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# MIL NADU ARCHIVES

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## ERNMENT OF TAMIL NADU

## PUBLIC WORKS DEPARTMENT

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|---|---|
| **G.O. No.** 435.W. | **Press.** |
| **B.P. No.** | ~~**Mis.**~~ |
| **Dated** 26-2-1880. | **19~~7~~ .** |

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## GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

26th February 1880, No. 435 W.

**Buildings and Roads.**
**Civil Works.**

Read the following papers :—

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 60. | From the Consg. Architect to Govt., | dated | 20th Jan. | 1879, | No. | 519. |
| No. 60-A. | Do. | do. | „ | 3rd March | „ | „ | 578. |
| No. 60-B. | Do. | do. | „ | 28th Nov. | „ | „ | 531. |
| No. 60-C. | Do. | do. | „ | 16th Jan. | 1880, | „ | 578. |
| No. 60-D. | Do. | do. | „ | 3rd Feb. | „ | „ | 594. |
| No. 60-E. | Do. | do. | „ | 16th „ | „ | „ | 609. |

No. 61. ORDER THEREON, 26th February 1880, No. 435 W.

THE Government approve the standard designs for Police Stations submitted by the Consulting Architect and direct their adoption in supersession of all previous designs for such buildings.

2. The designs will be lithographed and the specification and estimate of quantities printed and circulated for the information of the department.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To all Superintending Engineers.
„ the Consulting Architect.
„ the Judicial Department.

Exd. E. C. Shunker.
Spare Copies

10-2—26

BUILDINGS AND ROADS
CIVIL WORKS.

Govt. of {1880} Madras.

PUBLIC WORKS.

To

ALL SUPERINTENDING ENGINEERS,

&c., &c., &c.

*Dated February, 26th.*

*Issued*

*Recd.*

*Encl.*

*G. O., 26th February* 1880, *No.* 435 W.

FEBRUARY.
Nos. 60-61.

*The standard designs for Police Stations* submitted by the Consulting Architect approved, and ordered to be adopted in supersession of all previous designs for such buildings.

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2

## DEPARTMENT PUBLIC WORKS.

### POLICE STATIONS.

*Specification of Works to be performed in executing the Standard Designs of Police Stations, Drawings* 1, 2 *and* 3, *signed by the Consulting Architect on the* 15*th January* 1880.

### EXCAVATOR.

*Clearing Site.*—Take down any existing building on the site stacking such materials as it may be desired to use again.

Slips and baling.

*Excavation.*—After the centre lines have been pegged and lined, set out on either side of the lines half the total breadth of the foundations and excavate to the depth or depths shown on the drawing, or to such depth as the officer in charge of the works may direct. If slips occur during the progress of the works, clear the material away and bale any water lodging in the trenches from a hole or holes made without the limits of the same.

*Ramming.*—After the officer in charge of the work has seen that the trenches are the full and proper widths and depths well ram the bottom with heavy beaters for the after reception of the concrete.

### BRICKLAYER.

Brickwork.

Lay over the full breadth of the foundations about 9" of concrete as hereinafter specified and well ram with heavy beaters to a thickness of about 6". After the first layer has been consolidated, lay a second, and execute as before. The completed concrete should be about 12" thick, mark out carefully the centre lines and lay off the thickness of the first footing course. The steps of brickwork should be two courses high and not more than half a brick broad; when the bricks are very inferior it would be advisable to make each offset three bricks high.

The brickwork will be executed in sound material, and care will be taken to insert during the progress of the work the door frames, nogs and brackets for the arm-racks, &c.

Loop holes of the form and dimensions shown on the drawing will be left in the walls. After the masonry is set build in with half a brick in mud and plaster all flush on the outside.

The walls will be a brick and a half thick, not less than 1′ 1½″ or greater than 1′ 5′, the quantities allow 1′ 3″.

*Splays.*—The openings will be splayed as shown on the plan.

*Arching.*—The heads of the openings will be covered by segmental arches built in concentric rings clear of the frame.

The space between the arch and the top of the frame will be carefully closed in after the brick work has settled down.

*Bond.*—The bond should be English if possible.

*Stones.*—Fix the stones under the yerandah posts, also those under the beam, and fasten properly all wood supplied by the carpenter.

### STONE MASON.

Provide and dress two lines, No. 6 stones 1′×1′×4″ with mortice holes 2″ square and 2″ deep to receive the posts.

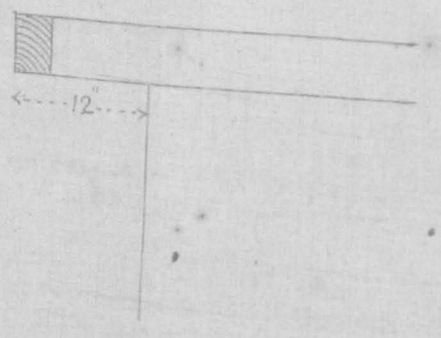
Provide and dress one line, No. 2 stones 1′ 3″×2′×4″ for the beam.

Provide and dress two lines, the steps shown on the drawing tailing each stone not less than 3″.

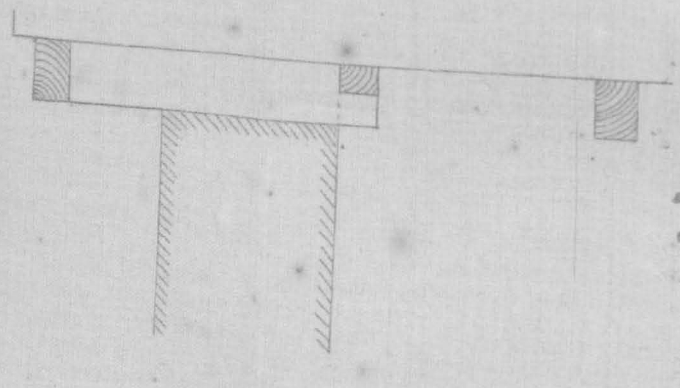
### CARPENTER.

NOTE.—*Vary this clause according to class.*—Supply a beam 17′ 3″×9″×12″, supply joists 5″×3″, supply door frames, window frames and ventilators as shown on the drawing neatly rebated and morticed in a workmanlike manner.

Halve the joists into the beam to the extent of half an inch and add temporary struts to keep the joists evenly apart until the terrace has settled. The longitudinal joists will project over the wall to the extent of 12″ including the waling piece.

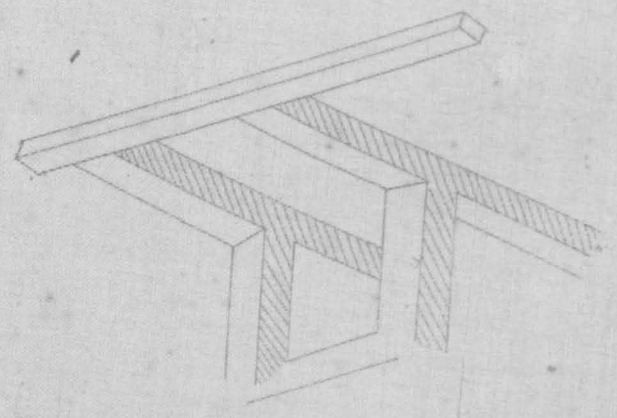


small cantilevers will be arranged along the longitudinal walls halved under the longitudinal joists nearest the wall as shown on the drawing.

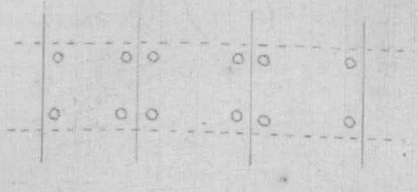


Support all the woodwork during the execution of the terrace and slightly ease the wedges as the work progresses, allow the supports to remain for three weeks after the completion of the terrace.

The ventilators have no top rail; they are held apart by the longitudinal waling piece spiked to the ends of the joists.



Provide and fix arm-racks in strict accordance with the dimensions set forth on the drawing. Supply frames for the doors with shoulders to be built in the masonry in the ordinary way. Provide strong batten doors made of three-quarters of an inch planks horizontal and vertical well held together with palm treenails four to each crossing cut in suitable positions clear of joints and of the holes for firing through. Provide strong fastenings and iron bars on the inside of each opening.

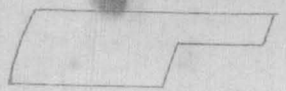


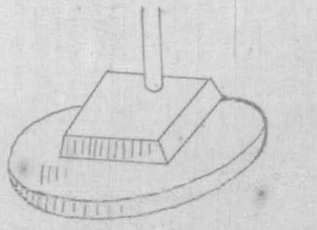
(Here specify whether the woodwork is to be painted or oiled. Painting in Carson's oak color being preferable for all wood exposed to the weather.)

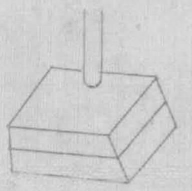
### FLOOR.

