

Rat. Microfilmed

RD#1

June 1971



R E P O R T O F V I E W E R S .

To the Honorable, the Judges of the Court of Quarter Sessions of  
Cambria County, Pennsylvania.

We, the undersigned members of the Permanent Board of Viewers of Cambria County, appointed by your honorable Court upon the attached order, to view and inspect a certain bridge over Laurel Lick Run, a branch of Chest Creek, in East Carroll Township, Cambria County, Pennsylvania, respectfully report:-

That having given due notice of the view and of the time and place of meeting of the viewers to the Commissioners of Cambria County and to Owen & Plummer, Inc., of Johnstown, Pa., the contractors, and having been each duly sworn according to law to perform the duties of our appointment faithfully, impartially and to the best of our judgment and ability: all of us met at the bridge to be inspected and having carefully gone over the details of the construction of the same with the Engineer for the Commissioners of Cambria County and having carefully examined and inspected the said new bridge, we find the said bridge over Laurel Lick Run, at the place above designated, to have been completed in a good and workmanlike manner and so far as can be determined according to the plans and specifications and therefore we recommend that the balance due on the contract, viz; two thousand forty dollars seventy nine cents - which represents the amount of the original bid of \$3699.22 plus the amount of extras necessitated by reason of the order of the Water Supply Commission, or \$1666.06; making a total of \$5365.28. less the amount of previous payment of \$3324.49. Which said amount of \$2040.79. we recommend to be paid by the County Commissioners of Cambria County to the said contractors.

Witness our hands this 26th. day of February, A. D. 1923.

A. M. Shoemaker

J. D. Ritter

Adam Saurman

Viewers.

# Costs of View

A. M. Shoemaker

Sifting Order \$ .90  
3 1/2 Days @ 750  
\$ 26.25  
\$ 27.15

J. D. Ritter

Day on View 750  
46 miles @ 57  
230  
\$ 980

Adam Thurman

Day on View \$ 750  
22 miles  
110  
\$ 860

FEB 28 1923 CERTIFIED

Est. No. 2.  
Final.

C-O-P-Y:

East Carroll Twp. Bridge  
over  
Leurel Lick Run, Cambria County, Pa.

Character of Work	Work done during month	Work done to First of Month to date.	Unit Price	Amt.
			Dols. Cts.	Dols. Cts.

Excavation	90 Cu. Yds.			
Boulder Concrete	59.90 Cu. Yds.			
Concrete 1-2-4	25.1 Cu. Yds.	Lump Sum As Per Contract		
Reinforcing Steel	6936 Lbs.			
Sand Cushion	27.5 Cu. Yds.			
Brick in place	1150		3699	22

Extra work necessary to comply with the instructions of the Water Commission as per letter attached.

Excavation	350 Cu. Yds.	3 00	1050	00
Boulder Concrete	7 Cu. Yds.	22 00	15	40
Concrete 1-2-4	9.3 Cu. Yds.	24 00	223	20
Steel Reinforcing	6291 Lbs.	06	377	46
			<del>\$5365</del>	<del>26</del> Total Cost of Bridge to date
			3324	49 Amt. of Previous Payment
			\$2040	79 Balance Due Contractor

Received the above amount due this

Day of \_\_\_\_\_ 1923.

Feb. 5, 1923.  
Approved.

\_\_\_\_\_  
County Engineer.

IN THE COURT OF QUARTER SESSIONS OF CAMBRIA COUNTY, NO. 1 JUNE SESSIONS,  
1921.  
TO THE HONORABLE JUDGES OF THE COURT OF QUARTER SESSIONS OF CAMBRIA  
COUNTY, PENNSYLVANIA.

The Petition of the Commissioners of Cambria County, respectfully  
represents:

That it having appeared to the Court, to the Grand Jury, and  
the Commissioners of the said County, that a Bridge over Laurel Lick  
Run, a Branch of the ChestCreek, in East Carroll Township, Cambria  
County, Pennsylvania, was necessary, and that it would be too expensive  
for the said Township to erect said Bridge; and the same having been  
entered of record, your Petitioners procured an estimate to be made as  
nearly as might be, of the expense of the same, and did proceed to have  
such bridge erected, by entering a contract with Owen & Plummer, Inc.,  
of Johnstown, Pa., for the building of said Bridge for the sum of THREE  
THOUSAND SIX HUNDRED NINETY-NINE AND TWENTY-TWO ONE HUNDREDTH  
(\$3699.22) DOLLARS: and that because of extra work necessary to comply  
with the instructions of the Water Supply Commission, additional costs  
were incurred in the amount of ONE THOUSAND SIX HUNDRED SIXTY-SIX AND  
SIX ONE HUNDREDTH (\$1666.06) DOLLARS, making the total cost of the  
bridge \$5365.28; and that the said Bridge is now completed agreeably  
to the said contract. The balance due the Contractor being \$2040.79.

Your Petitioners, therefore, pray the Court to appoint Inspectors  
to inspect said Bridge and the workmanship thereof, agreeably to the Act  
of Assembly, and the Supplements and Amendments thereto, and to make  
report to your Honorable Court.

T. Stanton Davis

H. B. Heffley  
Commissioners of Cambria County.

Attest

(SEAL)

James McClune, Clerk

- D E C R E E -

And now, February 12, 1923, the within petition read and  
considered and J. D. Ritter, Adam Shuman and An M. Shoemaker, Esq.,  
appointed to inspect Bridge over Laurel Lick Run in East Carroll Twp.  
Extract from the Record. BY THE COURT.

Certified this 13th day of  
February, A. D. 1923.

E.

*Frank C. Roth* Clerk Q. S.

No. 1 June Sessions, 1921

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

In re appointment of Inspectors  
to inspect Bridge over Laurel  
Lick Run in East Carroll Twp.

ORDER TO INSPECT.

*and*  
*Report.*

J. D. Ritter  
Adam Shuman  
A. M. Shoemaker  
Inspectors.

*Filed 27 July 1923*

CLERK ROBB..... 90 cts.

