Archives I—10,006—6-10-76.

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(2) Date of repair 23.12.81

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. / B.P. No.	4942	Press. / Mis.
Dated	28.8.1877	197 .

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st August 1877, No. 516 W.

Buildings and Roads.
Civil Works.

5. Read the following paper:—

SPECIFICATION REPORT FOR FIXING LIGHTNING CONDUCTORS TO MAGAZINES.

On the ridge, eaves, and gables, at the points marked in the plan, insert d firmly secure with best cement wooden bricks, as per plan H J, to receive the nductors.

Prepare copper plates 3″ × $\frac{1}{8}$″ for ridge marked F on plan to fit the curve of the lge; lap, rivet, and solder to saddle plates C C 12″ × 6″ × $\frac{1}{8}$″ at the apex of each ble, rivet and solder copper blocks B 3″ × 3″ × 3″ tapped to receive upright copper ds A; lap, rivet, and solder copper plates D E 3″ × $\frac{1}{8}$″ to run down the gables and ves as shown in plan, lap well all joints, rivet and solder securely, bore screw-holes, d screw the whole to the wooden bricks with copper 2$\frac{1}{2}$″ screws.

Fix the two copper rods on the apex of the ridge marked A in plan 5 feet in height 1″ diameter, upper end armed with 4 or 5 finer small spread-out points, lower d tapped 2$\frac{1}{2}$ inches, screw home tapped end and solder these rods to the tapped pper blocks B, rivet and solder to upright rods and ridge copper plate 1″ × $\frac{1}{8}$″ stay or ut A[1]. Lap, rivet, and solder copper ties A[2] 1″ × $\frac{1}{8}$″ to saddle plates C C at apex each gable, screw to wooden bricks immediately below apex of each gable, and other ooden bricks on ridge and eaves.

To fix copper earth conducting [illegible] 1″ diameter on [illegible] side of the centre the building, split the copper rod [illegible] at both ends, insert copper eaves plates to upper split end, rivet and solder, connect wire rope to [illegible] staple of the door and tach with copper hook and eye to wire running on surface of the ground, and solder conducting rod; run the copper conducting rod with no break of contact, into ell 4 feet deep × 3 feet diameter, insert in the other split end copper harrow plates, vet and solder to copper harrow. The harrow should consist of strips of copper broad × $\frac{1}{8}$″ thick, arranged as shown in drawing, 21″ square, all joints rivetted d soldered with earth points running through centres at their junctions, these ould be pins of copper $\frac{1}{4}$″ thick and 6″ [illegible], the harrow points being well embedded the earth, the well should be filled [illegible] with charcoal or coke (or other carbonic bstance) and then covered with gravel [illegible] th.

No. 6. ORDER THEREON, 1st August 1877, No. 516 W.

ORDERED that the plan and the specification prepared by the Deputy Chief Engineer be lithographed and printed for distribution to District Engineers and to other Departments of Government for future adoption as a standard design.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.

To District Engineers.
,, Departments of Government.
,, the Consulting Architect.

Rev Deptt

Chief of Police

2878

Exd. A. Grubert.

5 Spare Copies

Revenue Department
No 3822

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1877} Madras.

PUBLIC WORKS.

To

DISTRICT ENGINEERS,
&c., &c., &c.

Dated August 1st.

Issued

Recd. 28 August *Encl.* 1 Plan

G. O., 1st August 1877, No. 516 W.

AUGUST.

Nos. 5-6.

Standard Design for Lightning Conductors to Magazines.—The plan and specification prepared by the Deputy Chief Engineer, ordered to be lithographed and printed for distribution and future adoption as the —.