Fill in plinth with earth (specify sand if procurable), well ram the same, put down a layer of old broken rubbish about 6″ thick under the tiling and bring all to an even surface for the reception of the tiles. Lay a tiled floor of 6″ square tiles.

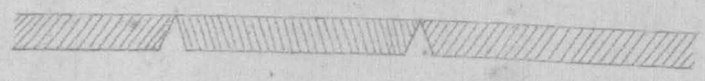
*N.B.*—The ordinary tiles may be greatly improved at a very little extra cost in the following manner:—Mould in slop work in the ordinary way and allow to dry until the earth just receives the impression of the finger pressed upon it generally from 48 to 72 hours. Then beat with a wooden mallet on a hard surface to about an inch thickness from say $1\frac{1}{2}$″; provide a template the size of the tile required and cut with sloping sides.



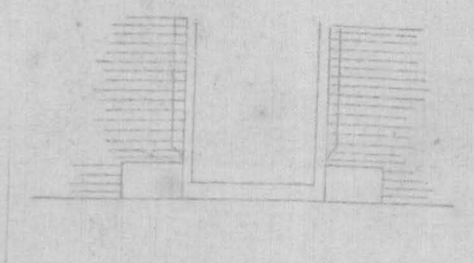




when laid the underside should be turned up thus—



the texture of the earth being closure will require heavier firing. When stone is cheap it will add much to the durability of the building to curb the verandah with stone and to place stone at the bottom of all openings.



### TERRACE.

Lay over ordinary terrace brick in mortar 9″ of broken material at the sides and 12″ in the centre beat down to 6″ and 8″ beat mortar on the top of this and finish off (here specify the particular method employed in the district).

## IRONMONGER.

Provide iron doors as shown on the drawing neatly rivetted, bolted or screwed as the case may be.

Provide for the entrance a rim lock with a key hole on either side, the other iron gratings may be padlocked.

## PLASTERER.

Plaster the whole of the interior and exterior with two coats of plaster making the last coat sufficiently smooth for the after reception of wash.

Wash the interior and exterior with two coats of wash well sized.

The general tint of the interior should be composed of

40 parts lime.
1 part yellow ochre.

This tint should be used on the parts marked A exterior, those marked B should be washed with

200 parts lime.
8 " yellow ochre.
2 " red ochre.
1 p[illegible] lamp black.

The imita[illegible]on arch bricks marked C

20 parts lime.
5 " yellow ochre.
20 " red ochre.

The colors may be renewed from year to year and will always have a neat and finished appearance.

## MATERIALS.

The bricks will be cast in a mould well burnt and free from defects.

The timber will be well seasoned, sound and free from defects.

The lime will be collected at properly burnt and slaked.

The sand will be collected at

The ironwork will be procured from the Government workshops.

CHEPAUK,
15th January 1880.

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

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ESTIMATE of the Cost of constructing a First-class Police Station-house according to Standard Design No. 1, dated 15th January 1880.

*Detailed Quantities.*

| Description of Work. | No. | Length. | | Breadth. | | Depth. | | Contents. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| | | FT. | IN. | FT. | IN. | FT. | IN. | | |
| *Excavation for Foundations.* | | | | | | | | | |
| Outer walls ... ... ... ... | ... | 112 | 0 | 4 | 0 | 3 | 0 | 1,344 | |
| Partitions ... ... ... ... | 2 | 12 | 3 | 4 | 0 | 3 | 0 | 294 | |
| Do. ... ... ... ... | 1 | 6 | 3 | 3 | 6 | 3 | 0 | 66 | |
| Verandah walls ... ... ... ... | ... | 48 | 3 | 3 | 6 | 3 | 0 | 507 | |
| Steps ... ... ... ... ... | ... | 11 | 6 | 3 | 0 | 1 | 6 | 52 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 2,263 | |
| Cubic yards ... | ... | ... | | ... | | ... | | ... | 84 |
| *Earthfilling in Basement.* | | | | | | | | | |
| Guard-room ... ... ... ... | 1 | 18 | 0 | 15 | 0 | 1 | 6 | 405 | |
| Lock-up ... ... ... ... | 1 | 9 | 0 | 15 | 0 | 1 | 6 | 203 | |
| Do. and Inspectors ... ... | 2 | 9 | 0 | 7 | 1½ | 1 | 6 | 192 | |
| Verandah ... ... ... ... | 1 | 37 | 0 | 6 | 3 | 1 | 6 | 347 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 1,147 | |
| Cubic yards ... | ... | ... | | ... | | ... | | ... | 43 |
| *Concrete 12 inches thick.* | | | | | | | | | |
| Excavation 2,211 cubic feet ÷ 3 = | ... | ... | | ... | | ... | | 737 | |
| Steps ... ... ... ... ... | 1 | 11 | 6 | 3 | 0 | 1 | 0 | 35 | |
| Cubic feet .. | ... | .. | | ... | | ... | | 772 | |
| *Brickwork in Foundations Footings.* | | | | | | | | | |
| Outer walls ... ... ... ... | ... | 112 | 0 | 2 | 3 | 1 | 6 | 378 | |
| Partitions ... ... ... .. | 2 | 14 | 0 | 2 | 3 | 1 | 6 | 95 | |
| Do. ... ... ... ... | 1 | 8 | 0 | 1 | 9 | 1 | 6 | 21 | |
| Verandah walls ... ... ... ... | ... | 50 | 0 | 1 | 9 | 1 | 6 | 131 | |
| Above footings to ground level— | | | | | | | | | |
| Outer walls ... ... ... | ... | 112 | 0 | 1 | 3 | 0 | 6 | 70 | |
| Extra thickness for plinth ... | ... | 79 | 6 | 0 | 3 | 0 | 6 | 10 | |
| Partitions ... ... ... ... | 2 | 15 | 0 | 1 | 3 | 0 | 6 | 19 | |
| Do. ... ... .. ... | 1 | 9 | 0 | 0 | 9 | 0 | 6 | 3 | |
| Verandah walls ... ... ... | ... | 51 | 0 | 0 | 9 | 0 | 6 | 19 | |
| Steps ... ... .. ... | 1 | 11 | 6 | 3 | 0 | 0 | 6 | 17 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 763 | |
| *Brickwork in Basement.* | | | | | | | | | |
| Outer walls ... ... ... ... | ... | 112 | 0 | 1 | 3 | 2 | 0 | 280 | |
| Extra thickness for plinth ... ... | ... | 79 | 6 | 0 | 3 | 2 | 0 | 40 | |
| Partitions ... ... ... ... | 2 | 15 | 0 | 1 | 3 | 2 | 0 | 75 | |
| Do. ... ... ... ... | 1 | 9 | 0 | 0 | 9 | 2 | 0 | 14 | |
| Verandah walls ... ... ... ... | ... | 51 | 0 | 1 | 9 | 2 | 0 | 77 | |
| Steps ... ... ... ... ... | 1 | 11 | 6 | 3 | 0 | 0 | 6 | 17 | |
| Do. ... ... ... ... ... | 1 | 9 | 6 | 2 | 0 | 0 | 6 | 10 | |
| Do. ... ... ... ... ... | 1 | 7 | 6 | 1 | 0 | 0 | 6 | 4 | |
| | | | | | | | | | 517 |
| Deduct stone in steps ... ... ... | ... | ... | | ... | | ... | | ... | 21 |
| Cubic feet ... | ... | ... | | ... | | ... | | ... | 496 |

