

Mr Allen:

This from the A.Y. McDonald firm
being quotation on goal posts as per sketch.

Assembly "A", for one set, no overhang	-----	\$ 43.28
6 sets reqd	-----	\$ 259.68

Assembly "B" One = ^{\$1} 46.91, six	-----	\$ 281.46
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These are FOB Lawrence, ready to set up

Shall be glad if you will write Mr Donald, thanking them
for quotation and say it is now under advisement.

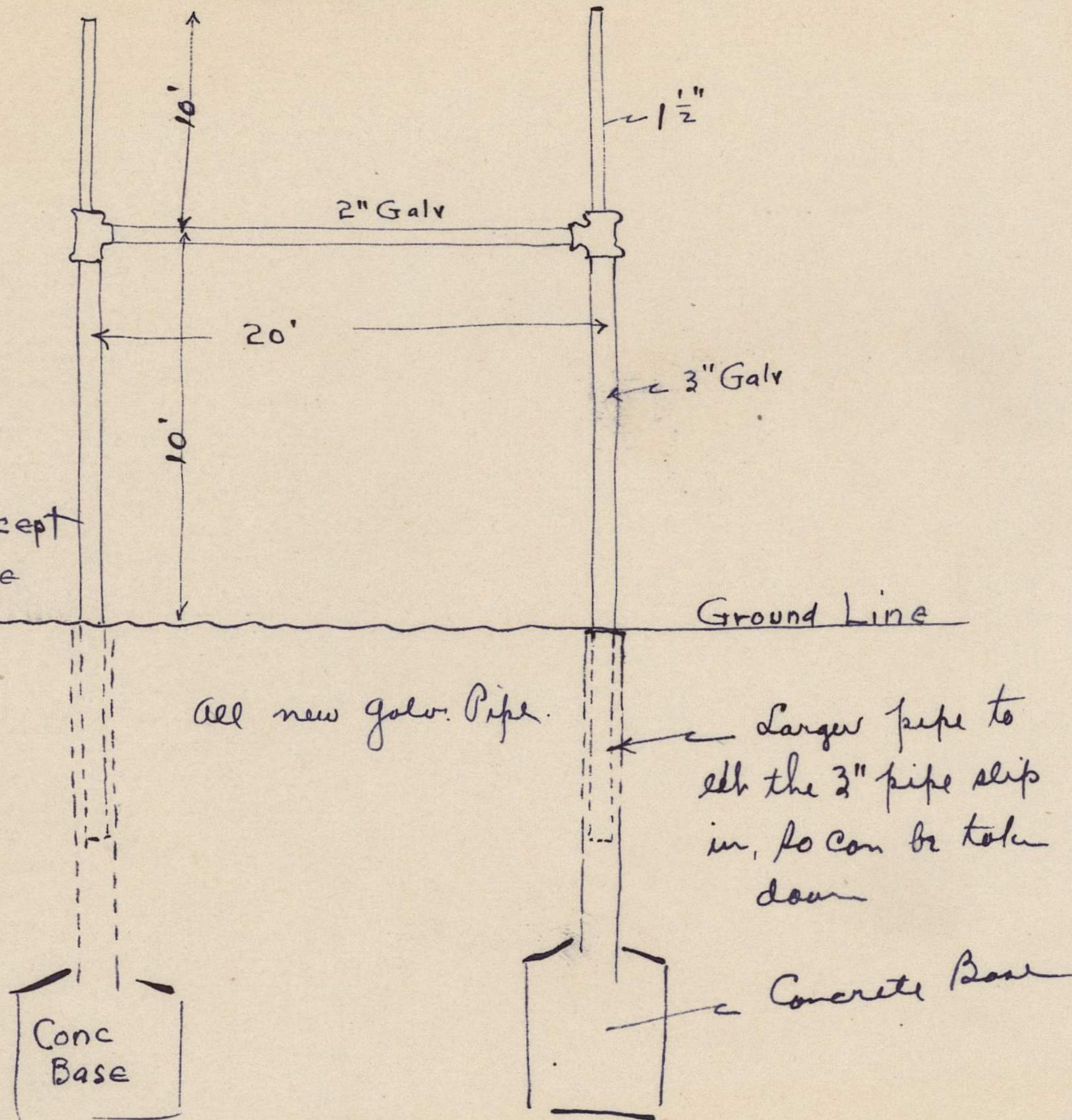
I have not written them to acknowledge it

F. Russell

12-15-'38.

