Public Works (1897) Department.

G.O., No. 2373W

DATED 26. August 1897

[Despatch Abstract.]

Taluk Office at Proddatur: Correspondence on the subject of the preparation of the original revised estimates for constructing a —, and the rates allowed therein, recorded

D.C. 26/8

[P.W. 25. 5,000—30-11-96.]

Indexed. v18

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

B

For orders

No. 2373 W, d/ 26-8-97

DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ again ~~the following~~

G.O. No. 3675 W d/ 19.12.96. Read also the following:—

Office Note No. 5033 C d/ 19.12.96.

Office Note from the Consulting Architect No. 4717 d/ 6.1.97.

Memo No. 567 C d/ 28.1.97

Letter from the Supdg. Engineer, III Circle, No. 3721 W d/ 5

Memo No. 1013 C d/ 19.2.97.

Office Note from the Consulting Architect No. 5396 d/ 15.

Memo No. 1686 C d/ 24.3.97.

Letter from the Supdg. Engr., III Circle, No. ~~[illegible]~~ 21 W d/ ~~[illegible]~~ 2.4.97

Memo No. 2040 C d/ 8.4.97

Letter from the Supdg. Engr., III Circle, No. 1565 W d/ 10.6.97.

Recorded.

23/8/97

C.H.M. 21.8.97.

R.W.

T. [illegible]

[P. W. 40. 1,000—26-2-97.]

P. W. DEPARTMENT.

No. 2373 W., 26-8-97

READ the following :—

His Excellency the Governor

FOR ORDERS.

"Flag" A.

"Flag" B.

In accordance with His Excellency's rescript dated 17th December 1896, the Consulting Architect was, on 19th idem, asked for an opinion on certain points raised. His reply, dated January 6th 1897, is to the following effect:—

(i) That the building could not, with advantage, have been built less substantially.

(ii) That Rs 121-3-3 is a heavy and disproportionate rate for archwork.

(iii). That 1¼" ~~[illegible]~~ top-dressed Cuddapah slabs might have been substituted for racks at

43—500-27-4-94.

a smaller cost

(iv) That an ordinary tiled roof with a framed cloth ceiling might with economy have been substituted for Mangalore tiling

Considered by many objectionable.
C.W.H.
16.8.97

I, among others, consider rag ceilings highly objectionable.
A.G.H.
20.8.97

(v) That flooring costing Rs 20-10 and Rs 26- per 100 square feet is very high indeed for a building of this class, for a brick-on-edge floor would cost no more than Rs 8 or Rs 9 per 100 square feet.

(vi) In other respects he considers the design suitable, and he deprecates the construction of other than "pakka" buildings in this country where decay is rapid and repairs are costly.

It was considered necessary to refer items (ii), (iii) and (v) to the Superintending Engineer: but data were first called for in memo No 567 G dated 28th January 1897. On the data being obtained the Consulting Architect was asked whether he was prepared to modify his views in any respect for it was, for instance, pointed out that more than half the expense of the archwork was due to the carriage of materials. In his reply dated March 13th he adhered to his statement that Rs 121-3-3 for archwork was prohibitive, and considered that, if stone-archwork could not be done for a cheaper rate, bricks should be used. In regard to the other items he could in no way modify his previously expressed opinion.

"Flag" C.

This resulted in the issue memo No 1686 of March 24th 1897 in which the Superintending Engineer was questioned on items (ii, iii and iv) aforesaid. Owing to the pressure of famine work Mr de Winton could not send an answer till 6th June when he wrote saying that cut-stone need not

"Flag" X

"Flag" U

have been used for 754 cubic feet out of the 927 cubic feet provided in the estimate and charged for at the rate of Rs 121-3-3, because that quantity represented a number of arches of small span for which good rubble masonry would have sufficed. For the balance, however, he considered that cut stone was necessary as the 173 cubic feet included arches of larger span. Bricks might have been used for the ~~lower~~ smaller arches, he says, if they had been obtainable: but, in point of fact, good bricks are not to be had in the circle. Mr de Winton points out in his letter that Rs 67-0-9 of the high rate of Rs 121-3-3 is for cartage over the very exceptional distance of

FOR ORDERS.

P. W. Department.

Read the following:—

FOR ORDERS.

21 miles: but he says that the stone was all obtained before he came to the circle and that he is not personally acquainted with the quarries; yet he thinks it possible that arrangements might have been made to obtain rubble nearer the site; and he will see that cut stone is not used unnecessarily in future estimates. He gives the reasons for considering the balance of cost – Rs 54-2-6 moderate, and represents that it is less than the rate – Rs 58-4 – for Hindupur Cutcherry into the question of which he went into carefully.

As regards (iii) – the proposed

Substitution of top-dressed stones for racks, Mr de Waiti gives figures to show that no advantage would be gained thereby.

Item (V), he points out, also turns on the impracticability of getting good bricks, and he deprecates the use of any but the very best bricks for such a purpose as flooring.

This letter resulted in a passage, to & fro, of office notes commencing on 24th June and ending on this date. And it is considered that remarks on the various points at issue may be abridged as follows:-

(1) The Superintending Engineer's Estimate of Rs 121-8-3 for cut-stone archwork may be accepted: but care should be taken, in future, not to use such expensive material unnecessarily.

(2) The substitution of top-dressed slabs on iron frames for racks does not seem desirable as the former, instead of being the cheaper of the two arrangements, is calculated to be by far the more expensive.

(3) Brick-on-edge flooring should not be used where good bricks can not be obtained.

As the 3rd circle is in the hands of a highly efficient officer having under him able Executive Engineers who can be trusted to do the best in the interests of Government; and as they are not in any way responsible for the mismanagement existed - for that occurred before their time - the

FOR ORDERS.