8400 B

IN THE COURT OF QUARTER SESSIONS OF CAMBRIA COUNTY, NO 1, JUNE SESSIONS, 1921.  
TO THE HONORABLE JUDGES OF THE COURT OF QUARTER SESSIONS OF CAMBRIA COUNTY,  
PENNSYLVANIA.

The Petition of the Commissioners of Cambria County, respectfully  
represents:

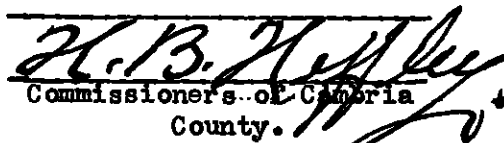
That it having appeared to the Court, to the Grand Jury, and the  
Commissioners of the said County, that a Bridge over Laurel Lick Run, a Branch  
of the Chest Creek, in East Carroll Township, Cambria County, Pennsylvania, was  
necessary, and that it would be too expensive for the said Township to erect said  
Bridge; and the same having been entered of record, your Petitioners procured an  
estimate to be made as nearly as might be, of the expense of the same, and did  
proceed to have such bridge erected, by entering a contract with Owen & Plummer,  
Inc., of Johnstown, Pa., for the building of said Bridge for the sum of THREE  
THOUSAND SIX HUNDRED NINETY-NINE AND TWENTY-TWO ONE HUNDREDTH (\$3699.22) DOLLARS; and  
that because of extra work necessary to comply with the instructions of the  
Water Supply Commission, additional costs were incurred in the amount of ONE  
THOUSAND SIX HUNDRED SIXTY-SIX AND SIX ONE HUNDREDTH (\$1666.06) DOLLARS, making  
the total cost of the bridge \$5365.28; and that the said Bridge is now completed  
agreeably to the said contract. The balance due the Contractor being \$2040.79.

Your Petitioners, therefore, pray the Court to appoint Inspectors  
to inspect said Bridge and the workmanship thereof, agreeably to the Act of  
Assembly, and the Supplements and Amendments thereto, and to make report to your  
Honorable Court.

Attest

  
Clerk.



  
Commissioners of Cambria  
County.

NO. 1, JUNE SESSIONS, 1921.  
IN THE COURT OF QUARTER SESSIONS  
OF CAMBRIA COUNTY, PENNSYLVANIA.

PETITION OF THE COUNTY  
COMMISSIONERS FOR THE APPOINT-  
MENT OF INSPECTORS OVER LAUREL  
LICK RUN IN EAST CARROLL TWP.

DECREE

And now, February 22, 1923, the  
within Petition read and consider-  
ed and J. D. Kittus,

Olson Luman and

Wm. Shumaker appointed  
to inspect Bridge over Laurel Lick  
Run in East Carroll Township.

By the Court

Filed 12 Feb'y 1923.

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

No. 1 June Sessions, 1921.

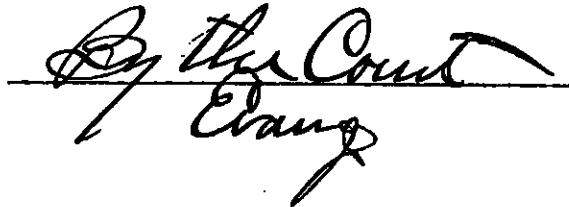
In re Petition of the Inhabitants of the Township of East Carroll, Cambria County, Pennsylvania, for a Bridge over the Chest Creek in said Township.

APPROVAL OF GRAND JURY.

And now, September 9th, 1921, the proposed bridge as recommended by the viewers' report upon the Petition in the above stated proceedings is approved and authorized by the Grand Jury, with the exception that said bridge be of a width of twenty-six feet instead of eighteen feet as recommended by the report of the Viewers for the reason that said proposed bridge will be constructed on a permanently improved highway.

  
Foreman.

And now, Sept 9th, 1921, the report of the Viewers in the above stated proceedings, and the recommendation of the Grand Jury therein is hereby concurred in and approved.

  
By the Court  
Crang

not changed

Filed: Sept. 9, 1921

RECEIVED

Frank Schettig Farm. House Barn.

Lane

Chest Creek.

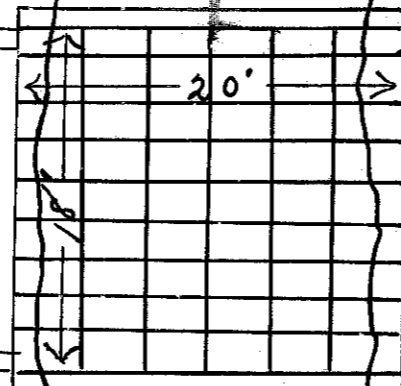
East Carroll Township.

To Ebensburg and Carrolltown Road.

Improved

Highway.

To Bradley Junction



Size and location recommended for proposed new bridge

West Branch of

Sketch showing the location and suggested size of a proposed new county bridge in East Carroll Twp., Cambria Co., Pa.

Viewed upon an Order of the Court of Quarter Sessions of Cambria Co., Pa., dated 6<sup>th</sup> June 1921.

A. M. Shoemaker, J. D. Ritter and Adam Shuman, Viewers.

R E P O R T O F V I E W E R S .

To the Honorable, the Judges of the Court of Quarter Sessions of  
Cambria County, Pennsylvania.

We, the undersigned members of the permanent board of viewers of Cambria County, appointed by your honorable Court upon the attached order and therein directed to view and determine as to the necessity for a new bridge over the West Branch of Chest Creek on the road leading from Route No. 62 of the State Highway System to Bradley Junction, in East Carroll Township, said county and state, respectfully report:-

That having given due notice of the view and of the time and place of meeting of the viewers to the Commissioners of Cambria County and to the Supervisors of East Carroll Township and having them accept service of notices hereto attached and giving notice to the traveling public by printed hand bills posted in public and conspicuous places at and near the site of the proposed new bridge; and having been first duly sworn according to law to perform the duties of our appointment faithfully, impartially and to the best of our judgment and ability: all of us met at the time and place appointed in accord with the notices given and having carefully viewed the premises and the site proposed for the new bridge and are all of the opinion that a new and more substantial bridge over the West Branch of Chest Creek at the point above referred to is necessary for the convenience of the traveling public, and further that the construction of a permanent and suitable bridge would necessitate the expenditure of more than is reasonable the taxpayers of the township of East Carroll should be required to bear and therefore we recommend that the cost of constructing a suitable bridge at the point designated above should be borne by the County of Cambria.