This is
Assembly 'A'

'B' is same except
it Overhangs the
field 5 Ft.



A. Y. McDONALD MFG. CO.

Telephone



Harrison 6930

1410 UNION AVE., KANSAS CITY, MO.

December 12, 1938

University of Kansas
Department of Physical Education
Lawrence, Kansas

Gentlemen:

In response to your recent request for prices on goal posts, we are pleased to quote you on Assembly "A" and "B" as follows:

ASSEMBLY "A"

- 2 - Pieces 4" Standard Galv Steel Cut Pipe 6' 0" long, end to end, one end threaded, with bolt placed 4' 0" from threaded end.
- 2 - 4" Gal Mall Caps
- 2 - Pieces 3" Std Galv Steel Cut Pipe 14' 0" long end to end, one end threaded
- 1 - Piece 2" Std Galv Steel Cut Pipe 19' - 7 $\frac{3}{4}$ " End to End, both ends threaded
- 2 - Pieces 1 $\frac{1}{2}$ " Std Gal Steel Cut Pipe 10' 0" long End to End, both ends threaded
- 2 - 3 x 1 $\frac{1}{2}$ x 2 Gal Mall Tees
- 2 - 1 $\frac{1}{2}$ " Gal Mall Caps

F O B Lawrence, Kansas (one Standard) \$43.28

ASSEMBLY "B"

Same as for Assembly "A" except for following additions and deductions:

ADD

- 2 - 3 x 2 Gal Mall Ells
 - 2 - 2 x 1 $\frac{1}{2}$ x 2 Gal Mall S O Ells
 - 2 - Pieces 2" Gal Steel Cut Pipe 3' - 8 $\frac{3}{4}$ " long, End to End, both ends threaded.
- 2" Gal Cross Bar to be 19' - 8 $\frac{3}{4}$ " instead of 19' - 7 $\frac{3}{4}$ "

University of Kansas

12/12/38

Page 2.