Rw.
2.54
20.8.97

Matter may, it is thought, be recorded

C.W.M.
16/8/97.

17/8/97

No. 2373 W, 8/26.8.97

Dr/

The weight of a cft. of rough stone is 168 lbs.

∴ 100 cft. = 168 × 100 = lbs 16,800

A Madras cart is supposed to carry about 1000 lbs but carts used in Cuddapah & Kurnool Districts are much smaller & carry only about 800 lbs, therefore number of carts required to carry 16,800 lbs will be 21.

Cartage in the mofussil is generally 2 as a mile

The cost of carriage of rough stones including fixing will be as under :-

21 carts at 2 as per mile per cart for 21 miles	Rs 55-2-0
Fixing in mortar as per data worked	7-12-..
Tolls, ~~say~~ 2 as a cart	2-10-.. ~~1-14-..~~
Total for 100 cft	65-8-..

Quarrying does not appear to come in the rate of Rs 67-0-9 stated by the SE for carriage of stones including tolls. In the schedule of rates Rs 6 to 6-8-.. is intended for quarrying 100 cft.

100 Cft of stone when blasting is required.

The data as now framed works up near to the S E's figures, viz Rs 65.8.- against Rs 67.0.9. for 100 cft of carrying &c.

13.8.97.

Yes I did not know that these carts carried so little

Casy
16.8.97

Dimensions of the Corm are noted?

~~Dr~~

Detailed plan & estimate for iron rack as per your sketch, are herewith submitted. As no dimensions were given on the sketch for the iron work, I have assumed certain dimensions which appear safe to suit the Cuddapah slabs.

It will be observed that for racks of equal dimensions the cost of the iron rack is nearly 3 times as much of the wooden rack, vide details below:-

Rack. 6' × 2'6" × 10'0"

:Wrought iron work:

					Rs
Angle iron at corners	4 × 10'6" ×	(3" × 3" × 1/4)	= 42 × 4·79		= 201.
– do – ties at ends	10 × 2'9"	(2" × 2" × 1/4)	= 27'6 × 3·12		= 86
– do – stiffeners at bottom	2 × 6'0	(2 1/4" × 2" × 1/4)	= 12'0 × 3·33		= 40
Flat iron stiffeners at top	2 × 6'0	(2" × 1/4)	= 12'0	} × 1·67	= 28
– do – do – side	2 × 2'6"	(2" × 1/4)	= 5'0		
T iron uprights ———	2 × 10'6"	(3" × 2" × 1/4)	= 21'0"	} × 3·96	= 137
– do – ties at centre	5 × 2'9"	(3" × 2" × 1/4)	= 13'9		
Bolts & nuts 50 in number say.		(3/8" dia.)		———	6
			Total Rs wrought iron work		– 498

Cut stone work.

under uprights centre & front	4 × 1'6" × 1'6" × 1'4"	= 12.
do. at wall ends	2 × 1'6" × 1'1½" × 1'4"	= 5
Total Cft of Cut stone		17

"Cuddapah Slabs"

8 slabs 10 × 2·11" × 2·4' = ~~204~~ 76.

Total cft of 1⅛" slabs —— ~~204~~ 76

abstract

498 lbs of wrought iron at 3as	93
17 cft of cut stone work at 1 Re	17.
76 sq ft of Cuddapah slabs at 4as	19
Leading uprights at feet	6.
Total Rupees	135

against Rs 52.8.. for wooden rack, vide para 4 of the SE's letter

It will be observed that the carriage of such stones for a distance of 21 miles including payment of tolls, as per para 3 of the SE's letter is Rs 67.0.9 for 100 cft ×. & the cost of fixing the same in mortar will be as under

4 parahs of lime at 5½ as	2.1.0
12 do. of sand at 2 pies	..2..
5 brick-layers at 12 as	3.12..
4 men cooties at 4 as	1.....
6 boys —— at 2 as	..12..
Sundries	..1.0..
Total cost of fixing 100 cft	7.12.. say Rs 8.

Ths.
6/8/97.

DW/ Reply attached - Ths. 12.8.97

T.

×. Yes. But what I want to know is how it can cost so much. I do not suppose that it will take more than 10 carts to carry 100 cft, ~~and~~ or that the cart would charge for each cart more than Rs 3 for 21 miles. Thus for

Cartage = Rs 30

Fixing as " 8.

[illegible] " 2.

Tolls say " [illegible]

Total Rs 40.

