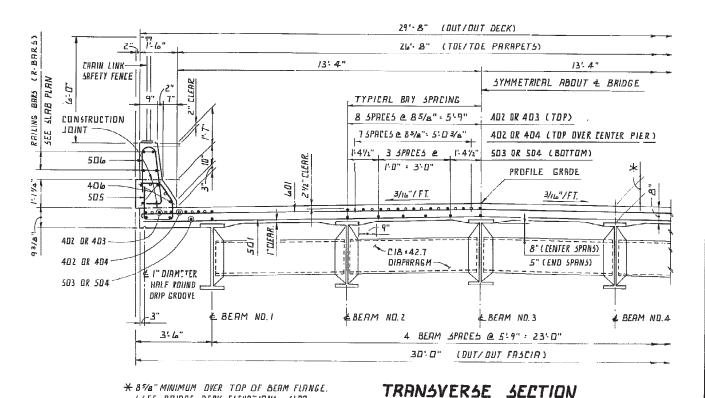
4TA. 18+92.22 TD 5TA.21+07.78 (CARLEY RD.)
4TA. 18+92.L1 TD 5TA.21+07.39 L5HANNON RD.)

SIGNED DRAWN CHECKED DEVIEWED DATE REPUISED

DESIGNED DRAWN CHECKED REVIEWED DATE REVISED

1.R.C. T.M.J. R.J.M. R.D.H. 2-7-89

5 41



(SEE BRIDGE DECK ELEVATIONS SLAB THICKNESS AND APPROACH PROFILES

NOTE, SHEET 4 OF 43 .)

FENCE POST

SPACING \*

A·C·L form no. 8-1

6-17/8" 6-8" 7:37/8" 7:37/6"

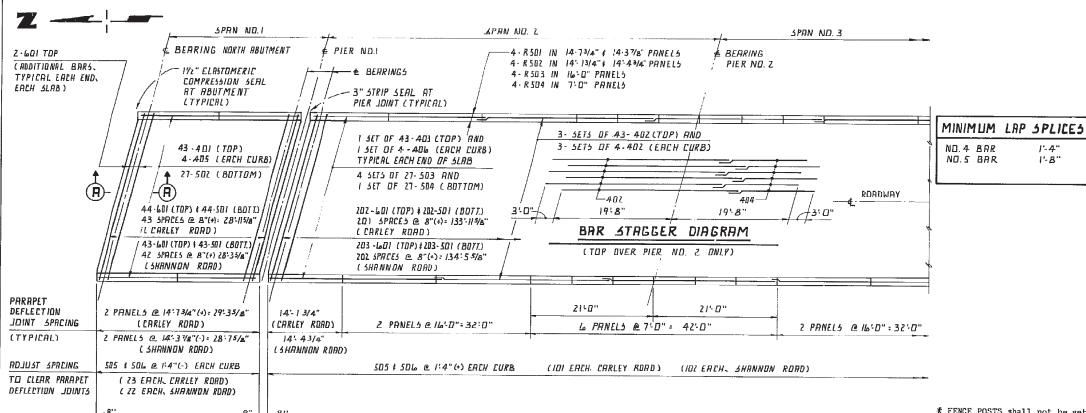
6:57/A" 6:6" 7:17/A" 7:17/A

		F	INAL	PRVE	MENT	EL	EVAT	IONS								
_	DESCRIPTION		С	ARLET RO	AD.		SHANNON ROAD									
	ESCRIPTION	BERM NO.1	BEAM NO.2	BEAM NO.3	BEAM NO.4	BEAM NO.5	BERM ND.)	BEAM NO. 2	BEAM NO.3	BERM NO. 4	BEAM NO.5					
7.5	£ BRG. ₽BUT.	617.66	ه 17.73 الما 17.80 الما 17.58		17.58	4 ما. 13م	613.71	613.7B	613.67	ما5.5اط						
SPAN NE	1/2 PDINT	617.83	617.90	617.91	617.87	617.76	6/3.81	613.88	613.96	613.85	613.74					
5P.R	& BRG. PIER	617.97	618.05	618.12	618.02	617.92	6/3.95	614.03	614.10	L 14.00	13.90					
7	4. BRG. PIER	617.98	618.DS	618.13	618.03	617.93	613.96	614.04	614.11	614.01	13.91					
ND.	V4 PDINT	618.11	618.19	6/8.27	618.17	6/8.07	614.10	614.18	614.26	614.16	614.06					
SPRN I	V2 POINT	618.20	618.29	618.37	618.27	618.18	614.19	614.28	6/4.36	614.26	614.16					
24	FIELD SPLICE	618.26	618.35	618.44	618.34	618.25	614.25	614.34	614.43	6/4.33	614.24					
	€ BRG. PIER	618.27	618.36	618.45	618.36	618.27	614.26	6 14.35	614.44	614.35	614.26					
 l	FIELD SPLICE	618.25	618.34	618.44	618.35	618.26	L14.24	614.33	614.43	614.34	614.25					
ND.	1/2 PDINT	618.18	618.27	618.37	618.29	618.2D	614.16	614.26	614.36	614.28	614.19					
APAN	3/4 PDINT	Lo 18.07	618.17	618.27	618.19	ا18.11	lo 14. D lo	614.16	614.26	614.18	Lo14.10					
٦	4 BRB. PIER	617.93	6 i B. 🛚 3	618.13	618.05	617.98	L13.91	614.DI	614.11	L14. 🛮 4	613.96					
9.4	& BRG. PIER	617.92	618.DZ	618.12	618.05	617.97	613.90	La 14.00	614.10	614.D3	613.95					
N N	1/2 PDINT	ما7.71م	617.87	617.97	617.90	617 83	613.74	613.85	613.96	6/3.88	lo13.8/					
SPAN ND.	♠ BRG. RBUT.	617.58	617.69	617.80	617.73	617.66	613.Sb	7ما.داما	6/3.7B	613.71	6/3.64					

FINISH PRVEMENT ELEVATIONS: THE ELEVATIONS SHOWN ARE FINISHED PAVEMENT ELEVATIONS. PROPER
RICOWANCE SHALL BE MADE FOR THE DEAD LOAD DEFLECTIONS CAUSED BY
THE WEIGHT OF THE PONCRETE.

(CARLEY RDAD)

(SHANNON ROAD)



17 SPACES @ 7'-97/8"(-) = 132'-111/2"

17 SPACES @ 7'-10 1/4"(-) = 133'-51/2"

SLAB PLAN

L NORTH HALF SHOWN, SOUTH HALF SIMILAR

( CENTER 3 PAN SHOWN, END SPAN SIMILAR)

LOOKING UPSTATION

CARLEY ROAD AND SHANNON ROAD DESCRIPTION BERM NO. BERM NO. 2.3 f 4 **€** BRG. ABUT. 'מם.ם 0.00 V≥ PDINT B.DPיוח חוי & BRG. PIER 0.00 'םם.ם **≜** BRG. PIER יםם.ם 0.00 VA POINT 0.04 0.04 VL POINT D.D 4' 0.05 FIELD SPLICE 0.04' 0.04 & BRG. PIER 0.00 0.00' & BRG. PIER ם.םם 0.00 FIELD SPLICE 0.04 0.04 V2 PDINT **□.**□4′ 0.05

0.04

0.00

0.00

4.01

0.00

0.04

0.00

0.00

0.01'

0.00'

DEFLECTIONS

THE WEIGHT OF CONCRETE.

DERD LORD DEFLECTIONS CRUSED BY

# FENCE POSTS shall not be set closer than  $8^n$  from any parapet deflection joints.

3/4 PDINT

& BRG. PIER

& BRG. PIER

1/1 POINT

**₹** BRG. ABUT.

\* FENCE POST ANCHORS: The contractor shall give special attention to fence anchor stud projection above top of parapet, provide for base plate thickness, washer thickness, and a positive "stick through" at end of stud.

# NOTES:

LONGITUDINAL OR TRANSVERSE CONSTRUCTION
10INTS: OTHER THAN THE SPECIFIED JOINTS
4HALL NOT BE PERMITTED IN THE SUPERSTRUCTURE
DECK SLAB.

A HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING QUANTITY OF DECK CONCRETE. HOWEVER. THE HAUNCH WIDTH WAY YARY BETWEEN 6" AND 12" (PROVIDED THAT THE SLOPE SHALL BE NOT MORE THAN 4:1 FOR A HAUNCH LESS THAN 9".

FOR SECTION A.A. SEE SHEET 11 / 12 .

FOR ADDITIONAL DETAILS AND NOTES. SEE SHEET II / 12 .

ALL REINFORCING BARS SHALL BE EPOXY COATED.

THE PREFIX "5E" AND "RE" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN THE SUPER-STRUCTURE AND THE RAILING, RESPECTIVELY.

THE 501 AND LOI REINFORCING BARS SHALL BE FIELD BENT TO CONFORM TO THE DECK CROWN.
INCLUDE FIELD BENDING WITH ITEM 824 - EPOXY CORTED REINFORCING STEEL GRADE LO.

FOR REINFORCING STEEL SCHEDULE AND BAR BENDING DIAGRAMS. SEE SHEET 12/12.

FOR PARAPET DEFLECTION JOINT DETAILS.
SEE SHEET 9 DF 43.

FOR EXPANSION JOINT DETAILS\_ SEE SHEET 15 OF 4-3 .

FOR PARAPET FENCE AND FENCE POST ANCHOR DETAILS. SEE SHEETS 16 AND 17 OF 43

CONTRACT Nº C.I.P. 43-89-15 PART 2 10 / 12

DHID TURNPIKE COMMISSION

# OHIO TURNPIKE

adache - ciuni - lynn associates

CONSULTING ENGINEERS CLEVELAND ONIO 44131

SUPERSTRUCTURE
CARLEY RD. \$ SHANNON RD.

# OVER THE DHIO TURNPIKE

 ATR. 18+92.22
 TD
 5TR. 21+D1.78
 (L'ARLEY RD.)

 STR. 18+92.61
 TD
 5TR. 21+D1.39
 L'SHANNON RD.)

 DESIGNED
 DRAWN
 CHECKED
 REVIEWED
 DATE
 REVISED

J.R.C. T.M.J. A.J.M. R.D.H. 2-7-89

<u> 3KEW = 13° 01'30" ( CARLEY ROAD)</u> = 13° 54' 10" ( SHANNON RORD)

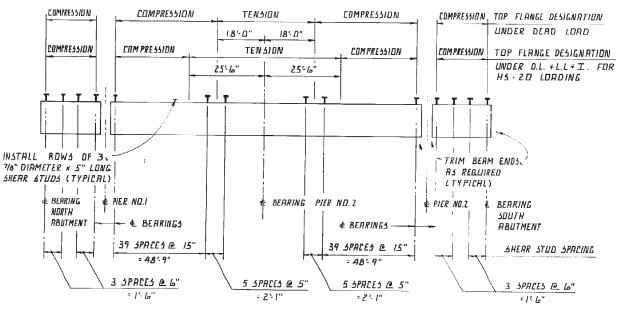
FRAMING PLAN

(EXISTING)

O DENDTES RESET BEARING AT SHANNON ROAD.

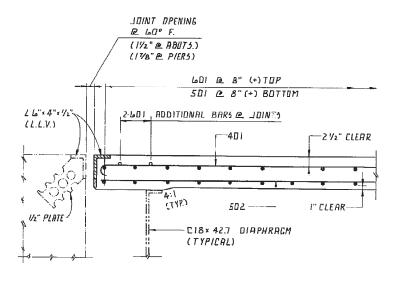
ONLY. IN ACCORDANCE WITH ITEM SPECIALDIAPHRAGM ADJUSTMENT (SEE SPECIFICATIONS.)

\* REMOVE CIZ×25 SCUPPER SUPPORTS WHERE REQUIRED TO ACCOMMODATE RESETTING OF BEARING(S). INCLUDE WITH ITEM SPZOZ-PORTIONS OF STRUCTURES REMOVED. FOR PRYMENT.