DEDUCT

2 - 3 x $1\frac{1}{2}$ x 2 Gal Mall Ells

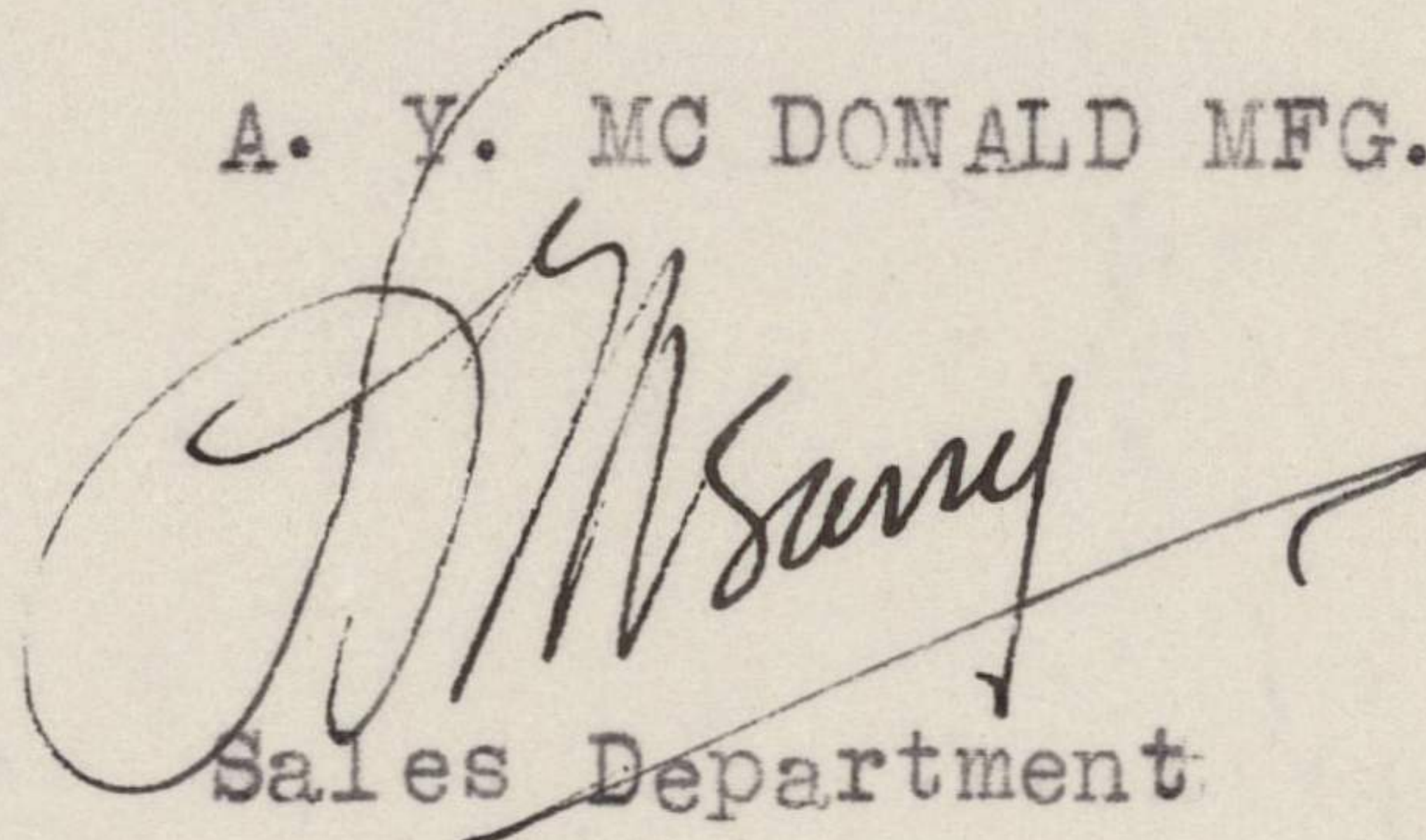
Total for Material for Assembly "B"
(One Standard)

\$46.91

Prices F O B Lawrence, Kansas

Very truly yours,

A. Y. MC DONALD MFG. CO.



Sales Department

LMTarry/z

Intramural.

1423. 92

Field - Grading - Balance → \$76.08

23 to 26

th

~~Oct~~

~~Regular~~, Pay Roll

To _____ BANK

of _____
City State

PAY TO OR ORDER - - - UNIVERSITY OF KANSAS - - - \$ _____

_____ DOLLARS

For value received, I represent the above amount is on deposit in said bank in my name, free from all claims and subject to check

LAWRENCE - KANSAS

_____ 19 _____

Address

DEPARTMENT OF
CIVIL ENGINEERING

W. C. McNown
F. A. Russell
Earnest Boyce
G. W. Bradshaw
D. D. Haines
B. L. Williamson
W. F. Scofield
R. C. Fitch

SCHOOL OF ENGINEERING AND ARCHITECTURE
UNIVERSITY OF KANSAS

LAWRENCE
March 17, 1938

ADDRESS REPLY
TO WRITER

Dr. F. C. Allen
Department of Physical Education
Robinson Gymnasium
University of Kansas

Dear Dr. Allen:

As requested some time ago I have had one of my C.S.E.P. students working on survey, plans and estimate for the grading and draining of the two athletic fields at the southwest corner of the campus. By putting in a considerable time on this project myself we have been able to get together a tracing which I will present to you tomorrow, and if desired we can make from this a required number of blueprints.

As you will note on this plan I have divided the estimate in the north field and the south field; the north field being the tract about 400 by 1100 feet at the southwest corner of the campus, and the south field being a field purchased by the R.O.T.C. and turned over to the university for its use. This field is approximately 300 feet wide by 700 feet long.

In regard to the drainage ditch going through the north field, I have considered this matter rather carefully and decided that it would be impractical to attempt to use any water way having an area of cross section less than the culvert which now goes under the road about the middle on the north line of the field and about the middle east and west.

This culvert drains a considerable area, there being water coming down the ditch from the east from the power plant and from outlets from downspouts from various university buildings, and to the north of the culvert there is cared for the drainage of the entire field south of the auditorium together with downspout drains from several of these buildings.

