

(1) Number of pages 18(2) Date of repair 15.1.63

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public Works* **DEPARTMENT.**

G.O. No. <u>961</u>	Press <u> </u>
<u>549-551</u>	Mis <u> </u>
Dated <u>24-3</u>	<u>18.66.</u>

Not to be folded or roughly handled*157-113*

Proceedings of the Madras Government, Public Works Department.
24th March 1866.

Read the following papers:—

No. 549. Memorandum from the Inspector General of Hospitals, dated Fort Saint George, 13th March 1866, No. 99.

From the Surgeon, General Hospital, to the Deputy Inspector General of Hospitals, dated Madras, 10th March 1866, No. 137.

I have the honor to report, for your information and for that of the head of the Medical Department, that nine men were admitted into the General Hospital on the 7th instant, having been injured by the roof of one of the latrines now being built at the General Hospital having fallen in whilst they were at work.

Forwarded to the Chief Secretary for the information of Government.

(Signed) J. S. W.,
Inspector General of Hospitals,
For Prinl. Insp. General, Medical Dept.

Transferred to the Public Works Department.

(Signed) A. J. ARBUTHNOT,
Chief Secretary.

17th March 1866.

No. 550. Endorsement of the Superintending Engineer, 4th Division, dated Madras, 19th March 1866, No. 4,552.

From the Executive Engineer, Presidency, Southern Range, to the Superintending Engineer, 4th Division, dated Madras, 7th March 1866, No. 505.

1. I have the honor to report to you that an accident occurred yesterday at No. 3 Latrine, General Hospital, now in course of construction.
2. The course of terrace bricks having been completed on the 2nd instant, yesterday morning the bricklayers commenced beating down jelly over the bricks, when at about 11 o'clock A. M. the whole roof fell in, the side walls stood firm, but a portion of the flooring below was broken through by the falling beams and masonry.
3. Fortunately no work-people were seriously injured, three men and one boy employed on the roof, and four men in the room below, were bruised and shaken, but no limbs were broken, they were taken at once to the Hospital, four are about to-day, the remaining three will be all right in a day or two.
4. The cost of repairing the damage to the building has not yet been estimated, but will be of small amount.
5. A report of cause or probable cause of accident will be forwarded with as little delay as possible.

From the Executive Engineer, Presidency, Southern Range, to the Superintending Engineer, 4th Division, dated Madras, 10th March 1866, No. 509.

1. I have the honor to forward to you the following report, upon the late accident at the General Hospital, in continuation of my letter No. 505, dated 7th March 1866.

1 Plan.

2. The building where the accident occurred, intended for latrines and lavatories, cover a space of 41½ feet by 31½ feet, the span being too great for the beams procurable at Madras without a central bearing, the flooring and roof were partly

taken

*Proceedings of the Madras Government, Public Works Department.
24th March 1866.*

supported by two beams dove-tailed together over a central pillar as shown in plan.

3. The timber work of the roof is uninjured, the side walls remain intact, we may, therefore, conclude that the accident originated at the pillar.

4. Had the roof been completed, the weight on the pillar would have been about 22,000 lbs., or 65 lbs. per square inch, hardly one-tenth of the weight the pillar bricks might be expected to withstand.

5. The accident may have arisen from several causes, the beams may possibly have slipped off the capital, the pillar may have been imperceptibly injured in raising the beams or slightly tilted to one side; it is impossible, from merely viewing the ruins, to state anything with certainty, but I am inclined to think that the accident arose from a construction faulty but common in Madras, of building an upper pillar over a lower one with joists and terracing between.

6. In re-constructing this pillar, I shall introduce a granite slab at the base, so as to give the column a perfectly even and solid bearing over the joists.

7. Originally it was intended to build partition walls between the lavatories and latrines, but at the earnest suggestions of the Sanitary Commission zinc partitions were substituted for these, it not being considered that the safety of the building was thereby endangered.

8. But as the construction of these walls clasping the columns will give them and the rest of the building very great extra stability, I request permission to carry out the original design.