# BERM ELEVATION

INSTALL SHEAR STUDS AS SHOWN TO EXISTING BEAMS (TYPICAL ALL 5 BEAMS)



# **JECTION** A·A

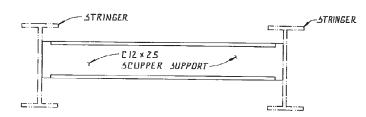
FOR LOCATION OF SECTION A.A. SEE SHFET

SECTIONS AT ABUTMENTS SHOWN. SECTIONS AT PIERS ARE SIMILAR.

1½" JOINT OPENING 15 FOR 2" COMPRESSION SEALS AT RBUTMENTS MERSURED @ LOO DEGREES FAHRENHEIT.
USE 17%" JOINT OPENING @ LOO" FOR 3" STRIP SEALS
HT PIERS NO.1 AND NO.3.

FOR ABUTMENT DETRILS. SEE SHEET 9 /12

FOR JOINT DETRILS, SEE SHEET 15 OF 43



# SCUPPER SUPPORT

# REMOVAL DETRIL

WHERE REBUIRED TO RECOMMODATE RESETTING OF BEARING (5).

- ) REMOVE CIZx 25 SCUPPER SUPPORT
- 2) GRIND STRINGER WEB AMOUTH
- ) PAINT AS DIRECTED UNDER ITEM SP514~ "FIELD PAINTING OF EXISTING STRUCTURAL STEEL".

# NOTES:

THE ENDS OF THE STRUCTURAL STEEL MEMBERS SHALL BE TRIMMED AS REQUIRED AND PAID FOR UNDER THE UNIT PRICE BID FOR EACH, ITEM SPS29 - TRIM ENDS OF STRUCTURAL STEEL MEMBERS.

FOR DETAILS OF TRIMMING ENDS OF STRUCTURAL STEEL MEMBERS. SEE SHEET 9 OF 43.

FOR SHERR STUD DETAILS. SEE SHEET 9 DF 43.

FOR TRANSYERSE SECTION SLAB PLAN.
RODITIONAL DETAILS AND NOTES, SEE SHEET
10/12.

DECK DRAINAGE SYSTEM (INCLUDING SCUPPERS, COLLECTORS, DOWNSPOUTS AND SPLASH PLATES) SHALL BE REMOVED. INCLUDE WITH ITEM SP202 - PORTIONS OF STRUCTURES REMOVED, FOR PAYMENT.

WELDED BYTACHMENTS FOR SUPPORTS OF CONCRETE DECK FINISHING MACHINE OR RNY DTHER PURPOSE IS PROHIBITED. ONLY THOSE WELDS SHOWN ON THE PLANS FOR BYTACH-MENT OF SHEAR STUD CONNETTORS. BERRINGS AND STIFFENERS SHALL BE PERMITTED.

CONTRACT Nº C.I.P. 43-89-15 PART 2 | 11 / 12

DHID TURNPIKE COMMISSION

# DHID TURNPIKE

adache - ciuni - lynn associates
CONSULTING ENGINEERS CLEVELAND ONIO 44131

# SUPERSTRUCTURE DETAILS CARLEY RD. # SHANNON RD.

THE OHIO TURNPIKE

ATA. 18+92.22 TO ATA. 21+D7.78 (CARLEY RD.) 4TA. 18+92.6) TO ATA. 21+D7.39 (AHANNON RD.)

DESIGNED DRAWN CHECKED REVIEWED DATE REVISED

1.R.C. 7.M.J. H.J.M. B.D.H. 2-7-89

A-C-L form no. 8-1

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EH.W.A.

42 43

# CARLEY ROAD

# ABUTMENTS

	ARK	1		BER RED			1			1	DIM	Α	1	DIM	В	1	DIM	CI	C	MIC	D	1	INCREMENT	1	
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# **SUPERSTRUCTURE**

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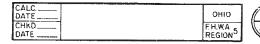
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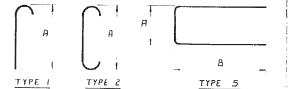
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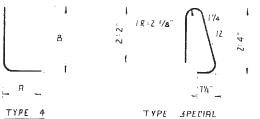
# NOTE:

REINFORCING STEEL SAMPLES REFER TO JITO SENERAL CONDITIONS SIGNO AND EMASSECTION TOO. TOO. THROUGH TOO OS TOO TOO OB. SUFFICIENT RODITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURE BY THE RODITIONAL SPEEL. SPLICED IN RECORDANCE WITH SOO OB.

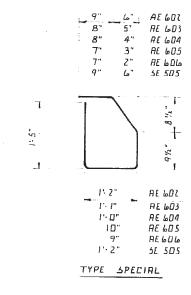


# BAR BENDING DIRGRAMS





RE 511 \$ 5E506



# CONTRACT Nº C.I.P. 43-89-15 PART 2 12/12 OHIO TURNPIKE COMMISSION OHIO TURNPIKE

adache ciuni lynn associates

REINFORCING SCHEDULE CARLEY RD. # SHANNON RD.

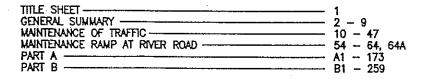
DVER THE DHIO TURNPIKE

STH. 18+92.22 TO STH. 21+0778 (CRRLEY RD.)

STH. 18+92.61 TO STH. 21+0739 (SHRNNON RD.)

DESIGNED DRAWN CHECKED REVIEWED DATE REVISED

J.R.C. T.M.J. A.J.M. H.D.H. Z-7-89





LCI COMMUNICATIONS CORP

1, 2, 9-18, 21-30

# OHIO TURNPIKE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

# 3 RD LANE CONSTRUCTION

CONTRACT 77-96-01 PART A MP. 92.75 TO MP. 96.45 STATION 575+90 TO STATION 770+00 SANDUSKY COUNTY

# CONTRACT 77-96-01 PART B MP. 96.45 TO MP. 100.52

STATION 769+95.36 TO STATION 985+92.57 SANDUSKY COUNTY

RECOMMENDED FOR APPROVAL

URS CONSULTANTS, INC.

APPROVED FOR

THE OHIO TURNPIKE COMMISSION

ODAT STANDARD DRAWINGS

OUUT STANDARD DRAWINGS							
BP-1.1       2-21-92         BP-2.1       10-28-94         BP-2.2       10-28-94         BP-2.4       2-21-92         BP-3.1       2-21-92         BP-5.1       10-28-94	MT-96.119-9-88 MT-96.209-88 MT-96.259-88 MT-97.104-25-94 MT-99.1011-14-86 MT-101.607-1-92 MT-105.107-1-92						
GR-1.1 — 5-6-91 GR-1.2 — 10-30-92 GR-1.3 — 2-21-92 GR-2.1 — 5-6-91 GR-3.1 — 5-6-91 GR-3.2 — 5-6-91 GR-4.2 — 5-6-91 GR-8.1 — 1-31-94	RB-1-55 — 2-2-59 FB-1-82 — 5-10-82 BS-1-93 — 12-19-94 SD-1-69 — 6-12-69						
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MC-47-26-76 MC-118-1-78							

PCB-91 TC-21.20-TC-41.20 TC-51.11

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# MAINTENANCE OF TRAFFIC MAINTENANCE OF TRAFFIC TRAFFIC CONTROL STRUCTURES OVER 20' SPAN A log-a log a log a, a log-a log a, a log a,

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

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CONTRACT 77-96-01 PART A 3rd. LANE CONSTRUCTION MP. 92.75 TO MP. 96.45

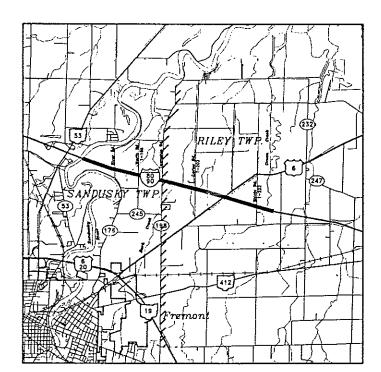
STATION 575+90 TO STATION 770+00 SANDUSKY COUNTY

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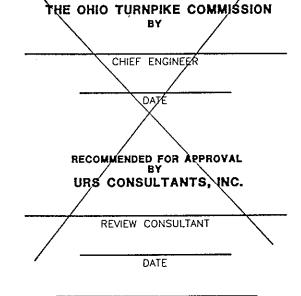
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HW-4A	4-1-80
GR-3.1	5-6-91
GR 4.2	5-6-91

2 WORKING DAYS BEFORE YOU DIG Coll...800-362-2764 (Toll Free) OHIO UTILITIES PROTECTION SERVICE CALL JAYTEL - (419) 884-0400 (LCI FIBER OPTIC CABLE) OHIO TURNPIKE DIVISION SUPERINTENDENT (419) 862-2922 (ROADWAY LIGHTING CABLE)



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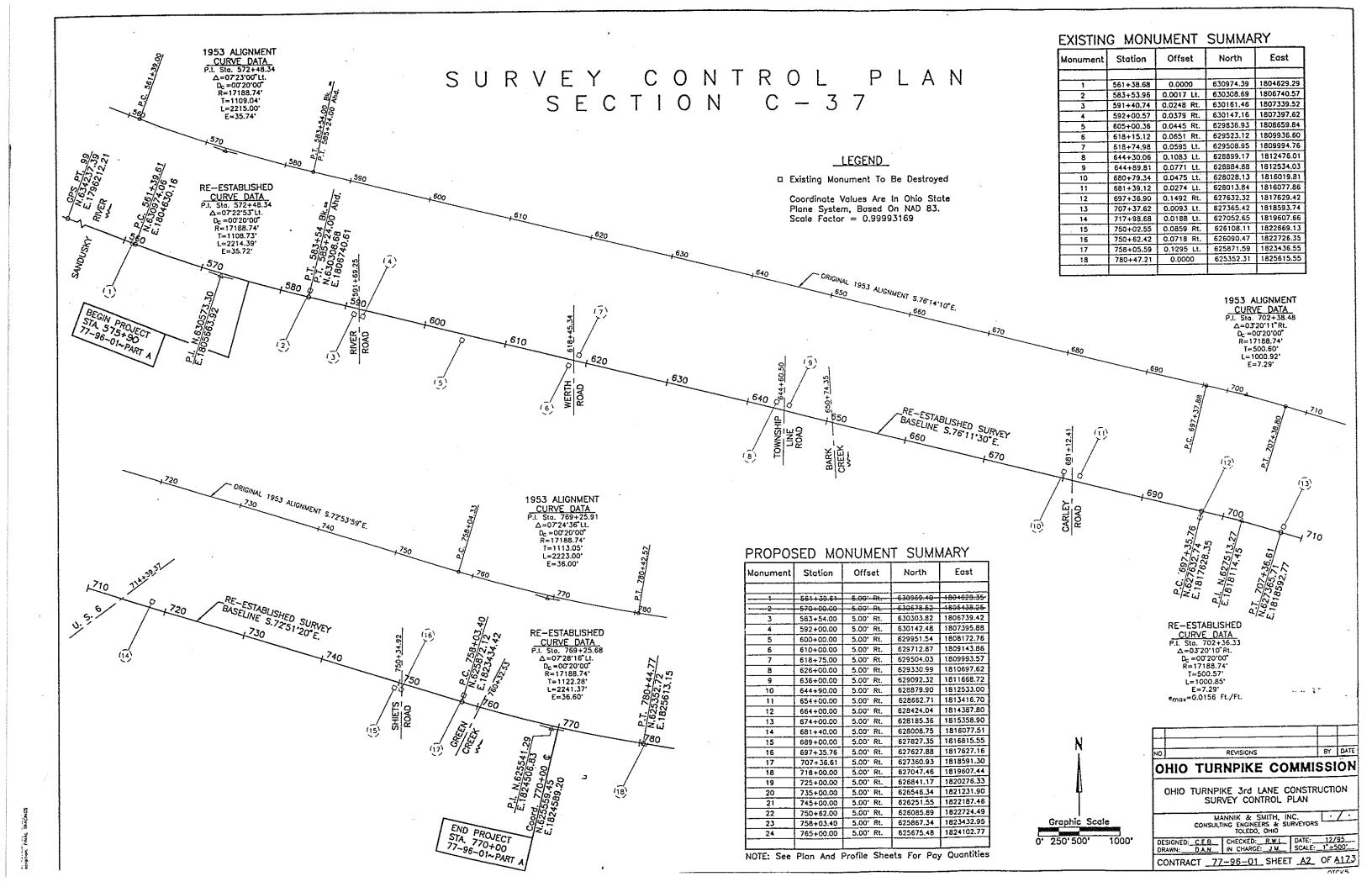
PLANS PREPARED BY MANNIK & SMITH, INC. CONSULTING ENGINEERS & SURVEYORS
3539 GLENDALE AVENUE TOLEDO, OHIO 43614 (419) 385-9222

