



REQUEST FOR PROPOSALS #09-038

***ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL
REPAIRS / REHABILITATION PROJECT FOR THE 4TH STREET
BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE***

DEPARTMENT OF GENERAL SERVICES

COUNTY OF LEHIGH

MAY 19, 2009

Non-Mandatory Pre-Proposal Meeting:

Due Date / Time:

Opening Date / Time:

May 27, 2009, 10:00 A.M., Local Time

June 10, 2009, 4:00 P.M., Local Time

June 11, 2009, 10:00 A.M., Local Time

TABLE OF CONTENTS

<u>COVER PAGE</u>	<u>Page</u> 1
<u>TABLE OF CONTENTS</u>	2
<u>INTRODUCTION</u>	4
<u>SPECIFICATIONS</u>	
1.0 Purpose	5
2.0 Background	5
3.0 Schedule of Events	5
4.0 Non-Mandatory Pre-Proposal Meeting	6
5.0 Scope of Work	6
6.0 Conforming Work	9
7.0 Performance Standards	9
8.0 Term of Contract	9
9.0 Qualifications & Experience	9
10.0 Compensation	10
11.0 Insurance	12
12.0 Hold Harmless Clause	12
13.0 Exclusive Jurisdiction	13
14.0 Federal Excise and PA State Sales Tax	13
15.0 Contract	13
16.0 Availability of Appropriated Funds	13
17.0 Tax Delinquency	13
18.0 Undue Influence	13
19.0 Factors for Award	13
20.0 Form of Proposal	14
21.0 Care of Data	15
22.0 Exceptions	15
23.0 Public Records Requests	15
24.0 No Proposal Reply	16
25.0 Questions / Clarifications	16
26.0 Future "Invitations to Bid" / "Requests for Proposal"	16
27.0 Tabulation of Responses	16
28.0 Authority to Distribute RFP Packages	17
<u>PROPOSAL FORM</u>	19

TABLE OF CONTENTS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

<u>REFERENCE FORM</u>	21
<u>NO PROPOSAL REPLY FORM</u>	22
<u>ATTACHMENT A – EXCERPTS FROM THE NBIS BRIDGE SAFETY INSPECTION REPORT PREPARED BY STV INCORPORATED</u>	23
<u>ATTACHMENT B – ORIGINAL BRIDGE DRAWINGS PREPARED BY G. EDWIN PIDCOCK CO. IN 1957</u>	31
<u>ATTACHMENT C – PROFESSIONAL SERVICES AGREEMENT</u>	41

NOTE: If the Request for Proposals package you received is missing any pages as identified above, please contact the Lehigh County Purchasing Department at (610) 782-3030.

**INTRODUCTION
(RFP #09-038)**

**ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL REPAIRS / REHABILITATION PROJECT
FOR THE 4TH STREET BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE**

**DEPARTMENT OF GENERAL SERVICES
COUNTY OF LEHIGH**

The County of Lehigh is soliciting proposals for ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL REPAIRS / REHABILITATION PROJECT FOR THE 4TH STREET BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE, in accordance with this Request for Proposals (RFP).

Proposal shall be made upon proposal forms or letterhead stationery and all references to numbers shall be stated both in writing and figures. The signature shall be an original in long hand, and the completed form shall be without interlineation, alteration or erasure.

One (1) clearly marked original and two (2) clearly marked complete copies (including all proposer provided attachments) of each proposal shall be submitted and delivered to Thomas Slonaker, Controller of Lehigh County, Suite 465 of the Government Center, 17 S. Seventh Street, Allentown, PA 18101. Envelopes shall be closed, sealed and marked, "**Proposal #09-038 for 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT**", according to Specifications attached hereto, prior to 4:00 P.M. Local Time, June 10, 2009. **The County Controller's time clock shall be considered the official time. It is suggested that firms submit their bids early to avoid traffic accidents, overnight courier errors, etc... as there will be no exceptions whatsoever to this cutoff.** Proposals will be opened after 10:00 A.M. Local Time, the following day, June 11, 2009, in Room 450 of the Government Center. **The opening will consist only of name and address recording of respondents. As this is an RFP requiring evaluation, no pricing information will be read aloud at the time of the opening.**

The Executive of Lehigh County will grant due consideration to any features of the Specifications submitted by the proposers and does hereby reserve the right to choose the proposal which, in his judgment is best suited for the intended purposes. The Executive of the County of Lehigh does also reserve to himself, the right to waive all informalities in awarding a contract in the best interests of the County of Lehigh.

EXECUTIVE OF LEHIGH COUNTY

BY: George M. Nader, Jr., CPPO
County Purchasing Agent

DATED: May 19 2009

**SPECIFICATIONS
(RFP #09-038)**

**ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL REPAIRS / REHABILITATION PROJECT
FOR THE 4TH STREET BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE**

**DEPARTMENT OF GENERAL SERVICES
COUNTY OF LEHIGH**

1.0 PURPOSE:

- 1.1 The County of Lehigh is soliciting proposals for a consulting engineering firm to perform all associated engineering design and construction management for a structural repairs and rehabilitation project and evaluation of the 4th Street Bridge over the Jordan Creek and Sumner Avenue, City of Allentown, Lehigh County, PA.
- 1.2 The repairs and rehabilitation project shall include a thorough, in-depth, hands-on evaluation / inspection. All decks, superstructure steel, bearings, substructures, etc. shall be inspected and recommendations made and Contract documents formulated for a full repairs project. At a minimum, the repairs shall include all repair recommendations made in the most current National Bridge Inspection Standards (NBIS) Bridge Safety Inspection Report prepared by STV Incorporated (excerpts included in **Attachment A**). Based upon the field inspection and evaluation of existing documents and reports, the successful firm shall advise the County and make appropriate recommendations and draft Contract Plans and Specifications. In addition, the work shall include a thorough evaluation of the structure to determine the cause of movements the structure has been subjected to and identify the reasons for deterioration and component failure. Contract documents will need to include all appropriate information for the bidding purposes of repairing the bridge, roadway, bearings, etc.

2.0 BACKGROUND:

- 2.1 The 4th Street Bridge over the Jordan Creek / Sumner Avenue was constructed in 1959, is approximately 444 feet long and consists of a rolled steel beam span and three (3) span continuous steel girder – floorbeam - stringer superstructure arrangement. The substructure / foundations consist of spread footings for the south abutment and all piers and a steel pile foundation for the north abutment.
- 2.2 As the result of the most current Structure Safety Inspection Report (2008), recommendations have been made to repair and rehabilitate the existing structure and approach roadway and make repairs to extend the useful life of the structure and preserve the integrity of the bridge.
- 2.3 The subject structure has a history of “movements” from unknown causes. These movements have caused failures in bridge components including the expansion dam, bearings, backwalls and bridge seats. The existing steel tooth expansion dam at Pier 1 was reconstructed / reset in 2000 due to loss of functionality / freedom of movement. The existing backwall at the south abutment (fixed bearing) exhibits significant spalling, concrete cracking and failure. The existing bridge seat on the north abutment (fixed bearing) exhibits significant cracking and deteriorated concrete. The existing rocker bearings at the piers are in an “over- rotated” condition and are assumed to be “frozen”.
- 2.4 Bridge Plan drawings, dated May 1, 1957, are included herein under **Attachment B**.

3.0 SCHEDULE OF EVENTS:

- 3.1 The proposed schedule for proposal processing, selection, negotiation and contract initiation is as follows:

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

3.1.1	Issue Request for Proposals Notice	May 19, 2009
3.1.2	Cutoff for Written Questions	May 22, 2009, 4:00 P.M.
3.1.3	Cutoff for Written Answers	May 27, 2009, 4:00 P.M.
3.1.4	Non-Mandatory Pre-Proposal Meeting	May 27, 2009, 10:00 A.M.
3.1.5	Proposals Due	June 10, 2009, 4:00 P.M.
3.1.6	Proposals Publicly Opened	June 11, 2009, 10:00 A.M.
3.1.7	Issue "Intent to Award"	June 17, 2009
3.1.8	Finalize Contract Language	June 17, 2009
3.1.9	Ordinance Approval	July 8, 2009
3.1.10	Notice-to-Proceed with Work	July 20, 2009
3.1.11	Draft Contract Plans, Specifications and Estimate (PS&E)	Within two (2) months after Notice to Proceed
3.1.12	Final Contract, Plans, Specifications And Estimate	Within one (1) month after PS&E

NOTE: The schedule presented above may be adjusted accordingly to reflect review time by the County and/or its designees at the sole discretion of the County.

4.0 NON-MANDATORY PRE-PROPOSAL MEETING:

- 4.1 A non-mandatory pre-proposal meeting will be held at the South End of the 4th Street Bridge over the Jordan Creek, on May 27, 2009, commencing at 10:00 A.M. A general briefing for all proposers will be conducted. **Attendees should review this RFP in advance of the pre-proposal meeting.**
- 4.2 Proposals will only be considered from vendors who have attended this mandatory pre-proposal meeting.

5.0 SCOPE OF WORK: The required services shall include, but are not limited to:

- 5.1 Coordinate the project with Glenn D. Solt, Lehigh County Director of Capital Projects, 610-782-3613.
- 5.2 It is the proposing firm's responsibility to familiarize itself with the existing conditions at the project site. Proposal shall account for all resources needed to secure all permits and approvals, easements and rights-of-way, utility coordination (as applicable), and the performance of any other functions which may be necessary to repair the existing bridge.
- 5.3 The general project overview includes the following bridge repairs: install pavement relief joints at each approach, reset the over-expanded rocker bearings, repair span 1 stringer bearings as needed, blast clean and prime/paint all the bearings, reconstruct the near (south) abutment backwall and repair the far abutment backwall and stem / seat and Pier 1. The project also involves performing an inspection / evaluation of the structure to verify / supplement the proposed repairs and rehabilitation and determine the most probable causes of the bridge component failures.

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

5.4 Field Investigation / Recommendations for Repair and Probable Cause:

- 5.4.1 Review original plans (see **Attachment B**), most recent (2008) Safety Bridge Inspection Report (see **Attachment A** for excerpts), and any repair recommendations and all other available information.
- 5.4.2 Perform a field investigation of the bridge superstructure, substructure and roadway system. Verify all structural repairs recommended in the latest NBIS safety bridge inspection report and supplement as required.
- 5.4.3 Evaluate the existing bridge components, as may be necessary, to provide the reasons for failure of the bridge components including joints, bearings, bridge seats/substructure, roadway, etc. A letter shall be prepared and submitted by a PA licensed Professional Engineer documenting the field work performed, measurements taken, data collected, etc. and probable causes for the deterioration and failures the bridge has been experiencing.
- 5.4.4 Outline and submit in writing, a schedule and the overall approach / methodology for performing the field inspection, including proposed sequence of operation, traffic control, rigging, climbing and snoopers / lift truck operation (if necessary). The successful firm shall ensure 100% fall protection for inspection personnel as well as all other OSHA guidelines pertaining to this type of work.
- 5.4.5 Prepare and submit traffic control plans using criteria in Pennsylvania Department of Transportation (PENNDOT) Bulletin No, 203 as a basis. The successful firm shall detail their use of traffic control devices such as flashing arrow boards, cones, truck mounted attenuators, etc. Submit traffic control plans for County approval prior to any work that disrupts the flow of traffic.
- 5.4.6 The successful firm shall be responsible for: Project safety, Traffic control on roadways, Rigging, snoopers/lift truck (as required), Material testing (as required), and obtaining any required permits or rights-of-entry (as required).
- 5.4.7 Determine if any existing deterioration is progressive and if it affects the load rating or structural capacity of the bridge.
- 5.4.8 **Include a \$5,000 allowance within the fee for testing and material sampling in the cost proposal.** Material testing shall only be performed if recommended by the firm and approved by the County.
- 5.4.9 The County reserves the right to do work with its own employees or by other contractors within the limits of this inspection during the duration of this inspection. The successful firm shall coordinate their schedule of operations with other activities and fully cooperate with other parties.
- 5.4.10 There are no specific restrictions regarding lane closures.
- 5.4.11 All work shall be done using the successful firm's equipment.

5.5 Plans, Specifications and Estimate:

- 5.5.1 Based upon the field investigation of the structure and most recent bridge inspection report draft Contract documents to repair the structure and roadway as appropriate. Contract documents shall address, at a minimum, the repair recommendations stated in the 2008 Bridge Safety Inspection Report.

