

No 1 May SS 1902.

In re
St. Louis Bridge

RECEIVED
JAN 17 1902
COUNTY ATTORNEYS

Petition for appointment
of trustees

FILED
NOV 27 1902

KREBS & LIVERIGHT.
ATTORNEYS-AT-LAW
CLEARFIELD PENNA.

KURTZ BROS. CLEARFIELD, PA.

IN THE COURT OF QUARTER SESSIONS OF CLEARFIELD COUNTY, PENNSYLVANIA.

In the Matter of Repairs to Bridge at St. Lu.

TO THE HONORABLE ALLISON O. SMITH, PRESIDENT JUDGE:

The petition of the County Commissioners of Clearfield County respectfully represents, that by virtue of an agreement made the 27th day of August, 1908, between the York Bridge Company, a Corporation, and Clearfield County, by the County Commissioners, which agreement was duly approved by the Court, and a copy of which is hereto attached marked Exhibit "A", the said York Bridge Company undertook to do certain repair and reconstruction work ^{upon a bridge} over ~~chest~~ Creek at St. Lu, according to the terms of the contract and the specifications made a part thereof. Petitioners further represent that they have been informed and advised by the York Bridge Company, through George I. Thompson, their sub-contractor, that the said bridge is now completed and ready for public use, but that the same has not been opened to the public pending inspection as contemplated by law. They, therefore, ask the Court to appoint viewers to inspect said bridge, and the work done thereupon under the contract referred to, according to the several Acts of Assembly in that behalf made and provided, and make report thereof to the Court.

And they will ever pray.

Attest:

L. L. Morris

Clerk.

S. R. Hamilton

W. P. A. Cowles

B. F. Wilhelm

County Commissioners of Clearfield Co.

Now the 25th day of November, 1908, petition
presented and considered and thereupon *EW. H. S. A. J. P. M. S.*
and John S. Chaplin

~~are~~ *are* ~~have~~ been appointed viewers to make inspection of the St. Lu
bridge and report thereupon according to law, and said inspectors are
directed to give notice of the time and place of their meeting to the
York Bridge Company by registered mail.

By the Court
Alison O. Smith
O. S.

Exhibit A.

THIS AGREEMENT, Made the 27th day of August, 1908, by and between the YORK BRIDGE COMPANY, a corporation of the State of Pennsylvania, of the first part, and CLEARFIELD COUNTY, by S. R. Hamilton, C. P. Rowles and B. F. Wilhelm, County Commissioners thereof, parties of the second part,

WITNESSETH, that the said party of the first part, for the consideration hereinafter mentioned, agrees to furnish all the materials of every description, and to do all the work of every kind necessary to lengthen a steel highway bridge across Chest Creek at St. Lu, Clearfield County, Pennsylvania, and to build a masonry abutment with concrete base for the said span as lengthened, which lengthening of the superstructure and construction of the abutment are to be done in accordance with the plans and specifications hereto attached marked Exhibits "A", "B" and "C", all of said exhibits being made a part of this contract.

IN CONSIDERATION WHEREOF, the second parties hereto agree to pay to the said first party the sum of Twenty Nine Hundred and Twenty (\$2920.00) Dollars, said amount to be paid upon the completion of the contract and the acceptance of the completed work after inspection made thereof by inspectors duly appointed according to law.

It is mutually understood and agreed that the consideration herein mentioned covers all items specified or contemplated in the plans and specifications hereunto attached. If, however, it is found necessary by the Engineer of the second parties to do any concrete work to make the foundation of the abutment safe, said extra work not covered by the plans and specifications shall be paid for by the parties of the second part, at the price or sum of Ten (\$10.00) Dollars per cubic yard for such extra yardage. In no event, however, shall the first party exceed the figures specified by the plans and specifications without per-

mission in writing from the Engineer of the parties of the second part first had and obtained, and if said extra work is done by the first party hereto without such permission or notification first had and obtained, the cost thereof shall be at the expense of the first party.