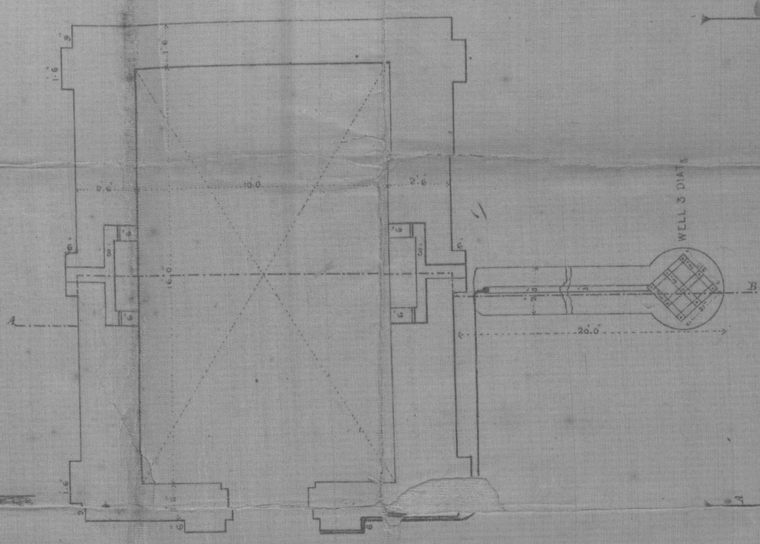
No 4962
Comm^r to the
Board of Revenue
28 Augt 77

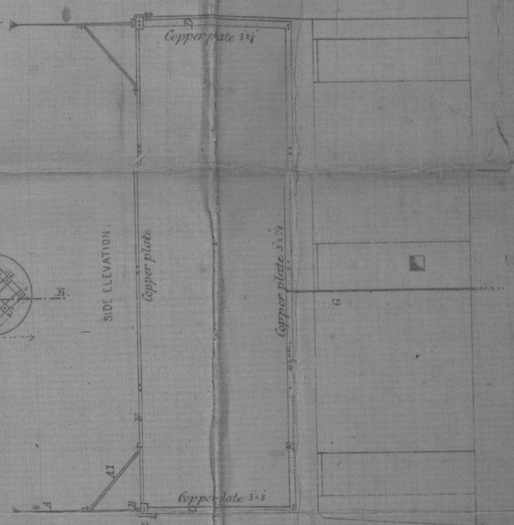
Rev 3822/77

PLAN ELEVATION AND SECTIONS

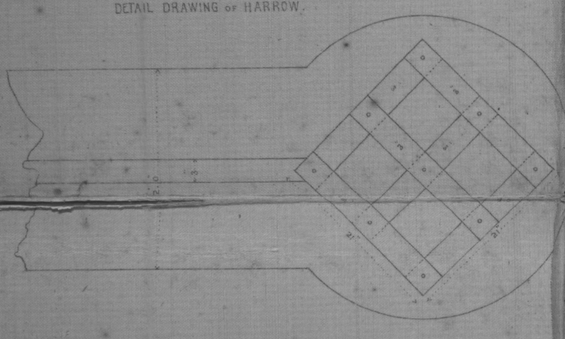
OF A MAGAZINE SHEWING MODE OF ATTACHING LIGHTNING CONDUCTORS.

FRONT ELEVATION.

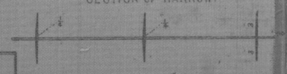




DETAIL DRAWING OF HARROW.



SECTION OF HARROW.



SECTION THRO' A.B.



REFERENCE.
A. Copper rod 5 high tapered, screwed and soldered 3/8x2 - 3/8 B 3x1x3
A1. Copper struts riveted and soldered 3/8 thick 3 and 1 broad.
A2. Saddle C with copper tie 1 x1 x1/8 screwed to wooden brick in front of gable.
B. Socket tapped to receive conducting rod and soldered to saddle C 1/2 x6 x1/8
C. Saddle of copper 12 x6 x1/8
D. Gable plates. 5 x1/8
E. Eave's plates 3 x1/8
F. Ridge plate 3 x1/8
G. Earth conductors. 1 Distr.
H. Wooden brick for eaves. 9 x4 x3
J. Wooden block for ridge. 6 x4 x3

Note.

Trenches to be filled up with coal ashes or other carbonic substance and then covered with gravel or earth.

Scale of 1-4.

0 4 8 12 Feet

Wm. Baldrey

Supt and Manger
Govt Instl Dept Fort St George.
Madras June 1877.

Chief Engrs Office
Fort St George
14th May 1877

'By Order'

Colonel
Dept Chief Engr