The viewers beg leave to suggest that the new bridge suggested to be built and herein recommended should be eighteen feet wide and twenty feet long and slightly higher than the present old structure.

A plot or draft showing the location and suggested dimentions of the proposed new bridge is hereto attached and made a part of this report.

Witness our hands this twenty eighth day of July, A. D., 1921.

A. M. Shoemaker.

J. R. Ritts

Adam Shuman

Viewers.

# BRIDGE NOTICE!

Notice is hereby given that the Viewers appointed by the Court of Quarter Sessions of Cambria County, Pa., to view and determine as to the necessity for a new and more substantial bridge over the West Branch of the Chest Creek, on the road leading from Route No. 62 of the State Highway System to Bradley Junction, in the township of East Carroll, said county and state:

will meet at the site of the proposed new bridge, in the Township of East Carroll aforesaid, on the 26th. day of July 1921, at 2:00 o'clock P.M., for the purpose of performing the duties of their appointment.

A. M. Shoemaker,  
J. D. Ritter and  
Adam Shuman,

Viewers.

Ebensburg, Pa. 7/ 16/1921.

Now, July <sup>20<sup>th</sup></sup>, 1921, Service of within  
notice is hereby accepted for the  
Commissioners of Cambria Co., Pa.  
Geo. W. Duvier  
Clerk

# Cost of View

W. M. Shoemaker.

Lifting Order.	\$ .90
4 1/2 Days.	33.75
26 mi @ 5¢ <sup>1.30</sup> & Sivery hire <sup>2.50</sup> (two trips)	3.80
Engineering work	25.00
	<hr/>
	\$ 63.45

Adam Shuman

1 1/2 Day	\$ 11.25
24 mi @ 5¢ <sup>1.20</sup> & Sivery hire <sup>2.50</sup>	3.70
	<hr/>
	14.95

J. D. Ritter

1 Day	7.50
12 mi @ 5¢ <sup>1.60</sup> Sivery hire 3.00	3.60
	<hr/>
	\$ 11.10

AUG 20 1921 CERTIFIED

APPROVED FOR PAYMENT  
*[Signature]*  
COMMISSIONERS

Commonwealth of Pennsylvania, }  
County of Cambria. } SS.

At a Court of Quarter Sessions of the Peace of the County of Cambria held at Ebensburg, in the said County, on the 6th day of June A. D. 1921, before the Honorable Judge of the said Court: Upon the petition of divers inhabitants of the Township of East Carroll, in the said County, setting forth that they labor under inconvenience for want of a bridge road or highway, to be had from over the west branch of Chest Creek on the road leading from Route number 62 of the State Highway System to Bradley Junction, in the Township of East Carroll, in said County and State.

That the bridge now crossing Chest Creek at this point is in a state of delapidation and disrepair and is dangerous to the traveling public. Your petitioners therefore pray the Court to appoint three persons qualified according to law to view the site of said bridge and report upon the expediency of the erection of a new bridge to take the place of the existing bridge.

Your petitioners further representing that the erection of such bridge will require more expense than it is reasonable that the Township of East Carroll should bear, therefore pray the Court that such bridge shall be entered on record as a County bridge.

and therefore praying the Court to appoint proper persons to view and lay out the same according to law. The Court, upon due consideration had of the premises, do order and appoint

A. M. Shoemaker surveyor, and Adam

Shuman, J. D. Ritter bridge viewers, to view the ground proposed for said bridge, and if they view the same, and shall agree that there is occasion for such bridge, they shall proceed to lay out the same, having respect to the shortest distance with the best ground for a road, and in such manner as shall do the least injury to private property, and also be as far as practicable, agreeable to the desires of the petitioners, and that they make a report of their proceedings to the next Court of Quarter Sessions to be held for said County, stating particularly whether they judge the same necessary for a public or private road, together with a plot or draft thereof, and the courses and distances, and references to the improvements through which it may pass.

By the Court.

Attest:

Frank C. Robb, Clerk.

8 August 1921 Appointed  
By the Court

No. 1 June Sessions, 1921.

Order to view Bridge in East

Carroll Township over Chest

Creek.

Order and Report  
part of Viewers

MAY 7 1921 CERTIFIED

Filed 8 August 1921

A. M. Shoemaker

J. D. Ritter

Adam Shuman

Viewers

Clerk Robb 90 cts.

NOTE. "It shall be the duty of all persons appointed in the several counties of this Commonwealth to and review any public or private road or bridge, if they shall decide in favor of locating said road or bridge, to endeavor to procure from the person or persons over whose land such location may be made releases from all claims for damages that might arise from the opening of such road or the building of such bridge; and in every case where said viewers shall fail to procure such releases, and it shall appear to them that any damages will be sustained, it shall be their duty to assess the damages and make report thereof signed by a majority of their number, and return the same, together with all releases obtained, to the Court of Quarter Sessions, and the damages so assessed shall be conclusive, or may be subject to appeal, review or modification, as may be provided by existing laws in the different counties of this Commonwealth."

"The persons appointed as aforesaid shall view such ground, and if they shall agree that there is occasion for a road, they shall proceed to lay out the same, having respect to the shortest distance, and the best ground for a road, and in such manner as shall do the least injury to private property, and also be, as far as practicable, agreeable to the desire of the petitioners."

"The viewers, as aforesaid, shall make report at the next term of said Court, and in the said report shall state particularly: First, who of them were present at the view, second, whether they were severally sworn or affirmed; third, whether the road desired be necessary for a public or private road; they shall also annex and return to the Court a plot or draft thereof, stating the courses and distances, and noting briefly the improvements through which it may pass; and, whenever practicable, the viewers shall lay out the said roads at an elevation not exceeding five degrees (except at the crossing of ravines and streams), where, by moderate filling and bridging, the declination of the road may be preserved within that limit."