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

- 5.5.2 The bridge bearing painting portion of the project shall be designed to meet current PENNDOT paint system criteria as contained in their Publication 408 and Publication 35 (Bulletin 15.)
- 5.5.3 Consultant shall perform all necessary engineering functions and establish the painting parameters including containment, collection and disposal according to state and federal regulations.
- 5.5.4 Consultant shall create all necessary Contract Plans to adequately document the limits of work. Drawings shall depict in sufficient detail all work related to the resetting of the existing rocker bearings, including modifications to the existing piers, bridge seat, masonry plates, anchor bolts, etc. and provide information related to a superstructure jacking operation (e.g. existing bearing reactions, bearing and bridge seat layout / arrangement, jacking schemes, etc.) Plans / details of sufficient detail shall also be provided for all other recommended repair items.
- 5.5.5 Consultant shall create the Project Bidding Technical Specifications with all required information, including technical data, painting specifications, structural repairs, superstructure jacking operation specifications, concrete repairs, etc.
- 5.6 **Contract Administration:**
 - 5.6.3 Preparation of Contract documents for bidding in accordance with Lehigh County purchasing procedures. Coordinate process with the County Purchasing Agent.
 - 5.6.4 Reproduce and distribute Contract documents.
 - 5.6.3 Attend and coordinate pre-bid meeting.
 - 5.6.4 Accept copies of all bids from the County Purchasing Agent, tabulate and review.
 - 5.6.5 Make recommendations for award of contract to County of Lehigh.
- 5.7 **Construction Administration:**
 - 5.7.1 In narrative form, detail the level of construction administration your firm will be providing to insure compliance with construction documents throughout the completion of the project and to include the functions as listed below.
 - 5.7.2 Review submittals and shop drawings.
 - 5.7.3 Attend and conduct regular construction job meetings, including taking and distributing of minutes.
 - 5.7.4 Coordinate and assist in the processing of changes and/or variations during the execution of the project.
 - 5.7.5 Review and certify estimates or payment requests by contractors for submittal to the County.
 - 5.7.6 Provide on-site presence sufficient to verify compliance with Contract documents including specifications and schedules, as required by the County.
 - 5.7.7 Insure all legally required permits, licenses, authorizations are addressed, or obtained, by appropriate parties.
 - 5.7.8 Assist with project closeout, including punch list inspection, training and verification of equipment operation.

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

6.0 CONFORMING WORK:

- 6.1 All inspection and engineering work shall conform to the current applicable U.S. Environmental Protection Agency (EPA), Federal Highway Administration (FHWA) and PENNDOT criteria as directed. The successful firm shall perform all work necessary to conduct the bridge inspection, draft repair/restoration procedures, contract documents and prepare necessary plans and specifications for the bridge repair work.
- 6.1 All work performed or managed must be of the highest quality and shall conform to all standards, safety guidelines and design conditions as may be imposed by legitimate regulatory organizations, including governmental agencies and municipalities.

7.0 PERFORMANCE STANDARDS:

- 7.1 All services to be performed under this ensuing contract shall be performed in the most cost effective manner, in achieving the objectives of the County.

8.0 TERM OF CONTRACT:

- 8.1 The contract shall commence immediately upon final execution by the County Executive and continue uninterrupted until completion of the project.
- 8.2 The County of Lehigh reserves the right to terminate the contract at any time, with 30 days prior written notice, if not satisfied with the quality of service provided or if the Proposer fails to fulfill any of the condition of these "Specifications".

9.0 QUALIFICATIONS & EXPERIENCE:

- 9.1 In order to evaluate qualifications and the ability to perform the work specified herein, the following information is to be **submitted with your proposal**:
 - 9.1.1 A description of the planned methodology and program of work for the structural inspection and repair recommendations.
 - 9.1.2 A brief history and experience related specifically to bridge design, inspection, bridge evaluation and bridge repairs/rehabilitation. Firms shall demonstrate extensive experience with all work included in this proposal and with the type of bridge involved.
 - 9.1.3 Documentation that personnel conducting the bridge inspection and recommendations shall meet the requirements of the NBIS and the following:
 - 9.1.3.1 The Project Manager for this work shall be a Professional Engineer licensed in the Commonwealth of Pennsylvania with a minimum of 10 years structural bridge experience that shall include at least five (5) years bridge inspection, bridge evaluation/analysis and repair experience in a responsible capacity.
 - 9.1.3.2 The Team Leader for field inspection shall be a Professional Engineer, licensed in the Commonwealth of Pennsylvania with a minimum of three (3) years experience in bridge inspection assignments in a responsible capacity or a graduate engineer with at least five (5) years bridge inspection and bridge repair experience.
 - 9.1.3.3 The Bridge Inspector shall have training, education, experience, physical agility, skills, attitude and motivation as described in the "Bridge Inspector's Training Manual 70" published by FHWA. In addition to these qualifications, the Inspector shall have advanced bridge inspection training with an emphasis on bridge painting.
 - 9.1.4 A brief description of education and experience of officials and key personnel.

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

- 9.1.5 State whether the proposed project personnel are full time employees of your firm or if they will work on a retainer or part time basis.
- 9.1.6 If sub-consultants are planned for any portion of the work, provide documentation of sub-consultants' required extensive experience and expertise related to the work they intend to perform.
- 9.1.7 A proposed organizational chart which displays the names of key individuals and the functional relationships shall be included.
- 9.1.8 Include recent accident history in the form of the standard U.S. Occupational Safety and Health Administration (OSHA) 200 Report, covering experience over the preceding three (3) reporting years.
- 9.1.9 Provide any other information that is relevant and which will assist the County in evaluating your firm for this work.
- 9.1.10 Provide at least three (3) references, including contact person and telephone number, for similar projects completed within the last 10 years.
- 9.2 A list of the firm's and sub-consultant official key personnel who will be in responsible charge of each phase of the work shall be included in the proposal. In this connection, a certification shall be provided by the firm stating the personnel included in the aforementioned list actually are employed by the firm and they shall be made available and assigned to this work.

10.0 COMPENSATION:

- 10.1 Using the provided Proposal Form, the firm must provide a lump sum, not to exceed fee for all services to be performed (including any out-of-pocket expenses). Proposal shall include a detailed cost broken down by each major task activity as defined in **Section 5.0**, and shall delineate the maximum compensation expected.
- 10.1 Discrepancies on the Proposal Form between:
 - 10.1.1 The multiplication of quantities requested and unit prices will be resolved in favor of the unit prices.
 - 10.1.2 The indicated sum of any column of figures and the correct sum will be resolved in favor of the correct sum.
 - 10.1.3 Words and figures will be resolved in favor of the words.
- 10.2 Expenses, payments to the successful firm, and basis of compensation shall be based upon unit staff costs by discipline multiplied by actual hours worked up to not-to-exceed prices listed on the Proposal Form.
- 10.3 Include in the not-to-exceed price expenses incurred by the successful firm and sub-consultants in direct connection with the engagement as follows:
 - 10.3.1 Direct expenses of fees paid for securing approvals of government authorities interested in the project.
 - 10.3.2 Direct expenses or reproduction, postage and handling of drawings, specifications, and other documents.
 - 10.3.3 Direct expenses associated with the renting of equipment for inspection and testing. Also, the direct expenses associated with laboratory testing materials and rights-of-entries and other required insurances.

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

- 10.3.4 Direct expenses for nondestructive testing and material sampling. Consultant shall include a \$5,000 allowance for this service in the not-to-exceed price.
- 10.4 Any costs incurred by proposer in preparing or submitting offers are the proposer's sole responsibility. The County will not reimburse any proposer for any costs incurred prior to contract award.
- 10.5 Payment of services will be made monthly in amounts as set forth in monthly invoices describing expenses incurred and hours spent on the project by each employee of the firm and its sub-consultants, and subcontractors.
- 10.6 The County reserves the right to audit any/all project expenses.

11.0 INSURANCE:

- 11.1 The selected firm shall, at its sole cost and expense, procure and maintain in full force and effect covering the performance of the services rendered under this agreement, insurance in the types and limits specified below. In addition to the insurance coverage and limits listed herein, the selected firm shall obtain any other insurance coverage as may be required by law.

11.1.1 General Liability Insurance:

11.1.1.1 Limits of Liability: \$1,000,000 in the aggregate and per occurrence.

11.1.1.2 Coverage: Premise operations, blanket contractual liability, personal injury liability (employee exclusion deleted), products and completed operations, independent contractors, employees and volunteers as additional insureds, joint liability, and broad form property damage (including completed operations).

11.1.2 Workers' Compensation and Employers' Liability Insurance:

11.1.2.1 Limits of Liability: Statutory Limits.

11.1.2.2 Other States' coverage and Pennsylvania endorsement.

11.1.3 Automobile Liability:

11.1.3.1 Limit of Liability: \$1,000,000 per occurrence combined single limit for bodily injury (including death) and property damage liability.

11.1.3.2 Coverage: Owner, non-owned and hired vehicles.

11.1.3.3 The selected firm shall ensure that all staff operating said vehicles are licensed drivers and properly insured.

11.1.4 Professional Liability Insurance:

11.1.4.1 Limit of Liability: \$1,000,000 by claim and \$2,000,000 in the aggregate.

11.1.4.2 If the selected firm is a Medical Professional, the selected firm shall ensure that all conditions are met for eligibility for MCARE fund coverage.

11.1.4.3 Coverage for occurrences happening during the performance of services required under this agreement shall be maintained in full force and effect under the policy. The policy shall include a "tail coverage" if a one (1) or two (2) year period of exposure exists.

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

- 11.2 All insurance provided for in this section shall be obtained under valid and enforceable policies issued by insurers of recognized responsibility which are licensed to do business in the Commonwealth of Pennsylvania. The County prefers that Certificates of Insurance evidencing the existence of such insurance shall be submitted to the County at least 10 calendar days before work is begun. If the term of this contract coincides with the term of the selected firm's insurance coverage, a Certificate from the expiring policy will be accepted, but a Certificate evidencing renewed coverage of a new policy must be presented to the County no later than 30 days after the effective date of the policy.
- 11.3 With the exception of the Professional Liability Insurance Policy and Automobile Insurance Policy, each policy and Certificate of Insurance shall contain an endorsement naming the County as additional insured party thereunder; and a provision that at least 30 calendar days prior written notice be given to the County in the event coverage is canceled or non-renewed or coverage reduced.
- 11.4 If the selected firm desires to self insure any or all of the coverages listed in this section, it shall provide to the County documentation that such self insurance has received all the approvals required by law or regulations, as well as the most recent audited financial statement of the selected firm's insurance. Any coverage which is self insured shall provide the same coverage limits and benefits as the coverages listed in this section.
- 11.5 If the selected firm fails to obtain or maintain the required insurance, the County shall have the right to treat such failure as a material breach of the contract and to exercise all appropriate rights and remedies.
- 11.6 The selected firm shall include all subcontractors as insureds under its policies or shall furnish separate Certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated in this agreement.

12.0 HOLD HARMLESS CLAUSE:

- 12.1 Vendor shall be an independent contractor in respect to its performance under the contract, and shall assume all risks and responsibilities for losses of every description in connection with the service that can be attributed either directly or indirectly to the Vendor. The Vendor agrees to indemnify, defend and hold harmless the County, its agents and employees for or on account of any damages, loss or injury including the cost of litigation or legal counsel resulting from, but not limited to, the actions of the Vendor or Vendor's employees, volunteers or contractors, in fulfilling the terms of the Contract.

13.0 EXCLUSIVE JURISDICTION:

- 13.1 The parties agree that any dispute, controversy or claim arising under or in connection with the resulting Agreement or its performance by either party shall be decided exclusively by and in the Court of Common Pleas of Lehigh County, Pennsylvania. For such purpose, each party hereby submits to the personal jurisdiction of the Lehigh County Court sitting in Allentown, Pennsylvania, and agrees that service of process may be completed and shall be effective and binding upon the party served if mailed by certified mail, return receipt requested, postage prepaid and properly addressed to the party as set forth elsewhere in the resulting Agreement. Each party waives any objection to the personal jurisdiction of such court and agrees that it shall be barred from asserting any such objection, as long as any process is served in accordance with the foregoing. In the event that a party refuses to accept delivery of such process, then process may be served upon the Secretary of the Commonwealth of Pennsylvania in the same fashion, whereupon such service shall be deemed to have been made upon the refusing party as fully as if process had been accepted. Each party hereby agrees to and does hereby waive any right to assert or move for transfer of venue to any court outside the Commonwealth of Pennsylvania, based upon the doctrine of forum nonconveniens or otherwise. Each party may assert its customary appeal rights in the appellate courts of the Commonwealth of Pennsylvania from a final determination of the Lehigh County Court of Common Pleas. Each party further acknowledges and agrees that this

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

paragraph has been negotiated at arms' length with the assistance of counsel and the legal effect fully explained, and that it is a knowing and voluntary agreement.

14.0 FEDERAL EXCISE AND PA SALES TAX:

- 14.1 The County of Lehigh is exempt from Federal Excise Taxes and Pennsylvania Sales Taxes, as a political subdivision of the Commonwealth of Pennsylvania. Net prices as shown in the proposal shall exclude such Federal and State Tax amounts.
- 14.2 This provision shall not apply to construction, repair and/or maintenance contracts where the bidder purchases supplies, materials and/or equipment for the performance of the contract and includes the costs thereof in computation of the proposal.

15.0 CONTRACT:

- 15.1 The enclosed Professional Services Agreement (see ***Attachment C***) has been designed to fit this RFP and **will not be modified further**. The selected firm must include an appropriately signed, attested and sealed (if appropriate) copy of this contract with its proposal.

16.0 AVAILABILITY OF APPROPRIATED FUNDS:

- 16.1 The Offeror hereto agrees that any and all payments due from the County, as required under the terms of this agreement, are contingent upon the availability of Appropriated Funds.