*Detailed Quantities—cont.*

| Description of Work. | No. | Length. | | Breadth. | | Depth. | | Contents. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| | | FT. | IN. | FT. | IN. | FT. | IN. | | |
| *Brickwork in Superstructure.* | | | | | | | | | |
| Outer walls ... ... ... ... | ... | 112 | 0 | 1 | 3 | 12 | 0 | 1,680 | |
| Partitions ... ... ... ... | 2 | 15 | 0 | 1 | 3 | 12 | 0 | 450 | |
| Do. ... ... ... ... | 1 | 9 | 0 | 0 | 9 | 12 | 0 | 81 | |
| Parapet ... ... ... ... | ... | 115 | 0 | 0 | 6 | 0 | 9 | 43 | 2,254 |
| *Deductions.* | | | | | | | | | |
| Doors ... ... ... ... ... | 2 | 3 | 9 | 1 | 3 | 6 | 6 | 61 | |
| Do. ... ... ... ... ... | 4 | 2 | 9 | 1 | 3 | 6 | 0 | 83 | |
| Windows ... ... ... ... | 1 | 3 | 0 | 1 | 3 | 4 | 0 | 15 | |
| Ventilators ... ... ... ... | 12 | 4 | 9 | 1 | 3 | 1 | 6 | 107 | |
| Archwork as per details below... ... | ... | ... | | ... | | ... | | 33 | 299 |
| Cubic feet ... | ... | ... | | ... | | ... | | ... | 1,955 |
| *Archwork.* | | | | | | | | | |
| Segmental arch over doors ... ... | 2 | 4 | 6 | 1 | 3 | 1 | 0 | 33 | |
| Do. do. ... ... | 4 | 3 | 6 | 1 | 3 | 1 | 0 | | |
| Do. over windows ... ... | 1 | 3 | 6 | 1 | 3 | 1 | 0 | | |
| Cubic feet ... | ... | ... | | ... | | ... | | 33 | |
| *Stonework if easily procured.* | | | | | | | | | |
| Steps ... ... ... ... ... | ... | 34 | 0 | 1 | 3 | 0 | 6 | 21 | C. ft. |
| *Teakwood.* | | | | | | | | | |
| Posts ... ... ... ... ... | 6 | 0 | 5 | 0 | 5 | 7 | 9 | 8 | |
| Brackets... ... ... ... ... | 12 | 1 | 1 | 0 | 4 | 0 | 10 | 4 | |
| Breastsummer ... ... ... ... | ... | 42 | 0 | 0 | 5 | 0 | 7 | 10 | |
| Joists for verandah ... ... ... | 29 | 9 | 0 | 0 | 3 | 0 | 5 | 27 | |
| Beam ... ... ... ... ... | 1 | 17 | 3 | 0 | 9 | 1 | 0 | 13 | |
| Joists ... ... ... ... ... | 11 | 31 | 6 | 0 | 3 | 0 | 5 | 36 | |
| Do. ... ... ... ... ... | 12 | 12 | 6 | 0 | 3 | 0 | 5 | 16 | |
| Waling pieces ... ... ... ... | 2 | 43 | 0 | 0 | 3 | 0 | 5 | 9 | |
| Do. ... ... ... ... | 2 | 19 | 6 | 0 | 3 | 0 | 5 | 4 | |
| Cantilevers ... ... ... ... | 54 | 2 | 3 | 0 | 3 | 0 | 5 | 12 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 139 | |
| *Iron Doors.* | | | | | | | | | |
| Inner doors ... ... ... ... | 4 | 2 | 9 | ... | | 6 | 0 | 66 | Sq. ft. |
| *Teak Batten Doors with Frames and Fastenings.* | | | | | | | | | |
| Outer doors ... ... ... ... | 2 | 3 | 9 | ... | | 6 | 6 | 49 | Sq. ft. |
| Batten window ... ... ... ... | 1 | 3 | 0 | ... | | 4 | 0 | 12 | Do. |
| *Ventilators, wooden frames, and venetians and iron bars.* | 12 | 4 | 9 | ... | | 1 | 6 | 86 | Do. |
| *Stones under posts* 1′ × 1′ × 4″ ... | .... | 6 in number. | | | | ... | | ... | |
| *Stones under beams* 1¼′ × 2′ × 4″ ... | ... | 2 in number. | | | | ... | | ... | |

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*Detailed Quantities—cont.*

| Description of Work. | No. | Length. | | Breadth. | | Depth. | | Contents. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| | | FT. | IN. | FT. | IN. | FT. | IN. | | |
| *Mouldings over exterior openings.* | | | | | | | | | |
| Doors ... ... ... ... ... | 2 | 5 | 0 | ... | | ... | | 10 | |
| Window ... ... ... ... | 1 | 4 | 6 | ... | | ... | | 4½ | |
| Lineal feet ... | ... | .. | | ... | | ... | | 14½ | |
| *Plastering interior and washing.* | | | | | | | | | |
| Guard-room ... ... ... ... | ... | 66 | 0 | ... | | 12 | 0 | 792 | |
| Lock-up ... ... ... ... | ... | 48 | 0 | ... | | 12 | 0 | 576 | |
| Do. and Inspectors ... ... ... | 2 | 32 | 3 | ... | | 12 | 0 | 774 | |
| Door jambs ... ... ... ... | 2 | 17 | 0 | ... | | 1 | 3 | 43 | |
| Do. ... ... ... ... | 4 | 15 | 0 | ... | | 1 | 3 | 75 | |
| Window jambs ... ... ... ... | 1 | 14 | 0 | ... | | 1 | 3 | 18 | |
| Ventilator do. ... ... ... | 12 | 7 | 9 | ... | | 1 | 3 | 116 | 2,394 |
| *Deductions.* | | | | | | | | | |
| Doorway ... ... ... ... | 2 | 3 | 9 | ... | | 6 | 6 | 49 | |
| Do. ... ... ... 2 × ... | 4 | 2 | 9 | ... | | 6 | 0 | 132 | |
| Window ... ... ... ... | 1 | 3 | 0 | ... | | 4 | 0 | 12 | |
| Ventilators ... ... ... ... | 12 | 4 | 9 | ... | | 1 | 6 | 86 | 279 |
| Square feet ... | ... | ... | | ... | | ... | | ... | 2,115 |
| Squares ... | ... | ... | | ... | | ... | | ... | 21·15 |
| *Plastering exterior and washing.* | | | | | | | | | |
| Basement ... ... ... ... | ... | 132 | 6 | ... | | 2 | 0 | 265 | |
| Superstructure ... ... ... ... | ... | 117 | 0 | ... | | 12 | 0 | 1,404 | |
| Parapet ... ... ... ... | ... | 117 | 0 | ... | | 5 | 3 | 614 | 2,283 |
| *Deductions.* | | | | | | | | | |
| Doors ... ... ... ... ... | 2 | 3 | 9 | ... | | 6 | 6 | 49 | |
| Window ... ... ... ... | 1 | 3 | 0 | ... | | 4 | 0 | 12 | |
| Ventilators ... ... ... ... | 12 | 4 | 9 | ... | | 1 | 6 | 86 | 147 |
| Square feet ... | ... | ... | | ... | | ... | | ... | 2,136 |
| Squares ... | ... | ... | | ... | | ... | | ... | 21·36 |
| *Terracing.* | | | | | | | | | |
| Main building ... ... ... ... | ... | 19 | 6 | ... | | 43 | 0 | 839 | |
| Verandah ... ... ... ... | ... | 8 | 0 | ... | | 41 | 0 | 328 | |
| Square feet ... | ... | ... | | ... | | ... | | 1,167 | |
| Squares ... | ... | ... | | ... | | ... | | ... | 11·67 |
| *Flooring with Square Tiles.* | | | | | | | | | |
| Guard-room ... ... ... ... | 1 | 15 | 0 | ... | | 18 | 0 | 270 | |
| Inspector's room ... ... ... | 1 | 7 | 1½ | ... | | 9 | 0 | 64 | |
| Verandah ... ... ... ... | 1 | 38 | 6 | ... | | 7 | 0 | 270 | |
| Door pieces ... ... ... ... | 2 | 3 | 9 | ... | | 1 | 3 | 13 | |
| Do. ... ... ... ... | 1 | 2 | 9 | ... | | 1 | 3 | | |
| Do. ... ... ... ... | 3 | 2 | 9 | ... | | 0 | 7½ | 5 | |
| Square feet ... | ... | ... | | ... | | ... | | 622 | |
| Squares ... | ... | ... | | ... | | ... | | ... | 6·22 |

*Detailed Quantities—cont.*

| Description of Work. | No. | Length. | | Breadth. | | Depth. | | Contents. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| *Flooring with jelly 6 inches thick and painting over with a composition of 1 lb. of asphalte to 5 lbs. of tar.* | | FT. | IN. | FT. | IN. | FT. | IN. | | |
| Lock-up ... ... ... ... ... | 1 | 15 | 0 | ... | | 9 | 0 | 135 | |
| Do. ... ... ... ... | 1 | 7 | 1½ | ... | | 9 | 0 | 64 | |
| Door pieces ... ... ... ... | 3 | 2 | 9 | ... | | 0 | 7½ | 5 | |
| Square feet ... | ... | ... | | ... | | ... | | 204 | |
| Squares ... | ... | ... | | ... | | ... | | ... | 204 |
| *Painting with three coats of Carson's Oak Color.* | | | | | | | | | |
| Doors ... ... ... ... 2 × | 2 | 3 | 9 | ... | | 6 | 6 | 98 | |
| Do. ... ... ... ... 2 × | 4 | 2 | 9 | ... | | 6 | 0 | 132 | |
| Window ... ... ... 2 × | 1 | 3 | 0 | ... | | 4 | 0 | 24 | |
| Ventilators with venetians ... 3 × | 12 | 4 | 9 | ... | | 1 | 6 | 257 | |
| Posts ... ... ... ... ... | 6 | 1 | 8 | ... | | 7 | 6 | 75 | |
| Breastsummers ... ... ... ... | ... | 38 | 6 | ... | | 2 | 0 | 77 | |
| Joists ... ... ... ... ... | 29 | 8 | 0 | ... | | 1 | 1 | 251 | |
| Beam ... ... ... ... ... | 1 | 15 | 0 | ... | | 2 | 9 | 41 | |
| Joists ... ... ... ... ... | 11 | 25 | 0 | ... | | 1 | 1 | 680 | |
| Do. ... ... ... ... ... | 12 | 10 | 0 | ... | | 1 | 1 | | |
| Waling pieces ... ... ... ... | 2 | 43 | 0 | ... | | 1 | 1 | | |
| Do. ... ... ... ... | 2 | 19 | 6 | ... | | 1 | 1 | | |
| Cantilevers ... ... ... ... | 54 | 2 | 0 | ... | | 1 | 1 | | |
| Square feet ... | ... | ... | | ... | | ... | | 1,635 | |
| Squares ... | ... | ... | | ... | | ... | | ... | 16·35 |
| Arm-racks for ten rifles ... ... | ... | 7 Lineal feet. | | | | | | | |
| Pegs for accoutrements... ... ... | ... | 12 in number. | | | | | | | |
| Moveable shelf for Inspector's room ... | ... | 1 in number. | | | | | | | |