9. I understand that only one of the eight work people employed on the building at the time of the accident is seriously injured, I shall report further upon the injuries they have sustained if it be necessary to do so.

10. I have estimated that to make good the damage done will cost Rs. 300.

1. Submitted to Government for information.
2. The occurrence reported in the above letters is much to be deplored.
3. The Superintending Engineer frequently inspected the work in progress, and it seemed to be carefully and substantially built, and he leans to the view taken by Captain Beckley, that the accident arose from the upper pillar being based without a granite slab, upon joists and terrace work, the lower pillar not being continued upwards, to fill the interspaces.
4. The partition walls now ordered will render the buildings quite secure.

(Signed) A. J. M. BOILEAU, Colonel, R. E.,
Superintending Engineer, 4th Division.

No. 551.

ORDER THEREON, 24th March 1866, No. 961.

MILITARY WORKS, No. 25.

Ordered to be recorded.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Exd. S. T. Augustin.

51

No 437 Madras General Hospital
31 March 1866
From
The Surgeon, General Hospital
To
The Deputy Inspector General
of Hospitals, Presiding
Sir.
I have the honor to report
for your information & for that
of the Head of the Medical Dept.
that nine men were admitted
into the General Hospital on the
7th instant having been injured
by the roof of one of the latrines
now being built at the General Hosp.
having fallen in whilst they were
at work. I have the honor to be
1/10 Porters of Inspector General
of Hospitals
Yours most obedt Servt
J. S. Paul
Surgeon, General Hospital

The room below. 10 men
but no limbs were broken. They were
taken.

No 99.
 Forwarded to the Chief
 Secretary for the information
 of Government

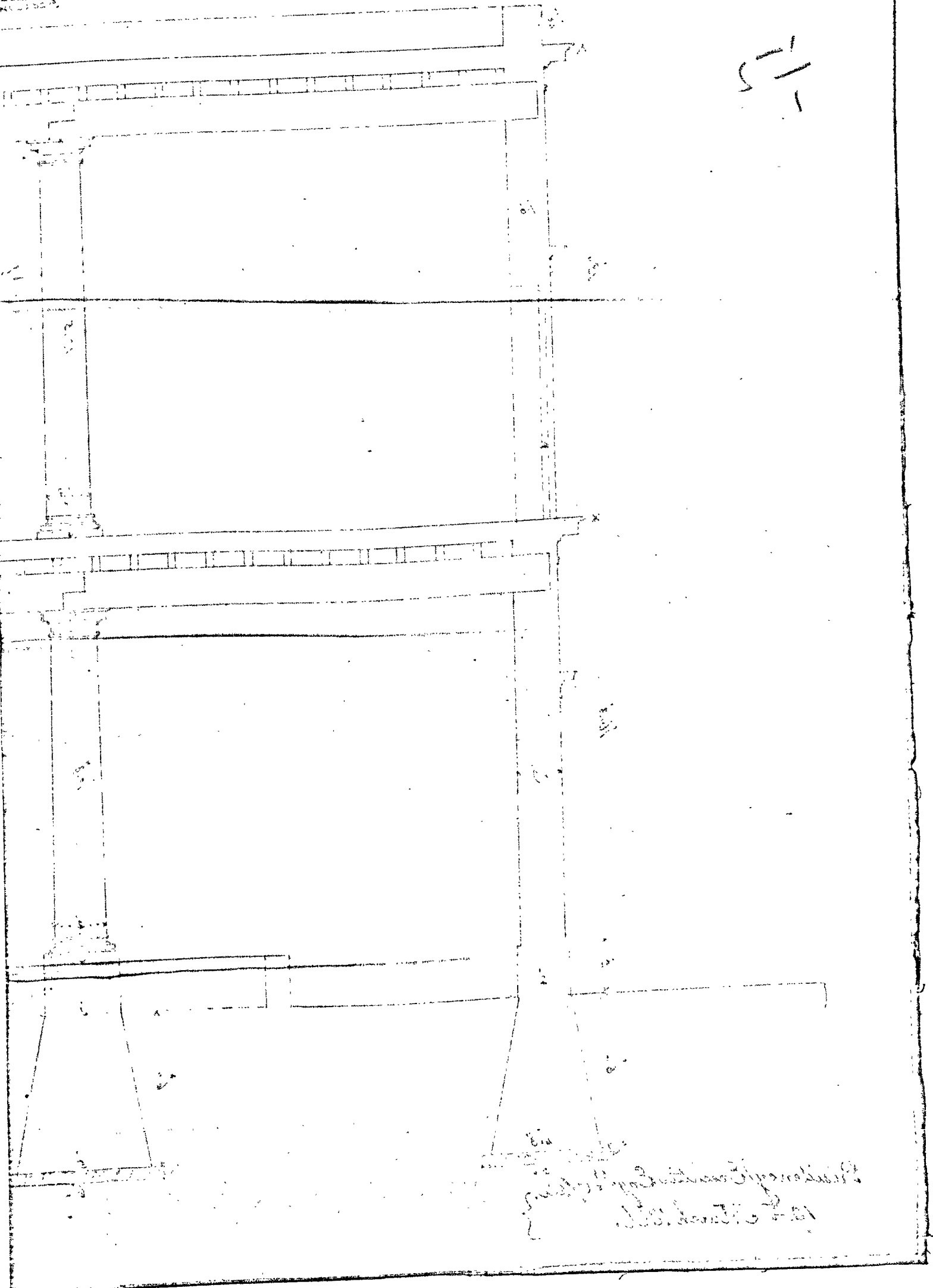
L. Shan
 Secy General of the State
 For the Secy Genl of the
 State of Georgia
 13 March 1866