17.0 TAX DELINQUENCY:

- 17.1 Offeror hereby certifies, as a condition precedent to the execution of this Contract, and as an inducement for the County to execute same, that it is not "delinquent" on any taxes owed to the County. "Delinquent" is hereby defined as the point in time at which the collection of the tax becomes the responsibility of the Lehigh County Tax Claim Bureau.
- 17.2 Offeror further Agrees, as a specific condition of this Contract, that it shall remain current on all of the taxes it owes to the County. Should Offeror become delinquent on any taxes it owes to the County during the term of this Agreement, Offeror may be deemed to be in breach of this agreement by County and, in addition to any other remedies at law for such breach, Offeror hereby specifically agrees and authorizes the County to apply all funds when due to Offeror directly to the taxes owed to the County until said taxes are paid in full.
- 17.3 In the event the Offeror becomes delinquent, it hereby authorizes the County to make direct payments to the taxing authority for the County to bring Offeror's County taxes current.

18.0 UNDUE INFLUENCE:

- 18.1 Offeror agrees not to hire any County Personnel who may exercise or has exercised discretion in the awarding, administration or continuance of this agreement for up to and including one (1) year following the termination of the employee from County service. Failure to abide by this provision shall constitute a breach of this agreement.

19.0 FACTORS FOR AWARD:

- 19.1 Lehigh County will evaluate each written proposal, determine whether oral discussions are necessary, then based on the content of the written proposal and oral discussion, select the firm best qualified for the assignment and which is most advantageous to the County, cost and all other factors considered.
- 19.2 Following is a "not all-inclusive list" of factors that will be considered, in no particular order of importance:

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

- 19.2.1 Understanding of the particular needs of the project, relating to bridge inspection, evaluation of steel bridges and bridge repair techniques and experience.
- 19.2.2 Experience with field inspection and background with bridge evaluation and resetting of steel bridge bearings.
- 19.2.3 Knowledge of PENNDOT and American Association of State Highway and Transportation Officials (AASHTO) standards for inspection of steel bridges with particular expertise in the restoration of steel bridges, painting and structural repairs.
- 19.2.4 Qualification and experience of the staff to be assigned to this project.
- 19.2.5 Qualification and experience of the consulting firms proposing.
- 19.2.6 Maintenance of a local office.
- 19.2.7 Overall completeness and quality of proposal.
- 19.3 The County of Lehigh reserves the right to reject any or all respondents.
- 19.4 Any firm who has demonstrated poor performance during either a current or previous agreement with the County may be considered as an unqualified source and their proposal may be rejected. The County reserves the right to exercise this option as is deemed proper and/or necessary.
- 19.5 The County Purchasing Agent will issue an "Intent to Award" letter to the selected firm. Final award is contingent on approval by Ordinance of the County.

20.0 FORM OF PROPOSAL:

- 20.1 Proposal shall be in the form of a firm fixed price offer for the full scope of services associated with the project as described.
- 20.2 In order to accommodate major changes in the scope of work, offerors must provide an hourly rate schedule for the services of the following employment categories:
 - 20.2.1 Principal
 - 20.2.2 Project Manager
 - 20.2.3 Field Inspection Team Leader
 - 20.2.4 Bridge Inspector
 - 20.2.5 Design Engineer
 - 20.2.6 Engineering Technician
 - 20.2.7 Draftsperson
 - 20.2.8 Drafting Technician
 - 20.2.9 Clerical Technician / Secretary
 - 20.2.10 Site Engineer or Supervisor
 - 20.2.11 Other (identify)

NOTE: While it is acknowledged that employment categories and position titles vary from

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

firm to firm, offerors are required to use the preceding list to classify their personnel. This will facilitate the County's ability to compare proposals. Please do not provide your firm's category listing without a cross reference to the above.

- 20.3 A list of administrative functions and associated costs must be provided to include as appropriate:
- 20.3.1 Duplication (per page - letter size).
 - 20.3.2 Duplication (cost per square foot - prints).
 - 20.3.3 Facsimile transmission (cost per page).
 - 20.3.4 Travel (per mile cost).
 - 20.3.5 Other (identify).
 - 20.3.6 Markup in percent, if any, on subcontracted or consultant service.
- 20.4 Proposer must also include documentation to support the requirements outlined in Sections **5.0** and **9.0** above. All supporting documentation should be provided utilizing two (2) sided copies, if possible.
- 20.5 Elaborate proposals in the form of brochures or other presentations beyond that necessary to present a complete and effective proposal are not desired.

21.0 CARE OF DATA:

- 21.1 The selected firm shall take all steps necessary to safeguard any data, files, reports, or other information from loss, destruction or erasure. Any costs or expenses of replacing, or damages resulting from the loss of such data shall be borne by the contractor when such loss or damage occurred through its negligence.
- 21.2 All products shall be provided in hard copy and electronic form as directed by the County and are for County use without restriction.

22.0 EXCEPTIONS:

- 22.1 Any exceptions to terms, conditions, or other requirements in any part of this RFP must be clearly pointed out in the offeror's proposal. Otherwise, the County will consider that all items offered are in strict compliance with this RFP, and the successful proposer will be responsible for compliance.
- 22.2 The County Purchasing Agent shall be the sole judge of which, if any, exceptions are acceptable and such a decision will be final.

23.0 PUBLIC RECORDS REQUESTS:

- 23.1 Under Pennsylvania's "Right to Know" law, Act 3 of 2008, 65 P.S. §67.101 et seq., all documents created or received by the County are presumed to be public and available for inspection and duplication.
- 23.2 A record in the possession of a party with whom the County contracts to perform a governmental function for the County, and which directly relates to the governmental function and is not exempt under the Act, is a public record.
- 23.3 If there is a request for a record submitted to the County by a third party with that party's written and signed statement that the record contains a trade secret or confidential proprietary information, the party has five (5) business days from receiving notice from the County to provide

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

input on the release of the record. The third party shall then be notified whether the County released the record.

- 23.4 Requests for public records which are unquestionably public may be made to the Office of Purchasing. However, all other requests for public records must be made in writing to the County Open-Records Officer during regular business hours. The party requesting copy shall pay \$0.25 per page.

24.0 NO PROPOSAL REPLY FORM:

- 24.1 To assist in obtaining good competition on Request for Proposals, each firm who has received an RFP, but does not wish to participate, is asked to complete and return the attached No Proposal Reply Form. This information will not preclude receipt of future invitations unless you either request removal from the Bidders List or do not return either this form, or a bonafide proposal.

25.0 QUESTIONS / CLARIFICATIONS:

- 25.1 **Any official questions and/or clarifications shall be directed, in writing, to the person noted below, on or before 4:00 P.M., May 22, 2009. Questions raised after this cut-off will remain unanswered.**

25.1.1 George M. Nader, Jr., CPPO,
Lehigh County Purchasing Agent
Fax: (610) 820-2013
Email: georgenader@lehighcounty.org

- 25.2 Questions will be answered in writing and distributed during to all firms on or before 4:00 P.M., May 27, 2009.

- 25.3 Any information offered at the non-mandatory pre-proposal meeting described in section **4.0** that is not already specifically included in this ITB packet is considered unofficial, unless received in the form of a written Addendum. Verbal instructions are not binding on either the County, or firm.

- 25.4 Questions answered outside of the parameters described above are neither valid, nor binding upon the County.

26.0 FUTURE "INVITATIONS TO BID" / "REQUESTS FOR PROPOSAL":

- 26.1 Publicly offered County of Lehigh "Invitations to Bid" and "Requests for Proposal" being coordinated by the Office of Purchasing, are **only advertised on the County's Website**. To access these projects:

26.1.1 Proceed to "www.lehighcounty.org".

26.1.2 Click on Purchasing in the "gutter" on the left side of the page.

26.1.3 Click on Bid Advertisements in the "gutter" on the left side of the page.

- 26.2 Depending on the project, you will be able to view the advertisement, electronically request that a copy of the specification be mailed and/or download the specification directly from the site.

27.0 TABULATION OF RESPONSES:

- 27.1 A **draft** tabulation sheet of responses received to this Request for Proposals will be available for review (in Adobe's Portable Document Format) on the County's Website within approximately 24 hours of the opening. This information is provided to give participating firms a preliminary understanding of the responses received. **As this is an RFP requiring evaluation, only the firm**

SPECIFICATIONS - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

names and addresses will be listed. No pricing information will be provided until after an intent to award announcement is made. These sheets will remain listed until an award decision is made. To access these draft tabulations:

27.1.1 Proceed to "www.lehighcounty.org".

27.1.2 Click on Purchasing in the "gutter" on the left side of the page.

27.1.3 Click on Bid Tabulations in the "gutter" on the left side of the page.

27.2 Once an intent to award announcement is made, the **final** tabulation sheet of responses, including pricing information, will be available under the "Bid Awards" section on the County's Website, with the successful proposal highlighted.

28.0 AUTHORITY TO DISTRIBUTE RFP PACKAGES:

28.1 The Lehigh County Purchasing Office (and website, if applicable) is the sole entity authorized to provide this RFP package to interested companies or individuals. Firms who are working from an RFP package obtained from any other source may have an incomplete set of documents. The County assumes no responsibility for any error, omission, or misinterpretation resulting from a company's use of an incomplete RFP package.

28.2 Firms who have received the RFP package from a source other than the County Purchasing Office (and website, if applicable) are advised to contact the office to provide their company name, mailing address, telephone number, fax number, contact name and contact e-mail address. This will ensure that the company receives all RFP related communications and documents, including addenda.

--- E N D O F S P E C I F I C A T I O N S ---

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PROPOSAL FORM
(RFP #09-038)

ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL REPAIRS / REHABILITATION PROJECT
FOR THE 4TH STREET BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE

DEPARTMENT OF GENERAL SERVICES
COUNTY OF LEHIGH

We, _____, on this the ____ day of _____, 2009 hereby:
(Proposer's Name)

- Propose and agree to furnish and deliver ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL REPAIRS / REHABILITATION PROJECT FOR THE 4TH STREET BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE for the County of Lehigh, in accordance with this "Request for Proposals", for the firm fixed not to exceed fee of _____ Dollars (\$_____).
- Expect to begin work within _____ days after notification of award and to complete the work within _____ days after commencement.
- Have received and reviewed the following Addenda (if applicable):
 1. _____, dated _____.
 2. _____, dated _____.

We have included one (1) clearly marked original and two (2) clearly marked copies of the following as our proposal:

- ✓ This Proposal Form.
- ✓ Documentation as required by Section **9.0**, including the Reference Form, and items **10.1, 20.2, 20.3** and **20.4**.
- ✓ One (1) originally signed, attested and sealed (if appropriate) copy of the contract.

NOTE: THE ENTIRE RFP PACKET NEED NOT BE RETURNED. Please be sure to provide the requested number of copies of all proposer provided attachments. Thank you.

Communications Concerning this Proposal shall be addressed to:

Contact Person Name: _____
Contact Person Title: _____
Address: _____

Telephone Number: _____
Fax Number: _____
Email Address: _____

PROPOSAL FORM - 4TH STREET BRIDGE REPAIRS / REHABILITATION PROJECT (continued)

Authorized Signature of Proposer

When the Proposer is an Individual:

_____ Name of Proposer		_____ Federal Tax ID Number	
_____ Street Address		_____ City	_____ State Zip
_____ Telephone Number	_____ Fax Number	_____ Email Address	
_____ Signature		_____ Signatory's Name and Title (Printed)	

When the Proposer is a Partnership:

_____ Name of Partnership		_____ Federal Tax ID Number	
_____ Street Address		_____ City	_____ State Zip
_____ Telephone Number	_____ Fax Number	_____ Email Address	
_____ Signature		_____ Signatory's Name and Title (Printed)	

When the Proposer is a Corporation:

_____ Name of Corporation		_____ Federal Tax ID Number	
_____ Street Address		_____ City	_____ State Zip
_____ Telephone Number	_____ Fax Number	_____ Email Address	
_____ Signature (** see note below)		_____ Signatory's Name and Title (Printed)	
_____ Witness's Signature (** see note below)		_____ Witness's Name and Title (Printed)	

**** The President's or Vice President's signature must be attested by the Corporate Secretary or Treasurer. If any employee other than the President or Vice President signs on behalf of the corporation, or if the President's or Vice President's signature is not attested to by the Corporate Secretary or Treasurer, a copy of the corporate resolution authorizing said signature must be attached to this proposal. Failure to attach a copy of the appropriate authorization, if required, may result in rejection of the offer.**

**REFERENCE FORM
(RFP #09-038)**

**ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL REPAIRS / REHABILITATION PROJECT
FOR THE 4TH STREET BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE**

**DEPARTMENT OF GENERAL SERVICES
COUNTY OF LEHIGH**

1. COMPANY NAME: _____
 ADDRESS: _____

 CONTACT PERSON: _____
 TELEPHONE #: _____
 FAX#: _____

2. COMPANY NAME: _____
 ADDRESS: _____

 CONTACT PERSON: _____
 TELEPHONE #: _____
 FAX#: _____

3. COMPANY NAME: _____
 ADDRESS: _____

 CONTACT PERSON: _____
 TELEPHONE #: _____
 FAX#: _____

**NO PROPOSAL REPLY FORM
(RFP #09-038)**

**ENGINEERING & DESIGN SERVICES FOR A STRUCTURAL REPAIRS / REHABILITATION PROJECT
FOR THE 4TH STREET BRIDGE OVER THE JORDAN CREEK AND SUMNER AVENUE**

**DEPARTMENT OF GENERAL SERVICES
COUNTY OF LEHIGH**

To assist us in obtaining good competition on our Request for Proposals, we ask that each firm who has received an RFP, but does not wish to participate, state their reason(s) below and **return this form to the COUNTY OF LEHIGH, 17 S. Seventh Street, Allentown, PA 18101-2401, Attn: Purchasing Office.** This information will not preclude receipt of future invitations unless you either request removal from the Bidders List by indicating below, or do not return either this form, or a bonafide proposal.