## ABSTRACT.

| Quantity. | Item. | Rate. | Per. | Amount. |
|---|---|---|---|---|
| | | RS. A. P. | | RS. A. P. |
| 84 C. yds. | Excavation for foundations ... | | | |
| 43 ,, | Earthfilling in basement ... | | | |
| 772 C. ft. | Concrete ... ... ... ... | | | |
| 763 ,, | Brickwork in foundations ... | | | |
| 496 ,, | Do. in basement ... ... | | | |
| 1,955 ,, | Do. in superstructure ... | | | |
| 33 ,, | Archwork ... ... ... ... | | | |
| 21 ,, | Cut stone work in steps (if easily procured). | | | |
| 139 ,, | Teakwood wrought and put up ... | | | |
| 66 S. ft. | Iron inner doors ... ... ... | | | |
| 49 ,, | Teak batten door with frames complete. | | | |
| 12 ,, | Batten window ... ... ... | | | |

3214

ABSTRACT—*cont.*

| Quantity. | Item. | Rate. | Per | Amount. |
|---|---|---|---|---|
| | | RS. A. P. | | RS. A. P. |
| 86 S. ft. | Ventilators with venetians and iron bars. | | | |
| 6 No. | Stones under posts ... ... | | | |
| 2 ,, | Do. under beam ... ... | | | |
| 14½ L. ft. | Moulding over exterior opening... | | | |
| 21·15 Squares. | Plastering interior and washing. | | | |
| 21·36 ,, | Do. exterior do. ... | | | |
| 11·67 ,, | Terracing ... ... ... | | | |
| 6·22 ,, | Flooring with square tiles ... | | | |
| 2·04 ,, | Flooring wards with jelly 6 inches thick and painting with tar and asphalte composition. | | | |
| 16·35 ,, | Painting with three coats of Carson's oak color. | | | |
| 7 L. ft. | Arm-rack for ten rifles ... ... | | | |
| 12 Nos. | Pegs for accoutrements ... ... | | | |
| 1 No. | Moveable shelf for Inspector's room. | | | |
| | Contingencies at 5 per cent. ... | | | |
| | Total ... | | | |

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

MADRAS,
28th January 1880.

(Signed) T. K. GUTHRIE, Major,
Ag. Asst. Inspector-General,
*for* Inspector-General of Police.

## Estimate of the Cost of constructing a Second-class Police Station-house according to Standard Design No. 2, dated 15th January 1880.

*Detailed Quantities.*

| Description of Work. | No. | Length. | | Breadth. | | Depth. | | Contents. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| | | FT. | IN. | FT. | IN. | FT. | IN. | | |
| *Excavation for Foundations.* | | | | | | | | | |
| Outer walls ... ... ... ... | ... | 100 | 0 | 4 | 0 | 3 | 0 | 1,200 | |
| Partitions ... ... ... ... | 2 | 12 | 3 | 4 | 0 | 3 | 0 | 294 | |
| Do. ... ... ... ... | 1 | 6 | 3 | 3 | 6 | 3 | 0 | 66 | |
| Verandah walls ... ... ... ... | ... | 41 | 3 | 3 | 6 | 3 | 0 | 433 | |
| Steps ... ... ... ... ... | ... | 10 | 0 | 3 | 0 | 1 | 6 | 45 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 2,038 | |
| Cubic yards ... | ... | ... | | ... | | ... | | ... | 76 |
| *Earthfilling in Basement.* | | | | | | | | | |
| Guard-room ... ... ... ... | 1 | 12 | 0 | 15 | 0 | 1 | 6 | 270 | |
| Lock-up ... ... ... ... | 1 | 9 | 0 | 15 | 0 | 1 | 6 | 203 | |
| Do. and Inspectors ... ... | 2 | 9 | 0 | 7 | 1½ | 1 | 6 | 192 | |
| Verandah ... ... ... ... | ... | 31 | 0 | 5 | 9 | 1 | 6 | 267 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 932 | |
| Cubic yards ... | ... | ... | | ... | | ... | | ... | 35 |
| *Concrete 12 inches thick.* | | | | | | | | | |
| Excavation 1,993 cubic feet ÷ 3 = | ... | ... | | ... | | ... | | 664 | |
| Steps ... ... ... ... ... | 1 | 10 | 0 | 3 | 0 | 1 | 0 | 30 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 694 | |
| *Brick in Foundations.* | | | | | | | | | |
| Footings— | | | | | | | | | |
| Outer walls ... ... ... | ... | 100 | 0 | 2 | 3 | 1 | 6 | 338 | |
| Partitions ... ... ... ... | 2 | 14 | 0 | 2 | 3 | 1 | 6 | 95 | |
| Do. ... ... ... ... | 1 | 8 | 0 | 1 | 9 | 1 | 6 | 21 | |
| Verandah walls ... ... ... | ... | 43 | 0 | 1 | 9 | 1 | 6 | 113 | |
| Above footings to ground level— | | | | | | | | | |
| Outer walls ... ... ... | ... | 100 | 0 | 1 | 3 | 0 | 6 | 63 | |
| Extra thickness for plinth ... ... | ... | 73 | 6 | 0 | 3 | 0 | 6 | 9 | |
| Partitions ... ... ... ... | 2 | 15 | 0 | 1 | 3 | 0 | 6 | 19 | |
| Do. ... ... ... ... | 1 | 9 | 0 | 0 | 9 | 0 | 6 | 3 | |
| Verandah walls ... ... ... | ... | 44 | 0 | 0 | 9 | 0 | 6 | 17 | |
| Steps ... ... ... ... | 1 | 10 | 0 | 3 | 0 | 0 | 6 | 15 | |
| Cubic feet ... | ... | ... | | ... | | ... | | 693 | |
| *Brickwork in Basement.* | | | | | | | | | |
| Outer walls ... ... ... ... | ... | 100 | 0 | 1 | 3 | 2 | 0 | 250 | |
| Extra thickness for plinth ... ... | ... | 73 | 6 | 0 | 3 | 2 | 0 | 37 | |
| Partitions ... ... ... ... | 2 | 15 | 0 | 1 | 3 | 2 | 0 | 75 | |
| Do. ... ... ... ... | 1 | 9 | 0 | 0 | 9 | 2 | 0 | 14 | |
| Verandah walls ... ... ... ... | ... | 44 | 0 | 0 | 9 | 2 | 0 | 66 | |
| Steps ... ... ... ... | 1 | 10 | 0 | 3 | 0 | 0 | 6 | 15 | |
| Do. ... ... ... ... | 1 | 8 | 0 | 2 | 0 | 0 | 6 | 8 | |
| Do. ... ... ... ... | 1 | 6 | 0 | 1 | 0 | 0 | 6 | 3 | 468 |
| Deduct stone and steps ... ... | ... | ... | | ... | | ... | | ... | 19 |
| Cubic feet ... | ... | ... | | ... | | ... | | ... | 449 |