Party of the first part further agrees to hold itself responsible for the payment of all just claims for labor, supplies or materials furnished for or done in and about the construction of the said bridge; and for any and all just claims for damages by accident or otherwise caused by or during this construction work; and the parties of the second part shall have the right to apply the funds in their hands due the party of the first part on this contract to the payment of such just claims as are in this paragraph enumerated, if any arise, and such payment shall be considered and accepted by the party of the first part as payment on this contract.

The party of the first part agrees to remove from time to time and before the final acceptance of the work, all surplus and rejected materials, all waste and refuse, at its own expense.

Should at any time imperfect or unsound material be incorporated by the party of the first part in the said bridge, said party, upon notice from the parties of the second part or their engineer, shall cause the same to be removed without delay and to be re-placed with good and proper material, or workmanship or both; and in default of so doing the parties of the second part may effect the same result by such other means as they shall deem best, and shall charge the actual cost of such alteration to the party of the first part, and the amount shall be deducted from the sum due and payable to the party of the first part. It is to be understood, however, that this right vested in the parties of the second part is not exclusive, and if not pursued it shall not pre-

vent a defense being made by the parties of the second part to any action on this contract, if in their judgment the circumstances should warrant a defense.

The party of the first part agrees to have the bridge completed, open and ready for ~~xxx~~ public use, on or before the ^{10th} day of ~~November~~ A. D., 1908. It, however, is not to be held responsible for delays caused by the elements, strikes of workmen, or acts of Providence, and for any delays so caused a proper extension of time shall be granted. If, however, the bridge is not open and ready for public use by the time specified, and the delay is not on account of any of the causes in this paragraph specified, the sum of \$5⁰⁰ — for each day's delay shall be deducted from the price herein contracted to be paid to the party of the first part, which sum shall be regarded as liquidated damages for the delay, and not as a penalty.

The party of the first part agrees to notify the parties of the second part, in writing, as soon as the material for the construction of the superstructure shall have arrived upon the ground, and it also agrees to notify said parties of the second part, in writing, immediately prior to its beginning work, either upon the superstructure or the abutment. It is mutually agreed that if any controversies arise as to the proper performance of this contract by the party of the first part, the decision of the engineer of the parties of the second part hereto upon such disputed points shall be final and conclusive.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be duly executed by their proper officers, respectively, and their respective corporate seals to be hereunto attached, duly attested, the day and year first above written.

YORK BRIDGE COMPANY,
By

Attest:

W. H. Shipman

L. A. Brown

CLEARFIELD COUNTY,
By

S. R. Hamilton

W. F. Woods

B. F. Wilhelm

County Commissioners

Attest:

L. C. Shorris
Clerk

PROPOSAL.

TO THE HONORABLE BOARD OF COUNTY COMMISSIONERS OF CLEARFIELD
COUNTY PENNSYLVANIA.

GENTLEMEN,

The York Bridge Co. hereby propose to build and complete ac-
cording to plans and specifications in your office the lengthened
span and abutment of bridge at St. Lu Clearfield County Pa. at
prices as follows:

Strengthening and lengthening span of
said bridge and placing complete and
ready for travel on abutments as per
specifications. Lump sum.

for the sum of \$1295.00

Stone masonry. Per cubic yard.

for \$8.25

CONCRETE, proportions 1;3;6
per cubic yard.

for Concrete \$10 Cub. Yd.

CONCRETE, proportions 1;4; 7 1/2
per cubic yard.

for \$10.00

For all Extra yardage \$10.00 Cub Yd

Further propose and agree to give required amount of
bond for faithful performance of work and enter into a contract to
complete the same on or before the tenth day of _____ A.D. 1908.

York Bridge Co
Per
M. D. Borman

SPECIFICATIONS FOR LENGTHENING STEEL HIGHWAY BRIDGE ACROSS CHEST
CREEK AT ST. LU CLEARFIELD COUNTY PENNSYLVANIA AND BUILDING A MASON
RY ABUTMENT WITH CONCRETE BASE FOR SPAN AS LENGTHENED.