I have taken occasion to observe the run-off through this culvert at times of heavy rains and have seen the culvert running entirely full. This, of course, does not happen often but since it does happen, if a smaller area were used it would mean the entire field would be flooded and washed quite badly.

Dr. F. C. Allen; March 17, 1938; page 2.

I have therefore shown a cross section of a drainage box, side walls built up of rough stone setting on concrete footings, having a concrete floor and reinforced concrete top. The grade of this box is set so that the fill in the field would entirely cover it so that it would offer no obstruction in the playing field.

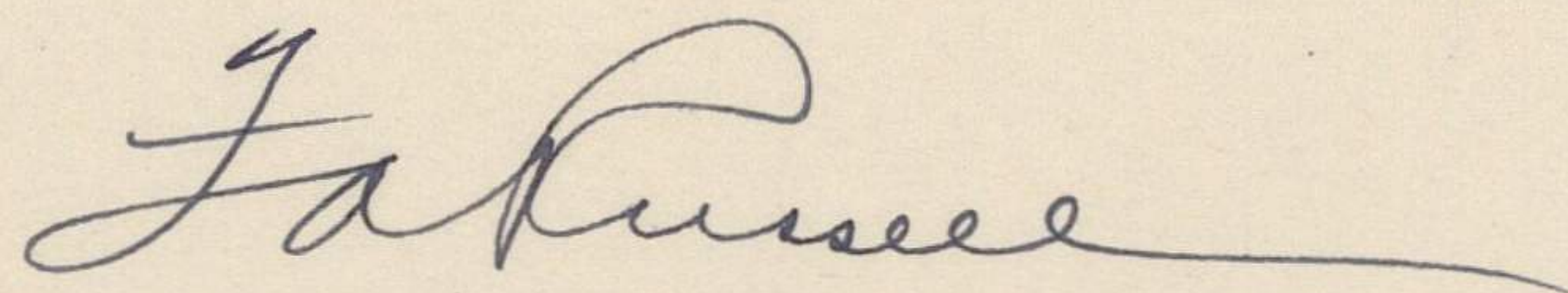
I have shown on the tracing the quantities of material necessary together with grading and tile drains, and on a separate sheet I am applying a unit price which I feel is somewhere near correct in order that you may have some idea of the approximate cost of the project.

You will note from elevations shown on this plat that the north field falls from 12 to 14 feet in the 400 feet across it. The proposed grade cuts down at the north approximately 8 feet and fills 6 or 7 feet at the south, and cuts this slope to approximately one per cent or a drop of 4 feet in crossing the field to the south. This is probably as near level as we dare go and maintain proper surface drainage. I think this grade would not be a serious objection on the playing field.

A similar grade is shown for the field to the south. This you will note becomes a rather large project and if necessary the tile drains could be left out for the present. The tile to be placed in the new embankment towards the south edge of the field could not be placed at this time on account of the desirability of allowing the fill time to thoroughly settle.

I realize that this project no doubt is calling for a greater expense than you had expected but I thought best to draw up this plan on the basis of a first class completed job, and if you are unable to use it at the present time it may be used some time in the future. I shall be glad to go over this personally with you.

Yours very truly,



F. A. Russell, Professor
of Civil Engineering

FAR:lbr

Dr. F. C. Allen; March 17, 1938; page 3.

Estimate of Cost of improving Athletic Fields Southwest Corner
Campus as per plans dated February, 1938:

North Field -- 496' x 1103' = 10 sq. acres

23,000 c. y. grading	at .22	\$5060.00	
4208 lin. ft. 4" drain tile	at .05	210.00	
Labor placing 4208 ft. drain tile	at .15	630.00	\$ 5900

Drain Box

75 c. y. Conc. Footing	at 7.00	525.00	
36 c. y. Conc. Floor	at 7.50	270.00	
52 c. y. Conc. Top	at 12.00	624.00	
200 c. y. Stone Masonry Wall	at 6.00	1200.00	
1125 lbs. Reinforcing Steel	at .04	45.00	
1 Removable Grating	at 7.00	7.00	
3 Manholes	at 7.00	21.00	
Labor Excavating for footing 100 c. y.			
	at .50	50.00	2742