Transferred to the
 Public Works Dept.
 7/3/66 by J. W. Hunt
 Chief Secretary
 No 549

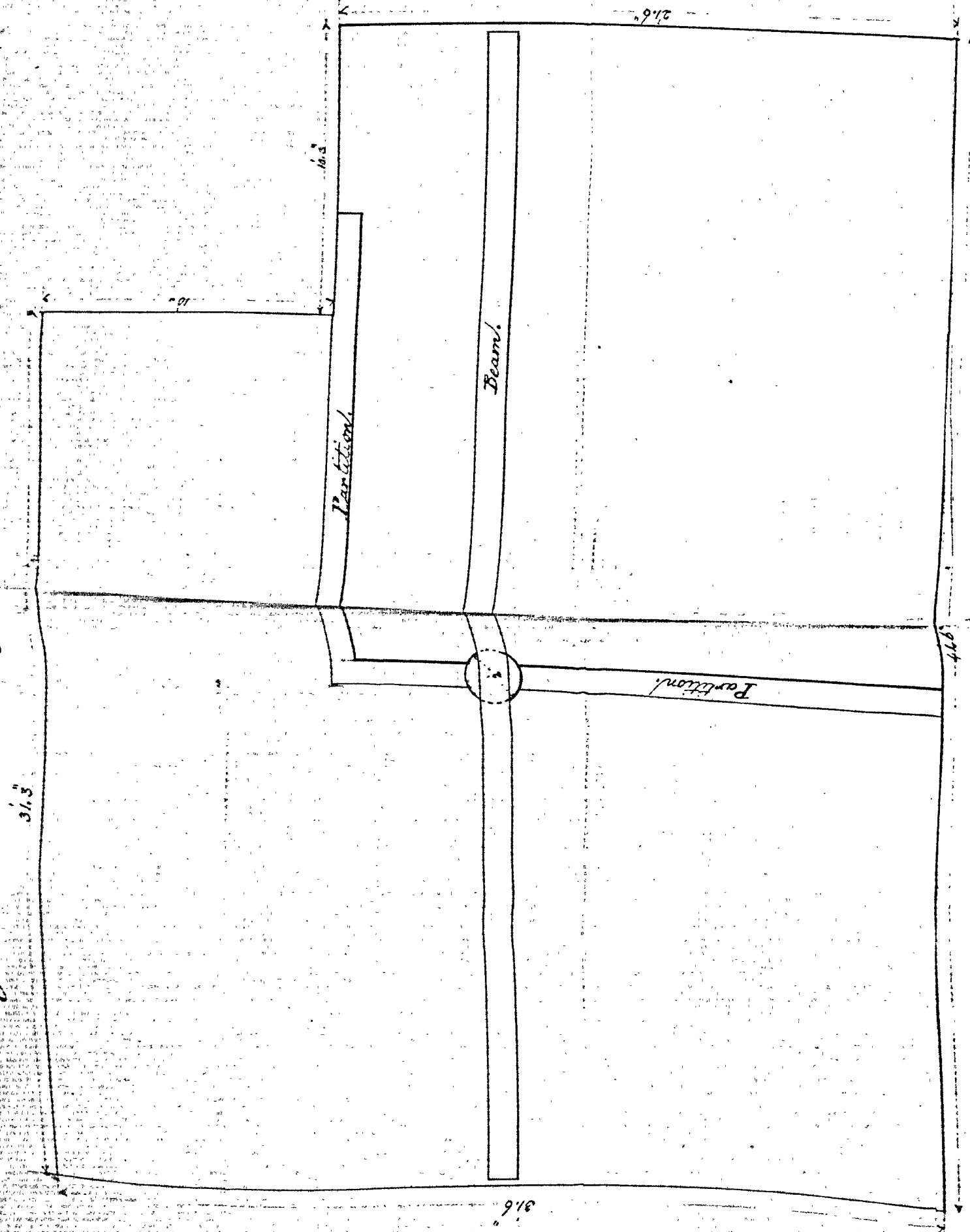
W. B. 1866 Dep. M.
 No 137 Public Dep.
 From A. 11/18
 The Surgeon, General Dep.
 dated 10 March
 Received 13
 Recd 14
 No 99 No 13 March