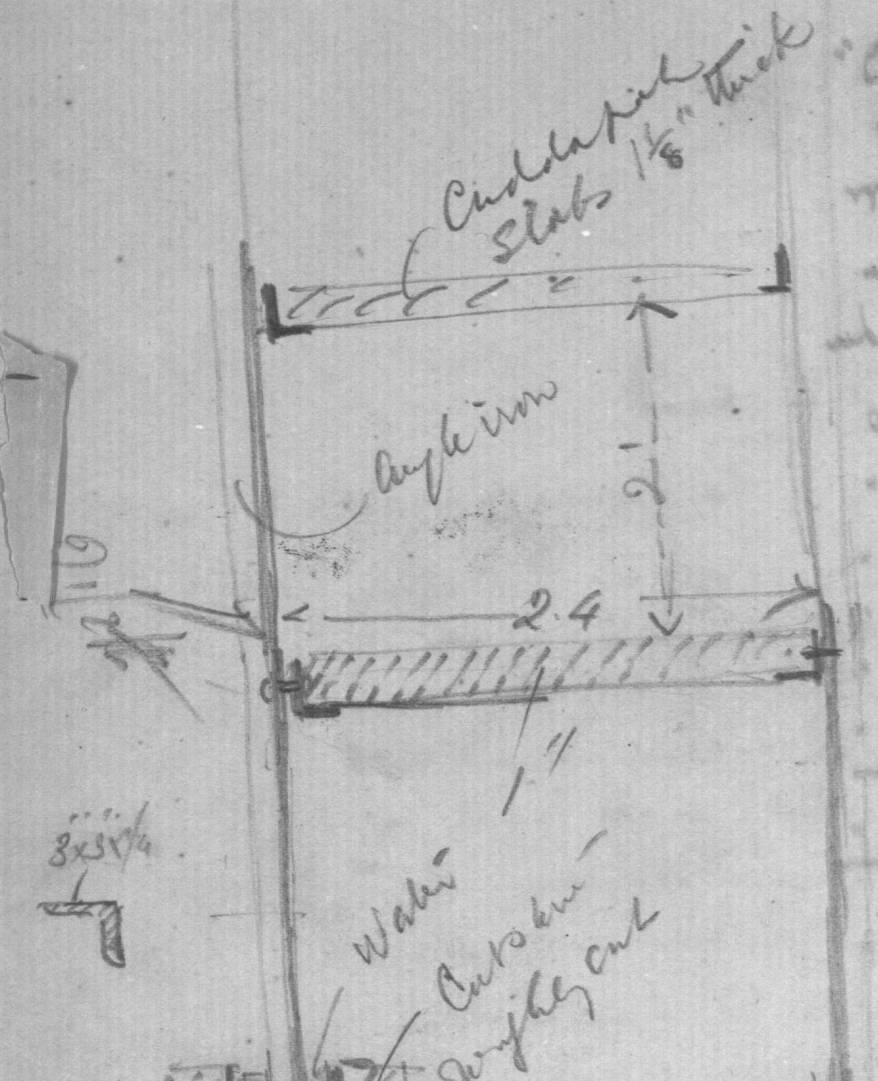
Does [illegible] come in anywhere? And what should be the charge for that? Anyway how can the item amount to Rs 67-0-9?

3-8-97

T. Please calculate racks as per sketch & compare price with that of racks provided in the estimate. Also make a data statement showing (1) Carriage of cut. stones 21 miles (2). Fixing of the same in mortar.

20/7/97.

I make out that the cost of (1) & (2) should not exceed Rs 40 -



~~DW/ The estimate for Cuddapah Taluq office is not in file. Please call for it by D.O. to [illegible], also for the detail sheets, returned in Memo No. 2040 C dated 8.4.97, as I have to compare the price of second racks as per DW's sketch with that provided in the estimate.~~

Ths. 21.7.97.

Information since obtained from the SE's letter. vide current 5842.

Ths.
6/8/97

Public Works (1897) Department.

CURRENT No. 2739

Order

From
The Consulting Architect
to the Government
of Madras

No. 5396

Dated 15th March 1897
Received 16-3-97
Enclosures & 3
Spare copies

SUBJECT.

Returning, with his views, the data list to accompany revised Estimate for Constructing Taluq office at Prodatur.

Dw
[illegible]
Cns
20/3/97

BACK PAPERS.

G.O.	No.	Department.	Date.
	1013 C	P.W.D.	19.2.97

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Public Works (1897) Department.

E.2

CURRENT No. 476
2739/97

Order

From
The Consulting Architect
to the Government
of Madras

No. 4717

Dated 6th January 1897
Received 7.1.97
Enclosures
Spare copies

SUBJECT.

Submitting the opinion of G. S. T. Harris Esqr. on the points raised by H.E. the Governor in connection with a revised Estimate for a first class Taluk office at Proddatur.

BACK PAPERS.

G.O.	No.	Department.	Date.
3675W		P.W.	19-12-96
	5033C	"	19-12-96
~~1139D~~	1139D	"	25-8-96
1180W		"	28-4-93
	1573C	"	6-4-93

FURTHER PAPERS.

G.O.	No.	Department.	Date.

is very high indeed for a building of this class:- Brick on edge @ say 8/- to 9/- would have been a suitable floor:-

It is advisable to build public buildings "pukkha" in this country – Decay is so rapid, & repairs so costly that savings in first cost are soon wiped out:- The returned establishment charges are lumped for Original & Repair works, but actually they are very disproportionate. Probably a ratio of 4 to 1 is none too high.

This Building is built to a plain useful design, & with the exception of the items to which attention has been called, it has been in the opinion of W. Sd., economically constructed:-

G. H. [illegible]
C.A.

7/1/97

No. 5033C

Government of Madras.

CONSULTING ARCHITECT TO THE GOVERNMENT OF MADRAS.
R. No. 354
JAN. 97

PUBLIC WORKS DEPARTMENT.

Madras, 19th December 1896.

OFFICE NOTE.

From
W

To
C. A.

In connection with a revised estimate for a first-class Taluk office at Proddatur, in the Cuddapah District, His Excy. the Governor remarked "Is it necessary to construct these stone buildings in such a solid and costly way?"

The undersigned replied,– "The buildings probably could be constructed in a less solid and costly manner, but the bill for annual repa would probably be very great if they were. The interest on the extra capital expended in building as now is probably much less than the annual repair bill, if the buildings were built in a cheaper style".

His Exy. now desires your opinion on the points raised.