SUPERSTRUCTURE.

1. The party to whom the contract is let shall strengthen present middle panel of bridge as hereinafter specified and shall add one 17 foot panel to the bridge aforesaid, which has seven panels, so placing said panel to adjoin present middle panel of said bridge, that East end of said lengthened bridge shall rest on East abutment as now built, and West three panels of present bridge shall be moved one panel's length Westward so as to rest on new abutment to be built by contractor 17 feet in rear of wrecked abutment making the lengthened bridge 8 panel's length.

2. Contractor shall take action to secure superstructure of said bridge from destruction by floods or otherwise within ten days after contract is awarded and bond delivered and approved; as soon as work is so started contractor shall be held responsible to erect work called for by these specifications, and at end of said ten days regardless of whether or not work has been started contractor shall be held liable for safety of said bridge and completion of contract, and an action shall lie by County Commissioners of Clearfield County on contractor's bond for full value of said bridge and all damage sustained by destruction of present bridge from any cause and failure to complete contract if destruction of bridge and failure to complete contract occurs after said ten days or after work started as aforesaid.

DETAILS OF WORK.

3. One of the diagonal rods in each truss of middle panel shall be moved and used as a counter in new panel. Two new bars each one inch by one inch shall be placed as main ties or diagonals in each truss of present middle panel and two bars each one inch by one inch to be placed in each truss in new or added panel to act as main diagonals. Other members of new panel to be of size of present middle panel. Details, floor system, braces, Etc., to be of size to give new panel same carrying capacity as balance of bridge. Floor beams, stringers or joists, flooring, railing, connections, Etc. and all other parts in new panel and size and style of new panel itself to be uniform with balance of bridge.

MATERIALS AND WORKMANSHIP.

4. All material to be new not having been used in any other structure. New part of Steel superstructure to be open hearth steel conforming in material and workmanship with manufacturers standard specifications of Feb. 6 1903. Flooring to be first quality White Oak plank of thickness of balance of floor and well spiked on. All metal to have one coat of paint before assembling and one coat of same color and composition present bridge is painted after erection; both coats of paint to be applied when the weather is mild. Contractor to have option of taking down present bridge and re-building it with added parts after abutment is built, or supporting it in place and adding new work and making changes without taking bridge down but in either case any parts now needing repairs, and any and all repairs and placing or replacing and supplying of materials and labor neces-

17
119- DLD.
12
136 NEW.

sary and placing lengthened span on new abutment complete ready for travel to satisfaction of County commissioners and their engineer, shall be furnished and done by contractor at price bid for lengthening superstructure. Contractor choosing to hold bridge in place while abutment is being built shall not relieve him from the provisions of foregoing paragraph number 2. On completion of work contractor shall remove all false work and leave no rubbish in vicinity of bridge.

ABUTMENT.

5. The masonry above the concrete base will be rock range work laid in courses decreasing in thickness from bottom to top with no course less than twelve inches in thickness. Stones used in the work shall contain generally about five cubic feet and such stones shall be used where there is room for them in the space to be filled and stones less than two cubic feet in size shall be used only to fill small interstices in the heart of the wall. No stones shall be used in the work which have less bed than rise, and no rounded or water worn stones shall be placed in the wall. Stones shall be so placed throughout as to form a good bond. No header shall be placed over a joint in the next course below, no joint shall be made on a header of the next course below, no vertical joint shall be made within nine inches of a vertical joint in the next course below, and no joint either horizontal or vertical shall at any point exceed one-half inch in thickness.