South Field -- 316' x 731' = 5.3 sq. acres

7700 c. y. Exc. and Fill	at .22	1694.00	
2400 Lin ft. 4" Drain Tile	at .05	120.00	
200 " " 6" " "	at .10	20.00	
200 " " 8" " "	at .35	70.00	
150 " " 10" " "	at .50	75.00	
190 " " 12" " "	at .70	133.00	
Labor placing drain tile 3140	at .15	471.00	2583

Summary:

North Field

Grading and Drainage	\$5900.00	
Drain Box	2740.00	8640

South Field

2583

Total

\$11223

copy

SCHOOL OF ENGINEERING AND ARCHITECTURE
UNIVERSITY OF KANSAS
LAWRENCE

March 17, 1938

Dr. F. C. Allen
Department of Physical Education
Robinson Gymnasium
University of Kansas

Dear Dr. Allen:

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Yours very truly,

(Signed) F. A. RUSSELL

FAR:lbr

Professor of Civil Engineering.

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4208 lin. ft. 4" drain tile	at .05	210.00	
Labor placing 4208 ft. drain tile	at .15	630.00	\$5900

Drain Box

75 c.y. Conc. Footing	at 7.00	525.00	
36 c.y. Conc. Floor	at 7.50	270.00	
52 c.y. Conc. Top	at 12.00	624.00	
200 c.y. Stone Masonry Wall	at 6.00	1200.00	
1125 lbs. Reinforcing Steel	at .04	45.00	
1 Removable Grating	at 7.00	7.00	
3 Manholes	at 7.00	21.00	
Labor Excavating for Footing 100 c.y. at .50		50.00	2742

South Field -- 316' x 731' = 5.3 sq. acres

7700 c.y. Exc. and Fill	at .22	1694.00	
2400 Lin. ft. 4" Drain tile	at .05	120.00	
200 " " 6" " "	at .10	20.00	
200 " " 8" " "	at .35	70.00	
150 " " 10" " "	at .50	75.00	
190 " " 12" " "	at .70	133.00	
Labor placing drain tile 3140	at .15	471.00	2583

Summary:

North Field

Grading and Drainage
Drain Box

\$5900.00	
2740.00	8640

South Field

2583

Total

\$11,223.

November 18, 1939.

Mr. Raymond Nichols,
Chancellor's Office,
University of Kansas.

Dear Ray:

I am sending you a copy of Professor F. A. Russell's letter to me as of March 17, 1938. I believe the letter is self-explanatory.

The south field is the R.O.T.C. field and the north field is the intramural quadrangular area of something less than ten acres. You will notice that Professor Russell's estimate for the north field was \$5950. The grading estimate was \$5060, but you will remember we spent something like \$1200 in grading it because we obtained county ditchers and scrapers and used WPA labor. However, I doubt that we did all that Professor Russell contemplated in his grading estimate, but he was figuring the commercial grading prices while we did it very much cheaper.

I am sure that a conference with Professor Russell will give you all the information that you desire. However, if you should wish to see me on any point it will be a pleasure to communicate with you.

Sincerely yours,

Director of Physical Education and Recreation,
Varsity Basketball Coach.

FCA:AH
Enc.

November 13, 1939.

Mr. C. H. Mullen, President,
Men's Student Council,
1409 Tennessee Street,
Lawrence, Kansas.

Dear C. H.:

Your work in regard to the intramural field is bearing fruit, because Mr. Nichols just called me this morning and stated that students had been in a number of times to see the Chancellor, and that he wanted some action.

My commendation to you for your consistency and aggressiveness in your quest for larger and more abundant play facilities for the students during their recreative hours.

Sincerely yours,

FCA:AH

Director of Physical Education and Recreation,
Varsity Basketball Coach.

June 27, 1939.

Mr. Raymond Nichols,
Chancellor's Office,
University of Kansas.

Dear Mr. Nichols:

I am enclosing herewith a statement of work done by Professor F. A. Russell in connection with the grading of the intramural field. I have approved this bill, and trust that you will send it through for payment at your convenience. Professor Russell has been invaluable in his supervision of this project.

Very sincerely yours,

Director of Physical Education,
Varsity Basketball Coach.