No 303.

Informing that nine men
 were admitted on the 13th
 having been injured by the
 roof of one of the latrines
 having fallen in whilst
 at their work
 No 961-21, 13 March 1866

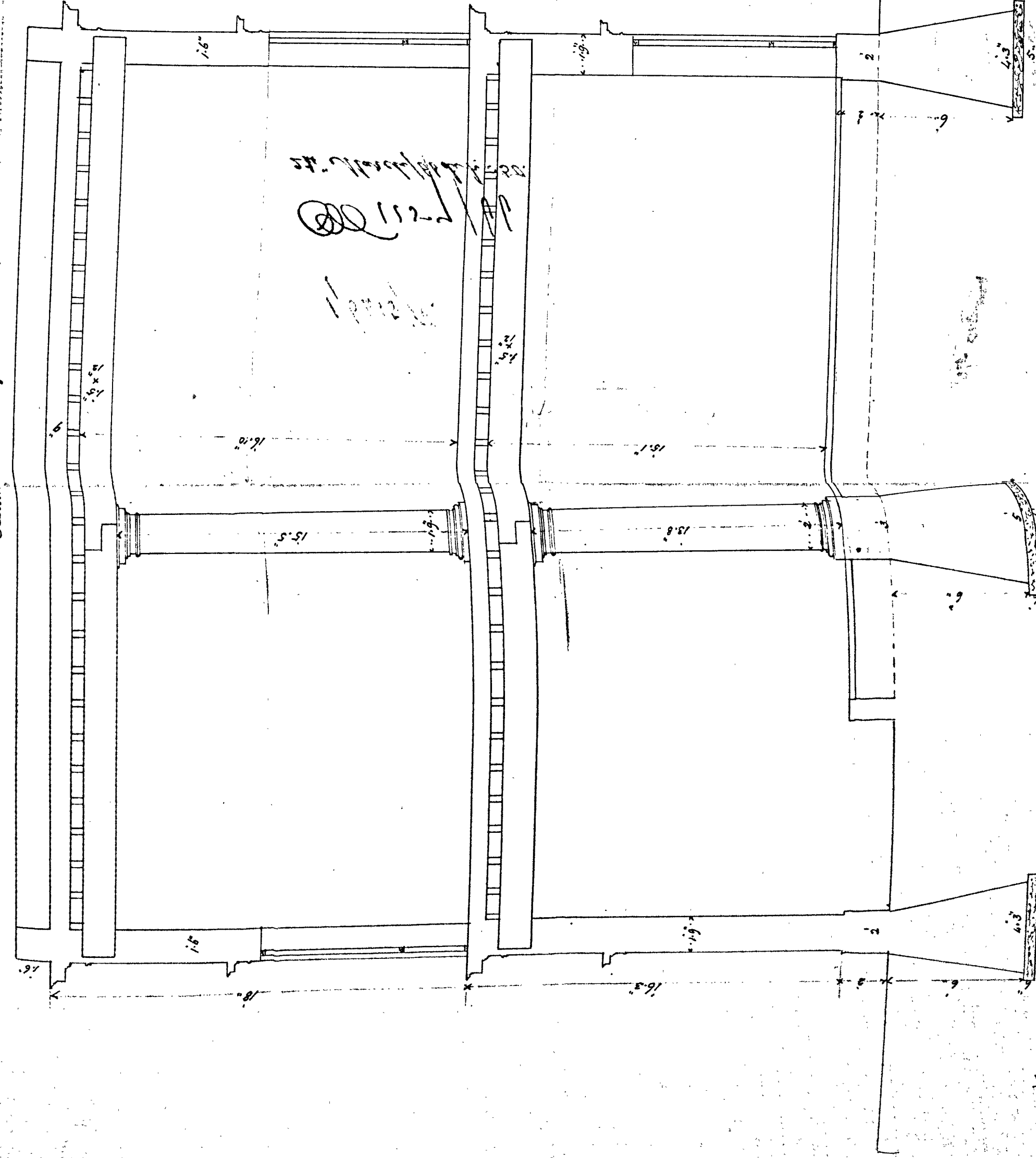


Lavatory and Latrine of the Gen. Hospital.



Scale 0 10 20 ft.

Section



Presidency Executive Engineer's Office,
10. March 1866.

J. Buckley Captain R.E.

Executive Engineer Presidency.

The room below, were Air-ventilators, but no pipes were broken. they were taken.

N^o 505. Presidency Eng^g Office Madras 7th March 1866.

71
From The Executive Engineer, Presy Southern Range,

To The Superintending Engineer, Lt. P. Ins.

Sir. I have the honor to report to you that an accident occurred yesterday at N^o 3. Latimer General Hospital now in course of construction.

2. The course of Terrace bricks having been completed on the 2^d mth yesterday morning the bricklayers commenced beating down jelly over the bricks when at about 11 o'clock ^{at 9¹⁵} the whole roof fell in, the side walls stood firm but a portion of the flooring below was broken through by the falling beams and masonry.

3. Fortunately no workpeople were seriously injured. three men and one boy employed on the roof and four men in the room below were bruised and shaken but no limbs were broken. they were taken

1/6 & 15/6
1157/66
24th March 1866 Lt. P. Ins.

taken at once to the Hospital Surge.
are about today the remaining - three
will be all right in a day or two.

4. The cost of repairing the damage
to the Building has not yet been
estimated, but will be of small amount.

5. A report of cause or probable
cause of accident will be forwarded
with as little delay as possible.

I have the honor to be.

Sr.

Your most Obedt. Servant.

J. M. Miley, Capt. R. B.

Executive Engineer Prov. S. R.

97

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N^o 509.

Try Exc. Eng^{rs} Office. S^{rs}.
Madras. 10th March 1866.

From The Executive Engineer Presidency
S. Range
To The Superintending Engineer
4th Div.

Sir,
 I have the honor to forward to you
 the following report upon the late ac-
 cident at the General Hospital in contin-
 uation of my letter N^o 505 dated 7th March
 1866.

2. The Building where the accident occurred intended for latrines and lavatories covers a space of $41\frac{1}{2}$ ft by $31\frac{1}{2}$ feet, the span being too great for the beams procurable at Madras without a central bearing, the flooring and roof were partly supported by two beams dovetailed together over a central pillar as shown in plan.

in plan.