18/12/96

W

CM

To W. No. 4717 of 6.1.97

This building sd not in the opinion of undd have been constructed in a much less solid way:- Note, that it stands on black soil, a fact which necessitates great caution in foundation work:- The walls being of masonry in lime (from the rate presumably first class) the partition and smaller walls might have been made 14", and the higher 16". This supposes the stone employed quarried fairly square — the Treasury and outer walls of cells, sd not be less certainly than they are:—

If the walls had been run up "kutcha pukkha" — the widths cd not have been less than 20" to 24", with binding courses at say 6 ft. intervals — and it is probable that with the enhanced widths, there wd not have been much saving even with the proportionately lower rate (usually about 30 to 35 p.ct:-)

Being pukkha, pointing only has been resorted to ~~only~~ in the rooms, instead of plaster, effecting a saving:—

The amt expended on "archwork" is very heavy and disproportionate — 121/3/3 — is too high a rate:- rough dressed stone or brick arching ought not to have cost more than 1/4 of the money:-

Plain 1¼" topped dressed Cuddapah slabs might have been inserted with advantage for racks — at a smaller cost:—

An ordinary tiled roof, with a framed cloth ceiling might have been substituted for Mangalore Tiling — for a good deal less:—

Flooring @ 20/10/- and 26/-/-

No. 1686 C of 24.3.97

No. 3721 W

Supdg: Engineer's Office, III
Bellary, 5th February 1897

From
W. B. de Winton Esqr.
Supdg: Engineer, III Circle,
Bellary.

To
The Chief Engineer,
P. W. Department,
Madras.

Enclosures — One.

Sir,

With reference to your Memo. No. 567 dated the 28th Ultimo, I have the honour to resubmit the data that accompanied the revised estimate for the Proddatur Taluq Cutcherry as required therein.

I have the honour to be,
Sir,
Your most obedient servant,
W. B. de Winton
Supdg: Engineer, III Circle.

J.S.
2-2-97

913

No. 3721 W

Supdg: Engineer's Office, III Circle,
Bellary 5th February 1897

From
H. B. de Winton Esqre.
Supdg: Engineer, III Circle,
Bellary.

To
The Offg. Chief Engineer [illegible]
P. W. Dept. [illegible]
[illegible]
Madras.

No. 3721 W

Sir,

With reference to your Memo. No. 567 dated the 28th ultimo I have the honour to resubmit the data that accompanied the revised estimate for the Proddatur Taluq Cutchery as required therein.

Taluq Cutchery Proddatur

Sir,

Your most obedient servant

Supdg: Engineer

P.W.E. 3
27.3.97

No. 1686 C of 24.3.97

Public Works (1897) Department.

CURRENT No. 1327

No. 1013 C of 19th Feby 1897

~~Order~~ O.W.

To C.A.

With reference to the enclosed data, please say whether you are prepared to modify your views, expressed in your office note No. 4717 dated 6.1.97 (herewith returned) - more than half the expense of archwork, for instance, is due to carriage of materials.

17/2/97
W

From The Superintg Engineer
3rd Circle
Bellary

No. 3721 W

Dated 5th February 1897

Received 6.2.97

Enclosures 1

Spare copies

SUBJECT.

Taluq Cutcherry Prodatur

Resubmits the data list to accompany revised estima

comp
16.2.97

T/B

Looking into data - it will be seen that rate for "archwork" is for constructing - based on rate for lintel stones which are 6'x1½'x9" = 7 cft. weighing quite ½ ton each.

There may be an objection to using "Vorsen Vagui" stone for archwork - & when 1st class rubble is done at 21/14/- 1st class ordinary arching &c. be done at

BACK PAPERS.

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G.O.	No.	Department.	Date.

50 p.ct on this rate say 33/-/- &c. – if this stone will not do for arching – then bricks should have been employed – but 121/3/3 for arching in such buildings is prohibitive: – My remarks on the other items cannot be modified.

13/3/97

S.E. III Circle.

No. 1686 C of 24.3.97

With reference to the Superintending Engineer's letter No. 3721 W of 5th Feby 1897 the undersigned has the honour to state that Rs 121-3-3 for archwork seems too high a rate. The data, it is true, shew how the rate has been arrived at: but the necessity for using cut-stone for such arches is not apparent. Since first-class rubble can be done for Rs 21-14 per 100 cubic feet, first-class ordinary arching should, it is thought, be done at 50 per cent in excess of this rate, or, say, for Rs 33. But if such stone is not suitable for arching, bricks should be used, for a rate of Rs 121-3-3 for ~~arching~~ work in such buildings is prohibitive.

2. A report is also requested on the following points:–

(i) whether 1¼" top-dressed Cuddapah slabs could not be substituted for racks at a less cost

(ii). whether brick-on-edge flooring, at say Rs 8 or Rs 9 per square, could not be substituted for the flooring proposed costing Rs 20 and Rs 26 which rates are very high for a building of this class.

CHTB
22/3/97

22/3/97

1st Reminder issued 22-5-97

T/B. Circle

S.E. III Circle 25/3/97

INDEXED

26/3/97

Public Works (1897) Department.

CURRENT No. 3516

From the Superintg Engineer
3d Circle
Bellary

No. 2040 C of 8-4-97

No. 21 W

Order C

The undermentioned document is forwarded to the Suptg: Engineer, III Circle with reference to his letter No: 21 W d/2-4-97. –

Data Statement connected with the revised Estimate for Proddatur Tq. Cutcherry.

(Sd) D. McNeil Campbell, Col. R.E.
Secy to Govt: P.W.D.

To S.E. III Circle with data Statement } D 9/4/97

Dated 2d April 1897

Received 6.4.97

Registered — „ —

Enclosures

Spare copies

SUBJECT.

Proddatur Taluq Cutcherry

Requesting to return the data forwarded with S.E. 3d No 3721 W of 5 February 1897

10/4/97

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No.	Date.
1686 C	24. 3. 97
5033 C	19. 12. 96
1013 C	19. 2. 97
567 C	28. 1. 97
3675 W	19. 12. 96
5033 C	19. 12 - 96
1139 D	25. 8. 96
1180 W	28. 4. 93
1573 C	6. 4. 93

FURTHER PAPERS.

No.	Date.

No. 21 W

Supdtg: Engineer's Office, III Circ
Bellary, 2nd April 1897.

From
W. B. de Winton Esqre
Supdtg: Engineer, III Circle,
Bellary.

To
The Chief Engineer,
P. W. Department,
Madras.