6. At least one fifth of the faces and backs of walls shall consist of headers, evenly distributed, having their beds dressed parallel and extending into the wall the size they show on the face a distance at least equal to two and one-half times the thickness of the course in which they are placed. Stretchers shall have the top and bottom beds smoothly dressed parallel for a distance back from the face at least equal to the rise of the stone and vertical joints parallel at least six inches into the wall. Interior stones and backing shall be free from dirt and sharp angles, shall be well bedded, bonding with the other work, and carry through the range evenly. Face stones shall be laid in bed of mortar and no blocking up with spawls under inner edge will be permitted. Backing and interior stones all to be laid in good beds of mortar and all interstices entirely filled with spawls and mortar. Any mortar having appreciably set before using shall not be used in wall, and any stone loosened after mortar in which it is placed has partially set shall be reset in new bed of mortar. Contractor shall on request of engineer or any of the county commissioners thoroughly grout any part of the work. Mortar shall be made of sand and American Portland cement in the proportion of three parts sand to one of cement by measure, both to be of quality satisfactory to engineer. Grouting if used to be in proportion of two parts sand to one of Portland cement. The masonry shall be carefully pointed after the stones are all laid and temperature between 75 degrees and 32 degrees Fahrenheit, to depth of at least one-half inch with calking iron and hammer. The mortar for pointing to be made of one part sand and one part Portland cement.

7. Coping on bridgeseat, to extend under dirt wall, and coping on wing walls and bridge seat to be dressed smooth on top; beds, joints, and tops of stones therein to be true planes the full length breadth and thickness of each stone. Front corners of abutments to have neatly chiseled draft cut on them. Contractor to have all stone free from wrecked abutment fit to use in new abutment, but the cost and price for removing them from said abutment and preparing them for new abutment is included in price bid per cubic yard of masonry.

BASE OR FOUNDATION OF CONCRETE.

8. The concrete shall be started at least one foot below bottom of deepest part of Creek in vicinity of abutment, or so much deeper as may be necessary in opinion of engineer to secure good bottom and prevent underwashing. If rock or other sufficiently good bottom cannot be obtained at reasonable depth such steps shall be taken as engineer may direct and any work done to make foundation safe shall be paid for on estimate of engineer. The excavations for wing walls shall be made at same time excavations for main body of abutment are being made. No concrete shall be laid until the foundation is inspected and pronounced satisfactory by the engineer. Water shall be kept out of pit where concrete is being laid until concrete has set to such extent that in opinion of engineer or inspector on work the admission of water will not wash out any of the materials of which concrete is composed. This provision as to keeping out water to apply also to stone masonry work of abutment. The stone masonry shall not be started on concrete base until at least 24 hours after completion of concrete work.

9. Concrete for top two feet of base shall consist of the following proportions by measurement; one part of Portland Cement packed in the original package, three parts sand measured loosely and six parts broken stone. Concrete for part of foundation under the two feet aforesaid shall consist of one part cement four parts sand and seven and one-half parts broken stone all to be measured as aforesaid. Cement to be first grade Portland cement, sand to be clean and sharp and both to be satisfactory to the engineer. Broken stone to be crushed to size that any piece can be passed through a two inch ring and with all dust and all pieces less than 1/4 inch in size screened out. Crusher dust may be used as sand at option of engineer but amount in any batch must be measured and the fine dust and screenings with sand used shall not exceed the proportion of sand aforesaid.

10. Concrete shall be put on in layers not exceeding 6 inches in depth. If a layer has taken initial set the surface shall be thoroughly cleaned and scrubbed with coarse brushes and water and sprinkled with neat cement before concrete is placed on it so that a good bond obtains to top of wall. Layers not to be allowed to run out to a thin edge when work is stopped temporarily but must be kept vertical by a board partition. Each layer to be thoroughly tamped until water rises to the surface.

11. Tight platforms shall be provided of sufficient size to accommodate men and materials for the progressive and rapid mixing of the concrete. Batches shall not exceed one cubic yard each and smaller batches are preferable based on the multiple of the number of sacks in a barrel. Spread the sand evenly upon the platform, then the cement upon the sand and mix thoroughly until of an even color. Add all the water necessary to make a thin mortar and spread again; add all the stone, which if dry shall be thoroughly wet down, turn the mass with shovels or hoos until thoroughly incorporated. Concrete to be of such consistency that when slightly tamped thin mortar will come to the surface.