3. The timber work of the roof is unimpaired the side walls remain intact we may therefore conclude that the accident originated at the pillar.

at 9th inst. been completed the

4. Had the roof been completed the weight on the pillar would have been about.

boat.

To. The Capt. Bay
The Lane-England
Southern Range

Dated y^e 23^d Novemb^r/66.
Recd }
AM ID
Jⁿ 505.

~~Wm. H. England~~

Receipt of ac.

Dr. J. C. Dwyer

Dear - My Dear
William George

Dated 7th Dec.
 1866.

MS 1D
12-30-55
~~MS 1D~~

Deposits of ac

survive from accident
by the fall of roof of

No 3 Volume, General Hospital.

1157/118

about 22000 lbs or 65 lbs per square inch. hardly $\frac{1}{10}$ of the weight pillar bricks might be expected to withstand.

5. The accident may have arisen from several causes the beams may possibly have slipped off the capital - the pillar may have been imperceptibly injured in raising the beams or slightly tilted to one side; it is impossible, from merely viewing the ruins, to state anything with certainty but I am inclined to think that the accident arose from a construction faulty but common in Madras of building an upper pillar over a lower one with joists and terracing between.

6. In reconstructing this pillar I shall introduce a granite slab at the base so as to give the the Column a perfectly even and solid bearing over the joists.

7. Originally it was intended to build partition walls between the lavatories and latrines but at the earnest suggestions of the Sanitary Commission zinc partitions were substituted for these, it not being considered that the safety of

of the building was thereby endangered.

8. But as the construction of these walls clasping the Columns will give them and the rest of the building very great extra stability I request permission to carry out the original design.

9. I understand that only one of the eight work people employed on the building at the time of the accident is seriously injured. I shall report further upon the injuries they have sustained if it be necessary to do so.

10. I have estimated that to make good the damage done will cost Rs. 300.

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

J. Puckley Captain R.E.

Bombay Engineer & Surveyor

N 4552

Submitted to Government for information.

2. The occurrence reported in the above letters is much to be deplored.

3. The Superintending Engineer frequently inspected the work in progress, and it seemed

to be carefully & substantially built & he
bore to the view taken by Capt Beechley
that the accident arose from the upper
pillar being based without a granite slab,
upon joists & terrace work, the lower
pillar not being continued upwards to fill
the interspaces -

4. The partition walls now ordered will
render the buildings quite secure.

S.E. Officer on
duty 19 March 1866

AP Orleans N.R.
Supt. of

From
L.H.S.

The Bureau Engineer
Prof. J. B. Co.
The Superintendent Eng.

A. S. Division

Recd 10:30
Recd 11:30 March 1866

20th 509.

Enc. 1. Plans

Recd that late
President of General
Hospital was caused
by giving away of a
pillar and request for
mission to build partition
walls.

Received of the
Bureau of the
Engineer
for the
plans of the
hospital
March 1866

4559

21st March 1966

Record

Submittings 2 letters
from the Chairman Engrs
to the Southern Railway
reporting of an accident
that occurred at the
General Hospital
by the P. & M. railway way

Dated 19th March/66:
Dated 21st March/66:
Dated 21st March/66:

For the Secretary to the
1st Div.
The Director of
the Southern Railway

1157

Concise

Public Works

Public Works Department.

174

1966

PROCEEDINGS of the MADRAS GOVERNMENT

Under date the 21st March/66 Read the following

From The P. & M. General. Road Dept. (Here enter No. 99 dated 13 Feb/66)
From The S. E. of the 7. Dec 4552- 19

Ordered
2 recorded

MA

MA

MA

MA

10

P. W. 1866. Department.

Proc. of Govt for March

No. 981

PROCEEDINGS OF GOVERNMENT. *of Madras*

Dated *24th March 1866*

Printed by the Government
of Madras
at the Government Press
Madras

Certain correspondence
on the subject of accident
at St. John's General
Hospital Madras, vers

A 349 @ 551