*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | | Breadth. | | Depth. | | Contents. | Total. |
|---|---|---|---|---|---|---|---|---|---|
| | | FT. | IN. | FT. | IN. | FT. | IN. | | |
| *Brickwork in Superstructure.* | | | | | | | | | |
| Outer walls ... ... ... ... | ... | 100 | 0 | 1 | 3 | 12 | 0 | 1,500 | |
| Partitions ... ... ... ... | 2 | 15 | 0 | 1 | 3 | 12 | 0 | 450 | |
| Do. ... ... ... ... | 1 | 9 | 0 | 0 | 9 | 12 | 0 | 81 | |
| Parapet ... ... .. ... | ... | 103 | 0 | 0 | 6 | 0 | 9 | 39 | 2,070 |
| *Deductions.* | | | | | | | | | |
| Door ... ... ... ... | 1 | 3 | 9 | 1 | 3 | 6 | 6 | 30 | |
| Do. ... ... ... ... | 4 | 2 | 9 | 1 | 3 | 6 | 0 | 83 | |
| Window ... ... ... ... | 1 | 3 | 0 | 1 | 3 | 4 | 0 | 15 | |
| Ventilators ... ... ... ... | 10 | 4 | 9 | 1 | 3 | 1 | 6 | 89 | |
| Archwork as per details below ... ... | ... | ... | | ... | | ... | | 28 | 245 |
| Cubic feet ... | ... | ... | | ... | | ... | | ... | 1,825 |
| *Archwork.* | | | | | | | | | |
| Segmental arch over door ... ... | 1 | 4 | 6 | 1 | 3 | 1 | 0 | 28 | |
| Do. do. ... ... | 4 | 3 | 6 | 1 | 3 | 1 | 0 | | |
| Do. over window ... ... | 1 | 3 | 6 | 1 | 3 | 1 | 0 | | |
| Cubic feet ... | ... | ... | | ... | | ... | | 28 | |
| *Stonework if easily procured.* | | | | | | | | | |
| Steps ... ... ... ... ... | ... | 31 | 0 | 1 | 3 | 0 | 6 | 19 | C. feet. |
| *Teakwood.* | | | | | | | | | |
| Posts ... ... ... ... | 6 | 0 | 5 | 0 | 5 | 7 | 9 | 8 | |
| Brackets ... ... ... ... | 12 | 1 | 1 | 0 | 4 | 0 | 10 | 4 | |
| Breastsummer ... ... ... ... | ... | 34 | 0 | 0 | 5 | 0 | 7 | 8 | |
| Joists for verandah ... ... ... | 24 | 8 | 6 | 0 | 3 | 0 | 5 | 21 | |
| Joists for guard-room ... ... ... | 11 | 14 | 0 | 0 | 4 | 0 | 7 | 30 | |
| Do. for lock-up ... ... ... | 23 | 12 | 3 | 0 | 3 | 0 | 5 | 29 | |
| Waling pieces ... ... ... | 2 | 37 | 0 | 0 | 3 | 0 | 5 | 23 | |
| Do. ... ... ... | 2 | 19 | 6 | 0 | 3 | 0 | 5 | | |
| Cantilevers ... ... ... .. | 46 | 2 | 3 | 0 | 3 | 0 | 5 | | |
| Cubic feet ... | ... | ... | | ... | | ... | | 123 | |
| *Iron inner doors* ... ... ... | 4 | 2 | 9 | ... | | 6 | 0 | 66 | Sq. feet. |
| *Teak batten entrance door with frames and fastenings.* | 1 | 3 | 9 | ... | | 6 | 6 | 24 | Do. |
| *Batten window with frames and fastenings.* | 1 | 3 | 0 | ... | | 4 | 0 | 12 | Do. |
| *Ventilators, wooden frames, and venetians with iron bars.* | 10 | 4 | 9 | ... | | 1 | 6 | 71 | Do. |
| *Stones under posts 1′ × 1′ × 4″* ... | ... | 6 in number. | | | | ... | | ... | |
| *Mouldings over exterior openings.* | | | | | | | | | |
| Door ... ... ... ... ... | 1 | 5 | 0 | ... | | ... | | 5 | |
| Window ... ... ... ... | 1 | 4 | 6 | ... | | ... | | 4½ | |
| Lineal feet ... | | | | | | | | 9½ | |

Detailed Quantities—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Plastering interior and washing.* | | | | | | |
| Guard-room ... ... ... ... | ... | 54 0 | ... | 12 0 | 648 | |
| Lock-up ... ... ... ... | ... | 48 0 | ... | 12 0 | 576 | |
| Do. and Inspectors ... ... | 2 | 32 3 | ... | 12 0 | 774 | |
| Door jambs ... ... ... ... | 1 | 17 0 | ... | 1 3 | 21 | |
| Do. ... ... ... ... | 4 | 15 0 | ... | 1 3 | 75 | |
| Window jambs ... ... ... ... | 1 | 14 0 | ... | 1 3 | 18 | |
| Ventilator ... ... ... ... | 10 | 7 9 | ... | 1 3 | 97 | |
| *Deductions.* | | | | | | 2,209 |
| Doorway ... ... ... ... | 1 | 3 9 | ... | 6 6 | 24 | |
| Do. ... ... ... 2 × | 4 | 2 9 | ... | 6 0 | 132 | |
| Window ... ... ... ... | 1 | 3 0 | ... | 4 0 | 12 | |
| Ventilator ... ... ... ... | 10 | 4 9 | ... | 1 6 | 71 | |
| | | | | | | 239 |
| Square feet ... | ... | ... | ... | ... | ... | 1,970 |
| Squares ... | ... | ... | ... | ... | ... | 19·70 |
| *Plastering exterior and washing.* | | | | | | |
| Basement ... ... ... ... | ... | 119 6 | ... | 2 0 | 239 | |
| Superstructure ... ... ... ... | ... | 105 0 | ... | 12 0 | 1,260 | |
| Parapet ... ... ... ... | ... | 105 0 | ... | 5 3 | 551 | |
| | | | | | | 2,050 |
| *Deductions.* | | | | | | |
| Door ... ... ... ... ... | 1 | 3 9 | ... | 6 6 | 24 | |
| Window ... ... ... ... ... | 1 | 3 0 | ... | 4 0 | 12 | |
| Ventilator ... ... ... ... | 10 | 4 9 | ... | 1 6 | 71 | |
| | | | | | | 107 |
| Square feet ... | ... | ... | ... | ... | ... | 1,943 |
| Squares ... | ... | ... | ... | ... | ... | 19·43 |
| *Terracing.* | | | | | | |
| Main building ... ... ... ... | ... | 37 0 | ... | 19 6 | 722 | |
| Verandah ... ... ... ... | ... | 35 0 | ... | 7 6 | 263 | |
| Square feet ... | ... | ... | ... | ... | 985 | |
| Squares .. | ... | ... | ... | ... | ... | 9·85 |
| *Flooring with Square Tiles.* | | | | | | |
| Guard-room ... ... ... ... | 1 | 12 0 | ... | 15 0 | 180 | |
| Inspector's room ... ... ... | 1 | 9 0 | ... | 7 1½ | 64 | |
| Verandah ... ... ... ... | 1 | 32 6 | ... | 6 6 | 211 | |
| Door pieces ... ... ... ... | 1 | 3 9 | ... | 1 3 | 8 | |
| Do. ... ... ... ... | 1 | 2 9 | ... | 1 3 | | |
| Do. ... ... ... ... | 3 | 2 9 | ... | 0 7½ | 5 | |
| Square feet ... | ... | ... | ... | ... | ... | 468 |
| Squares ... | ... | ... | ... | ... | ... | 4·68 |

Detailed Quantities—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Flooring with jelly 6" thick and painting over with a composition of 1 lb. asphalte to 5 lb. of tar.* | | | | | | |
| Lock-up ... ... ... ... | 1 | 15 0 | ... | 9 0 | 135 | |
| Do. ... ... ... ... | 1 | 7 1½ | ... | 9 0 | 64 | |
| Door pieces ... ... ... ... | 3 | 2 9 | ... | 0 7½ | 5 | |
| Square feet ... | ... | ... | ... | ... | 204 | |
| Squares .. | ... | ... | ... | ... | ... | 2·04 |
| *Painting with three coats of Carson's oak color.* | | | | | | |
| Door ... ... ... ... 2 × | 1 | 3 9 | ... | 6 6 | 49 | |
| Do. ... ... ... ... 2 × | 4 | 2 9 | ... | 6 0 | 132 | |
| Window ... ... ... ... 2 × | 1 | 3 0 | ... | 4 0 | 24 | |
| Ventilators with venetians ... 3 × | 10 | 4 9 | ... | 1 6 | 214 | |
| Posts ... ... ... ... ... | 6 | 1 8 | ... | 7 6 | 75 | |
| Breastsummers ... ... ... ... | ... | 32 6 | ... | 2 0 | 65 | |
| Joists ... ... ... ... ... | 24 | 7 6 | ... | 1 1 | 195 | |
| Do. ... ... ... ... ... | 11 | 14 0 | ... | 1 6 | 231 | |
| Joists for lock-up, &c. ... ... ... | 23 | 12 3 | ... | 1 1 | 540 | |
| Waling pieces ... ... ... ... | 2 | 37 0 | ... | 1 1 | | |
| Do. ... ... ... ... | 2 | 19 6 | ... | 1 1 | | |
| Cantilevers ... ... ... .. | 46 | 2 3 | ... | 1 1 | | |
| Square feet ... | ... | ... | ... | ... | 1,525 | |
| Squares ... | ... | ... | ... | ... | ... | 15·25 |
| *Arm-rack for four rifles* ... ... | ... | 2¾ Lineal feet. | | ... | ... | |
| *Pegs for accoutrements* ... ... | ... | 6 in number. | | ... | ... | |
| *Moveable shelf for Inspector's room* ... | ... | 1 in number. | | ... | ... | |