W. A. Bradley	Herman Ollis
E. J. Hubert	Andrew Illig
Emer M Luther	F. J. Strittmatter
Jos Purley	J. J. Kiepertick
Frank W. Humm	
<del>W. J. Hubert</del>	J. D. Springer
G. G. Buck	
W. J. Buck	
J. S. Bennett	
W. M. Mohler	
Herbert Buck	
O. A. Beaver	
W. S. W. C. C. C.	
John Zimmerman	
C. P. Schetty	
J. E. Purley	
B. M. Luther	
Benj. E. Randall	
Alex Strittmatter	
G. H. Drum	
Mrs. Esther Drum	
Gilbert C. Luther	
Michael Mohler	
W. A. Faralough	
H. P. Dishart	
P. G. M. Cully	

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Cambria County, SS:

J. S. Springer, one of the petitioners above named, being duly sworn according to law, deposes and says that the matters set forth in the foregoing petition are true and correct.

Sworn and subscribed before me  
this 3<sup>rd</sup> day of June, 1921.

J. V. Maucher  
Notary Public

J. S. Springer

In the Court of Quarter Sessions  
of Cambria County, Pa.

No. 1 June Term 1921

Petition of Inhabitants of the  
Township of East Carroll for the  
appointment of Viewers to view  
the site and report upon the ex-  
pediency of a new bridge over  
Chest Crook, in said Township.

Now, June 6th, 1921, within  
petition read and considered, and

Oliver Thurman,

J. D. Ritter,  
and

Carl Stenmark

are appointed Viewers.

By this Court

Filed 6 June 1921

SHELTIG & NELSON  
ATTORNEYS-AT-LAW  
EBENSBURG, PENNA.

Draw

CAMBRIA COUNTY  
COMMISSIONER'S OFFICE  
1922  
BRIDGE  
CONTRACT AND SPECIFICATIONS  
for Construction of  
REINFORCED CONCRETE BRIDGE  
over  
LAUREL LICK RUN IN EAST CARROLL TOWNSHIP  
Cambria County, State of Pennsylvania

.....

H. F. Dorr                      County Engineer  
Ebensburg, Pa.

### GENERAL INFORMATION

Sealed proposals, accompanied by certified check in amount of 10% of bid price, will be received by the Commissioners of Cambria County, until 12 o'clock noon, September 18, 1922, at their office in the Court House at Ebensburg, Pennsylvania, for the construction complete of a reinforced concrete bridge, over Laurel Lick Run in East Carrol Township as per drawings and specifications on file in the Commissioners Office, and in the County Engineers, where they can be seen by those interested.

Parties desiring copies of drawings and specifications can secure same by writing to the County Commissioners or to H. F. Dorr County Engineer, Cambria Title and Trust Building, Ebensburg, Pennsylvania. A charge of \$10.00 will be made, which will be refunded when the plans are returned in good order.

Proposals must be made upon blanks furnished by the County. All blank spaces must be filled in and no change in phraseology made.

The Commissioners reserve the right to reject any and all bids.

The words: " PROPOSAL, COUNTY BRIDGE," shall be plainly marked on the outside of all proposals.

By order of the Commissioners of Cambria County.

PROPOSALS

To the Board of County Commissioners.

Ebensburg, Pa.

Gentlemen:-

I hereby certify that I have personally examined the location of the work hereinafter proposed, with reference to the full extent and nature of same, and that I have carefully read and examined the drawings and specifications as well as the form of contract for same.

And having made such examinations, I hereby propose to furnish all materials and appliances, and to perform all work required for the complete construction of the reinforced concrete bridge including 53' paving on a concrete base over Laurel Lick Run in East Carrol Township, Cambria County, Pennsylvania, in full accordance with the plans and specifications on file for the sum of

*Three thousand Six Hundred Ninety nine and twenty two/100* Dollars (\$ 3699.22 ) payable upon final acceptance of the work.

I further propose, that in case the dimensions shown on the plans are deviated from the resulting additions and deductions shall be valued as follows:

- Excavations, all kinds... *Three*... dollars... per cu. yd.
- 1-2-4 Concrete, in place... *Twenty-four*... dollars per cu. yd.
- 1-3-5 Boulder Concrete, in place... *Twenty-two*... dollars cu. yd.
- Reinforcing bars, in place... *Six*... cents... per pound
- Bearing piles... *Ten*... dollars... per lin. ft.
- Sheet piles, driven, trimmed and braced... *Twenty-five*... cents... per sq. ft.

I further propose to have the work finished and ready for acceptance not later than *forty*... days from the signing of the contract. I accompany this proposal with certified check in the amount of \$ 370 <sup>xx</sup> conditioned upon my acceptance of the contract if awarded to me.

September 18, 1922

*Arwen & Phummas*  
Bidder

*Johnston, Pa.*  
Address

## SPECIFICATIONS

GENERAL These specifications contemplate the entire construction and erection of a reinforced concrete highway bridge over Laurel Lick Run in East Carrol Township, as specified below in accordance with the contract, drawings, specifications and proposals, and such further detail plans as may be furnished from time to time; including excavation, concreting, laying of masonry, fabrication and erection of steel, hauling of all materials, removal of surplus or waste material and the disposition of same, and all other work incident to the building of these bridges, leaving the finished structures complete, neat and ready for use.

SCOPE OF WORK Under these specifications the contractor shall build complete the bridges contemplated in the designs. He shall, in case the condition of the river bottom so requires, carry the excavation down to a depth satisfactory to the Engineer, or shall prepare such artificail footins as may be designed by the Engineer, all such extra work to be paid for extra as per the attached proposal. In short he shall build the said bridges with all their appertaining parts in a workmanlike manner, complete ready for use, furnishing all material, coffordams, falsework, scaffolding, implements and labor required, and shall leave the finished structures in a neat and finished condition.