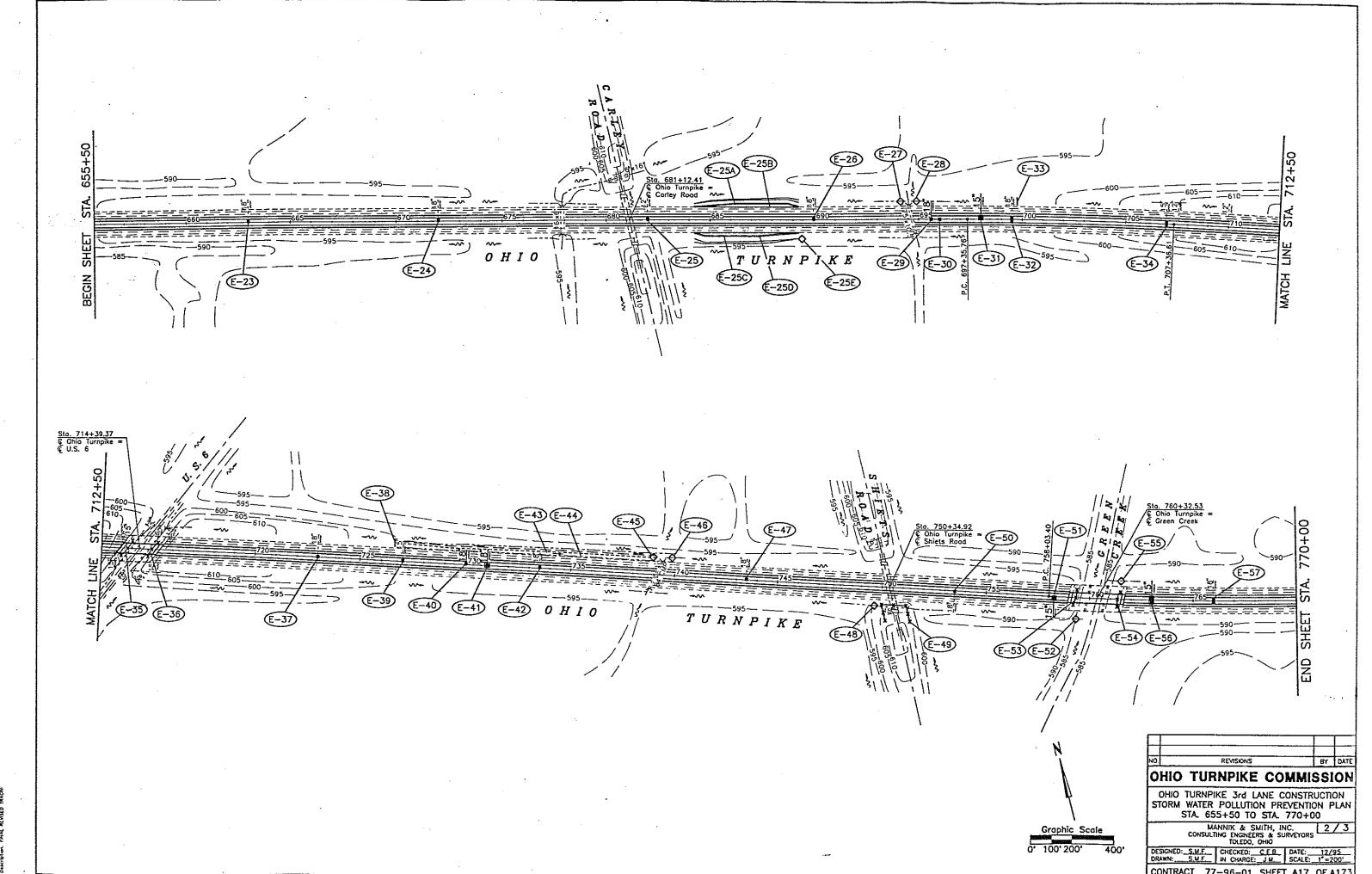
Consultants For Bark Creek Bridge

ULRICH-CH'ANG & ASSOCIATES INC.

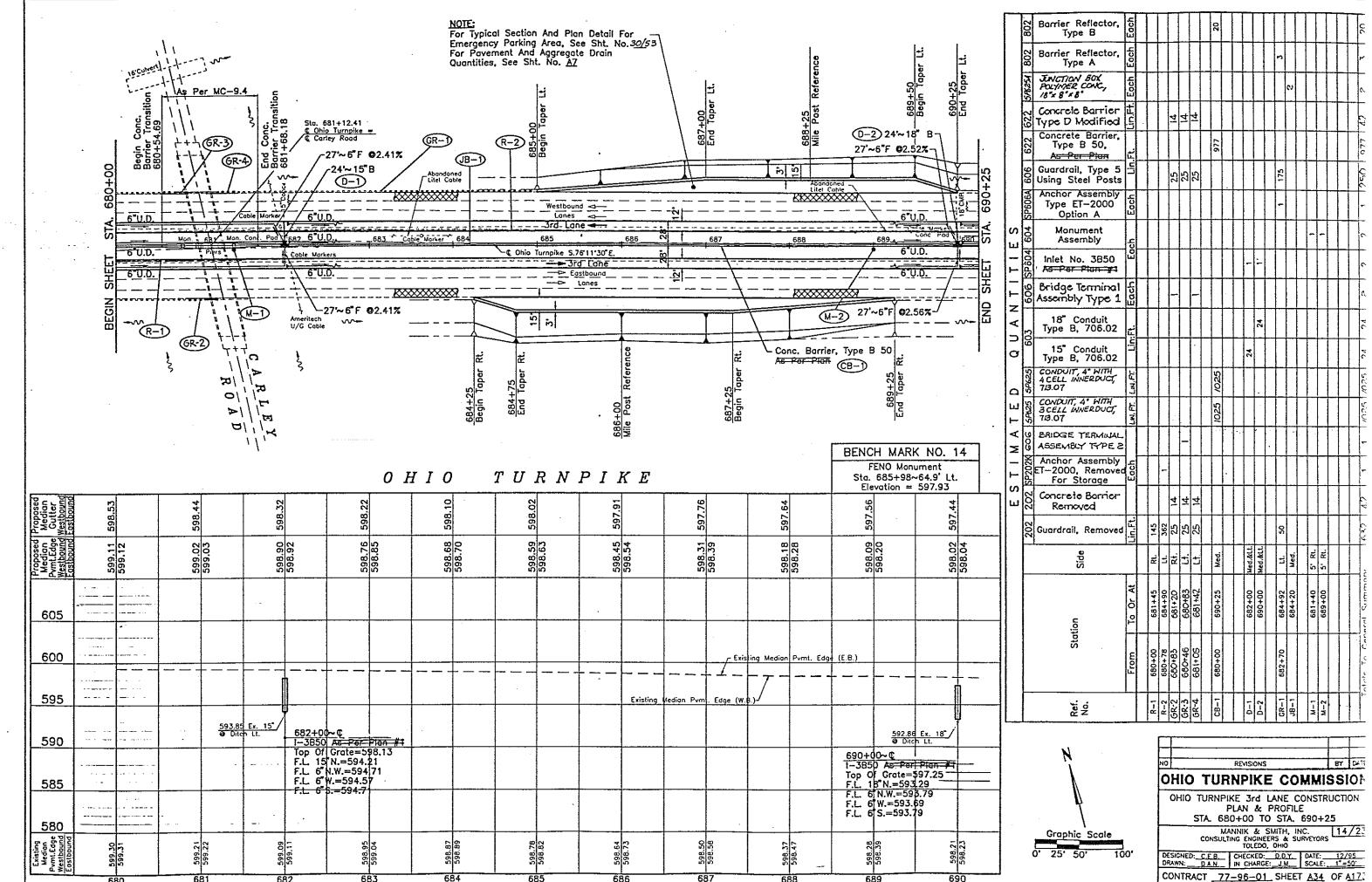
3220 CENTRAL PARK WEST TOLEDO, OHIO 43617 (419) 841-4704

DESIGN CONTRACT NO. 71-95-10

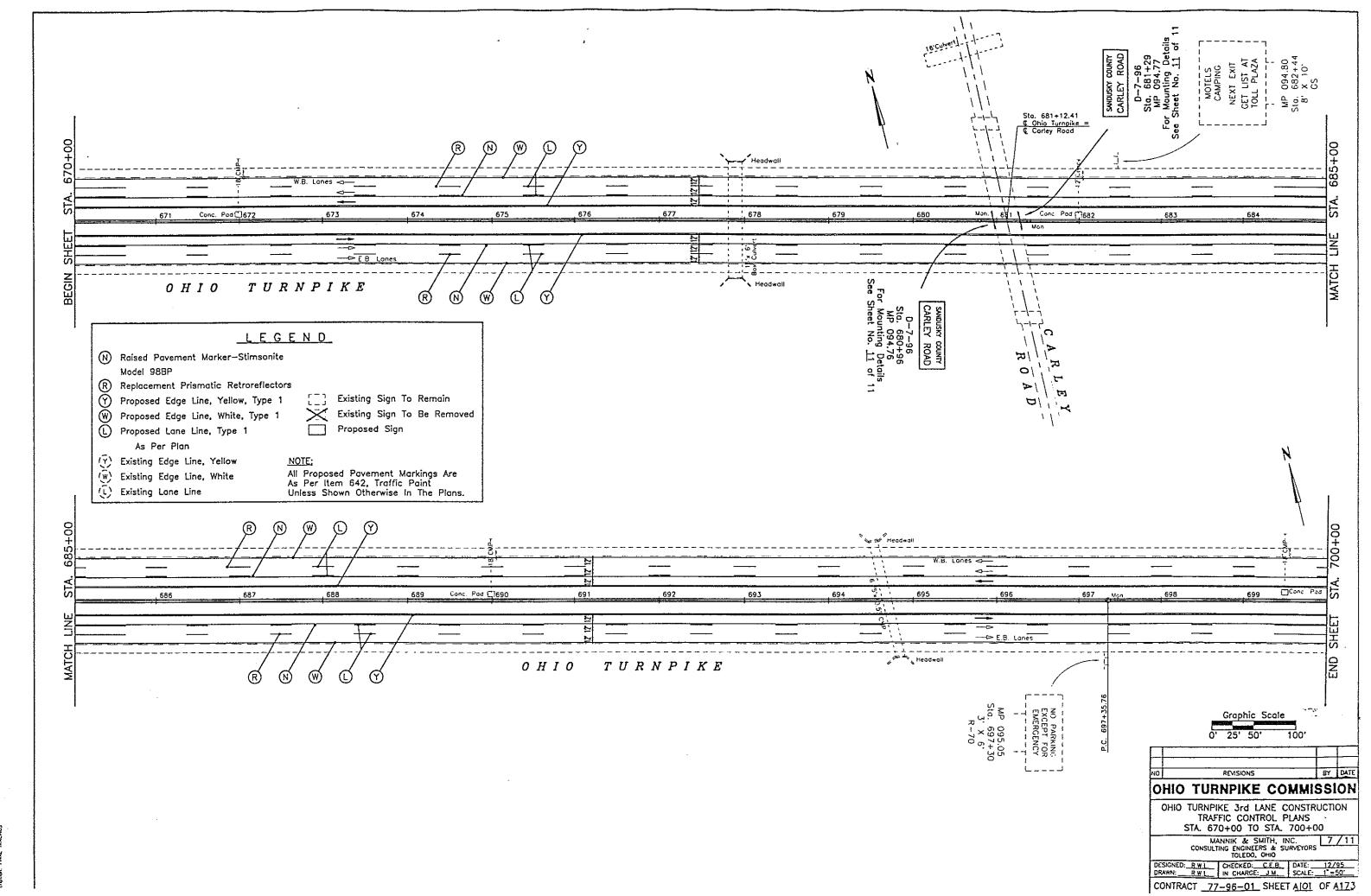




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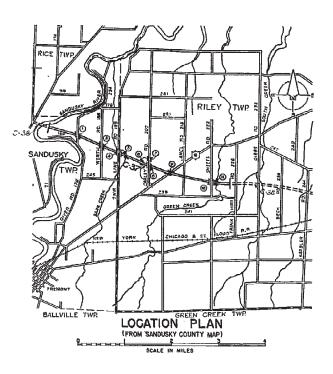
CONTRACT NO. C- 37 COUNTY - SANDUSKY DATE:



# OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1
DESIGN SECTION D-12

CONTRACT NO. C-37
TURNPIKE CONSTRUCTION CONTRACT
STATION 557+52 TO STATION 770+00



APPROVAL RECOMMENDED BROWN & BLAUVELT CONTRACTING ENGINEER

Harved a Blanvett

Feb. 4, 1953

APPROVED

J. E. GREINER CO.

CONSULTING ENGINEER

J Deuthins Ja





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- 2 GENERAL NOTES AND LEGEND
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- 4 SUMMARY OF ESTIMATES
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2-19-53 ZZ CULVERT PIPE BEDDING AND

- I- 23-53 21 TRANSVERSE PAVEMENT JOINTS TYPE C
  - BACKFILL

AS-BUILT PLANS

OHIO TURNPIKE COMMISSION OHIO TURNPIKE PROJECT NO. 1

LIST OF DRAWINGS

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ALL ELEVATIONS REFER TO THE U.S.C. & G.S. HEAN SEA LEVEL DATUM.