Unfortunately, we must offer A "No Proposal" at this time because:

- _____ 1. We do not wish to participate in the RFP process.
- _____ 2. We do not wish to propose under the terms and conditions of the RFP document.
Our objections are:

- _____ 3. We do not feel we can be competitive.
- _____ 4. We cannot submit a Proposal because of the marketing or franchising policies of the
manufacturing company.
- _____ 5. We do not wish to sell to the County of Lehigh. Our objections are:

- _____ 6. We do not sell the items/services requested.
- _____ 7. Other: _____

FIRM NAME

WEBSITE (IF APPLICABLE)

STREET ADDRESS

CITY STATE ZIP

TELEPHONE NUMBER

FAX NUMBER

EMAIL ADDRESS

SIGNATURE

SIGNATORY'S NAME AND TITLE (PRINTED)

- _____ We wish to remain on the Bidders' List.
_____ We wish to be deleted from the Bidders' List.

***ATTACHMENT A – EXCERPTS FROM THE NBIS BRIDGE SAFETY
INSPECTION REPORT PREPARED BY STV INCORPORATED***

CATEGORY B3
REINSPECTION

POSTING STATUS: A

LEHIGH COUNTY BRIDGE NO. 32
LOCATION: CITY OF ALLENTOWN
FOURTH STREET OVER JORDAN CREEK
CUSTODIAN: LEHIGH COUNTY

BMS NO. 39730100009032

DATE OF INSPECTION: APRIL 24, 2008
INSPECTOR: BRENT MILLER
DAVE ZIEGLER

Confidential - Structure Safety Inspection Study

This document is the property of the County of Lehigh. The data and information contained herein are part of a structure safety inspection study. This safety study is only provided to those official agencies or persons who have responsibility in the highway transportation system and may only be used by such agencies or persons for safety-related planning or research. The document and information are confidential pursuant to 65 P.S. §66.1 et seq. and 23 U.S.C. §409 and may not be published, reproduced, released or discussed without the written permission of the County of Lehigh.

Prepared for: County of Lehigh
17 South Seventh Street
Allentown, PA 18101

Prepared by: STV Incorporated
205 West Welsh Drive
Douglassville, PA 19518

TABLE OF CONTENTS

LOCATION MAP

INSPECTION REPORT

GENERAL DESCRIPTION

EXISTING CONDITIONS AND DEFICIENCIES

BRIDGE LOAD RATING

POSTING REVIEW

MAINTENANCE/REHABILITATION RECOMMENDATIONS

APPENDIX

STRUCTURE PHOTOGRAPHS

iFORMS (BMS2 INSPECTION DATA)

WATERWAY SKETCH

STRUCTURE DRAWINGS

PREVIOUS RATING COMPUTATIONS

OBSERVED SCOUR AND CHANNEL STABILITY REPORT

INSPECTION REPORT

GENERAL DESCRIPTION

The structure carrying Fourth Street over Jordan Creek/Sumner Ave. is a 4 span steel girder/FB bridge with a length of 444 feet. The roadway has a curb to curb width of 36 feet. The overall condition is fair, as indicated by the condition ratings given on PennDOT iFORMS.

EXISTING CONDITIONS AND DEFICIENCIES

RATINGS (Previous inspection rating in parenthesis)

6 (6) APPROACH:

The bituminous paved near roadway is fairly lightly worn, with a wide transverse crack at 40' and a longitudinal crack in the left lane. The concrete far pavement is well worn and lightly spalled. All four edges are curbed, with guiderail (standard) only at the far corners.

6 (6) DECK:

The top surface of the deck slab is well worn and (hairline) map cracked. There are a few transverse cracks and small shallow spalls. Numerous large patches/repairs are stable. The (previously reset) tooth dam over pier 1 had a 1" gap at 75° F. The sidewalks are mostly lightly cracked, having multiple patches and isolated small spalls. On the bottom, light cracking was noted throughout, with scattered small cover spalls (and a honeycomb/delamination) noted in span 1.

4 (5) SUPERSTRUCTURE:

In span 1, the stringers are lightly rusted at the ends. The condition of the near abutment bearings range from moderate rust and slightly bent anchor bolts at the interior beams to light/moderate section loss and bent/corroded (moderate/severe losses) anchor bolts at the outer beams. At pier 1, all the bearings are over-rotated, typically out 1 3/16" from the center of the 6" masonry plate at 75° F. Also, at B1 there is a severely elongated bolt with section loss at the bottom.

Through the three main spans, the girders have spotty rust/minor loss at some bottom flange splices and cover plates (over piers). The floorbeams are lightly peeling in spots, with some very light rust noted. The only stringer deterioration was found at the extreme far end of the span 4, left fascia beam. Severe rust was noted here, with light/moderate flange loss and a large web hole out to the first knee brace. All four span 2 girder bearings are over-rotated. All the digital level measurements can be found under the Superstructure data found in iForms (at 75° F.). The drainage boxes and downspouts remain clogged, with the drainage cross pipes completely rusted away at piers 2 and 3, as well as at the far abutment. The girder bracing under these severely deteriorated pipes is also rusting.

EXISTING CONDITIONS AND DEFICIENCIES (Continued)

4 (5) SUBSTRUCTURE:

At the near abutment, the stem is moderate/severely cracked on the sides/corners, with the left also being lightly spalled. Cheekwall cracks extend out to the u-walls from each seat corner. The backwall is severely shear spalled across, with exposed reinforcement suffering moderate/severe losses on the right. The chunks of concrete are caught on the end diaphragms. At the far abutment, the right girder pedestal/column is severely cracked and starting to spall, with wide cracks extending through anchor bolts. Light cracking was noted on the left, as well as in the middle of the stem between the two seats. The top (backwall) areas are shear spalled on both sides (behind girders), with other smaller delamination/spalls across the remainder. The u-walls are also lightly cracked, with a 4' x 1' spall noted at the left end. Because of the drainage pipe failure at this end of the bridge, the pile cap is exposed on the right side where the slope has eroded away over the years.

Pier 1 has scattered minor cracks, a fine vertical crack under B3 (both faces), a cracked/delaminated area (4' x 1') at the near left, small delaminations at the top of bay #4 (near) and bay #5 (far), as well as two small spalls at the far top. Piers 2 and 3 are very lightly cracked, including a horizontal crack in the near left breast wall (under the column) of pier 3.

7 (7) STREAM CHANNEL:

The creek flows straight through span 3, possibly reaching pier 3 during maximum (flood) flows. The banks are stable and no scour was noted.

4 (5) STRUCTURAL EVALUATION (APPRAISAL):

Based on the Superstructure and Substructure ratings.

BMS NUMBER: 39730100009032

BRIDGE LOAD RATING

A rating analysis has previously been performed for this bridge using the Load Factor Design Method. The Inventory and Operating ratings are listed below.

Component	Inventory Rating - Tons				Operating Rating - Tons			
	H20	HS20	ML80	TK527	H20	HS20	ML80	TK527
Main Girder	28	45	41	44	47	75	69	73
Main Stringer	22	40	27	34	37	67	46	56
Main Floorbeam	21	32	26	30	35	53	44	51
Approach Interior	41	55	49	54	69	92	81	90

POSTING REVIEW

Existing Posting: None

Proposed Posting: None

RECOMMENDATIONS

The following items are in need of repair and are prioritized with the most important items first. When applicable, an estimated cost follows the repair.

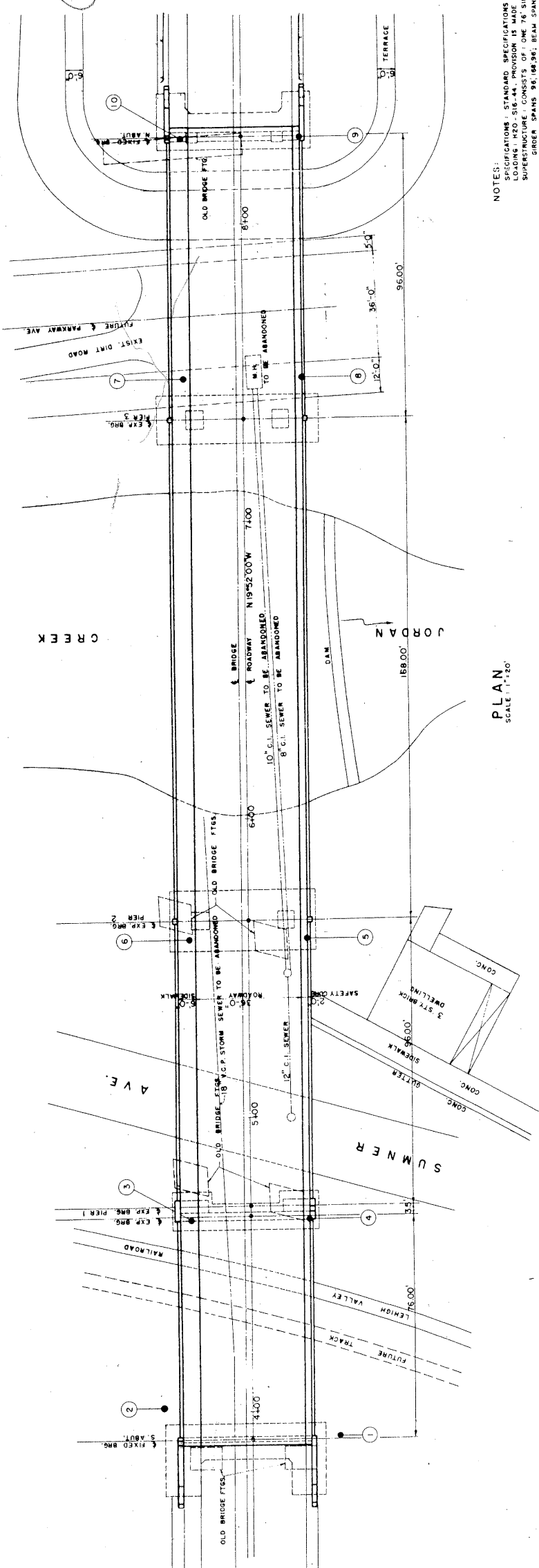
Short Term

1. Wide cracking and some spalling has developed in the far right abutment pedestal. This area is critical, considering this is a two girder span. In lieu of sealing/patching here, concrete removal well into the reinforcement (girder jacking required) may be warranted (\$10,000)
2. Repair/replace the severely deteriorated left fascia stringer at the far end of span 4.
3. Install pavement relief joints at both ends of the bridge to relieve pressure that is possibly causing the backwall failure, bearing misalignment and pedestal cracking. Have your engineer evaluate any other possible causes. (\$8,000)
4. Reset the over-rocked expansion bearings at pier 1 (approach and girder spans) and pier 2. Also, repair the span 1 stringer bearings as needed (install missing bolts, nuts, and washers), while blast cleaning and painting all the bearings. In lieu of resetting the bearings, consider a complete seismic retrofit rehabilitation that replaces the bearings and damaged pedestals.
5. Reconstruct the near abutment backwall, and possibly only patch the far abutment backwall corners. Remove the deteriorated concrete from the near left abutment stem and pier 1, clean any exposed reinforcement and patch by an approved method. Also, wide cracking and some spalling has developed in the far right abutment pedestal/column. This area is critical, considering this is a two girder span. In lieu of sealing/patching here, concrete removal well into the reinforcement (girder jacking required) may be warranted (\$30,000)
6. Clean/flush the scuppers, collection boxes and downspouts, while replacing the severely deteriorated cross pipes and outlets as needed.
7. Backfill/stabilize the eroded slope at the far right, where the pile cap is exposed. (\$1,000)
8. Install approach guiderail at the near right corner, if feasible. (\$3,000)

Long Term

1. This bridge should be inspected by a qualified bridge inspector or engineer a minimum of once every twelve months.

***ATTACHMENT B – ORIGINAL BRIDGE DRAWINGS
PREPARED BY G. EDWIN PIDCOCK CO. IN 1957***



NOTES: SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES - AASHTO, 1993.
LOADING: H20-S16-44. PROVISION IS MADE FOR FUTURE WEARING SURFACE WEIGHING 25 LB/SQ YD.
SUPERSTRUCTURE: COMISTS OF: ONE 76" SIMPLE BEAM SUPERSTRUCTURE WITH 10" THICK CONCRETE SLAB ARE IN COMPOSITE CONSTRUCTION.
REINFC CONCRETE DECK & PARAPET
SUBSTRUCTURE: SPREAD FOOTINGS FOR SOUTH ABUTMENT AND ALL PIERS-30 FT.
BEARING PILES (10BAPT) FOR NORTH ABUTMENT: MAX. TO: PILES= 2 TONS/300 FT.
CONCRETE: CLASS A-10 FOR SUPERSTRUCTURE, CLASS A FOR ENTIRE SUBSTRUCTURE.
REINFORCEMENT: INTERMEDIATE GRADE (ASTM - A305T)
STRUCTURAL STEEL: STRUCTURAL CARBON STEEL (ASTM - A7-53T)
CONCRETE CONSTRUCTION: MINIMUM COVER SHALL BE 3" IN FOOTINGS, 5" ELSEWHERE
CONCRETE SHALL BE PLACED IN 12" LIFTS.
WALLS SHALL BE 12" THICK. ALL WALLS AND 35 DIAMETERS
FOR ALL OTHER BARS UNLESS OTHERWISE SHOWN OR NOTED. REINFORCING
BARS SHALL NOT PASS THROUGH CONTRACTION OR EXPANSION JOINTS. ALL
EXPOSED EDGES OF CONCRETE TO BE CHAMFERED 3/4" UNLESS OTHERWISE
NOTED.
STEEL CONSTRUCTION: BEAMS & GIRDERS TO BE CAMBERED FOR PROFILE CURVE AND
FOR FLOOR SLAB. ALL OPEN HOLES 5/16" &
LARGER TO BE REINFORCED. OTHERWISE NOTED OR SHOWN. FLOOR BEAMS, STIFFENERS AND SPLICES
SHALL BE NORMAL TO GRADE.