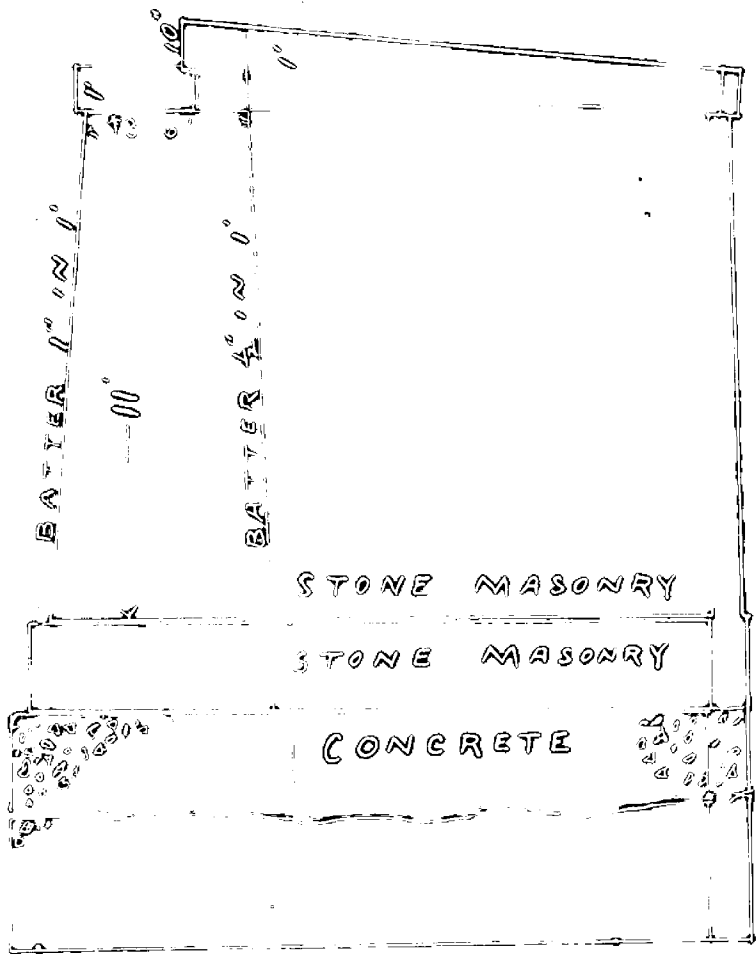
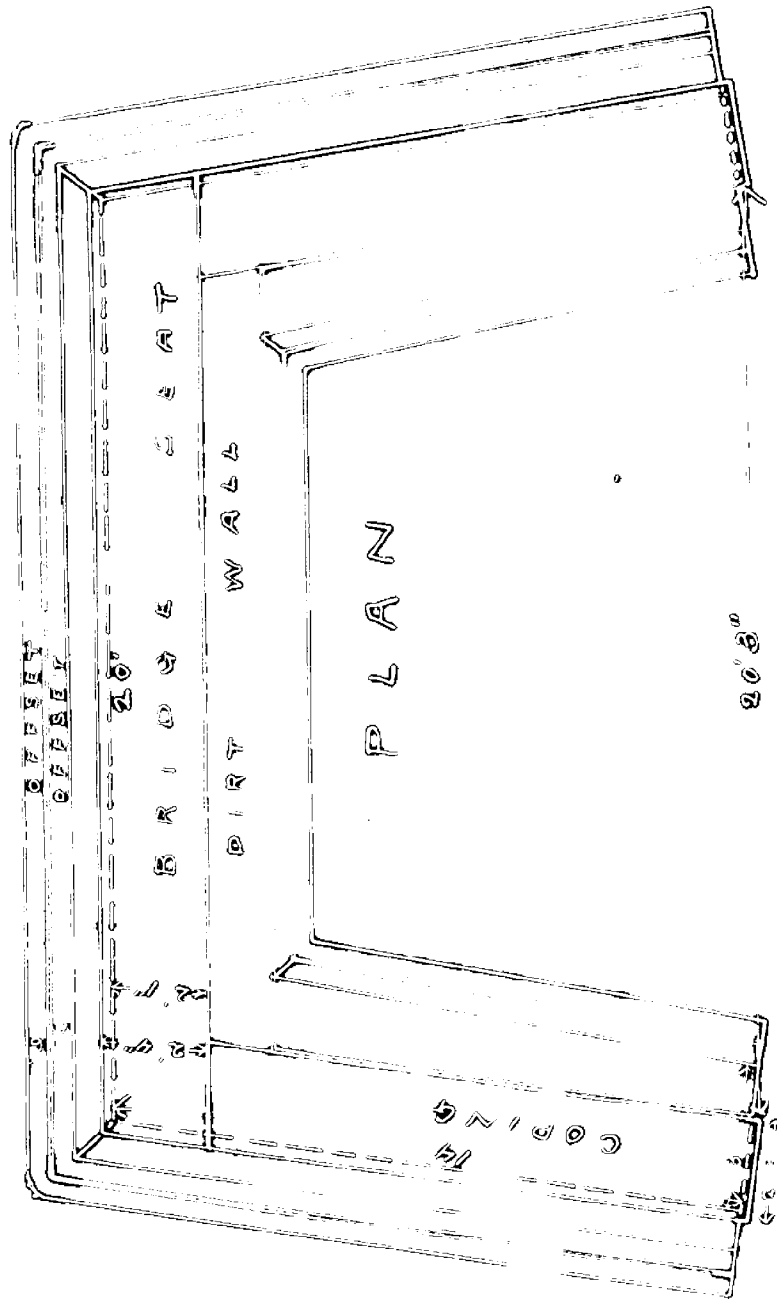
12. Forms shall be built substantial and unyielding, properly braced, having smooth surface next the concrete and shall conform to plan of work. All corners shall be rounded with radius of one inch except upstream vertical corner which shall have radius of two inches. Forms for front and upstream wing for 3 feet from front shall be of dressed lumber.