ALL CO-ORDINATES AND BEARINGS SHOWN ON THE PLANS ARE BASED ON THE LAWBEST CONFORMAL CONTO PROJECTION FOR THE STATE OF OHIO - NORTH ZONE.

THE THEORETICAL TURNPIE GRADE LINE AS SHOWN ON THE PLANS REPRESENTS THE CENTER LINE OF BOTH TURNPIE ROADMAYS PROJECTED TO THE GENTER LINE OF BURN DUBLISHED.

LINES AND GRADES OF NEW PAVERENTS WILL BE ADJUSTED TO MEET EXISTING PAVERENTS AS DIRECTED BY THE ENGINEER.

THE PLANS PROVIDE FOR THE PERFORMANCE OF GERTAIN WORK, SUCH AS THE RELOCATION OF STREAKS, GRADED AREAS, ETC., OUTSIDE THE ESTADLISHED OHTO TIMPIERE AND/OR PUBLIC RIGHTS OF WAY. THE GONTRACTOR SHALL NOT ORDER MATERIALS NOR PROGESO WITH THIS WORK UNTIL SPECIFICALLY AUTHORIZED TO DO SO BY THE ENGINEER.

#### UTILITY

LOCATIONS OF EXISTING UTILITIES PUBLIC AND/OR PRIVATE AND FIELD TILE DRAINAGE AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION

# MAINTENANCE OF TRAFFIC

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ALONG THE PRESENT ROADMAY OF U.S. ROUTE #6. THE APPROVAL OF ALL TEMPORARY CLEARANGES SHALL BE OBTAINED FROM THE DEPARTMENT OF HIGHWAYS, STATE OF OMIO IN WRITING PRIOR TO CONSTRUCTION.

CROSSINGS OF THE TURNPIKE AT CO RD 176 (RIVER ROAD), TWP RD. 198 (TOWNSHIP LINE HD.) AND CO. RD. SCO (CARLEY RD.) ARE TO BE MAINTAINED UNTIL COMPLETION OF THEIR RESPECTIVE STRUCTURES AND ROADWAY

#### LANDSCAPING

TOPSOIL (ITEN L-3) SHALL BE SPREAD TO A COMPACTED DEPTH OF TWO (2) INCHES ON AREAS INDICATED ON THE

BOWENEAL (ITEM L-3) SHALL BE APPLIED AT THE RATE OF 20 LBS. PER ONE THOUSAND (1000) SQ. FT. AND THOROUGHLY INCORPORATED INTO THE SUBGRADE BEFORE THE TOPSOIL HAS BEEN PLACED.

AGRICULTURAL GROUND LIMESTONE (ITEN 1-9) SHALL BE APPLIED AT THE RATE OF 100 LBS. PER DUE THOUSAND (1000) SQ. FT. AND THOROUGHLY INCORPORATED INTO THE TOPSOIL.

COMMERCIAL FERTILIZER 10-5-4 (ITEM L-9) BHALL HE APPLIED AT THE RATE OF 20 LBS. PER ONE THOUSAND SQ. FT. AND THOROUGHLY INGORPORATED INTO THE TOPSOIL.

SEEDING & PROTECTING (ITEM L-9) AND SEEDING & MULCHING (SPECIAL SETTING, ITEM L-19) SHALL HE DONE ONLY BETWEEN APRIL 15 & JUNE 15, AND BETWEEN AUGUST 15 & OCTOBER 15, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

### **SPECIFICATIONS**

THIS PROJECT SHALL BE CONSTRUCTED UNDER THE FOLLOWING SPECIFICATIONS:

a) OHIO TURNPIKE PROJECT NO 1, GENERAL SPECIFICATIONS, PATED DECEMBER 9, 1952.

t) SPECIAL PROVISIONS FOR CONTRACT C-37.

c) SUPPLEMENTAL SPECIFICATIONS B-20, DATED DECEMBER 9, 1952
SUPPLEMENTAL SPECIFICATIONS I-16, DATED DAY 86 1953
SUPPLEMENTAL SPECIFICATIONS I-30, DATED DECEMBER 9, 1952
SUPPLEMENTAL SPECIFICATIONS I-30, RW. JULY 9, 1952
SUPPLEMENTAL SPECIFICATIONS I-30, DATED DECEMBER 9, 1952
SUPPLEMENTAL SPECIFICATIONS I-9, DATED DECEMBER 9, 1953
SUPPLEMENTAL SPECIFICATIONS B-21 DATED MAY 26, 1955
SUPPLEMENTAL SPECIFICATIONS A-DATED MAY 26, 1955
SUPPLEMENTAL SPECIFICATIONS A-DATED MAY 26, 1955
SUPPLEMENTAL SPECIFICATIONS A-DATED MAY 26, 1955
SUPPLEMENTAL SPECIFICATIONS I-30 DATED MAY 28, 1952
SUPPLEMENTAL SPECIFICATIONS I-30 DATED MAY 28, 1952

# LEGEND

	630
SURVEY BASE LINE	A)
EXISTING PROPERTY LINE	<i>EL</i>
EXISTING FENCE LINE	x
EXISTING PROPERTY LINE (FENGED)	Fence is PL
EXISTING R/W LINE	
PROPOSED R/W LINE	
EXISTING FARM TILE DRAINAGE	<del></del> 0
PROPOSED FARM DRAINAGE COLLECTOR	6″
PROPOSED DROP INLET	<b>-</b>
PROPOSED TILE LINE BREATHER	
PROPOSED DITCH AND ELEVATION	Ditch E1.5922
PROPOSED GUARD RAIL (FOR TYPE SEE PLANS)	
PROPOSED MONUMENT	•
PROPOSED TILE LINE JUNGTION BOX.	<b>⊠</b>

#### STRUCTURAL

#### DESIGN SPECIFICATIONS & LOADINGS

STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF THE OHIO HIGHMAY DEPARTMENT DESIGN SPECIFICATIONS FOR HIGHMAY STRUCTURES.

# STRUCTURAL STEEL

15/16" DIAMETER OPEN HOLES AND 7/6" DIAMETER RIVETS UNLESS NOTED.

HO CALBER IS REQUIRED FOR STEEL BEAMS UNLESS NOTED ON THE DESIGN DRAWINGS BUT ALL BEAMS SHALL BE CHECKED FOR SIGNATURES AND PLACED IN THE STRUCTURE SO THAT ANY CURVATURE WILL GIVE CAMBER. IN OFFERAL THIS MEANS THAT ALL BEAMS WILL BE PLACED WITH THE CONVEX SIDE UP WITH THE EXCEPTION OF SHORT BEAM SECTIONS OVER THE SUPPORTS OF CONTINUOUS STRUCTURES WHICH SHOULD BE PLACED WITH THE CONCAVE SIDE UP.

ALL EXPANSION SHOES SHALL BE SET VERTICAL FOR 50° TEMPERATURE. THE SHOES AND EXPANSION DAIS SHALL BE SET IN CORRECT POSITION FOR TEMPERATURE AT TIME OF ERECTION.

ALL BEAN SPLICES SHALL BE ASSEMBLED IN THE SHOP AND REAKED AS SPECIFIED FOR FIELD CONNECTIONS.

WHEN STEEL EXCEEDING ONE INCH IN THICKNESS IS TO BE WELDED, ELECTRODES OF CLASSIFICATION NUMBER E6015 OR E6016 SHALL BE USED, ALL WELDING SHALL BE CLASS "A".

FOR SPAN WITHOUT HINGED BEARINGS ON AN INCLINED GRADE OF 1% OR MORE THE SOLE PLATES SHALL BE BEVELED SO THAT THE SUBSTRUCTURE BRIDGE SEATS MAY BE LEVEL.

#### CONORETE

ALL CONGRETE FOR STRUCTURES SHALL BE CLASS "C".

ATTENTION IS DIRECTED TO THE ANOHOR HOLTS REQUIRED FOR ATTACHING HAND RAILS AND GUARD RAILS TO THE PARAPETS OF THE STRUCTURES.

THE SEQUENCE OF DECK SLAB POURS SHALL BE AS SHOWN ON THE DESIGN DRAWINGS. NOT NOTE THAN 36 HOURS SHALL ELAPBE BETWEEN ADJACRIT POURS. THE FINISH ON THE TURNPIKE OVER STRUCTURES SHALL BE MACHINE FINISH.

#### SUBSTRUCTURES

THE ENTIRE FILL SHALL BE PLACED BEFORE EXCAVATING FOR THE ABUTMENTS.

#### CAST-IN-PLACE CONCRETE PILES

Piles driven without core or mandrel shall have forced or cast steel point s'diameter. Piles shall taper i'in 710° first thirty leet of length from tip, then 55'111 20'-0' to butt. Shells shall have sufficient strength to withstand driving but shall not be less than 11 gauge. Upper third of pile shall be reinforced with 6 \*4 bars which shall extend 1-3" Above cut-off, and \*2 ties 12'oc. splices shall be of adequats strength and approved by the engineer.

PILES DRIVEN WITH CORE OR MANDREL SHALL HAVE FORGED OR CAST STEE! POINT PILES 37'AND LESS IN LENGTH SHALL HAVE 8" DIAMETER TIP AND TAPER I'N 2'6'. PILES OVER 37'LONG SHALL HAVE 8-"EDIAMETER TIP AND SHALL BE STEE TAPERED I'N 8'-0'. CASINGS SHALL BE OF SUFFICIENT STRENGTH TO RESIST EARTH PRESSURE, UPPER HALF OF PILE SHALL BE REINFORCED WITH 6-\*6 BARS WHICH SHALL EXTEND 1'-3" ABOVE CUT-OFF, AND \*2 TIES 12" O.C.