Limestone	-6.1
SAND CLAY B. GRAVEL	13.9
SANDY CLAY B. GRAVEL	20.4
SANDY LOAM	26.5

		LIMESTONE	-202
	SAND, CLAY & GRAVEL		-102
	LOADS #		248

55.2		LINE 1000 DE AMT DE AMT
3.2		WFO LINE 1 STONE
0.0		OPEN- LINE 1 STONE
-0.8		OPEN- LINE 1 STONE
-1.8		OPEN- LINE 1 STONE
-6.5		WFO LINE 1 STONE
-8.5		WFO LINE 1 STONE
-12.5		WFO LINE 1 STONE
-28.8		WFO LINE 1 STONE

4.0	LIME STONE CLAY BEAMS	4.0
11.0	LIME WITH CL BEAM	11.0
2.0	LIME CLAY BEAM	2.0
9.5	LIME STONE BEAM	9.5
6.5	LIME STONE BEAM	6.5
5.0	LIME STONE BEAM	5.0
2.0	LIME STONE BEAM	2.0
9.0	LIME STONE BEAM	9.0
4.0	LIME STONE BEAM	4.0

LIMESTONE	CLAY BEAM	LIMESTONE CLAY BEAM	LIMESTONE	SAND, CLAY & GRAVEL FILL
410	430	455	470	470

26.2	SAND • SILT	SAND, CLAY • GRAVEL	LIMESTONE
20.2			
+13.2			
-27.8			

25.5	LOAM CLAY
20.5	SAND, CLAY GRAVEL
3.5	LIME- STONE
0.5	CLAY
-1.5	LIME- STONE
-4.5	CLAY
-10.5	LIME- STONE
-11.0	CLAY
-14.5	LIME- STONE

37.6	FILL
27.6	CLAY, SAND, GRAVEL
139	STONE - 1/2" - 1"
9.9	CLAY, SAND, GRAVEL
9.5	STONE - 1/2" - 1"
5.5	CLAY
5.0	STONE - 1/2" - 1"
4.1	CLAY
1.6	STONE - 1/2" - 1"
-3.4	CLAY
-5.4	STONE - 1/2" - 1"
-8.4	CLAY
-9.4	STONE - 1/2" - 1"
-18.4	CLAY
-29.4	STONE - 1/2" - 1"
-31.9	CLAY

CLAY & ON - COMMON LIMESTONE						87.
LIMESTONE & CLAY						13.7
CLAY						16.7
LIMESTONE & CLAY						29.7
LIME- STONE						31.2
						32.7
CLAY & SANDY						40.7
FILL						43.7

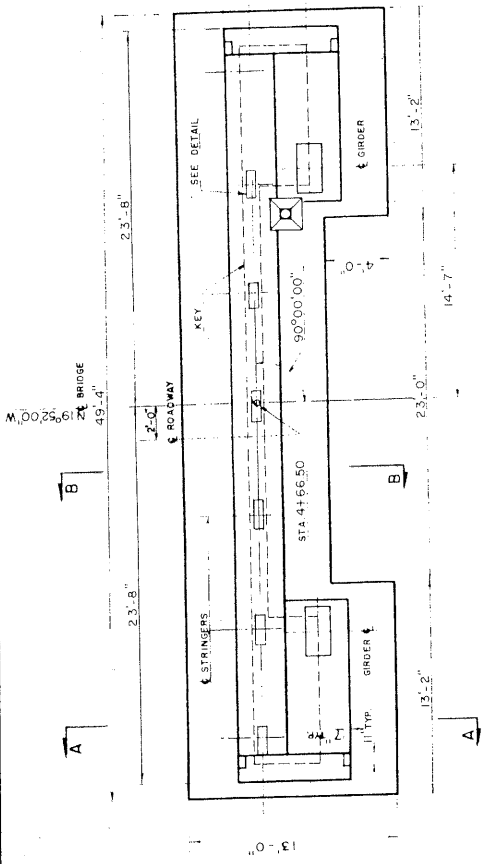
0.80	SAND, CLAY AND GRAVEL	0.30
58.0	FILL	0.30

REVISION	LEHIGH COUNTY 4 TH STREET BRIDGE ALLENTOWN, PA.		
ISSUED FOR BIDS APRIL 4, 1958	CONCRETE DECK GENERAL PLAN & ELEVATION		
	SCALE 1"=20'	G. EDWIN PIDCOCK CO. CONSULTING ENGINEERS ALLENTOWN, PA.	
	DATE MAY 1, 1957	O-149	SHEET 19 OF 24

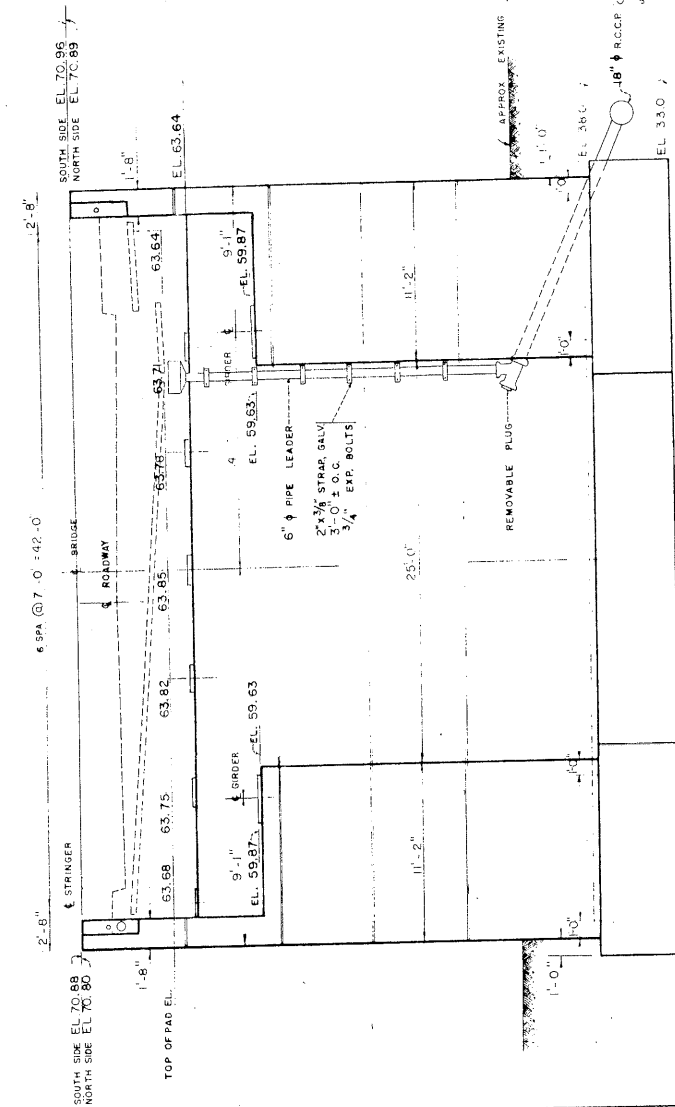
CONSULTANT
D. B. STEINMAN
NEW YORK, N.Y.

39 7301 0000 9032

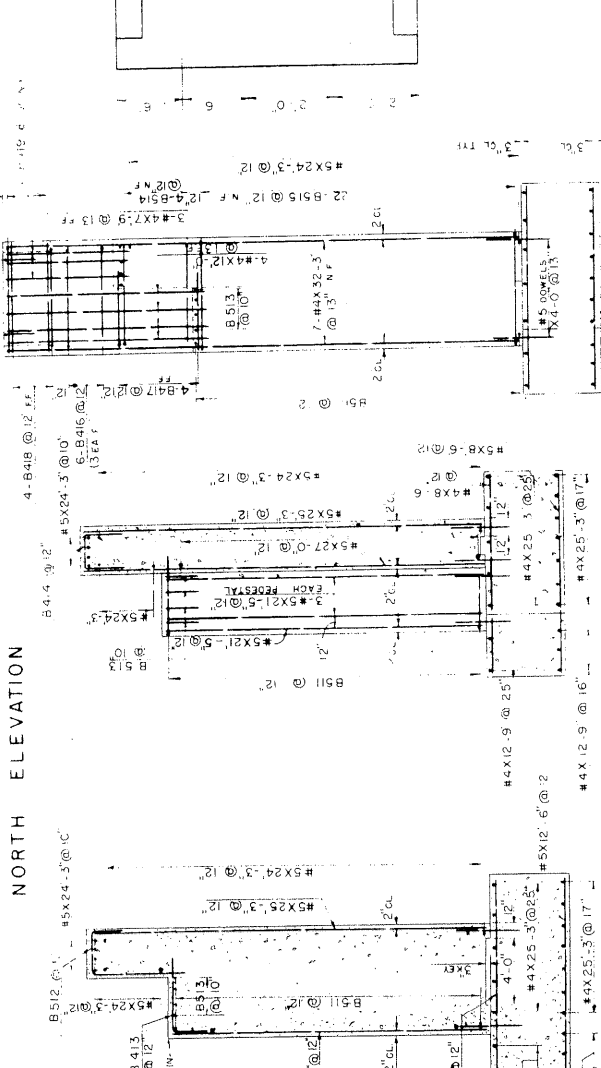
DRWN.	BY: C.B.P.
TRGD.	BY: S.J.V.
CHKD.	BY: R.P.A.