13. Concrete shall be placed immediately after mixing and any having an initial set shall be rejected. About one inch of mortar made of one part cement and two parts sand for finishing coat shall be placed next to the forms immediately in advance of the concrete on face of abutment next creek and for 3 feet from face on downstream and upstream ends, and same to be floated and given a smooth finish. other parts of face and the rears of walls to have fine mortar worked to outside making the work as nearly waterproof as may be.

14. Walls of concrete and stone masonry shall be built and paid for of size shown on plans unless changed by engineer in writing, and in making calculation of masonry and concrete no part shall be counted twice. Contractor shall be paid price bid per cubic yard of masonry and concrete computed as aforesaid, which price shall include the cost and price of furnishing all materials, stone, broken stone, cement, sand, forms, labor, excavations, timbers, coffer dams, pumping water, Etc, and all risks from floods or otherwise. Clearfield Pa. Aug. 12. 1908.

Harry Byers C. E.

Exhibit
"B"



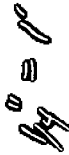
END ELEVATION AND SECTION

PLAN
for West Abutment at
ST. LU
Clearfield County,
PA.

Scale
1" = 4'

Charfield Pa Aug 12 1908
J. W. Byers C.E.

95-X



Plan for Bridge
Abutments at St. Louis
Station, Cleofield Co.
Pa.