97.11

#1177.38 Spent 3/27/39

incl. \$50.52 for

Prof. Russell.

1200.

300

1500.

1177.38

322.

UNIVERSITY OF KANSAS
SCHOOL OF ENGINEERING AND ARCHITECTURE
LAWRENCE

OFFICE OF THE DEAN

March 25, 1939

Dr. F. C. Allen
105 Robinson Gym
Campus

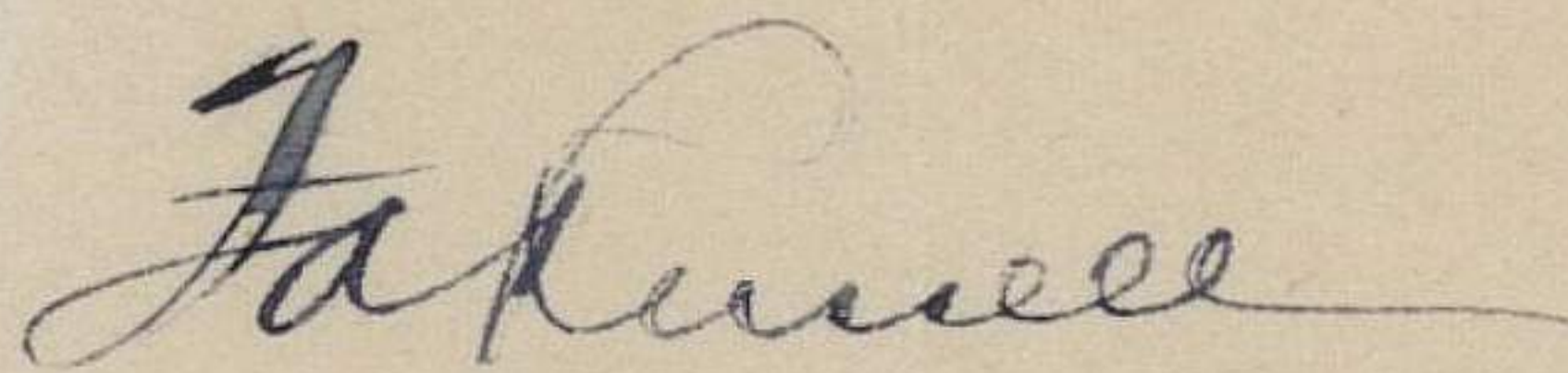
Dear Dr. Allen:

I think it would be quite desirable if we could proceed at once with the seeding of the athletic field which was graded last fall. I have made an estimate of the cost of seed on the basis of the recommendation of the Barteldes Seed Company and find there will be required 750 pounds of Kentucky bluegrass seed at 12 cents a pound and 150 pounds of rye grass seed at $7\frac{1}{2}$ cents a pound; the total cost of seed would be approximately \$102.00.

There has been considerable water turned on the field and the south part is quite well settled at this time. It would be advisable to have the power planer from the township spend perhaps one day in going over the entire field and planing it off level and rolling it down. This seed should then be sown and probably harrowed or dragged over to insure its not being blown away.

If money is available for this expense I shall be glad if you will notify me and I can proceed with having the work done.

Very truly yours,



F. A. Russell, Professor
Civil Engineering

FAR:md

P. S. May need some fertilizer too
JOR

Outstanding bills on Intramural Field Grading Project - sent to Mr. Nichols
for payment, Feb. 14, 1939.

Green Bros. - Paint and brushes	\$4.93
Barteldes - Seed	12.75
Friend Lumber Co. - Cementb.	18.90
Auto Wrecking & Junk Co. - Galv. Pipe	68.88
	<u>\$105.46</u>

November 23, 1938.

Mr. Blaine Grimes,
President, M.S.C.,
1100 Indiana St.,
Lawrence, Kansas.

Dear Blaine:

Again I want to thank you for your help. You were very fine and generous in promoting the aid that we received to complete the so-called Intramural Field. It was much appreciated by me, and I trust that I may reciprocate your favor if an opportunity presents itself.

Very cordially yours,

Director of Physical Education,
Varsity Basketball Coach.

FCA:AH

November 23, 1938.

Mrs Gevene Landrith,
President, W.S.G.A.,
1616 Indiana Street,
Lawrence, Kansas.