PLAN



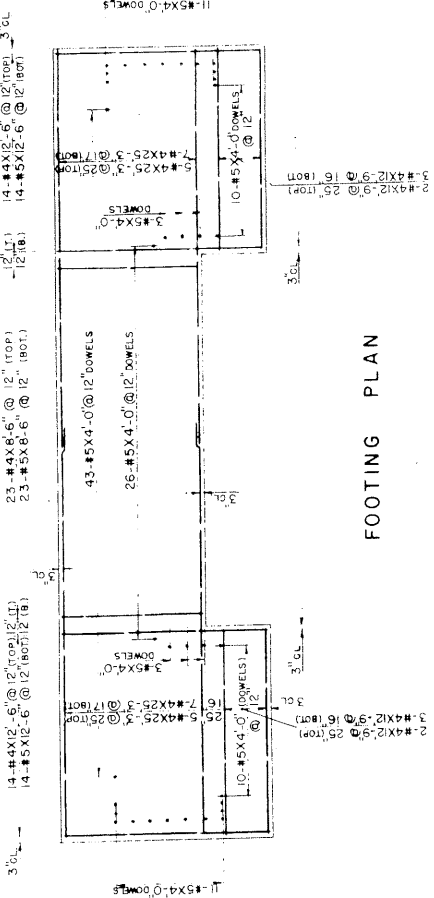
NORTH ELEVATION



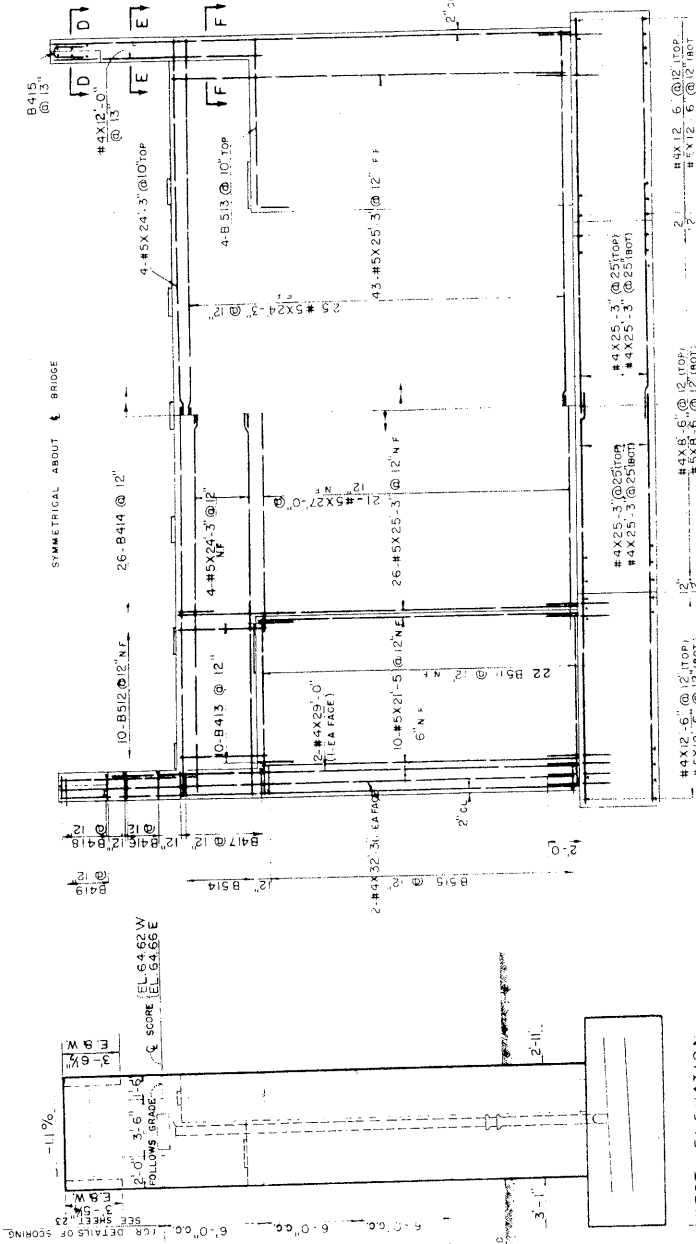
WEST ELEVATION

SECTION B-B

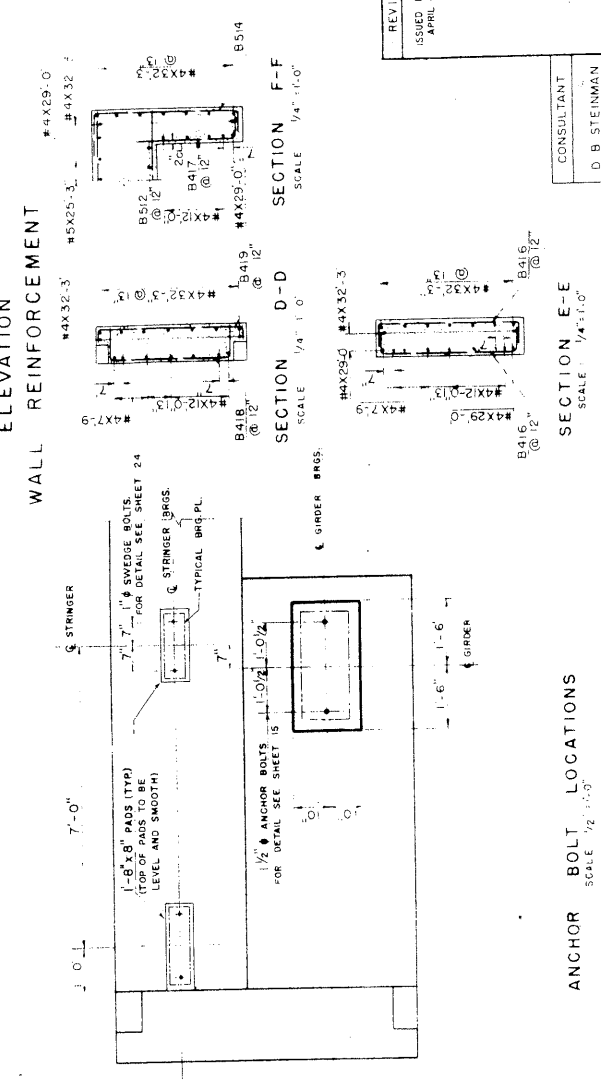
SECTION A-A



FOOTING PLAN



ELEVATION REINFORCEMENT



SECTION D-D

SECTION E-E

SECTION F-F

STRAIGHT BARS				REMARKS	
NO.	SIZE	LENGTH	WEIGHT	REMARKS	
21	5	27'-0"	531		
69	25'-3"	1817			
66	24'-3"	1670			
26	21'-5"	531			
28	12'-6"	365			
23	6'-6"	204			
117	5	4'-0"	488		
18	4	32'-3"	388		
4	28'-0"	78			
24	25'-3"	405			
8	12'-0"	64			
10	12'-9"	85			
28	12'-6"	234			
23	8'-6"	131			
6	4	7'-9"	31		
TOTAL			7132		



BENT BARS				REMARKS	
NO.	SIZE	LENGTH	WEIGHT	REMARKS	
44	8413	2	5'-9"	223	5'-0"
20	8413	2	4	6'-9"	90
26	8413	1	5'-8"	115	2'-0"
10	8413	1	5'-3"	51	2'-0"
12	8416	1	9'-4"	75	1'-4"
8	8417	1	6'-0"	32	4'-4"
8	8418	1	8'-1"	44	5'-4"
8	8419	1	7'-6"	40	6'-4"
TOTAL			1074	2020	

LEHIGH COUNTY
4TH STREET BRIDGE
ALLENTOWN, PA.

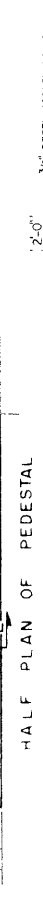
CONCRETE DECK
PIER 1

SCALE:
3/8"=1'-0"
AND AS NOTED
DATE:
MAY 11, 1937

CONSULTANT
G. EDWIN PID COCK CO.
CONSULTING ENGINEERS
ALLENTOWN, PA.

0-149
SHEET 21 OF 34

DRWN	BY	P.J.P.
TRCD	BY	R.D.
CHKD	BY	S.G.

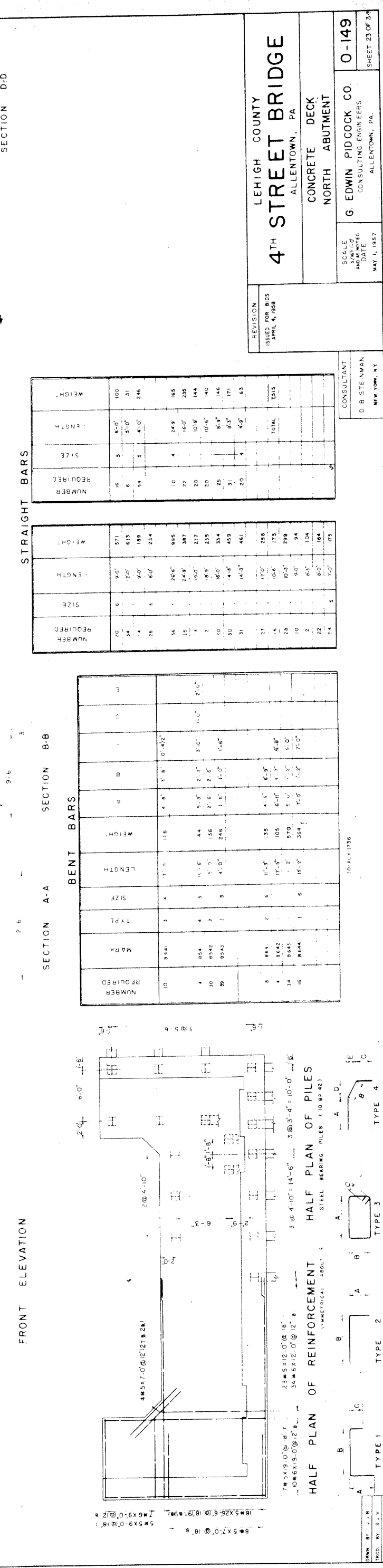
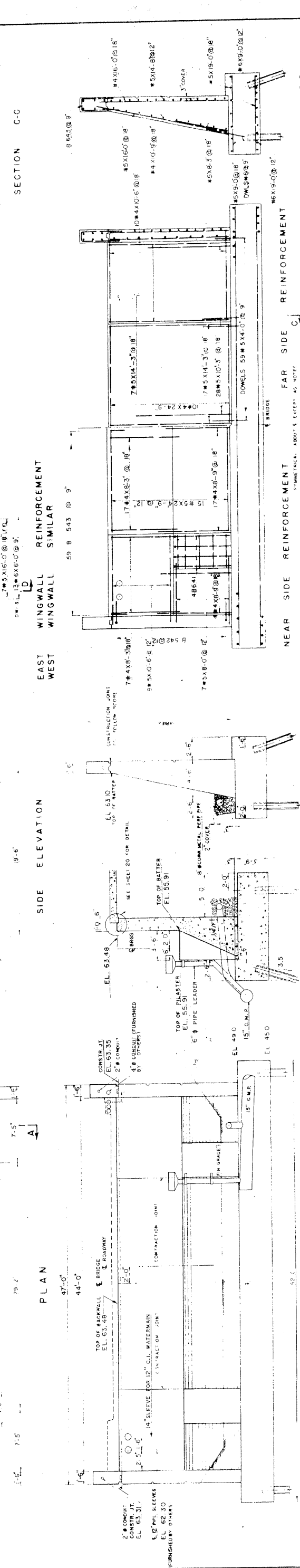
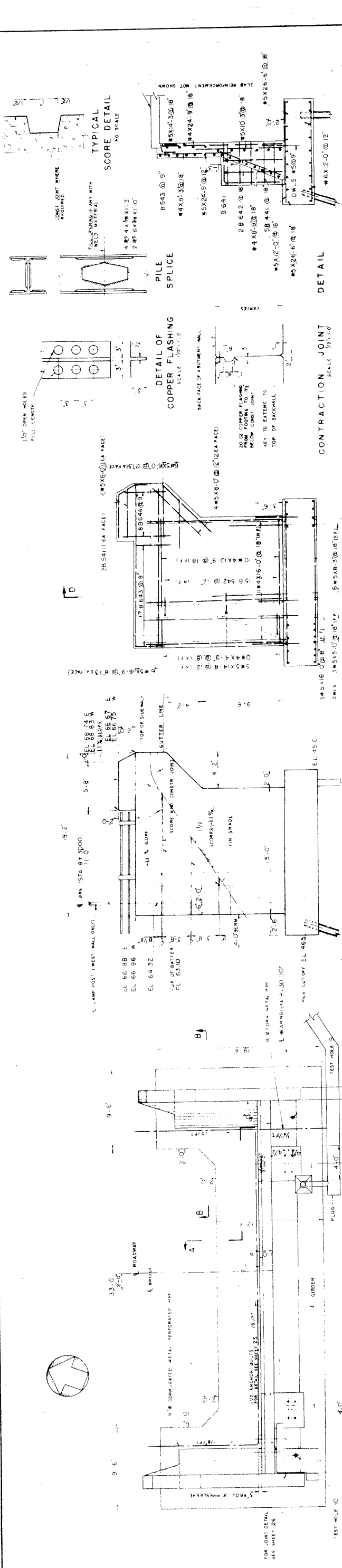


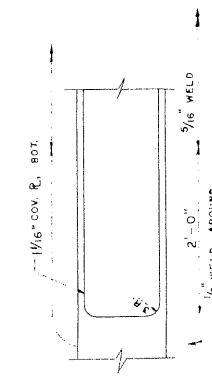
	TOTAL	33327
BENT BARS		



REVISION ISSUED FOR BIDS APRIL 4, 1958	LEHIGH COUNTY 4 TH STREET BRIDGE ALLENTOWN, PA			CONCRETE DECK PIERS 2 & 3	O-149	SHEET 22 OF 34
SCALE 1/8" = 1'-0" AND AS NOTED DATE MAY 11, 1957		G EDWIN PIDCOCK CO. CONSULT'NG ENGINEERS ALLENTOWN, PA.				
CONSULTANT D B STEINMAN NEW YORK, N.Y.						

CONSULTANT
DO B STEINMAN
NEW YORK, N.Y.