Clearfield Pa
July 24 1903
Harry Byers Co.
22'

July 24 1903

22' Harry Byers CE

22-

OFFSETS

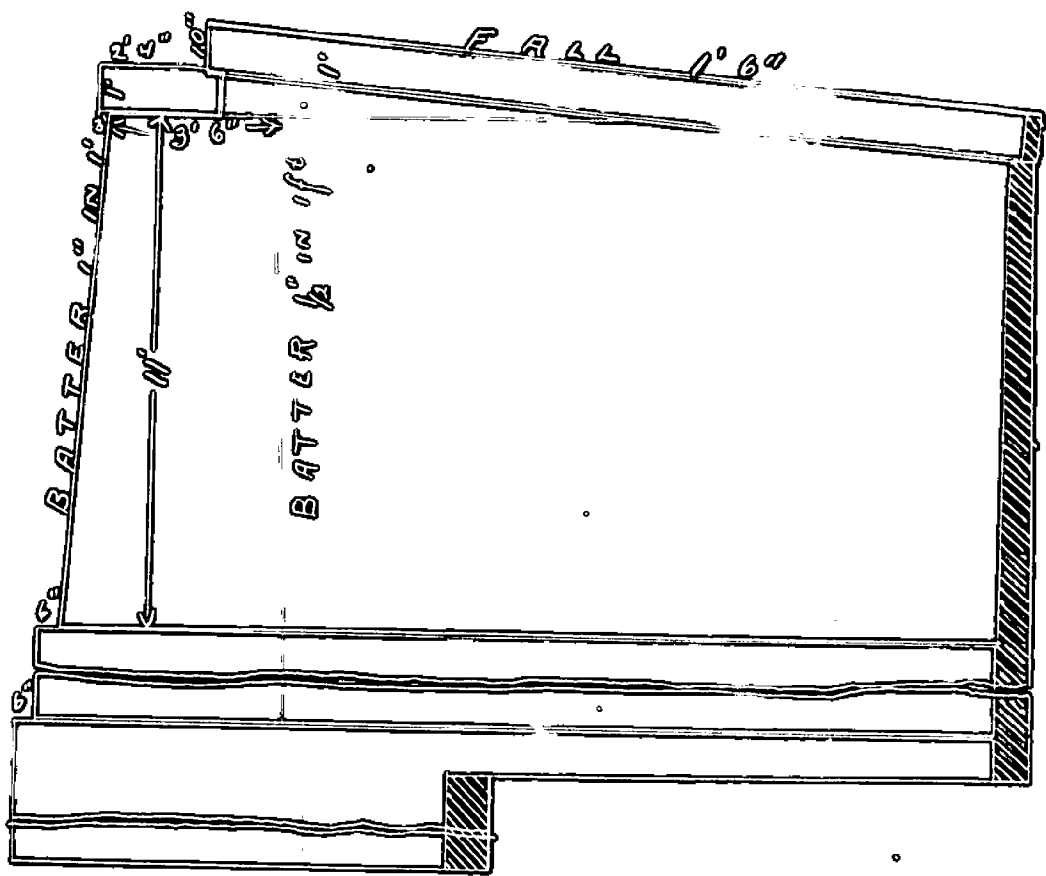
BE I D G E S E A T

DIRT WALL

WELSH

62-11169-100

END ELEVATION AND SECTION



NO 11 MAY 55 1502

IN re
St. Louis Bridge

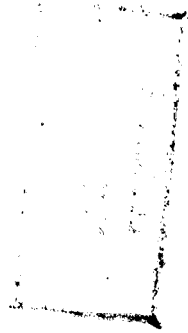
COUNTY AUDITOR
JAN 11 1955

Receipt for appointment
of Inspectors

PAID
NOV 2 1955

KREBS & LIVERIGHT,
ATTORNEYS-AT-LAW
CLEARFIELD PENNA.

1 May Term 1902

In re St. Lu Bridge
Clearfield County with York Bridge Co.
Contract.
Sept. 23, 1908 this contract is approved, By the Court Alfred C. Smith CJ.

KREBS & LIVERIGHT, ATTORNEYS-AT-LAW CLEARFIELD PENNA.