Sir,

With reference to your Memo: No. 1686 C dated the 24th ultimo, I have the honour to request you will be good enough to return to this Office the data that accompanied the revised estimate for the Proddutur Taluq Cutcherry sent you with this Office No. 3721 W dated the 5th February 1897.

I have the honour to be,
Sir,
Your most obedient servant,

1/4/97
Assistant Engineer
for Supdtg: Engineer, III Circ

Sd.
1 4 97

Public Works (1897) Department.

CURRENT No. 5842

From W. B. de Winton Esqr.
Supdg. Engineer, III Circle,
Bellary

Order

No. 1565W

Dated 10th June 1897
Received 14th Do
Registered 16th Do
Enclosures
Spare copies

SUBJECT.

Proddatur Taluq Cutcherry —
Giving further information
regarding high rates for
the arch work &c. of the —

DW/
orders

on/
17.8.97

[illegible] 16/8/97

O.S./10 0/15/6/97 sent again 7/8/97 R 11/8

sent again 13/8/97

Received by me in Madras on 19-7-97
[illegible]

BACK PAPERS.		FURTHER PAPERS.	
No.	Date.	No.	Date.
2040C	8-4-97		
1686C	24-3-97		
1013C	19-2-97		
3675W	19-12-96		
5033C	19-12-96		
1139D	25-8-96		
1180W	28-4-93		

No. 1565W

Supt. dg. Engineer's Office,
III Circle, 10th June 1897.

From
W. B. de Winton Esqre.,
Supt. dg. Engineer,
III Circle.

To
The Chief Engineer,
Public Works Department,
Ootacamund.

Sir,

With reference to your No. 1686C dated 24th March 1897, which I regret has remained so long unanswered owing to pressure of famine work, I have the honour to report as follows:—

2. Para 1. It is undoubtedly the case that cut stone need not have been used for 754 cubic feet out of the 927 cubic feet provided in the estimate and charged for at the rate of Rs. 121-3-3 because that quantity represents a number of arches of small span over windows, ventilators &c for which good rubble masonry

masonry would have sufficed. This point seems to have been overlooked in framing the original and revised estimates. For the balance of 173 cubic feet, I think cut stone was necessary, because it includes 2 arches of 10 feet span between the Hd. accountants' and Clerks' rooms, with high gables over them; and arches of 5' span in Police guard rooms passage.

Bricks, of course, might have been used for these, but good bricks are practically unobtainable in these Districts, and with such fine stone available almost every-where, it seems a pity to substitute for it, in permanent buildings, a material so very inferior in every respect.

3. With regard to the high rate of ~~Rs~~ 121-3-3, it should be noted that Rs. 67-0-9 of it is for cartage and toll from the very exceptional distance of 21 miles. It is possible that the rubble obtainable from a distance of 5 miles might have been procured of sufficient size for arch work; but as to this, I cannot speak — definitely, as I do not personally know either of the quarries and the stone was all obtained before I came to the Circle.

With regard to the balance of cost, (Rs 54-2-6) I do not think it is high for this description of work. It must be remembered that each stone has to be 18" square, and dressed carefully on all sides except the top. The rate works out somewhat less than that entered for similar work less cartage at Hindupur Cutcherry, which I went into carefully (viz. Rs. 58-4); but of course Proddatur is a cheaper place to work at than Hindupur. In future estimates, I will see that cut stone is not used unnecessarily.

4. Para 2 of your letter under reply.

(1) I do not quite understand how you propose

propose that the Cuddapah slabs should be supported. If on iron frames, the cost ~~for~~ rack would be Rs 757. as compared with Rs 52-8-0 provided in the estimate for wooden racks – and the weight of each rack, unloaded, would be 2,523 lbs. If on wooden frames, the cost would be practically the same as for teak.

(ii) As stated in Para 2, good bricks are practically unobtainable in Cuddapah District and unless they were good, they would not last 1/4 the time that Cuddapah slabs do. The latter are everlasting and, in my opinion, well worth their extra cost. I would strongly deprecate the use of any but the very best brick for such a purpose. The rates are undoubtedly high for a place so near the quarry as Proddatur, but the crossing of the Pennar river is an expensive item.

5. I presume that a copy of the data has been kept, so do not send one. (not kept

I have the honour to be,
Sir,
Your most obedient Servant,
W. Hutton 10/6/97
T.S./10/6 Superintdg. Engr. III circle.

Chn 5842
OS
10

#7.
To be sent to Madras to await my arrival there next week when I will re-consult C.A. on this matter.
[illegible]
24/6/97

Dw These papers were linked with another file regarding quarters for the Port officers at Negapatam now under disposal as the C.A. in his letter in the latter file referred to papers in this file. It was therefore unfortunately detained here till today.
R.R.
16/7/97.

[illegible]
To be sent to Dty with T's calculation
[illegible] 20-7-97
J/

II. × C.S.

B order sent to Madras [illegible]
on 23rd August 1897 C.M. 23.8.97.
[illegible] 26/8/97

These proposals were linked
with the file regarding quarters
for the officers at Nagapatnam

R.K.

Please have this plan put up with the original of G.O. 2378 W d/26/8/97

D.P.W.
30/8/97

J

Kindly say to what current the accompanying plan belongs.

Answer has been given already

31/8/97

R.L.
20/8/97
H.C.

No. 2378W, d/26-8-97.

×

To Current W. 5842.
Taluq Office at Proddatur.
Cuddapah District.

~~H.C.~~ × C.S.

Border sent to Madras on 23rd August 1897 C.M.K.

23.8.97.