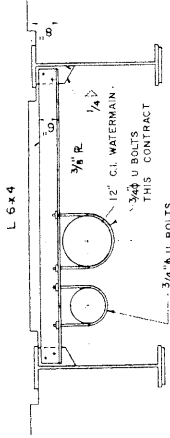




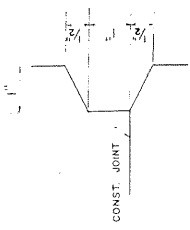
COVER PLATE WELD DETAIL

BAR SIZE	PITCH (IN) X LENGTH (FT-IN)		
# 5	4 x 10'-0"	5 x 11' x 3"	7 1/2 x 11' - 3" 11" X REMAIN

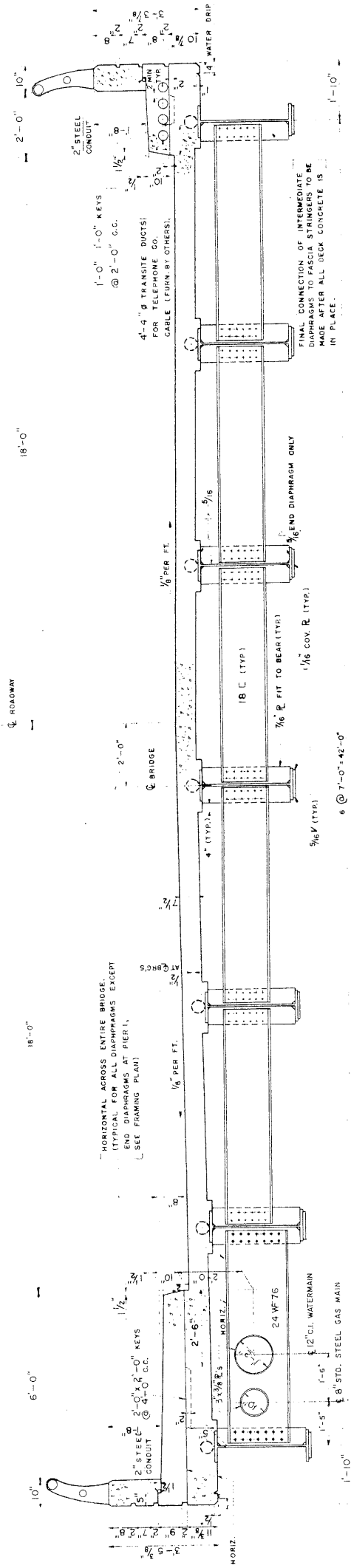
SHEAR SPIRAL DETAILS



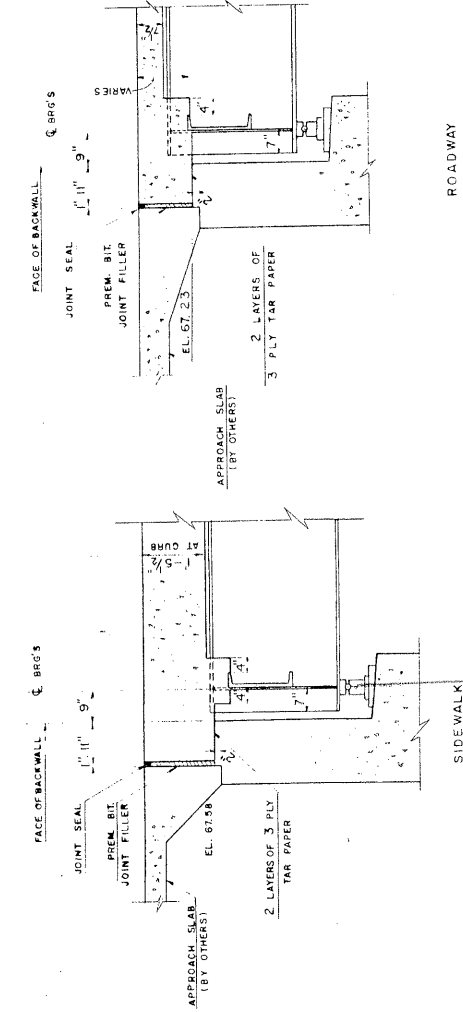
SECTION A-A (TYPICAL)
SCALE: 1/2" = 1'-0"



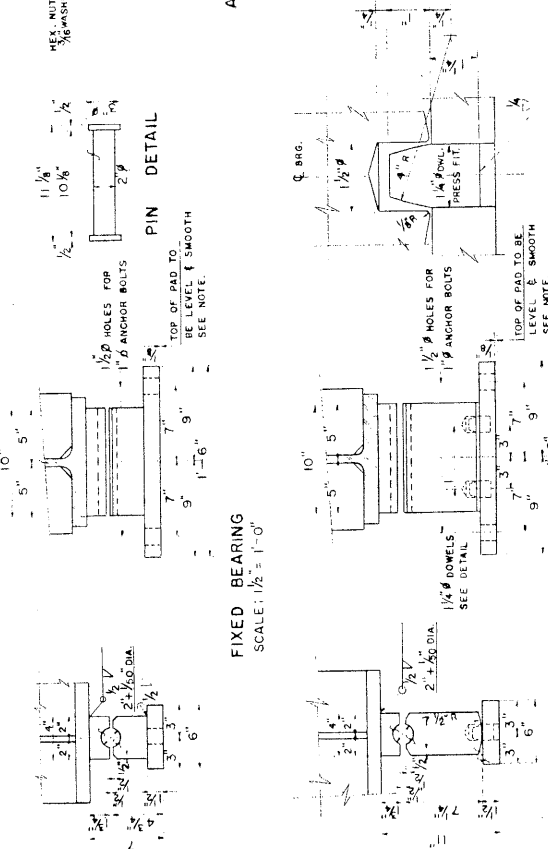
DETAIL OF RUSTICATION



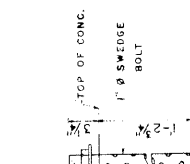
TYPICAL CROSS SECTION
LOOKING NORTH
SCALE: $\frac{1}{2}" = 1'-0"$



JOINT DETAILS AT SOUTH ABUTMENT



EXPANSION BEARING
SCALE: $1/2" = 1'-0"$



ANCHOR BOLT DETAIL

NOTES :

BEFORE PLACING BEARINGS, SWAB PADS WITH RED LEAD PASTE, PLACE 3 LAYERS OF 12 OZ. CANVAS DUCK EACH 8"X18" SWAB PADS, AND PASTE AND SET BEARING PLATES. WHILE PASTE IS STILL PLASTIC, PLACE AND SET BEARING PLATES. WALK AND PARAPETS FOR REINFORCING OF DECK SLAB, SIDEWALKS AND PARAPETS SEE SHEET NO. 19.

FOR RAILINGS AND RAILING POSTS, SEE SHEET NO. 10.

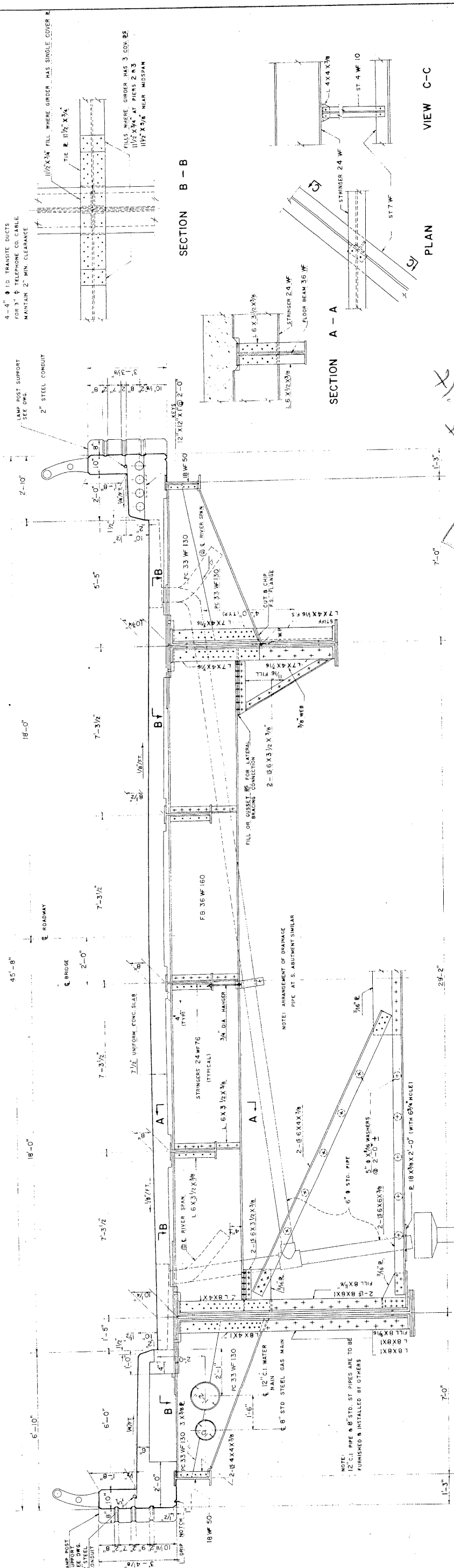
FOR GENERAL NOTES, SEE SHEET NO. 9.

INVEST IN DRAWINGS THAT BE REPLACED BY HIGH STRENGTH INVEST IN DRAWINGS THAT BE REPLACED BY HIGH STRENGTH INVEST IN DRAWINGS THAT BE REPLACED BY HIGH STRENGTH

REVISION	LEHIGH COUNTY	
ISSUED FOR BIDS APRIL 4, 1928	4 TH STREET BRIDGE	
ALLENTOWN, PA.		CONCRETE DECK BEAM SPAN
FRAMING PLAN, CROSS SECTION & DETAILS		
SCALE AS NOTED DATE MAY 1, 1927	G. EDWIN PIDCOCK CO. CONSULTING ENGINEERS ALLENTOWN, PA.	0-149
SHEET 24 OF 36		

CONSULTANT
D.B. STEINMAN
NEW YORK, N.Y.

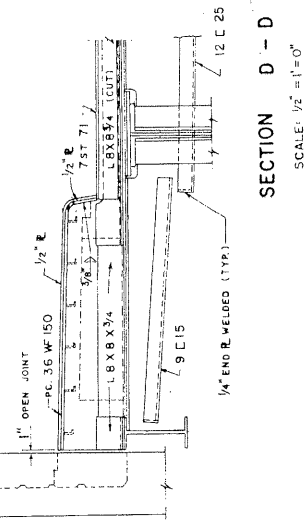
DRWN. BY: R.F.
TRCD. BY: A.C.
CHKD. BY: R.P.A.



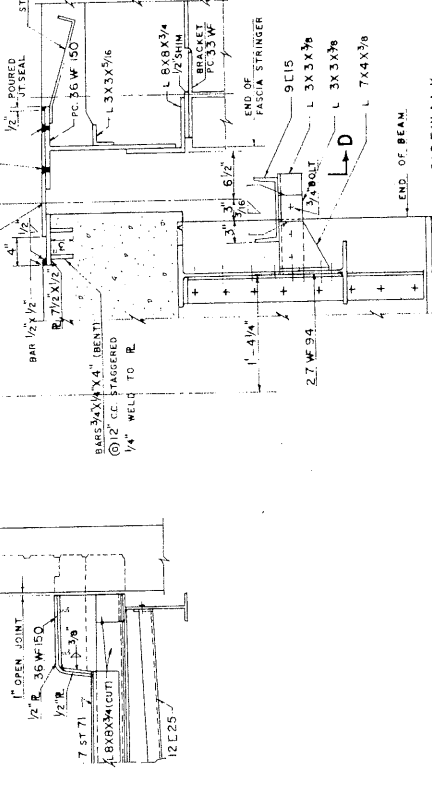
SECTION AT PIERS 2 & 3
(LOOKING NORTH)

TYPICAL CROSS SECTION
(LOOKING NORTH)

DETAILS OF BRACING HANGER

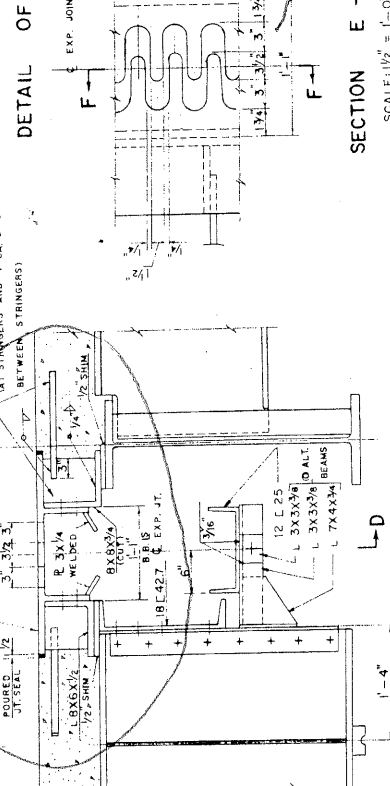


SECTION D - D
SCALE: 1/2" = 1'-0"



EXPANSION JOINT DETAILS AT PIER 1

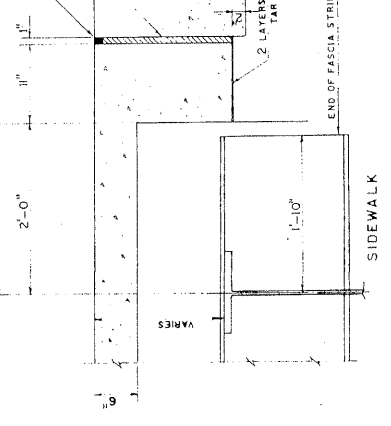
SCALE: 1" = 1'-0"



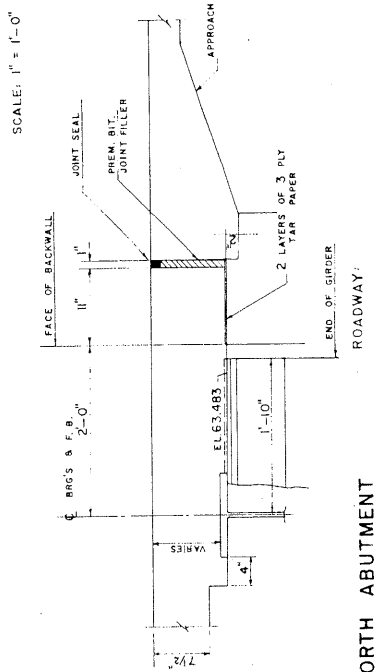
DETAIL OF INTERMEDIATE PIPE SUPPORT

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

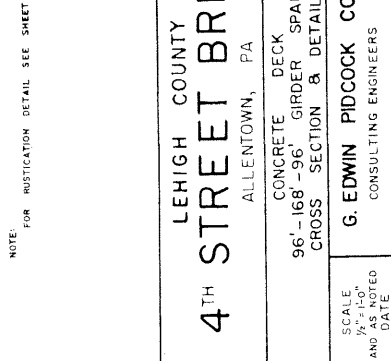
SECTION F - F
SCALE: 3" = 1'-0"