ADEQUATE PROVISIONS SHALL BE MADE TO INSURE THAT A MINIMUM CLEARANCE OF INSURE THAT A

TEBUILI PLANS 6650 115V 12-05 A Fire legent designation for agric, drain. OHIO TURNPIKE COMMISSION

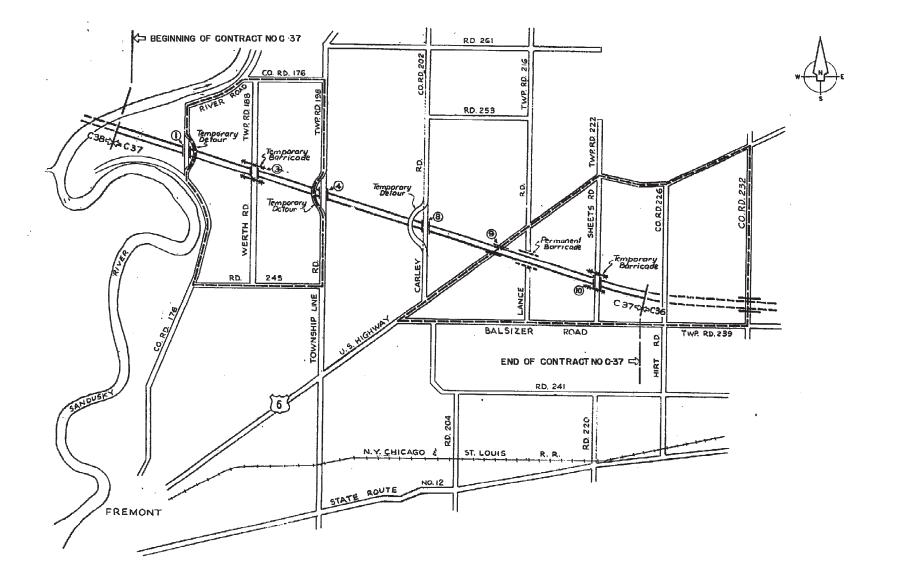
OHIO TURNPIKE PROJECT NO. 1

GENERAL NOTES & LEGEND

BROWN & BLAUVELT/ CONTRACTING ENGINEER DESIGN SECTION D-12

IN CHARGE DATE FOR 4 1953 CONTRACT NO. C-37

SHEET 2 OF 60



MAINTENANCE OF TRAFFIC
Traffic shall be maintained at all times along
the present roadway of U.S. Route #6. The approval
of all temporary clearances shall be obtained
from the Department of Highways, State of Ohio,
in writing prior to construction.

Crossings of the Turnpike at Co.Rd. 176 (River Rd.), Twp. Rd. 198 (Township Line Rd.), and Co.Rd. 202 (Carley Rd.) are to bemaintained until completion of their respective structures and pavements

Immediately upon restoration of traffic to the new bridges and approaches, the temporary roadway surfaces and embankments shall be removed and the site restored to its original condition

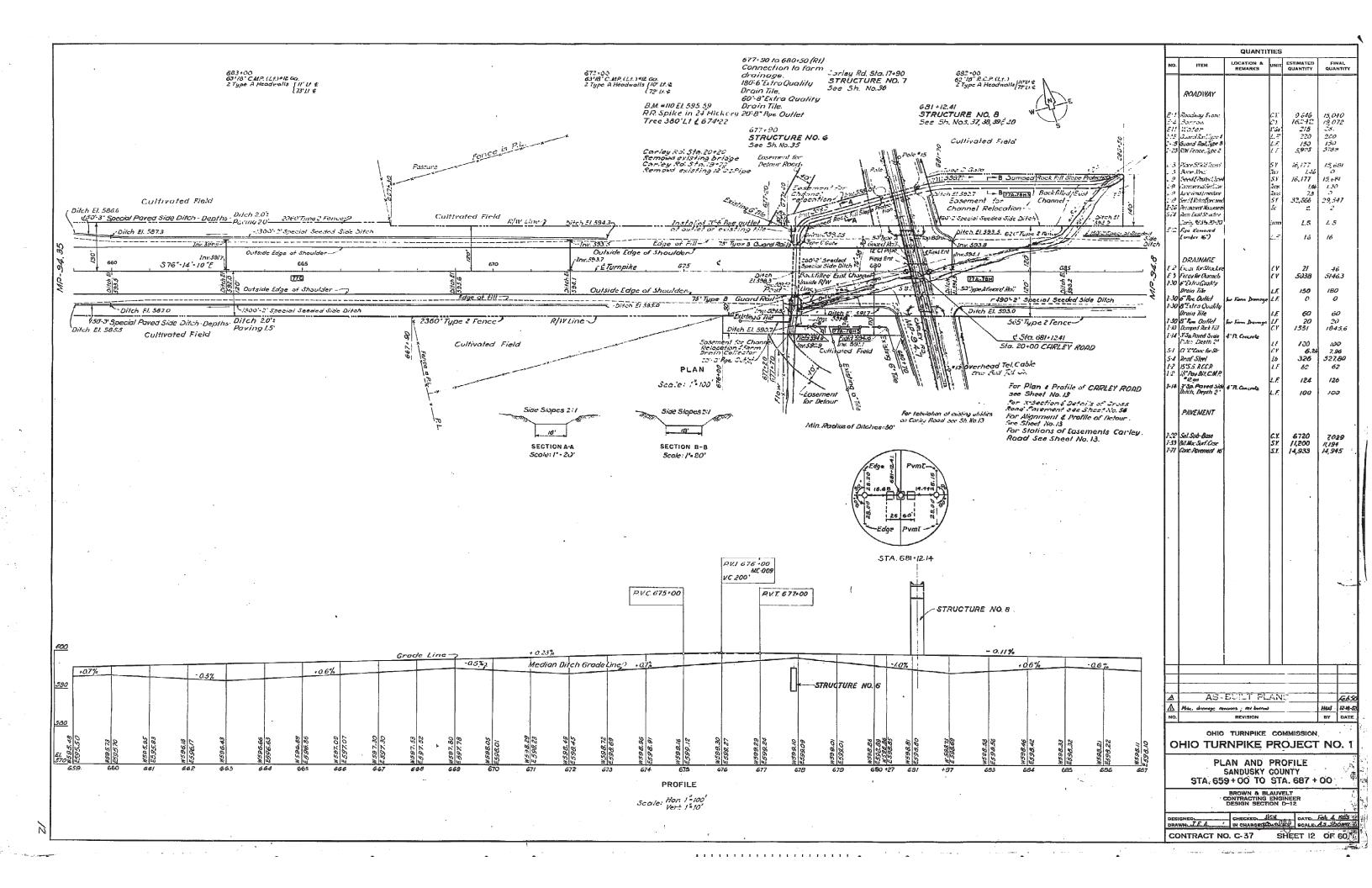
---- Denotes Traffic Delour Routing

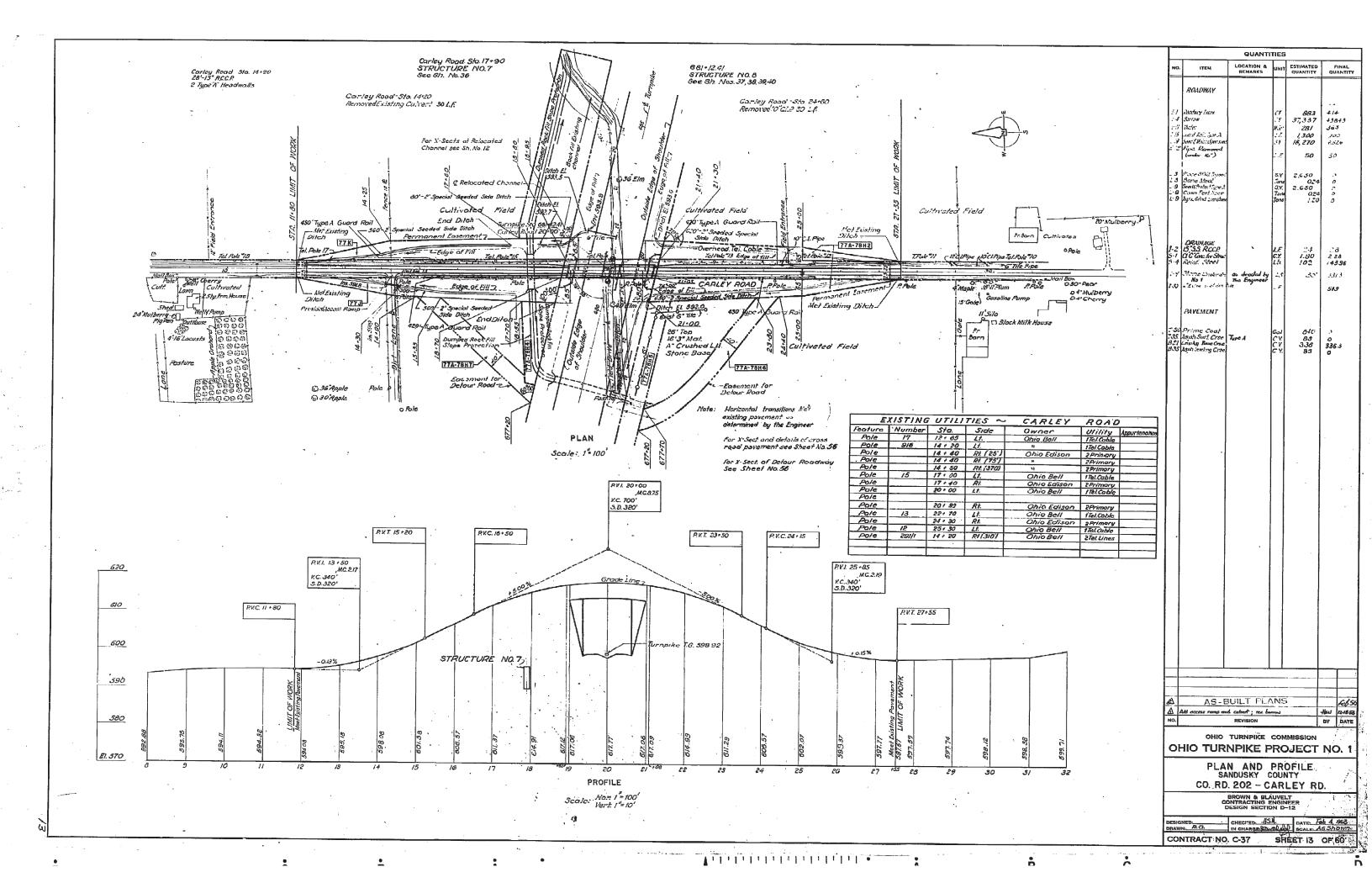
#### Note:

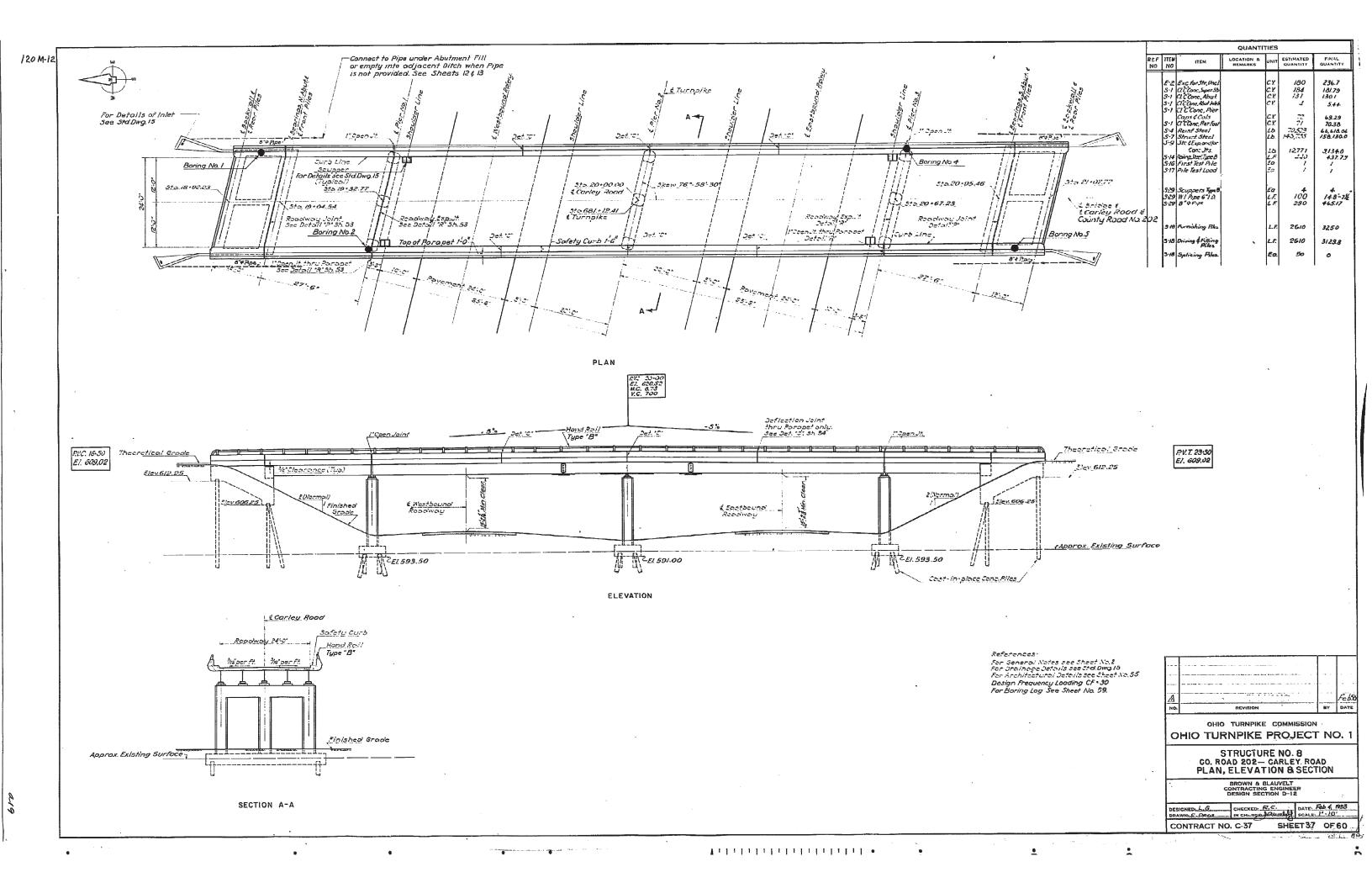
For details of the Temporary Detours, see Contract Drawings, Sheets 7,11,13 and 56. For details of the Permonent Barricades, see Standard Drawing No.14.