EXCAVATION The contractor shall do all excavating necessary for the building of proper foundations, furnish all timber, piling, sheet-piling, bracing and shoring, etc., necessary to locate, maintain in position during construction and complete the new work. Foundations shall be excavated for to such depths as will be necessary to secure a solid bearing, of which the Engineer shall be the judge. All excavated material shall be disposed of as directed by the Engineer. In case of foundations on rock, the rock shall be dressed level or otherwise to receive the footing course. When

satisfactory foundation cannot be obtained at reasonable depth, an artificial footing shall be prepared as directed by the Engineer. In case the Engineer so considers best, sheet piles shall be driven along the neat line of the footings and the thus formed pits drained before any concrete is placed. No extra compensation shall be allowed for such piles unless they are left in place after the structure is complete. In such case they shall be neatly trimmed 12" below mean low water, and shall be well braced with wales and stringers.

FILLS All openings or pits about the foundations shall be filled with material excavated, or similar, and the filling left approximately to the natural form of surface now existing, all to the satisfaction of the Engineer. All fills shall be thoroughly tamped or rolled and shall consist of material approved by the Engineer, and shall be brought to the required grade in manner directed by the Engineer. Wearing surface over fills shall be a four inch layer of broken stone, well rolled or otherwise compacted. Gutters shall be placed along the sides of the wings down to the water level.

INSPECTION All work under these specifications shall be inspected by a competent inspector appointed and authorized by the County Commissioners, who shall act in conjunction with the Engineer, both of whom shall see that these specifications are complied with but the presence of such inspector shall in no way release the contractor from any responsibility or obligation. Final inspection and acceptance shall be made by the County Commissioners, and the Board of Viewers, appointed by the Court as provided by law.

TRAFFIC The contractor will not be required to provide a temporary bridge to live load capacity equal to present structure, which he will remove from the premises when the new structure is opened to traffic.

LOCATION The contractor shall accurately locate the structures both as to alignment and levels, from the contract plans, together with bench marks placed by the Engineer.

PRESENT STRUCTURES The present structures shall become the property of the County, and shall be removed by the contractor from the premises prior to acceptance of the work. He shall use the existing I beams in the new construction, and dispose of the remainder under the direction of the Engineer.

CONCRETE No concrete shall be placed in foundation excavations unless same has been approved by the Engineer. No pits shall be drained of all water prior to depositing concrete, and no timber or other bracing used in building the dams will be permitted to project into the finished work. Concrete for footings shall be of 1-3-5 mixture and may be mixed by hand or machine as considered best; if mixed by hand, the sand and cement shall be thoroughly mixed until no streaks occur, then the wetted stone shall be added and the whole mass turned over with sufficient water until every fragment of stone is thoroughly coated with the cement mortar. It shall be deposited prior to initial set and thoroughly rammed and spaded in place. The cement may be any approved brand and shall be subject to the specifications of the American Society of Testing Materials. Sand used for mortar and concrete shall be clean, coarse and gritty to the touch to be approved by the Engineer.

The broken stone or crushed slag used for concrete shall range in size from the maximum specified on drawings for the particular work down to one-quarter inch. It shall be absolutely free from dust and any impurities whatsoever. Broken stone shall be wetted immediately before mixing with mortar. Any hard durable quality of stone will be accepted, subject to the Engineer's approval. The Engineer and the Inspector have the authority to modify the proportions shown on the drawings when the size of stone or degree of fineness of sand necessitates establishment of proportions. Boulders known as one man size, washed clean will be permitted in all walls over 2' in thickness. Said boulders to be so placed as to have at best 6 inches of concrete between each one and between same and outside faces.

WATER The water shall be fresh and clear, free from refuse and injurious matter.

FORMS All forms shall be rigid and water-proof, from dressed and matched lumber as approved by the Engineer.

SURFACE FINISH All surfaces shall be of a wet rubbed finish, except as noted on the drawings. No hollow-combed surfaces will be permitted. All surfaces must be without cracks, spots, blotches or discolorings, and it is thoroughly understood that the forms are to be so constructed that the finished work shall come out of them in a perfect condition, requiring no further treatment than the above mentioned wet rubbing. All stone must be spaded back from the forms, and all surfaces shall show a uniform and even granular exterior when finished.

NAME PLATES Suitable name plates in cast bronze, bearing the name of the County Officials, Name or Number of Bridge, and date of erection shall be placed as indicated on the drawings.

## SIDEWALK

The sidewalk shall consist of a reinforced concrete slab built monolithic with the curb and roadway slab. Immediately after the sub-base is laid and while it is still soft and green a wearing surface (12) inches thick consisting of one (1) part cement and two (2) parts sand shall be placed. It shall be floated to a smooth even surface and given a broomed finish. Transverse groovers three-eighths (3/8) inches deep shall be placed in the top directly over each bracket and at two intermediate points. The walks shall slope towards the roadway, as shown on the plan.

## CURB

The reinforced concrete curb shall be laid monolithic with the roadway and sidewalk slabs. It shall be true to line and grade and protected against all defacements by a galvanized steel bar of the Wainwright, Kahn or other approved type.

Frogs shall be used to support the bar at intervals of about three (3') feet.

## REINFORCING

The concrete shall be reinforced as shown on the plan.

Where bars are used they will be of the "Deformed stick" type and must conform to the requirements of the Standard Specifications for Steel Reinforcing Bars, as adopted by the American Society for Testing Materials, July 1, 1920.

All steel must be absolutely clean of paint, dirt or other foreign matter. Old rusted or pitted bars will not be accepted or allowed in the work. The amount of rust that will accumulate on an unpainted bar in transit or stored in a yard not exceeding three months will not be considered objectionable.

The complete system of reinforcing shall be in place, rigidly supported and all intersections wired, all to the approval of the Engineer, before the pouring of concrete.

Where it is not possible to use a continuous bar, the splice shall be not less than fifty (50) diameter in length and shall be well wired.

## PAVEMENT

The roadway shall be paved with brick, all as herein specified.

## DESCRIPTION

The brick pavement shall be Vitrified block commercially known as "Regular" block.