JOINT DETAILS AT NORTH ABUTMENT
SCALE: 1" = 1'-0"



EXPANSION JOINT DETAILS AT PIER 1
SCALE: 1" = 1'-0"



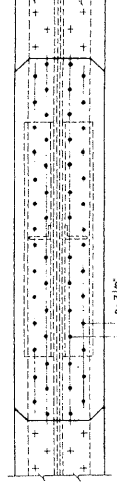
PLAN
VIEW C-C

SECTION B - B

SECTION A - A

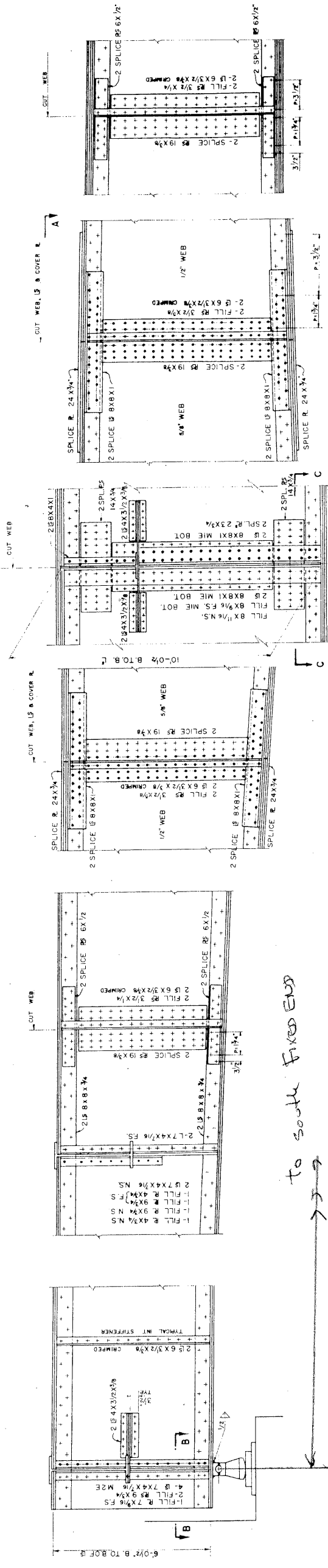
LEHIGH COUNTY 4TH STREET BRIDGE ALLENTOWN, PA		CONCRETE DECK 96'-168'-96" GIRDER SPANS CROSS SECTION & DETAILS		G. EDWIN PIDCOCK CO. CONSULTING ENGINEERS MAY 1, 1957	O-149 SHEET 26 OF 34
REVISION ISSUED FOR BIDS APRIL 4, 1958		SCALE 1/2" = 1'-0" AND DATE MAY 1, 1957		CONSULTANT O.B. STEINMAN NEW YORK, N.Y.	

DRWN. BY: I.D.K.
 TRCD. BY: A.E.L.
 CHKD. BY: A.G.



NOTE: BOTTOM VIEW OF SPLICE IS SIMILAR

SECTION A-A



END SUPPORT

SPLICE S1 & TYPICAL
INTERMEDIATE FLOOR BEAM

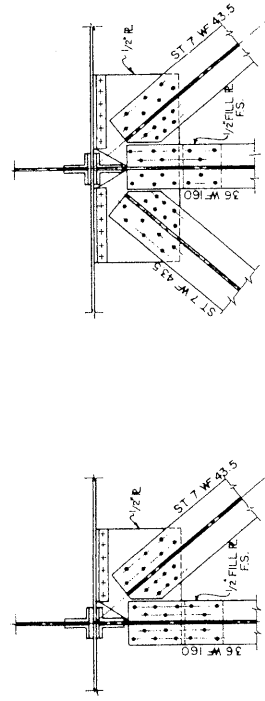
SPLICE F1
DETAILS OF F1 NOT SHOWN, SIMILAR TO F2

SPLICE F2

SPLICE S3

SPLICE S2 & INTERMEDIATE SUPPORT

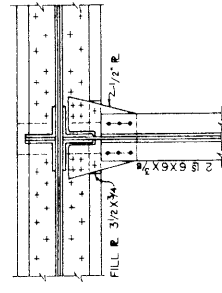
ELEVATION OF WEST GIRDER
(LOOKING WEST)



SECTION B-B

TYPICAL BRACING CONNECTIONS
(FOR LOCATION SEE FRAMING PLAN)

SECTION C-C



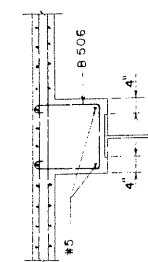
REVISION ISSUED FOR BIDS APRIL 4, 1958	LEHIGH COUNTY 4 TH STREET BRIDGE ALLENTOWN, PA.		
	CONCRETE DECK 96'-168'-96" GIRDER SPANS GIRDER DETAILS		
SCALE 1/4"=1'-0"	G. EDWIN PIDCOCK CO. CONSULTING ENGINEERS ALLENTOWN, PA.		O-149
DATE MAY 1, 1957			SHEET 27 OF 34

CONSULTANT D. B. STEINMAN NEW YORK, N.Y.
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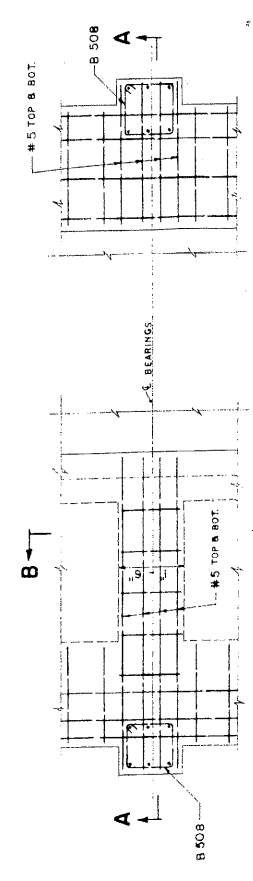
DRAWN BY: M.D.
TRACED BY: S.J.V.
CHECKED BY: S.M.

PARAPET REINFORCING IS THE SAME ON EACH SIDE FOR LOCATION, SEE SHEET NO. 28

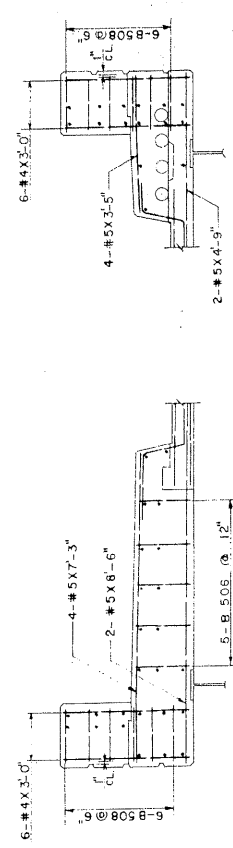
BEAM SPAN
GIRDER SPAN
PARAPET LONGITUDINAL BARS
1X6-#4X21-7"
1X6-#4X22-4"
2X6-#4X23-10"
2X6-#4X23-10"
2X6-#4X24-7"



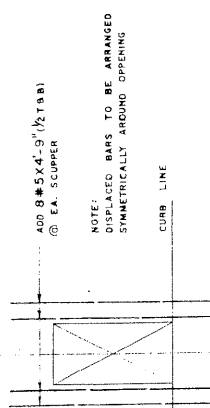
SECTION B - B



LIGHT STANDARD BASE
PLAN AT PIERS 283



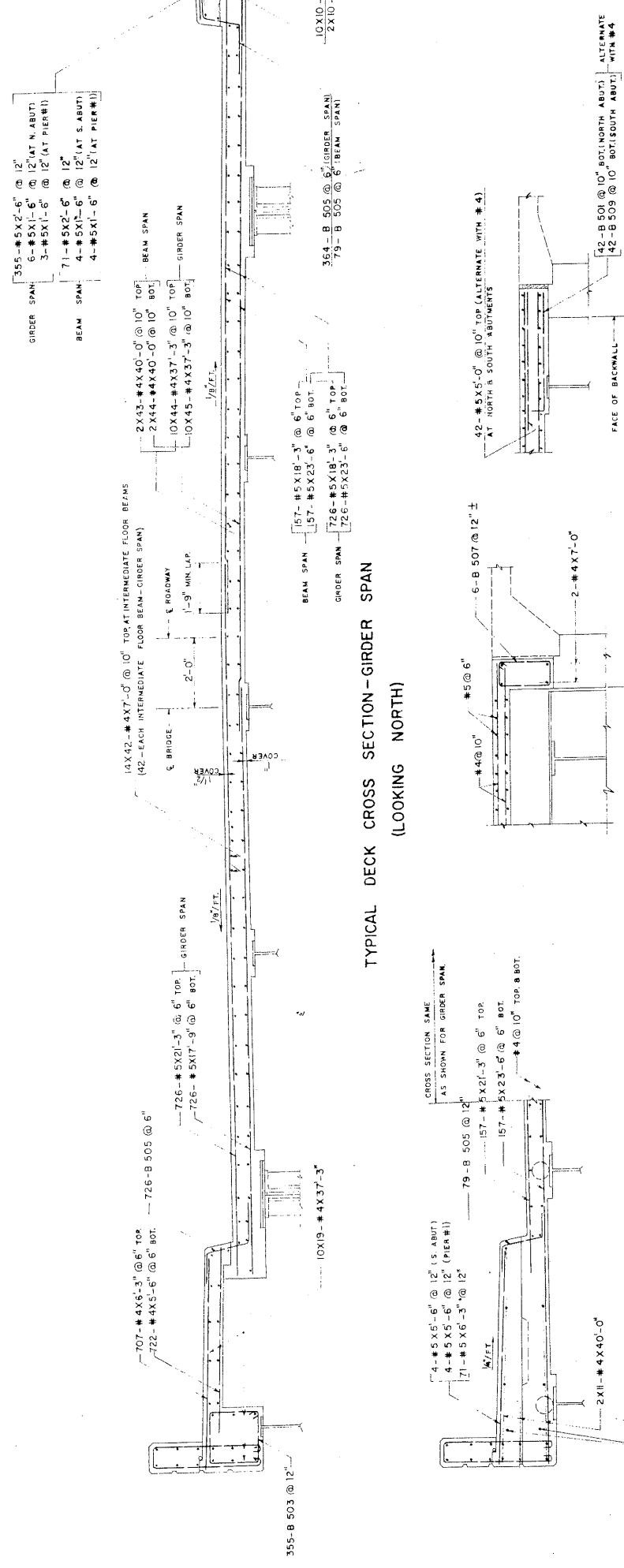
SECTION A - A



ADDITIONAL BARS AT SCUPPERS

NOTE:
DISPLACED BARS TO BE ARRANGED SYMMETRICALLY AROUND OPENING

CURB LINE



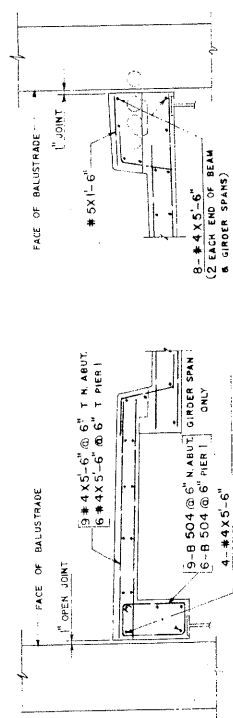
TYPICAL DECK CROSS SECTION - GIRDER SPAN
(LOOKING NORTH)

ROADWAY SECTION AT ABUTMENTS

SIDEWALK SECTION AT NORTH ABUTMENT

TYPICAL PARTIAL DECK CROSS SECTION
BEAM SPAN

BEAM SPAN



CROSS SECTION AT PIER #1 & ABUTMENT - GIRDER SPAN
(BEAM SPAN SIMILAR)

(PARTS NOT SHOWN, SAME AS TYPICAL CROSS SECTION)

NUMBER REQUIRED FOR SPANS			MARK		TYPE	SIZE	BENT		BARS					REMARK
STRINGER	GIRDER	TOTAL					LENGTH	WEIGHT	A	B	C	D	H	
282	42	42	B 501	4	45	4'-0"	3'-6"	3'-0"				4'-1/2"	6"	
	1414	1696	B 502	3		7'-7"	7"	1'-6"	1'-4"			2'-1/2"	4"	
	355	355	B 503	2		6'-9"	10"	1'-4"	1'-0"			2'-1/2"		
158	15	15	B 504	2		5'-3"	3'-3"	1'-0"	3"		1'-3"			
	1090	1248	B 505	1		3'-3"	1'-2"	1'-2"	1'-3"		4'-1/2"	2'-1/2"		
	10	10	B 506	3		4'-9"	4'-2"	1'-3"	1'-3"		2'-1/2"			
42	6	6	B 507	2		4'-2"	4'-2"	1'-3"	1'-3"					
	24	24	B 508	2	45	5'-9"	5'-9"	1'-3"	1'-3"				6"	
	42	42	B 509	4		2'-7"	2'-7"	5'-1"						
						TOTAL	20231							

***ATTACHMENT C – PROFESSIONAL SERVICES AGREEMENT
(To be distributed via Addendum)***