Dear Miss Landrith:

I doubly appreciate your wonderful cooperative spirit in carrying forward the movement of the students to donate \$300.00 as a final completion act of the fine so-called Intramural Field.

Your enthusiasm for this project was only excelled by your systematic endeavor in putting first things first and getting the job done. I greatly appreciate your manifold help.

Sincerely yours,

FCA:AH

Director of Physical Education,
Varsity Basketball Coach.

UNIVERSITY OF KANSAS
SCHOOL OF ENGINEERING AND ARCHITECTURE
LAWRENCE

OFFICE OF THE DEAN

October 26, 1938

Dr. F. C. Allen
Department of Physical Education
Robinson Gymnasium
Campus

Dear Dr. Allen:

You may desire a report on the money spent and work done on the grading of the intramural field. Following is a brief report.

For grading of field:

Hire of power shovel - - - -	\$ 486.20
Hire of trucks - - - - -	338.80
Extra driver for truck - - -	11.20
Labor paid for grading - - -	90.65
Engineering and supervision -	<u>94.00</u>

Total for grading - \$ 1020.85

There was moved a total of 9050 cubic yards, which gives a unit cost for moving the earth and planing it down of 11.3 cents per cubic yard. This does not give credit for the W.P.A. labor received, which was used in leveling earth dumped from trucks during the last half of the work. As shown above, we spent \$90.65 for this labor before W.P.A. help was assigned. In reality we have accomplished a great deal more than I had ever hoped for the money we had to spend, as the best contract bid we had on the grading was 20 cents per cubic yard. We were very fortunate in being able to get the Township power shovel at \$2.50 per hour rental, as such a shovel usually rents for about \$4.00 per hour.

In addition to the above expense, there are outstanding bills for the following:

120 Steel Guard Posts (Coens)	
at .40 - - - - -	\$ 48.00
28 sacks cement (Friends)	
at .70 less 10% - - - -	16.80
Sand, approximately - - - -	5.00
Paint and brushes (Green Bros.)	<u>4.93</u>

Total - - - - - \$ 74.73

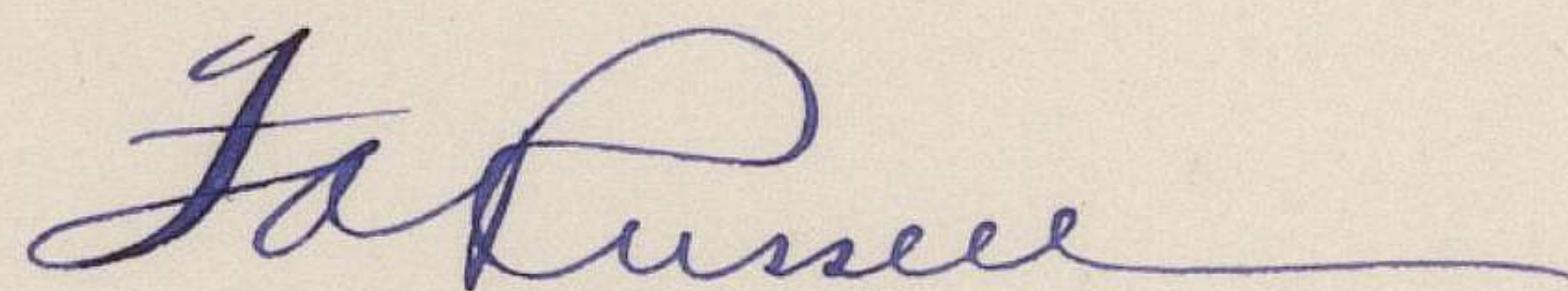
I believe you mentioned you had purchased about \$60.00 worth of pipe for bringing water to the field. On the above basis then, there has been spent:

\$ 1020.85	
74.73	
<u>60.00</u>	\$ 1155.58

Dr. F. C. Allen - 2

You can then see we have very little left out of \$1200.00 for any seeding or purchase of water. I am simply calling this to your attention so we may not overspend this fund.