All block shall be repressed blocks thoroughly annealed, tough and durable, non-absorbitive, evenly burned and uniform in color. When broken they shall show a dense stonelike body free from lime, air pockets, cracks or marked laminations.

## SIZE OF BLOCKS

The standard size of blocks shall be 3' to 3½' in width, 4" in depth and 8½" to 9½" in length. They shall be uniform in size and shall not vary in width, depth, or length to exceed 1/82 on any single contract

If the edges of the blocks are rounded, the radius shall not exceed  $3/16$ " Only blocks with raised lugs or projections on one side, not less than  $1/8$  nor more than  $3/4$ " shall be used. The two ends of the block shall have either a semi-circular groove with a radius of not less than  $1/8$  nor more than  $3/4$ ", or bulge of at least  $1/16$ ". The imprint or name of the block or manufacture if used, shall be made by means of recessed letters.

#### ABRASION TESTS

The sample blocks selected shall be dried thoroughly for at least three hours at a temperature of  $100^{\circ}$  before testing. The blocks shall be submitted to the rattler, or abrasion, test made in the standard rattler and in accordance with the standard method endorsed and recommended by the American Society for Testing Materials, adopted August 21st, 1915. In this test the blocks shall not percentage of loss, the entire lot from which the test was taken will be rejected.

#### ABSORPTION TEST

Blocks to be tested for absorption shall be dried for not less than twelve hours continuously at a temperature of not less than  $212^{\circ}$ . They shall be weighed then on scales sensitive to five grams and immersed immediately re-weighing, the blocks shall be wiped free from all surplus water. The increase in weight will be calculated as a percentage of dry weight of block. Blocks which show an absorption of more than 3-1, 3% will be rejected.

#### INSPECTION OF BLOCKS

All blocks shall be subject to thorough inspection before and after laying and rolling, and all rejected material shall be removed immediately from the work.

#### HANDLING OF BLOCKS

The blocks at all times shall be kept clean, piled neatly and shall be handled carefully, so that the corners and edges will not be chipped or broken, as blocks otherwise acceptable may be rejected on this account.

#### CEMENT-SAND BED

Upon the foundation, or base course, which has been cleaned of all loose and foreign materials and dampened thoroughly, there shall be spread a cement-sand bed composed of one part Portland cement and three parts sand all of approved quality.

This cushion shall be carefully shaped to a true section, of the road way and shall be rolled with a hand roller, if so directed. The cement-sand bed shall then be sprinkled lightly with a clean water and the blocks placed thereon immediately.

#### LAYING BLOCKS

The blocks shall be laid carefully on edge in parallel straight courses at right angles to the curbing, or as may be directed otherwise. The lug side of all blocks shall face in the same direction. Blocks must be placed close together, both ends and sides, and those in adjoining courses shall be laid to break joints by a space of not less than 3". At every fourth course, the blocks shall be driven lightly with a sledge and four inch by four inch by three feet timber, and all thick blocks shall be removed. After laying the end joints of blocks shall be made close promptly and battened in at the curb line, placing fractured ends towards the center of the pavement. No piece less than three inches in length shall be used. Bats or broken blocks shall be used only at curbs or tracks. Blocks shall be placed with the best face up. When any section contains more than 10% of culls, the blocks shall be taken up and the cushion readjusted. Blocks cut square with the top and sides of the blocks. All joints shall be

kept clean and open to the bottom until filled as specified. While laying blocks, the pavers shall stand on those already laid. Blocks shall be laid within  $\frac{1}{4}$ " of a car rail and when rolled shall meet the rail surface or be slightly below, as may be directed. The rail surface shall conform to the established grade before the base course is placed.

#### EXPANSION JOINTS

Expansion joints shall be placed parallel with and at each of the curb lines and shall be  $\frac{1}{2}$ " in width, unless directed otherwise. Where the pavement joins car rails, a joint of from  $\frac{1}{4}$ " to  $\frac{1}{2}$ " may be required next to each side of each rail. The joints shall be made by placing together on edge, parallel with each curb or edging two wedge-shaped strips six inches in depth and each strip dressed on both faces. The strips shall be so cut that when placed together on edge, in reverse positions, their total section shall be rectangular and of a thickness equal to the thickness of the required expansion joint. The strip placed next to the curb shall be set with the wide edge up and the one next to the block set in the reverse position. The two strips comprising the joint form shall break joints. These expansion joints forms shall be set on a true grade with ends tight, pressed into the cushion and the blocks laid lightly against these strips. Soon after the pavement has been grouted and the grout filler has set, the strips shall be removed, the joints cleaned thoroughly and immediately filled with a bituminous filler flush with the top of the blocks.

#### ROLLING BLOCKS

After the blocks as laid have been inspected and approved for rolling and the surface swept clean, the pavement shall be rolled with a tandem power roller weighing not less than three nor more than five tons, in the following manner:- the blocks adjacent to the curbing and other inaccessible areas, shall be tamped with a hard wood tamper to the proper grade. A piece of timber shall be laid upon the blocks to prevent crushing from impact of the tamper. The roller then shall commence near the curbing at a very low pace and continue back and forth toward the center until the center of the roadway is reached; then passing to the opposite curbing, the rolling shall be repeated in the same manner to the center of the roadway. After the first passage of the roller the pace may be quickened and the rolling continued until each block is embedded firmly in the cushion or bed. The pavement then shall be rolled transversely from curb to curb at an angle of 45 repeating the rolling in the opposite direction at an angle of 45 to the center line of the roadway. Before and after this transverse rolling has taken place, all broken or injured blocks shall be taken up and replaced with perfect blocks. Which likewise must be brought to the surface by tamping. When a cement-sand bed is used, the rolling shall be completed before the bed has developed initial set before the blocks have been placed and rolled shall be removed and replaced with fresh material. After the final rolling the pavement shall be tested with a ten foot straight edge, laid parallel with the curbing and any depressions exceeding  $\frac{1}{4}$ " shall be corrected, and if necessary, rolled again.