## ABSTRACT.

| Quantity. | Item. | Rate. | Per | Amount. |
|---|---|---|---|---|
| | | RS. A. P. | | RS. A. P. |
| 76 C. yds. | Excavation for foundation ... | | | |
| 35 " | Earthfilling in basement ... | | | |
| 694 C. ft. | Concrete ... ... ... | | | |
| 693 " | Brickwork in foundation ... | | | |
| 449 " | Do. in basement ... ... | | | |
| 1,825 " | Do. in superstructure ... | | | |
| 28 " | Archwork ... ... ... | | | |
| 19 " | Stonework for steps if easily procured. | | | |
| 123 " | Teakwood wrought and put up ... | | | |
| 66 S. ft. | Iron inner doors ... ... | | | |
| 24 " | Batten door for entrance with frames complete. | | | |
| 12 " | Batten window ... ... ... | | | |

## ABSTRACT—*cont.*

| Quantity. | Item. | Rate. | Per | Amount. |
|---|---|---|---|---|
| | | RS. A. P. | | RS. A. P. |
| 71 Sq. ft. | Ventilators, wooden frames, and venetians and iron bars. | | | |
| 6 Nos. | Stones under posts ... ... | | | |
| 9½ L. ft. | Moulding over exterior opening. | | | |
| 19·70 Squares. | Plastering interior and washing... | | | |
| 19·43 ,, | Do. exterior do. ... | | | |
| 9·85 ,, | Terracing ... ... ... | | | |
| 4·68 ,, | Flooring with square tiles ... | | | |
| 2·04 ,, | Flooring with jelly 6 inches thick and painting over with tar and asphalte composition. | | | |
| 15·25 ,, | Painting with three coats of Carson's oak color. | | | |
| 2¾ L. ft. | Arm-rack for four rifles ... ... | | | |
| 6 Nos. | Pegs for accoutrements ... ... | | | |
| 1 No. | Moveable shelf for Inspector's room. | | | |
| | Contingencies at 5 per cent. ... | | | |
| | Total ... | | | |

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

MADRAS,
28th January 1880.

(Signed) T. K. GUTHRIE, Major,
Ag. Asst. Inspector-General,
*for* Inspector-General of Police.

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ESTIMATE of the Cost of constructing a Third-class Police Station-house according to Standard Design No. 3, dated 15th January 1880.

*Detailed Quantities.*

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Excavation for Foundations.* | | | | | | |
| Outer walls ... ... ... ... | ... | 69 6 | 4 0 | 3 0 | 945 | |
| Partition ... ... ... ... | 1 | 9 3 | 4 0 | 3 0 | | |
| Verandah walls ... ... ... ... | ... | 28 0 | 3 6 | 3 0 | 294 | |
| Steps ... ... ... ... ... | ... | 8 0 | 3 0 | 1 6 | 36 | |
| Cubic feet ... | ... | ... | ... | ... | 1,275 | |
| Cubic yards ... | ... | ... | ... | ... | ... | 48 |
| *Earthfilling in Basement.* | | | | | | |
| Guard-room ... ... ... ... | 1 | 12 0 | 12 0 | 1 6 | 342 | |
| Lock-up ... ... ... ... | 1 | 7 0 | 12 0 | 1 6 | | |
| Verandah ... ... ... ... | 1 | 18 9 | 5 3 | 1 6 | 148 | |
| Cubic feet ... | ... | ... | ... | ... | 490 | |
| Cubic yards ... | ... | ... | ... | ... | ... | 18 |
| *Concrete 12 inches thick.* | | | | | | |
| Excavation 1,239 cubic feet ÷ 3 = | ... | ... | ... | ... | 413 | |
| Steps ... ... ... ... ... | ... | 8 0 | 3 0 | 1 0 | 24 | |
| Cubic feet ... | ... | ... | ... | ... | 437 | |
| *Brickwork in Foundations.* | | | | | | |
| Footings— | | | | | | |
| Outer walls... ... ... ... | ... | 69 6 | 2 3 | 1 6 | 272 | |
| Partition ... ... ... ... | 1 | 11 0 | 2 3 | 1 6 | | |
| Verandah wall ... ... ... | ... | 29 9 | 1 9 | 1 6 | 78 | |
| Above footings to ground level— | | | | | | |
| Outer walls ... ... ... | ... | 69 6 | 1 3 | 0 6 | 51 | |
| Partition ... ... ... ... | 1 | 12 0 | 1 3 | 0 6 | | |
| Verandah walls ... ... ... | ... | 30 9 | 0 9 | 0 6 | 12 | |
| Steps ... ... ... ... | ... | 8 0 | 3 0 | 0 6 | 12 | |
| Cubic feet ... | ... | ... | ... | ... | 425 | |
| *Brickwork in Basement.* | | | | | | |
| Outer walls ... ... ... ... | ... | 69 6 | 1 3 | 2 0 | 174 | |
| Extra thickness for plinth .. ... | ... | 55 3 | 0 3 | 2 0 | 28 | |
| Partition ... ... ... ... | 1 | 12 0 | 1 3 | 2 0 | 30 | |
| Verandah walls ... ... ... ... | ... | 30 9 | 0 9 | 2 0 | 46 | |
| Steps ... ... ... ... ... | 1 | 8 0 | 3 0 | 0 6 | 12 | |
| Do. ... ... ... ... ... | 1 | 6 0 | 2 0 | 0 6 | 6 | |
| Do. ... ... ... ... ... | 1 | 4 0 | 1 0 | 0 6 | 2 | |
| Cubic feet ... | ... | ... | ... | ... | ... | 298 |
| Deduct stone in steps ... ... ... | ... | ... | ... | ... | ... | 16 |
| Cubic feet ... | ... | ... | ... | ... | ... | 282 |

Detailed Quantities—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Brickwork in Superstructure.* | | | | | | |
| Outer walls ... ... ... ... | ... | 69 6 | 1 3 | 11 6 | 1,172 | |
| Partitions ... ... ... ... | 1 | 12 0 | 1 3 | 11 6 | | |
| Parapet ... ... ... ... ... | ... | 72 6 | 0 6 | 0 9 | 27 | 1,199 |
| *Deductions.* | | | | | | |
| Door ... ... ... ... ... | 1 | 3 9 | 1 3 | 6 6 | 30 | |
| Do. ... ... ... ... ... | 1 | 2 9 | 1 3 | 6 0 | 21 | |
| Ventilators ... ... ... ... | 6 | 4 9 | 1 3 | 1 6 | 53 | |
| Archwork as per details ... ... | ... | ... | ... | ... | 10 | 114 |
| Cubic feet ... | ... | ... | ... | ... | ... | 1,085 |
| *Archwork.* | | | | | | |
| Segmental arch over door ... ... | 1 | 4 6 | 1 3 | 1 0 | 10 | |
| Do. do. ... ... | 1 | 3 6 | 1 3 | 1 0 | | |
| Cubic feet ... | ... | ... | ... | ... | 10 | |
| *Stonework if easily procured.* | | | | | | |
| Steps ... ... ... ... ... | ... | 25 0 | 1 3 | 0 6 | 16 | C. feet. |
| *Teakwood.* | | | | | | |
| Posts ... ... ... ... ... | 4 | 0 5 | 0 5 | 7 6 | 5 | |
| Brackets ... ... ... ... ... | 8 | 1 1 | 0 4 | 0 10 | 2 | |
| Breastsummers ... ... ... ... | ... | 21 0 | 0 5 | 0 7 | 5 | |
| Joists for verandah ... ... ... | 16 | 8 0 | 0 3 | 0 5 | 13 | |
| Do. for guard-room ... ... ... | 9 | 15 0 | 0 4 | 0 7 | 26 | |
| Do. for lock-up ... ... ... | 9 | 10 0 | 0 3 | 0 5 | 25 | |
| Waling pieces ... ... ... ... | 2 | 24 9 | 0 3 | 0 5 | | |
| Do. ... ... ... ... | 2 | 16 6 | 0 3 | 0 5 | | |
| Cantilevers ... ... ... ... | 28 | 2 3 | 0 3 | 0 5 | | |
| Cubic feet ... | ... | ... | ... | ... | 76 | |
| *Iron door* ... ... ... ... | 1 | 2 9 | ... | 6 0 | 17 | S. feet. |
| *Teak batten door with frames and fastenings.* | 1 | 3 9 | ... | 6 6 | 24 | Do. |
| *Ventilators, wooden frames, and venetians and iron bars.* | 6 | 4 9 | ... | 1 6 | 43 | Do. |
| *Stones under posts* 1′ × 1′ × 4′ ... | ... | 4 in number. | | ... | ... | |
| *Mouldings over exterior door* ... ... | ... | 5 Lineal feet. | | ... | ... | |
| *Plastering interior and washing.* | | | | | | |
| Guard-room ... ... ... ... | 1 | 48 0 | ... | 11 6 | 989 | |
| Lock-up ... ... ... ... | 1 | 38 0 | ... | 11 6 | | |
| Door jambs ... ... ... ... | 1 | 17 0 | ... | 1 3 | 98 | |
| Do. ... ... ... ... | 1 | 15 0 | ... | 1 3 | | |
| Ventilator jambs ... ... .. | 6 | 7 9 | ... | 1 3 | | 1,087 |