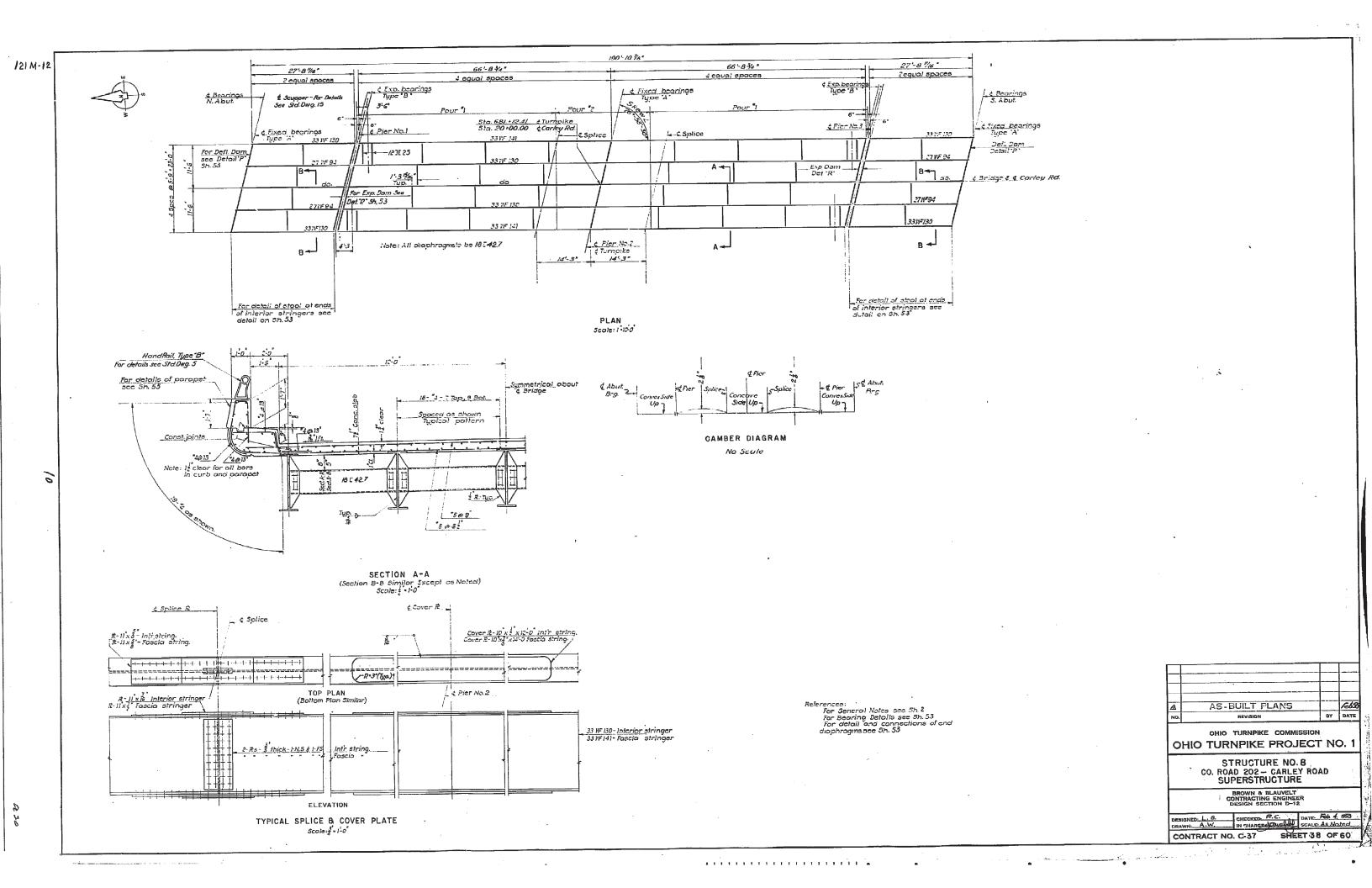
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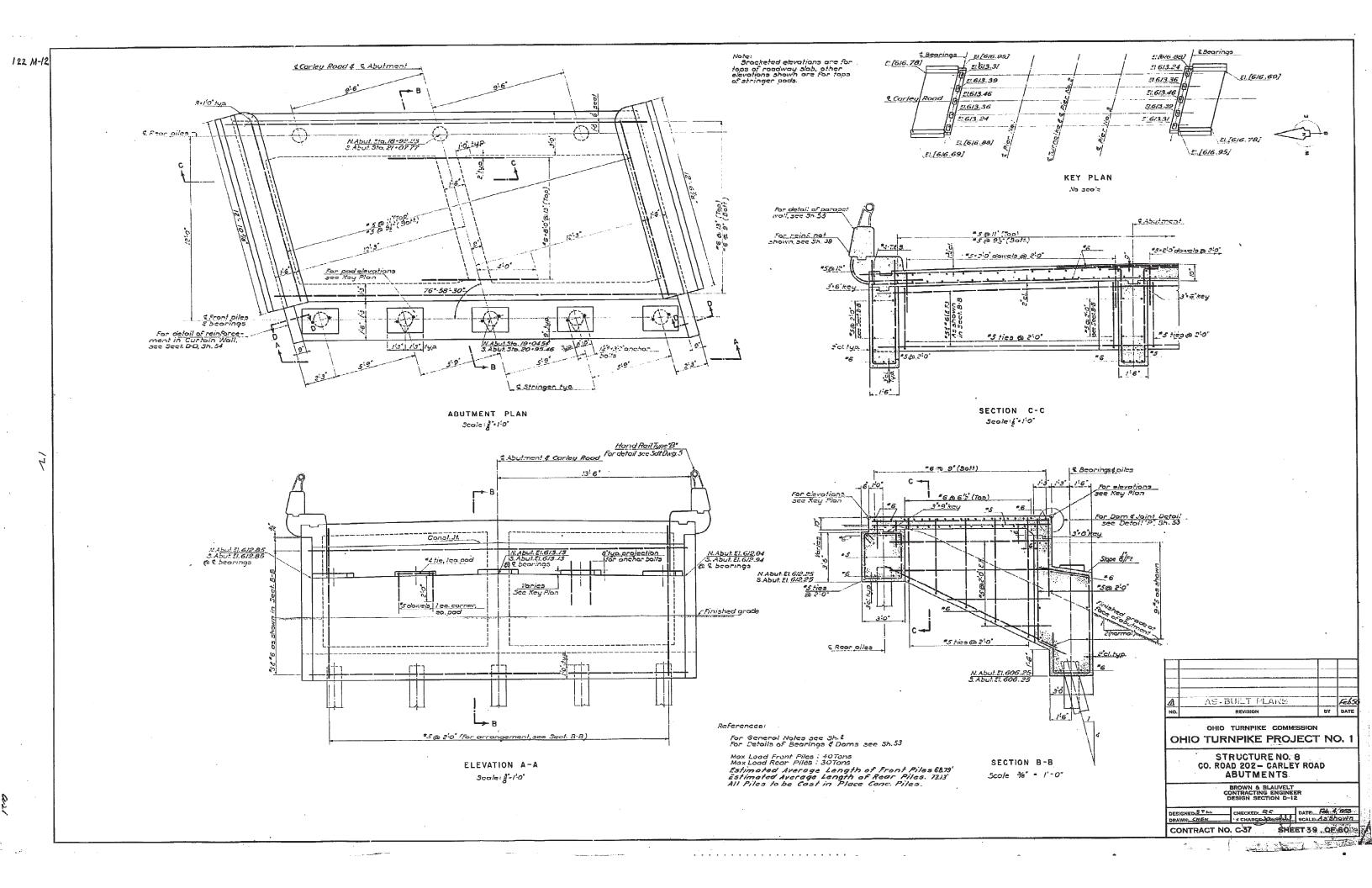
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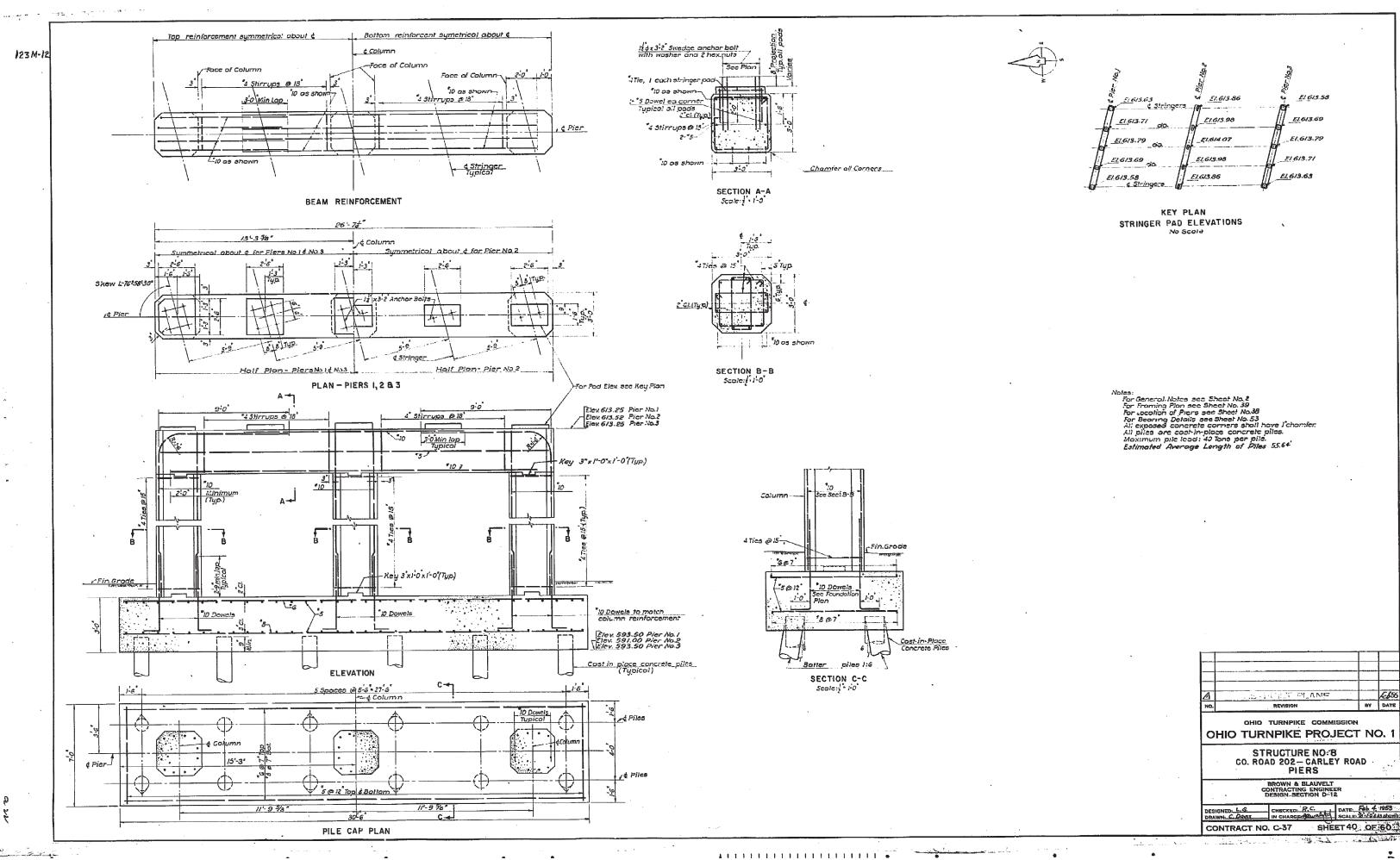