#### GROUT JOINT FILLER

After being rolled thoroughly, inspected and approved, the joints between the blocks shall be filled with grout, composed of one part Portland cement and one part approved, clean hard sand containing no vegetable or other deleterious substances and not more than 5% of loam or other foreign materials and graded so that, when dry, it shall pass a  $\frac{1}{4}$ " screen, at least 90% of which shall pass a No. 10 sieve. The tensile strength of briquette composed of one part cement and three parts sand, by weight, shall be not less than 70% of that obtained with "Standard Ottawa" sand. Equal portion of cement and sand shall be measured carefully and mixed thoroughly on a clean, dry surface to a uniform color, preferably about four feet eight inches in length, thirty inches in width and fourteen inches in depth, resting on legs of different lengths so that the mixture will flow rapidly to the lower corner of the base, the bottom of the power corner of which shall be about three inches above the pavement surface. One box shall be used for each fourteen feet in width of roadway, and at least

two boxes shall be used in all cases. To the dry mixture shall be added clean, fresh water in a quantity which is necessary to give the proper consistency. From the time the water is added until the last of the filler is removed from the box and floated into the joints of the pavement the mixture must be kept in constant motion.

#### POURING GROUT

Before grout is applied, the blocks shall be wetted by being sprayed lightly with clean water. The grout shall be removed from the box with scoop shovels and applied to the blocks in front of the sweepers who shall sweep it rapidly lengthwise of center, until the joints are filled to within not more than one inch of the top of the blocks. After the grout has settled into the joints and before the initial set develops, the unfilled portion of every joint shall be filled with a thicker grout, and if necessary, refilled until the joints remain full to the top. After this application has had time to settle and before the initial set takes place, the pavement shall be finished to a smooth surface with a squeegee, or wooden scraper having a rubber edge, which shall be worked over the blocks parallel with the courses. Grout may be mixed and applied with approved mechanical appliances. The contractor shall provide thin metal strips, 1/16" by 6" by 3" long and insert them in the block joint across the street or road, when closing up a stretch of grouting at the end of all work intervals, so that the grouting will end in a vertical joint. These strips must be taken out when the grout becomes stiff and before the initial set. Not more than three hundred feet of pavement shall be laid before grouting begins and the grouting shall follow the paving as closely as possible. Where the cement-sand bed is used, the grouting must be completed to within at least twenty feet of the end of the blocks laid before work is stopped.

#### PROTECTION

After the surface has been inspected thoroughly and approved and sufficient time for setting has taken place so that the covering material will not absorb any moisture from the grout mixture, the surface shall be covered with one-half inch or more of approved, clean sand or other acceptable material to prevent too rapid drying of the filler, which shall be sprinkled three times each day for four days when the air temperature reaches 75 F. or above. No traffic shall be permitted on the pavement for a period of at least ten days after the grouting, or longer as may be directed. Before opening the road to traffic the covering shall be removed from the finished pavement in a satisfactory manner.

#### GUARANTEE OF PAVEMENT

The Contractor will be required to guarantee the pavement free from defects in workmanship and material for a period of one year from date of the completion of the contract and acceptance of the work, correcting during that time, at his own expense, immediately on direction of the Engineer, any defects which may occur.

#### CLEANING

After completion of the structure, the contractor shall remove all rubbish, etc., leaving the streams and adjacent property clean and free from all obstructions.

#### LIABILITIES OF CONTRACTORS

The Contractor shall furnish a corporate surety bond in the full amount of the contract price which will be held by the County one year as a guaranty against any defects in the structures within time specified. If the Commissioners so decide, the contractor shall load any of these bridges as specified by the Engineer, to demonstrate their carrying capacity. In case defects develop in any structure within one year from completion, the contractor shall repair same as directed by the Engineer or build a new structure as per contract.

ARTICLE OF AGREEMENT

This Agreement, made this Eighteenth day of September  
A. D., 1922, Between the County of Cambria by its Commissioner,  
T. Stanton Davis, Dwight Roberts and H. B. Heffley, known as the  
County party of the first part, and James P. Plummer, Inc.  
..... of Johnstown.....  
Pa...... his  
(their) heirs, executors, administrators, successors, or assigns,  
known as the Contractor, party of the second part.

Witnesseth:- That for and in consideration of the pay-  
ments ~~the agreements~~ mentioned in the proposal hereto attached, to  
be made and performed by the County, and according to the terms  
expressed in the bonds referring to these presents the Contractor  
agrees with the County, at his own proper cost and expense to do  
the proposed work, and to furnish all materials and all labor  
necessary for said work, in accordance with the plans and specifica-  
tions appertaining to said work, and in full compliance with this  
agreement and the order of the Engineer under it.

It is agreed that the plans and specifications appertain-  
ing heretop each of which have been signed by the respective parties  
of the agreement, as well as the bonds and proposals hereto attached  
are all essential documents of this agreement and from part  
hereof.

The contractor further covenants and agrees that all and  
every of the said materials shall be furnished and delivered and all  
and every of the said labor shall be done and performed in every  
respect, to the satisfaction and approval of the Engineer and the  
County Commissioners, on or before the expiration of forty days  
from the date of this contract.

And it is expressly understood and agreed by, and between  
the parties of this agreement that, if the Contractor shall become  
insolvent, or commit any act of bankruptcy or insolvency, or allow  
any final judgment to stand against him unsatisfied for a period of  
forty-eight hours, or shall make any assignment for the benefit of  
creditors, or if, in the opinion of the Engineer, the Contractor  
shall be prosecuting the said work with an insufficient supply of  
materials, for the prompt completion of said work or shall neglect  
or refuse to supply acceptable material or work, or shall neglect or  
refuse to remove such materials or to perform any such labor as  
shall be rejected by the Engineer as defective as unsuitable, then  
in any such case it shall be lawful for the said Engineer, and he  
is hereby authorized and empowered to employ such other Builders  
or use such methods as in his opinion shall be required for the  
proper completion of said work at the cost and expense of said  
Contractor. In any such case all payments to the Contractor under  
this contract shall cease and all moneys otherwise due, or to be-  
come due, shall be retained by the County and so much thereof as  
required shall be applied to payment of the costs and expenditures  
incurred in making good the default of the Contractor, and the  
balance, if any, shall be paid to the Contractor in accordance with  
the terms hereof.