Yours truly,




F. A. Russell, Professor
Civil Engineering

FAR:md

C.C. Raymond Nichols
C. G. Bayles

P.S. This doesn't include my fee 50⁰⁰ Suppose they do not care to allow it.
Attached is Estimate on Water and Seeding of \$ 268⁰⁰



ESTIMATE ON WATER NEEDED FOR INTRAMURAL FIELD

Ordinary soil will take up about 40% of its volume in water. It usually has about 10% or 15% already. This would call for say 25% by volume which would be approximately 1.5 gallons per cu. ft., or 40 gal. per cu. yd.

For 9,000 cu. yds. of embankment, there would be required $9,000 \times 40 = 360,000$ gallons of water. The lowest rate the University pays is 12¢ per 1,000 gal. This would require $360 \times 12 = \$43.00$.

This, of course, would be simply for settling and there would be needed more for wetting slopes, and sprinkling each day for some time. Think we should count on about \$75.00 for water.

For seeding, think we should at this late date use the blue grass and clover, or just straight blue grass. One pound will seed 200 sq. ft. This field is 430 x 380 for seeding, which gives approximately 164,000 sq. ft. which would require 820 pounds @ \$12.50 cwt. - would cost \$102.50. In addition, think we should have about \$50.00 worth of fertilizer.

On above basis:

Water	\$75.00
Seed	103.00
Fertilizer . . .	50.00
100 ft. hose ..	25.00
Fixtures . . .	<u>15.00</u>
	\$268.00

October 6, 1938.

Dr. Allen -

Below I am giving you memo on money spent and bills outstanding on grading intramural field:

Bills paid:

To A. M. LaDuke, truck hire, 144.5 hrs. @ \$1.00 . . .	\$144.50
Additional truck driver, 32 hrs. @ .35	11.20
To F. A. Russell, Engineering and supervision	94.00
Lyman Corlis, laborer	17.85
To several boys, labor	64.40
For 3 WPA laborers one day, 24 hrs. @ .35	8.40
	<u>\$340.35</u>

For work done and bills not paid:

A. M. LaDuke, truck hire, 21.5 hrs. @ \$1.00	21.50
Power shovel, 172 hrs. @ \$2.50	430.00
Truck and driver furnished by township, 184 hrs. @ \$1. .	184.00
Power planer smoothing field, 12 hrs. @ \$2.00	24.00
To F. A. Russell, final on Engineering, 43 hrs. @ \$1.175	50.52
	<u>\$1050.37</u>

Additional expense needed:

Planer 2 days for final surfacing, 16 hrs. @ \$2.00 . .	32.00
Purchase posts for guard fence, 120 @ .25	30.00
	<u>\$62.00</u>

\$1112.37

Total amount of appropriation	<u>\$1200.00</u>
---	------------------

Probable balance	\$87.63
----------------------------	---------

F. A. Russell.

October 6, 1938.

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Total amount of appropriation \$1200.00

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F. A. Russell.

UNIVERSITY OF KANSAS
LAWRENCE

DEPARTMENT OF PHYSICAL EDUCATION

Mr Allen

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and bills outstanding on grading intramural field.

Bills paid:-

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Additional truck driver 32 hrs @ .35	-----	11.20
To F&R - Engineering and Supervision	-----	94.00
Lyman Carless - Lobarer	-----	17.85
To Several boys - Lobar	-----	64.40
To 3 WPA Lobarers one day 24 hrs @ .35	-----	8.40
		<u>\$ 340.35</u>

For Work done and Bills not paid:-

A.M. La Duke - truck hire 21.5 hrs @ 1.00	-----	\$ 21.50
Power shovel, 172 hrs @ 2.50	-----	430.00
Truck & driver furnished by township, 184 hrs @ 1.00	-----	184.00
Power Planer smoothing field 12 hr @ 2.00	-----	24.00
To F&R, final on Engineering 43 hrs @ 1.175	-----	50.52
		<u>\$ 710.02</u>
Total to date	-----	\$ 1050.37

Additional Expense needed:

Planer 2 days for final surfacing, 16 hrs @ 2.00	-----	\$ 32.00
Purchase parts for guard fence, 120 @ .25	-----	30.00
		<u>62.00</u>
		\$ 1112.37
Total amt of appropriation	-----	1200.00
		<u>\$ 87.63</u>
Probable balance	-----	

F.R. Russell

Oct 6 - 1938