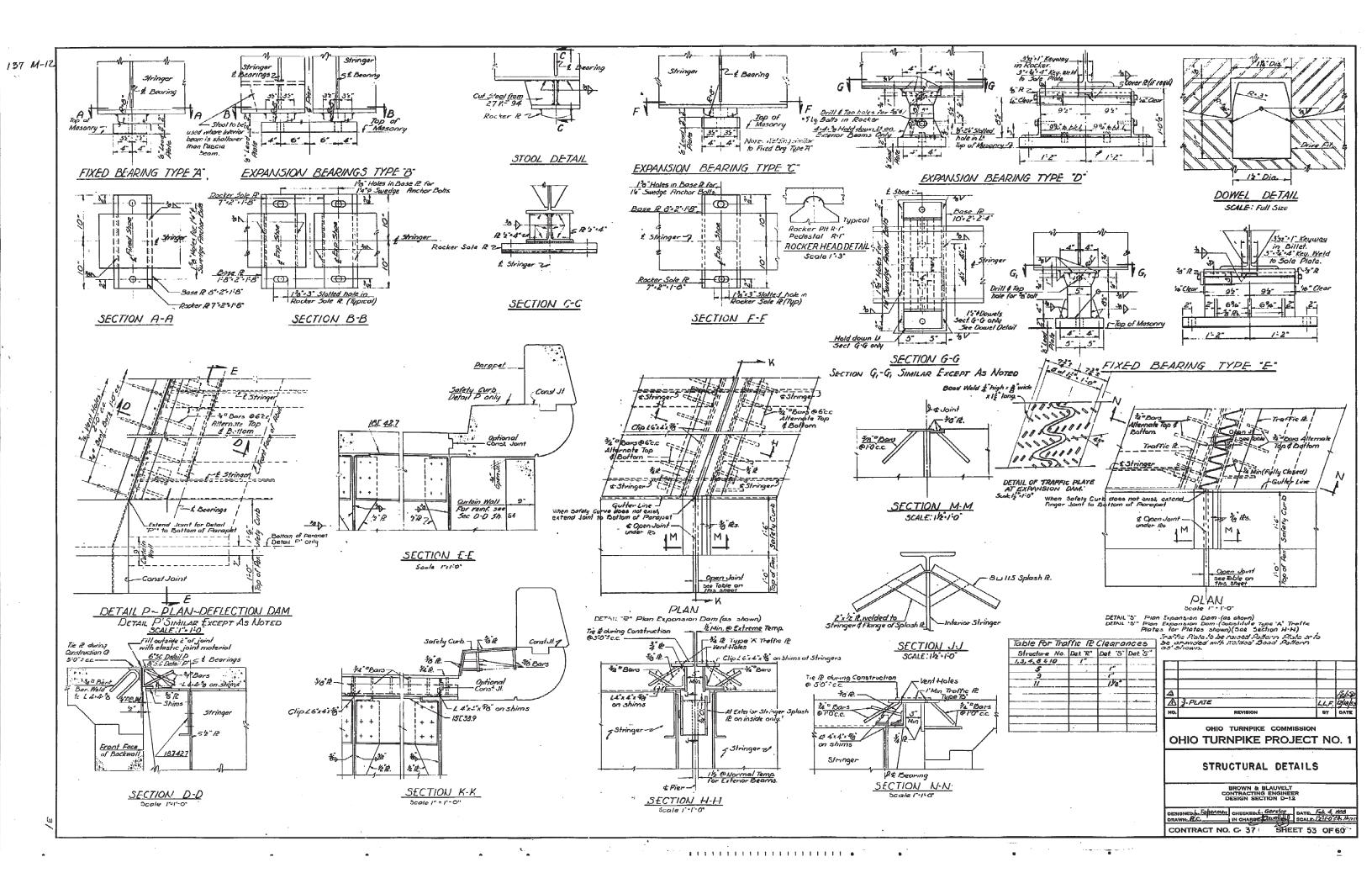


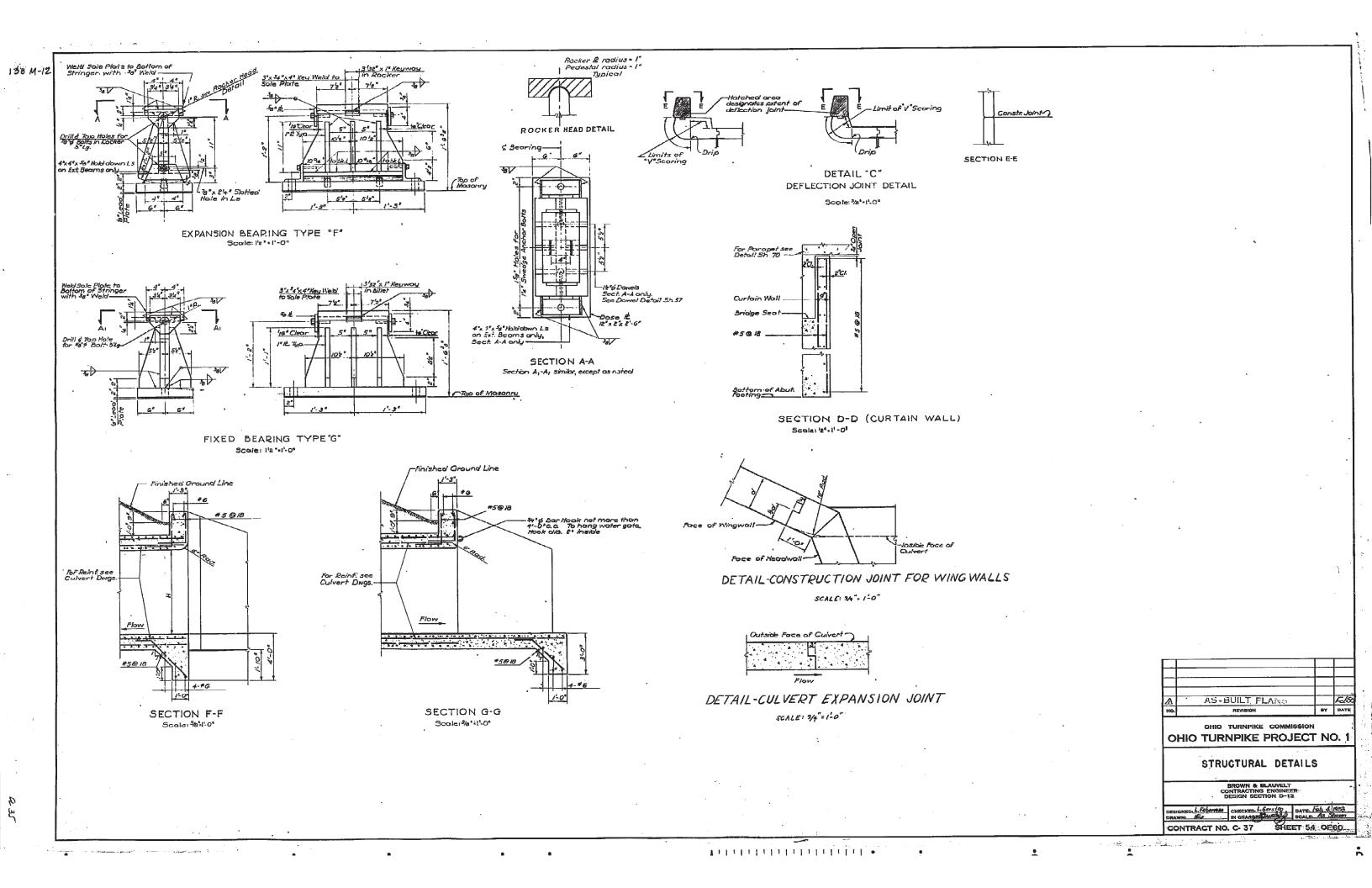


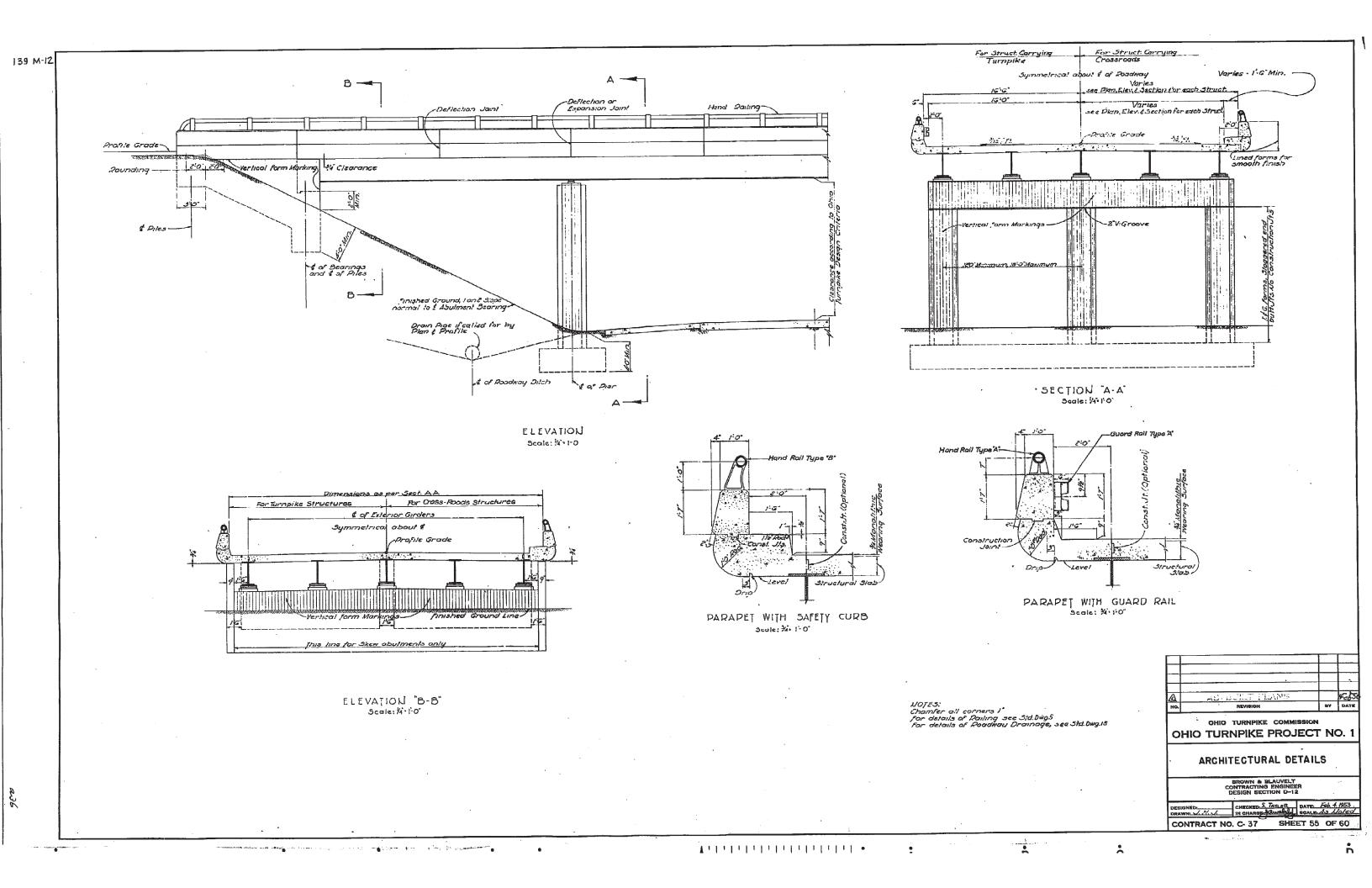


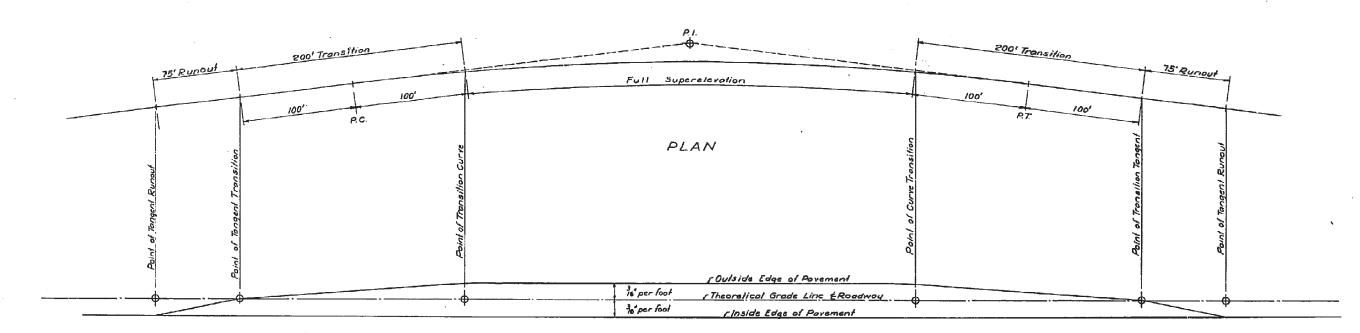


ALTERNITIES CONTRACTOR



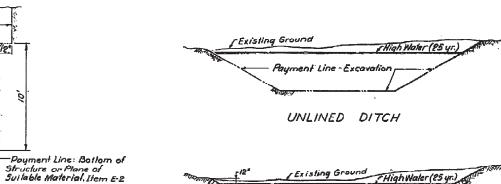


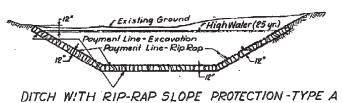


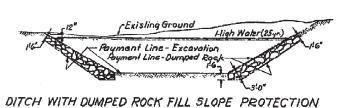


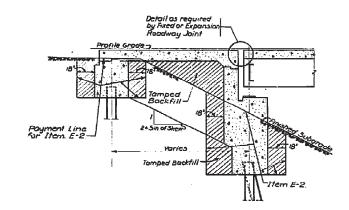
PROFILE

# DEVELOPMENT OF SUPERELEVATION ON CURVES









STRUCTURAL EXCAVATION PAYMENT LINES IN FILL

	3.A	PE C CULVE	RT HEADW	MLL	
Size	*н"	<i>ከ</i> *	'w'	Cu. Yds. Concrete	ibs Steel
G'-5" x 10'-3" CMP North PLATED "B G- FALLING BY, CML	7'-2'	5'-5"	12'-4"	18.80	/220
78°C M.P. *86s. Pol. lov 8400	7'-3"	5'*6*	12'-6"	18.20	//80

For Details of Type G Culvert Headwalls See Standard Drawing No.3

<del> </del>			+-
R	AS-BUILT PLANS	-	46
Δ	Res. headwell chart	-1134	12.18
NO.	REVISION	BY	DA

PAYMENT LINES &

SUPERELEVATION DETAILS

BROWN & BLAUVELT

DESIGNED: DRAWN: JMCK	CHICKED:	HSAL COUNTY	DATE:_	Feb 4 1953 As Shown
CONTRACT NO	_			OF.60

Payment Line Payment Line Baltom of Pipe or Planc of Suitable Material Item E-2.

24" I.D. or Smoller

More than 24" I.D.

STRUCTURAL EXCAVATION PAYMENT LINES

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STRUCTURE NO. 7 STRUCTURE NO. 6 STRUCTURE NO. 4 (CONCL.) STRUCTURE NO. 5 HOLE NO. I HOLE NO. 4 HOLE NO.5 HOLE NO. I HOLE NO. 3 HOLE NO.1 DEPTH CASING SAMPLE CASING BLOWS SAMPLE BLOWS CASING BLOWS SAMPLE BLOWS DEPTH CASING FEET BLOWS SAMPLE BLOWS CASING BLOWS SAMPLE BLOWS CASING BLOWS FEET BLOWS 594 6' - Surface 20 - City, Fine to Coarse Sond, Dinarray, Most, Firm. 593.5" - Surface 592.9'-Surface 0.0 577.4" - Surface 59¢ 6'- Surface 0.0 Silt, Clay, Sand, Brown, Dry, Hard Ckry, Sand Small Gravel Dk-Gray, Moist, Firm, Loase 5.0 Sift, Brown, Moist, Medius 14 588.5° 5.0 7 Sut Clay Sava Srown to Dk-Gruy Dry to Noist, Hara To Medium 15 571 4' 11 584.3" Clay Silf, Fine to Coarse Sand, Dk-Gray to Brown, Moist, Hard to Firm. 10.0 10.0 8 Clay Silf, Dr. Gray to Brown, Maist, Medium Clay, Sill, Fine Sand, Dk-Gray. Brown, Moist, firm to Medium 570.9° 150 lbs Tush Sample 569.4° 566.9° 15.0 Silt, Clay, Gray to Brown, Moist, Medium 2° 300 lbs Hammer 574 6' 2 0.0 20.0 Clay, Sill, Fine Gravel Dk. Gray, Waist, Firm to Medium Clay, 3.1H, Rine to Coarse Sand, Dr-Gray to Brown, Moist, Medium 25.0 Э 4 5013' Ckry, Silt, Fine Sand, Sk-Gray, Moist, Medium Clay, Little Silt, Goarse Sand, Dk: Gray, Moist, Medium 8 548.9'
545.5'
545.5'
ISB flush Sample
544.6'
72 Chry, Silf Fine Sand,
Gravel, Dir-Gray,
Moist Compact, frund 6 Clay, Silt, Sand, Fina Gravel, Dk-Gray, Srown, Koist, Medium. 76 86 98 107 88 135 135 310 535 3 553.5' 495 534.9'

STRUCTURE NO. 8								STRUCTURE NO.9				
HOLE	HOLE NO.I DEPTH CASING SAMPLE		NO. 2	HOLE NO.4 . Casing sample		- HOLE NO.5 DEPTH GASING SAMPLE		HOLE NO. 1 CASING SAMPLE		HOLE NO. 2 Casing sample		•
FEET BLOWS	BLOWS	CASING BLOWS	SAMPLE BLOWS	BLOWS	BLOWS	FEET SLOWS	BLOWS	BLOWS	BLOWS	BLOWS	BLOWS	
0.0	594.2 - Surface		593.6' - Surface		594.7'-Surface	0.0	5934 - Surface		594.2' - Surface	25	593 3 - Surface  Chay, 5ill, Sand, Gravel.  19 Dic Brown, Moist, Compact	