In case any question or dispute arises between the parties hereto in relation to the plans, drawings, descriptions, specifications and general provisions, or to the terms of this contract respecting the quality, quantity or value of the work or labor done, or the material furnished, or to be done or furnished, or any of the terms, stipulations, covenants and agreements contained herein, or respecting any claim for extra work, or respecting any matter pertaining to this contract, or any part of same, or any dispute arising thereof, said questions shall be referred to the Engineer, whose decision thereon, when approved by the County Commissioners, and the County Solicitor shall be final, binding and conclusive upon all parties without exception or appeal; and all right, or rights of any action at law, or inequity under and by virtue of this contract, and all matters connected with it and relative to the same, are hereby expressly waived by the contractor.

It is also understood and agreed that if the Contractor should fail to make settlement with laborers or material-men promptly when any payments or wages are due them, the County shall have the right to make payment therefore of the money so due, and any amounts so paid shall be deemed and considered as payment to the Contractor on this contract, and the County shall not again be liable therefore.

No extra work other than that particularly designated in the Specifications, no any deviation from the plans shall be done or permitted by the Contractor without the written consent thereto of the Engineer, first had and obtained, and any extras or alterations otherwise effected shall be wholly at the risk and expense of the Contractor.

The Contractor further agrees to save harmless and to protect the County from all suits or actions for infringements of patents whether granted or applied for, on any device or method used in connection with the structure referred to and shall, if required show evidence of settlement with patentee, before final payment is made by the County.

And it is further expressly understood and agreed that during the progress of said work the contractor shall properly safeguard against any injury or damage to the public, and shall alone be responsible for any such damage or injury resulting from said work, to any person or persons or anything connected therewith.

Wherever throughout this contract the word Engineer is used, it is mutually understood that H. F. Dorr of Ebensburg Pa., is thereby intended.

This contract shall not go into effect until it and the bond accompanied shall be approved by the proper Court of Cambria County, whereupon it shall at once become operative.

In witness whereof the parties hereto have set their hands and seals on the date herein mentioned.

SEAL

*Stanton Jones*  
.....

*Wright Roberts*  
*W. H. Keffley*  
.....

ATTEST:

*James M. Stone*  
.....  
Clerk

.....  
Commissioners of Cambria County

SIGNATURES

*Lewis R. Carson* Seal

*Allen & Plummer, Inc.*  
*Per J. Lee Plummer Jr (Pres)*

Witness:

.....  
The foregoing plan specifications and contract approved  
*H. F. Dour*  
County Eng.

CONTRACTOR'S BOND

KNOW ALL MEN BY THESE PRESENTS, That we Cliven & Plummer, Inc. principal, and Johnstown Trust Company surety, are held and firmly bound unto the County of Cambria of the State of Pennsylvania in the Sum of Three thousand Six hundred Ninety nine & twenty two Dollars, lawful money of the United States of America, for which payment, well and truly to be made, we do bind ourselves and each of us, our and each of our heirs, executors, administrators successors and assigns, jointly and severally by these presents, or assigns

Whereas, the said Cliven & Plummer, Inc. did on this Eighteenth day of September 1922 enter into a contract with County of Cambria of this State of Pennsylvania, for Constructing a reinforced concrete bridge across Laurel Lick Run in East Carrol Township, Cambria County, Pa. for sum of Three thousand Six hundred Ninety nine & twenty two Dollars, as shown by said contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT IF THE above bounden Cliven & Plummer, Inc. principal, shall well truly complete, according to the contract, plans and specifications, the work so contracted for and shall save the county harmless from any expense or damage incurred through the failure to complete the work as so agreed to and shall save the County harmless from all claims of third persons arising from the construction of Steel-Concrete Bridge, and shall well and truly pay to any person co-partnership, association or corporation furnishing material or performing labor in or about the construction of Reinforced Concrete Bridge at the instance of the Contractor or his surety such sum as may be due him, them or any of them for such material or labor or both, for which the Contractor is liable, then this obligation shall be void, otherwise it shall remain in full force and effect.

PROVIDED, HOWEVER, That it is expressly understood and agreed that any person, co-partnership, association or corporation furnishing material or performing labor in or about the construction of the Reinforced Concrete Bridge, at the instance of the contractor or his surety, pursuant of said contract, may maintain an action to recover the amount due therefore, against either the principal or surety in this bond, as though such person co-partnership, association or corporation were named therein.

IN WITNESS THEREOF, the said Cliven & Plummer, Inc. principal, and the Johnstown Trust Company Surety have duly executed this bond, under seal and duly delivered the same this twenty fifth day of September, 1922.

ATTEST: Walter R. Thomas  
Notary Public

CONTRACTOR  
Cliven & Plummer, Inc.  
Cliven & Plummer, Inc. (Pres.)  
SURETY, THE JOHNSTOWN TRUST COMPANY  
Walter R. Thomas President

ATTEST: Walter R. Thomas

NOW Oct 6th 1922 the above bond is approved.

Walter R. Thomas  
Walter R. Thomas  
Walter R. Thomas  
Commissioners of Cambria Co.  
Walter R. Thomas

The form of the contract and bond approved.

In the Court of Quarter Sessions of Cambria County Pennsylvania  
now \_\_\_\_\_ 19\_\_\_\_ the above bond is approved  
BY THE COURT

President Judge

*In the Court of Quarter  
Sessions of Cambria Co. Pa.*

COUNTY COMMISSIONERS OFFICE  
CAMBRIA COUNTY.

*No. 1 June Decr 1921*

Contract and Specifications  
for the construction of  
Re-inforced Concrete Bridge  
over Laurel Lick Run in East  
Taylor Township, Cambria Co.,  
Pennsylvania.

*and now October 9, 1922  
the within plans,  
specifications, contract  
and bond are approved  
By Wm Dorr*

*Filed Oct 9 1922*

.....

H. F. Dorr, County Engineer.

*Walter Jones Solicitor*