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Detailed Quantities—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Deductions.* | | | | | | |
| Doorway ... ... ... ... | 1 | 3 9 | ... | 6 6 | 24 | |
| Do. ... ... ... 2 × | 1 | 2 9 | ... | 6 0 | 33 | |
| Ventilators ... ... ... | 6 | 4 9 | ... | 1 6 | 43 | 100 |
| Square feet ... | ... | ... | ... | ... | ... | 987 |
| Squares ... | ... | ... | ... | ... | ... | 9·87 |
| *Plastering exterior and washing.* | | | | | | |
| Basement ... ... ... ... | ... | 88 0 | ... | 2 0 | 176 | |
| Superstructure ... ... ... ... | ... | 74 6 | ... | 11 6 | 857 | |
| Parapet ... ... ... ... ... | ... | 74 6 | ... | 5 3 | 391 | 1,424 |
| *Deductions.* | | | | | | |
| Door ... ... ... ... ... | 1 | 3 9 | ... | 6 6 | 24 | |
| Ventilators ... ... ... ... | 6 | 4 9 | ... | 1 6 | 43 | 67 |
| Square feet ... | ... | ... | ... | ... | ... | 1,357 |
| Squares ... | ... | ... | ... | ... | ... | 13·57 |
| *Terracing.* | | | | | | |
| Main building ... ... ... ... | ... | 24 9 | ... | 16 6 | 408 | |
| Verandah ... ... ... ... | ... | 22 9 | ... | 7 0 | 159 | |
| Square feet ... | ... | ... | ... | ... | 607 | |
| Squares ... | ... | ... | ... | ... | ... | 6·07 |
| *Flooring with Square Tiles.* | | | | | | |
| Guard-room ... ... ... ... | 1 | 12 0 | ... | 12 0 | 144 | |
| Verandah ... ... ... ... | 1 | 20 3 | ... | 6 0 | 122 | |
| Door piece ... ... ... ... | 1 | 3 9 | ... | 1 3 | 5 | |
| Do. ... ... ... ... | 1 | 2 9 | ... | 0 7½ | 2 | |
| Square feet ... | ... | ... | ... | ... | 273 | |
| Squares ... | ... | ... | ... | ... | ... | 2·73 |
| *Flooring with jelly 6″ thick and painting over with a composition of 1 lb. asphalte to 5 lbs. of tar.* | | | | | | |
| Lock-up ... ... ... ... ... | 1 | 7 0 | ... | 12 0 | 84 | |
| Door piece ... ... ... ... | 1 | 2 9 | ... | 0 7½ | 2 | |
| Square feet ... | ... | ... | ... | ... | 86 | |
| Squares ... | ... | ... | ... | ... | ... | ·86 |

*Detailed Quantities*—cont.

| Description of Work. | No. | Length. | Breadth. | Depth. | Contents. | Total. |
|---|---|---|---|---|---|---|
| | | FT. IN. | FT. IN. | FT. IN. | | |
| *Painting with three coats of Carson's oak color.* | | | | | | |
| Door ... ... ... ... 2 × | 1 | 3 9 | ... | 6 6 | 49 | |
| Do. ... ... ... ... 2 × | 1 | 2 9 | ... | 6 0 | 33 | |
| Ventilators with venetians ... 3 × | 6 | 4 9 | ... | 1 6 | 128 | |
| Posts ... ... ... ... ... | 4 | 7 3 | ... | 1 8 | 48 | |
| Breastsummers ... ... ... ... | ... | 20 3 | ... | 2 0 | 41 | |
| Joists ... ... ... ... ... | 16 | 7 0 | ... | 1 1 | 121 | |
| Do. ... ... ... ... ... | 9 | 15 0 | ... | 1 4 | 180 | |
| Do. ... ... ... ... ... | 9 | 10 0 | ... | 1 1 | 255 | |
| Waling pieces ... ... ... ... | 2 | 24 9 | ... | 1 1 | | |
| Do. ... ... ... ... | 2 | 16 6 | ... | 1 1 | | |
| Cantilevers ... ... ... ... | 28 | 2 3 | ... | 1 1 | | |
| Square feet ... | ... | ... | ... | ... | 855 | |
| Squares ... | ... | ... | ... | ... | ... | 8·55 |
| *Arm-racks for two rifles* ... ... ... | ... | 1½ Lineal feet. | | ... | ... | ... |
| *Pegs for accoutrements* ... ... ... | ... | 4 in number. | | ... | ... | ... |
| *Moveable shelf for records* ... ... | ... | 1 in number. | | ... | ... | ... |

## ABSTRACT.

| Quantity. | Item. | Rate. | Per. | Amount. |
|---|---|---|---|---|
| | | RS. A. P. | | RS. A. P. |
| 48 C. yds. | Excavation for foundations ... | ... | C. yard. | ... |
| 18 „ | Earthfilling in basement ... | ... | „ | ... |
| 437 C. feet. | Concrete ... ... ... ... | ... | C. foot. | ... |
| 425 „ | Brickwork in foundations ... | ... | „ | ... |
| 282 „ | Do. in basement ... ... | ... | „ | ... |
| 1,085 „ | Do. in superstructure ... | ... | „ | ... |
| 10 „ | Archwork ... ... ... ... | ... | „ | ... |
| 16 „ | Stonework for steps if easily procured. | ... | „ | ... |
| 76 „ | Teakwood wrought and put up ... | ... | „ | ... |
| 17 S. feet. | Iron inner door ... ... ... | ... | S. foot. | ... |
| 24 „ | Teak batten door with frames and fastenings. | ... | „ | ... |
| 43 „ | Ventilators, wooden frames, and venetians and iron bars. | ... | „ | ... |
| 4 No. | Stones under posts ... ... | | Each. | ... |
| 5 L. feet. | Mouldings over exterior door ... | ... | L. foot. | ... |
| 9·87 Squares. | Plastering interior and washing... | ... | Square. | ... |
| 13·57 „ | Do. exterior do. ... | ... | „ | ... |
| 6·07 „ | Terracing ... ... ... ... | ... | „ | ... |
| 2·73 „ | Flooring with square tiles ... | ... | „ | ... |
| ·86 „ | Flooring with jelly 6″ thick and painting with tar and asphalte composition. | ... | „ | ... |
| 8·55 „ | Painting with three coats of Carson's oak color. | ... | „ | ... |

ABSTRACT—*cont.*

| Quantity. | Item. | Rate. | Per | Amount. |
|---|---|---|---|---|
| | | RS. A. P. | | RS. A. P. |
| 1½ L. feet. | Arm-rack for two rifles ... ... | ... | L. foot. | ... |
| 4 No. | Pegs for accoutrements ... ... | ... | Each. | ... |
| 1 „ | Moveable shelf for records ... | ... | „ | ... |
| ... | Contingencies at 5 per cent. ... | ... | ... | ... |
| | Total ... | ... | ... | ... |

(Signed) R. F. CHISHOLM,
Consulting Architect to Government.

MADRAS,
28th January 1880.

(Signed) T. K. GUTHRIE, Major,
Ag. Asst. Inspector-General
*for* Inspector-General of Police.

Vo 2 26.
4351/1
P.W.D.

Enclosures 14.

E. No. 3182

## Memo.

The two sets of standard plans &c. for 1st, 2d and 3d class Station Houses received with the Deputy Chief Engineer's letter No. 2477 dated 8th July 1879 are returned approved and countersigned as required.

Chief office of the Inspr: Genl: of Police
Madras 12th July 1879

Major
Ag: Assistt: Inspr: Genl: of Police
for Ag: Inspector General of Police

To
The Secretary to Government,
Public Works Department,
Fort Saint George.

M.

12

10 9 — 26.

4355 N

P.W.D ~~7~~ 8

13

Memo.

No. 3870 d/ 17 Dec. 79

Letter from the Consulting Architect to Govt. to the Chief Engr. P.W.D. No. 531 of 28 Nov. 1879.

The Standard Plans for Police stations received with the above, are returned for revision with reference to the remarks contained in the letter from the Inspr. Genl of Police to the Consulting Architect No. 5317 dated 27th. Nov. 1879.

(Sigd) R H Sankey Col. R.E.
Chief Engr. P.W.D

To
The Consulting Architect to Govt.

Cd/ WM

No. 5317

Chief Office of the Inspector
General of Police
Madras 27th November /79.

From

Inspector General of
Police

To

The Consulting Architect
to Government
Madras.

Sir

I have the honor to return the enclosures forwarded with your letter No. 514 dated 18th November with the following remarks.

2 The object of the alteration in the Standard designs is to render the station Houses defensible The Memorandum from the P. W. D. states that the doors and windows should have stout wooden shutters with small openings to fire through. I do not see that these are provided in alternative Design No. 1 and 2 (with iron Gratings) and the unscreened door in plan 1 would (without a shutter) lay open the interior to a crowd The Grated window is also without defence.