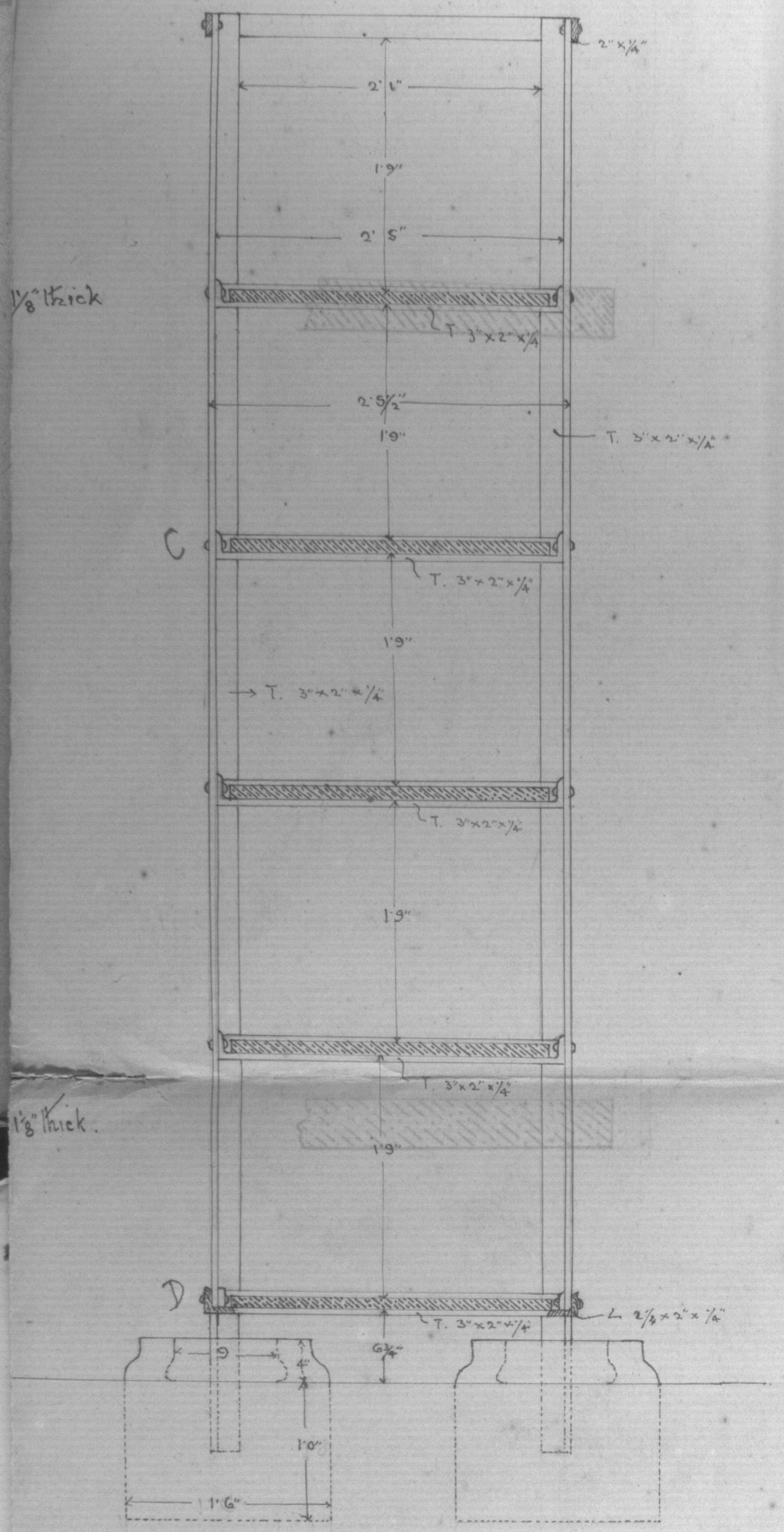
plan put up with the G.O. 26/8/97

that the budget

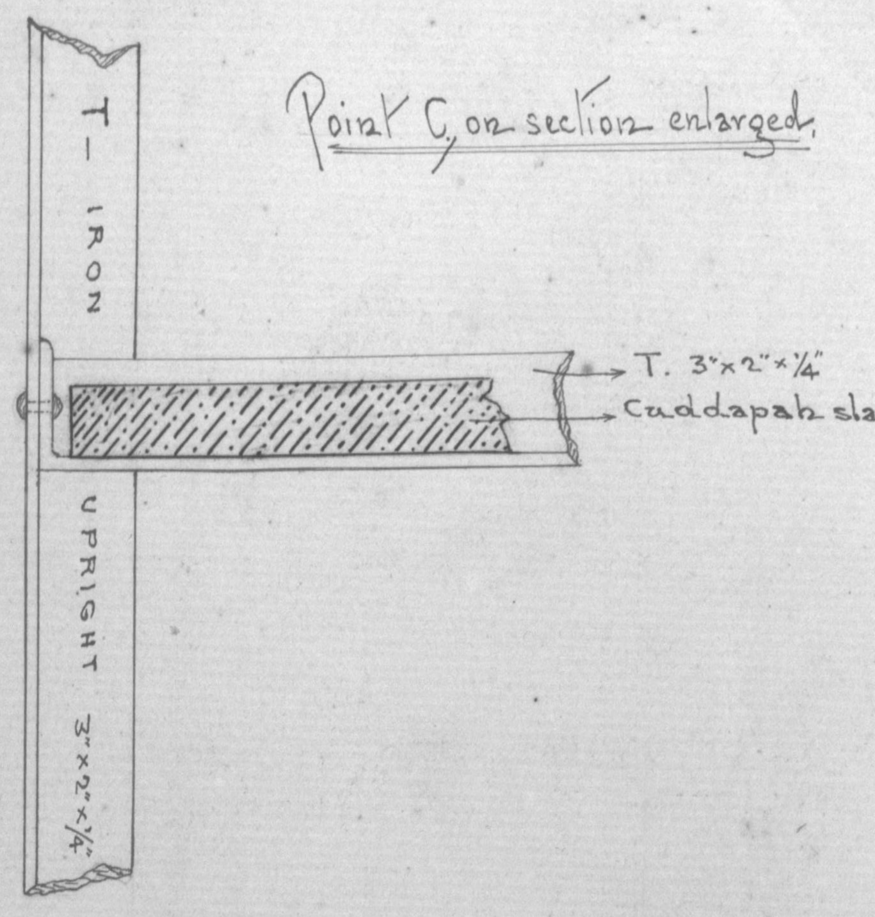
Does any one know what this refers to? I found it on my table this morning

WM
18.8.57

Cross Section on N.W.