10 18 25 27 5.0 28	17 Silt, Clay, Sand, Dk. Gray- Brown, Dry to Moist, Hard	10 H 5 15 15 15 15 15 15 15 15 15 15 15 15 1	10 Clay, Sand, Humus, Fine Gravel, Brown, Moist, Firm Sitr, Clay, Sand, Lt-Brown to Die Gray, Moist, Firm	2/ 2/ 22 29 35	Clay, Silf Sand Gravel, bk-Gray, Moist, Firn)	12 18 14 14 5.0 21	18 Clay, Silf, Sand, Grave!, DN-Gray, Mast to Dry, Loose	55 55 55 57	3ilt, Clay, Fine Sand Brown to Gray, Bry, Hard	21 17 16 12	Clay,Silt, Fine Sand, Brown, Moist, Firm	
25 36 25 25 10.0 22	19 58A.E'	18 19 17 21 24	17 587.6" Clay, Silt, DkGray to Brown, Moist, Firm to Medium	50 56 47 32	15 Clay, Silf, Fine Sand Dk: Gray, Brown, Most, Firm to Medium	55 39 25 10.0 8/	Uay,Silf, fine Sana, FA-Gray to Brown, Most, firm to Medium,	37 37 34 39 40	16 586.2	7,6 24 27 27	Clay, Silt, Brown, Moist, Firm to Medium	
40 31 25 25 22 15.0 29	17 582.2' 130 ibs Push Sample 580.9'	19 16 14 13	18 592.6" Silf,Clay, Fine-Sand, Dk-Gray to Brown, Moist, Medium	36 33 37 37 33	15	30 37 35 33 15.0 30		25 2/ 22 24 23	11	. 99	Clay, Silf, Little FineSand Brown, Moist, Medium	
20 27 25 33 200 4/	19 Clay, Silf, Dk-Gray to Brown, Maist, Medium	17 19 18 20	19 5778' EL. 578.6-Bottom of Casing 15' of Casing Left in Place	31 19 31 2 27 4 26	9 578.7' Clay, Silt, Dk-Gray, Maist, Medium	35 27 33 34 200 35	576.4' 150 lbs Push Sample 575.1'	27 30 35 40	14 Siff Clay, Lt-Brown fo Groy, Moist, Medium	29 29 28 26	Clay, Silf, Dk-Gray to Brown, Moisl, Medium	
25.0 40 25.0 40	14 573.21 Clay, Silt, Little Coorse Sand, Gravel, Dk-Gray, Moist, Medium	20 25 29 35	18 Clay, Silt, DkGray, Moist, Medium	26 34 36 36	5 573.7'  Clay Silt Fine Sand	35 35 39	370 lbs Hammer Cloy, Silt, Dk-Gray, Moist, Medium	27 31 24 31 36	72	25 26 27 30 32	8 571.6' 150 lbs Push Sample 570.3'	
34	22 568.2' 566.2' 150 jps Push Sample	38 40 43 41	21 563.6'	38 47 42 46	Clay Silt Fine Sond 8 Dk: Gray Moist Medium	4/ 4/ 33 300 38	Clay,Sill, Sand, Fine Gravel Maist to Wet, Medium	127 27 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	14 568.2'	28 30 37 30 34	5	æ æb
30.0 /03 /03 /04 /09 //3	Chay Suff Coase Sand Dk-Groy Most, 26 563.2° Prim to Medium- 563.2° Prim to Medium- 563.2° Prim to Medium- Dk-Gray, Moist, Firm to Medium		27 300.0		9 563.7'	48 49 49 49 35.0 45	6 561.4° 150 lbs Push Sample 560.1'	707 80 85 90	Silt, Clay, Coarse Sand Dk: Brown to Dk: Gray Moist, Medium		4 562.3	Add. casing left in place USU 12-18.  NO. REVISION SY DAT
35.0 125 126 127 146 200	126 /9 557,2' 47 150 lbs Push Sample 300 565,9' 500 500 500 500 500 500 500 500 500 50						50 5 557.4'		95 98 557.9 1/6 130 lbs Push Sample 99 56.6			OHIO TURNPIKE COMMISSION OHIO TURNPIKE PROJECT NO.
40.0 307 90 94 101 (03 45.0 (03 1/3	37 553.2'					45.0		112 124 128 136 130	18 549.2' Sili Cicy, Dk-Groy to Brown, Mysig Firm to Medium [15] Iso Push Sample	,		BORING LOGS STRUCTURES NOS 4 (CONCL.), 5,6,7, 8 8 9
116 132 194 5 0.0 350 210	118 20 Clay, Sitt, Coarse Sand, 118 DkGray, Moist, Medium 132 132 5.0.0 350 21 543.2'					50.0		124   Mg/st, Firm to Medium   127   139 this Pain Sample   131   134   2				BROWN & BLAUVELT CONTRACTING ENGINEER DESIGN SECTION D-12
		•					5	1.37 209 35.0 263 306	SIIt, Clay, Fine Sand, Grave 72 Dk: Gray, Moist, Firm to Hai	V,		DESIGNED. CHECKED JG DATE Fol. 4 195 DRAWN.C Davis IN CHARGE CALE SCALE AND
								374	134 536.2'			CONTRACT NO. C-37 SHEET 59 OF 60

#50 /2-18-63 BY DATE