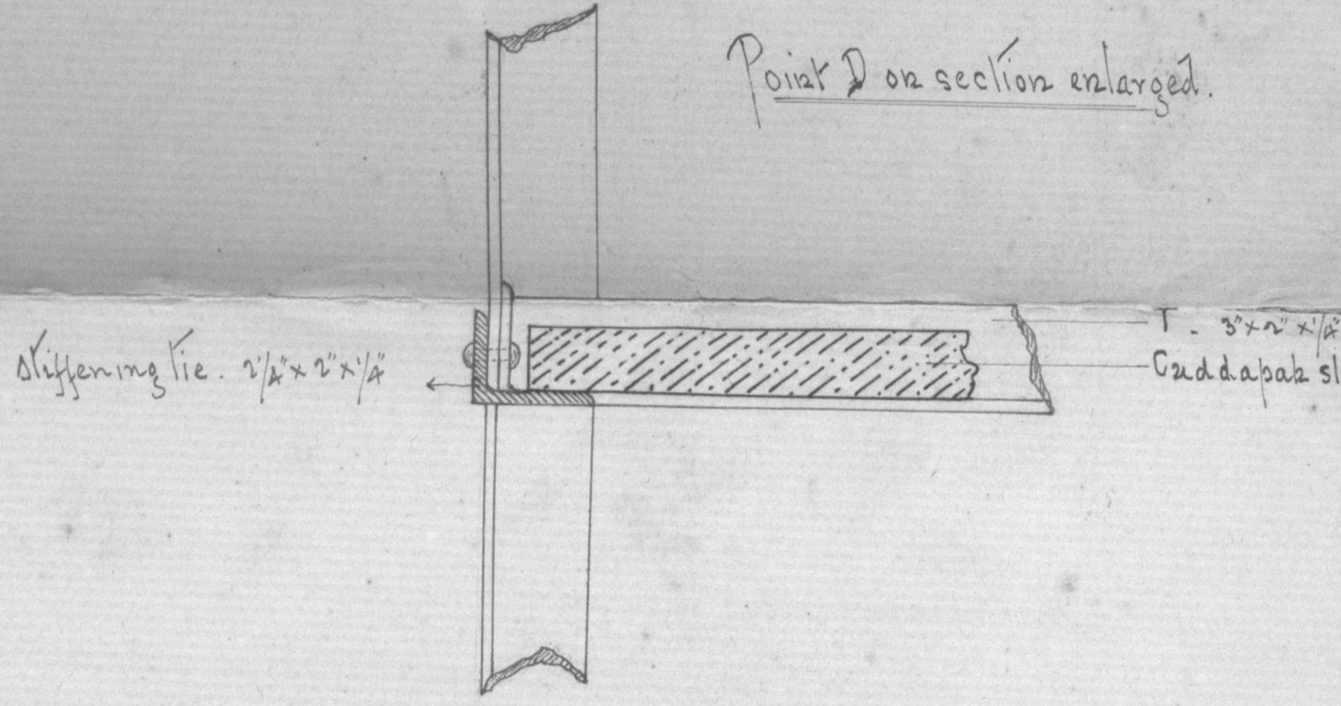


Point C, on section enlarged.

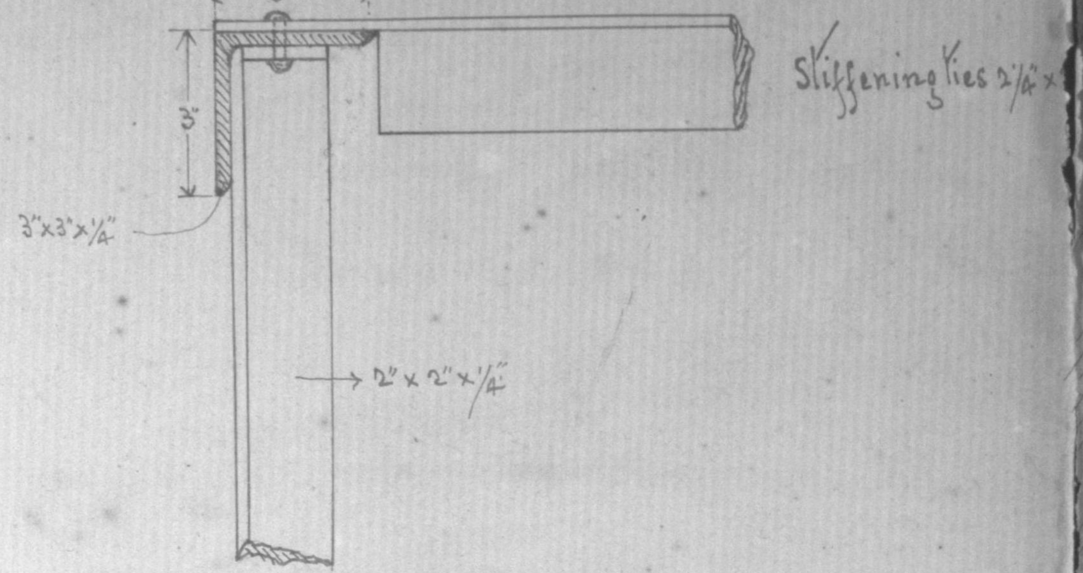


5/8/97.

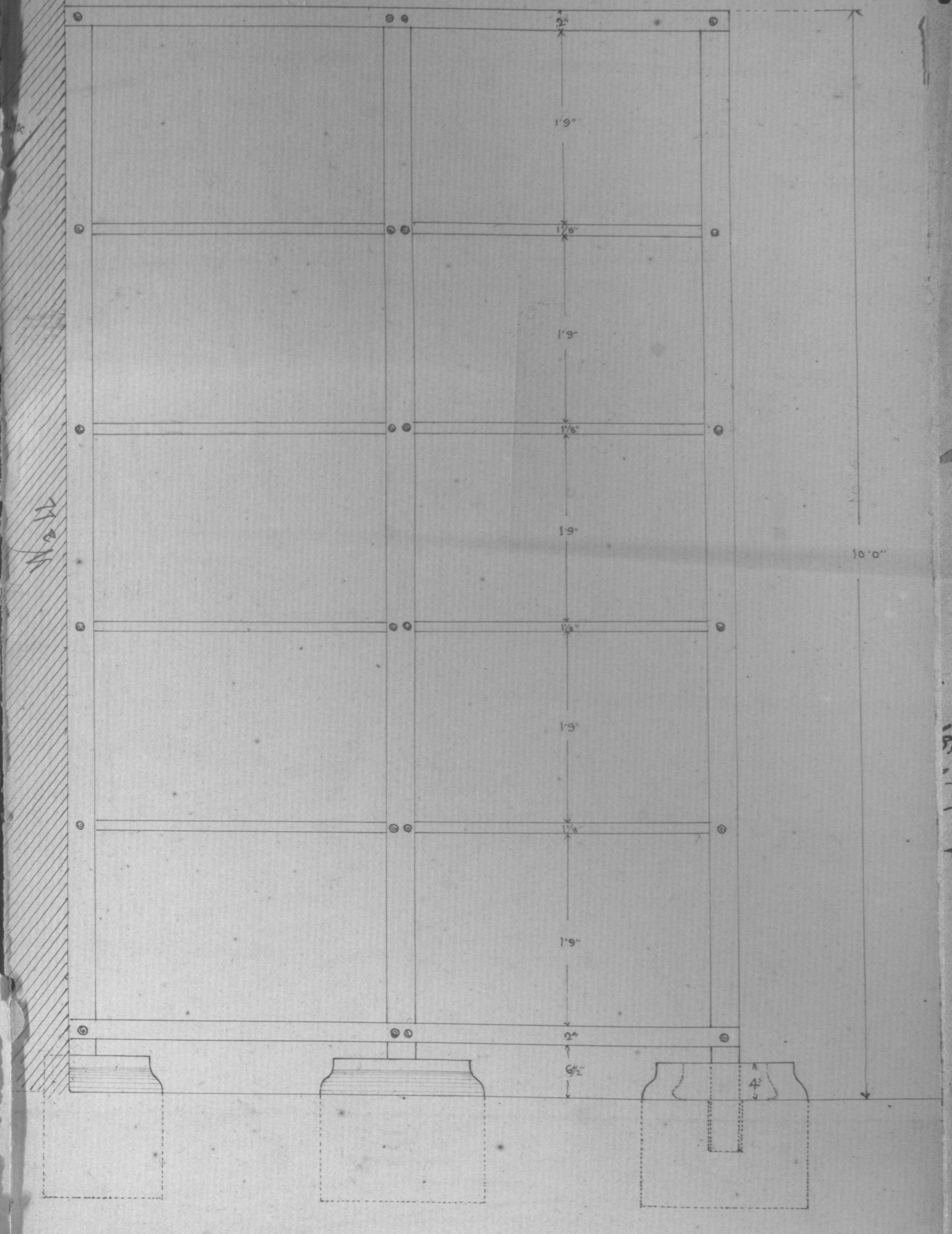
Point D on section enlarged.



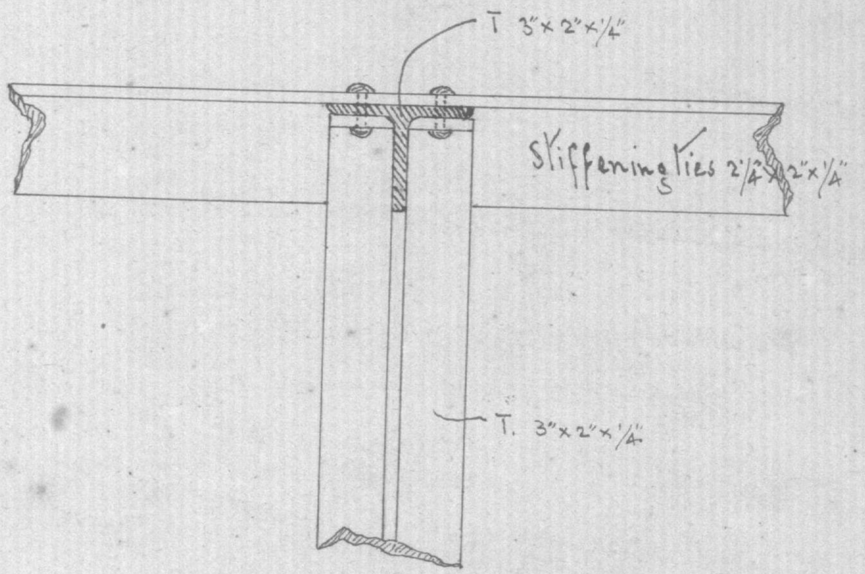
Enlarged plan at A.



Elevation of Rack.



Enlarged plan at B.



Plan of Rack.