3 But as it is seldom if ever necessary

P.W.D.
1 DEC 79

to shut the doors of a station House at all *except* for defence, I think that wooden doors and windows with openings to fire through are best suited to the purpose (Designs 1 & 2) and, if these are adopted, as the doors will be shut on occasions of attack, I do not see the use of the screen wall, which was apparently intended to protect an open Grating at the cost of some hindrance to light and air.

4 In other repects the Plans seem suitable and I observe from a Demi-official note that they will not be more expensive than the Original designs, I think therefore that Designs 1, 2, and 3 (with wooden doors and windows) should be adopted and that the screen walls in Designs 1 and 2 may in that case be dispensed with.

Certainly

I have the honor to be
Sir
Your most obedt. servt.
signed C. S. Hearn
Inspector Genl. of Police

True Copy.

Consg Archt. to Govt.

---

No 2708 A/ 9 Aug: 79

Memo: of

~~Note by His Grace the G~~

~~on~~ The Standard designs for 1st 2nd & 3rd Class Police Stations are herewith returned to the Consltg Architect for revision with reference to the following remarks

1- No Station should be so designed that three or four men cannot defend it-

In these plans, men can mount the back in safety & strip or break open the roof-

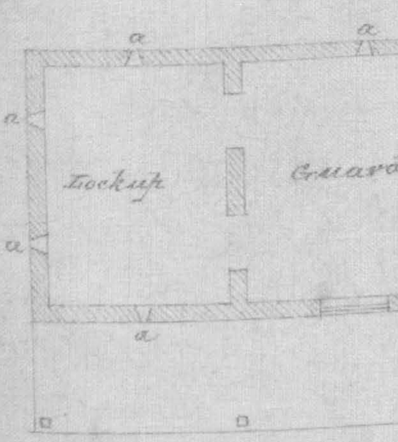
There should be loop holes built & so arranged as to enable the defenders to prevent any close approach to back or sides. The loop holes may be ordinarily stopped with a brick laid in dry but plastered on the inside.

The doors of the Guard room are so placed that an attacking crowd can command the whole interior of the room from the street.

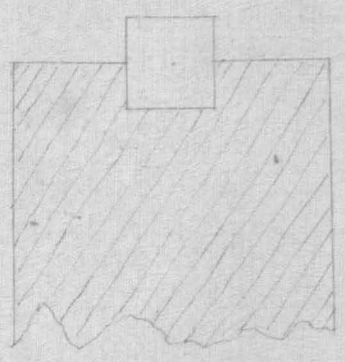
The door should be close to partition wall with a lobby or Screen Wall loop holed as on Sketch- at a-a-a.

The Windows & doors should have stout 1½" Wooden shutters with small openings to fire through.

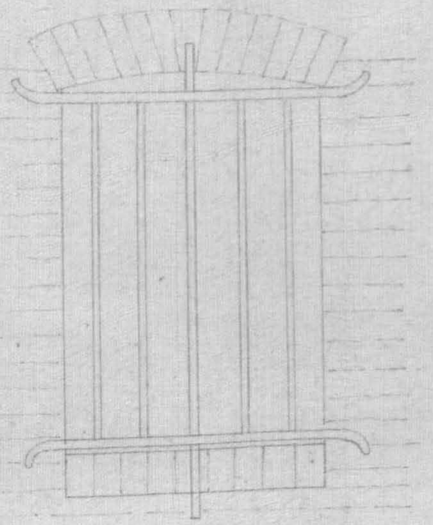
The Window frames appear very insecurely fixed. According to the drawings the Wooden frame is merely placed



placed in the Opening not fixed in either with horns of frame or by being built in with the bricks - if a Window frame is used it should be secured thus -



It is not clear why ~~But [illegible]~~ the Ordinary mode of inserting the bars into a top & bottom bar - carried a sufficient length into the Wall on either side, one of the Centre bars being left with long ends also built in is not adopted would ~~not~~ be better & more durable & secure.



In the same way the proposed door is of iron but dependent on a Wood frame only secured by its tight fitting - & the Sill being partly imbedded in the floor -

~~And~~ The iron grate door has no stops, or other bearing except the rim lock - which would not stand a single blow from the end of an heavy pole, ~~[illegible] [illegible]~~.

~~[illegible]~~ It is suggested if an iron grate be necessary that an iron frame be also used, properly built in & so formed that the Door when Closed puts against a strong stop bar -

~~I make these remarks because the plans would not be considered sufficient for any station in England.~~

and

To

The Consg: Architect

Consg Archt to Govt

11

2

~~and appear to me to require attention in the points noted although they have escaped the [illegible] of the I. G. of P.~~

No. 2708 A.d/ 9 Aug: 79

~~Transmitted~~ Copy to the Inspr Genl of Police for information and for consideration in communication with the Consg: Architect.

By order.

(Sd) J P.

Ag. R. S.

6/8/79

16

CE. 2708
2708.A. 41 g. Aug

Conog Archt. to Govt

Cw. 392.

Note of Remarks.

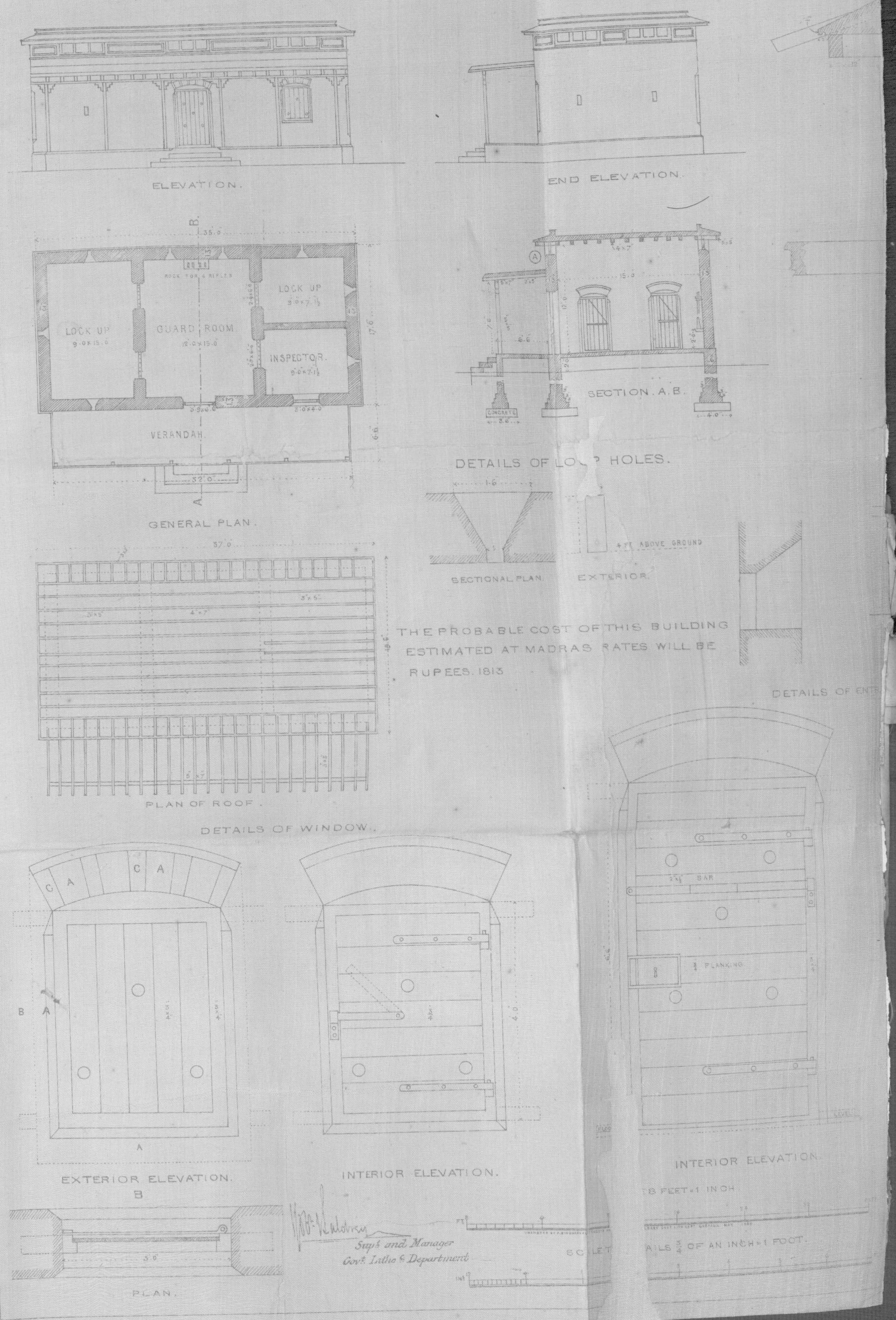
The revised Standard Plans, Estes: & Specification for 1st 2nd & 3rd Class Police Stns: with terrace roofing submitted by Consg: Architect are revised in accordance with the letter from the I. G. of Police No. 5317 dd 27-11-79, but his counter signature is not obtained in token of his approval of these designs.

Memo: put up.

J. H. J.
21-1-80

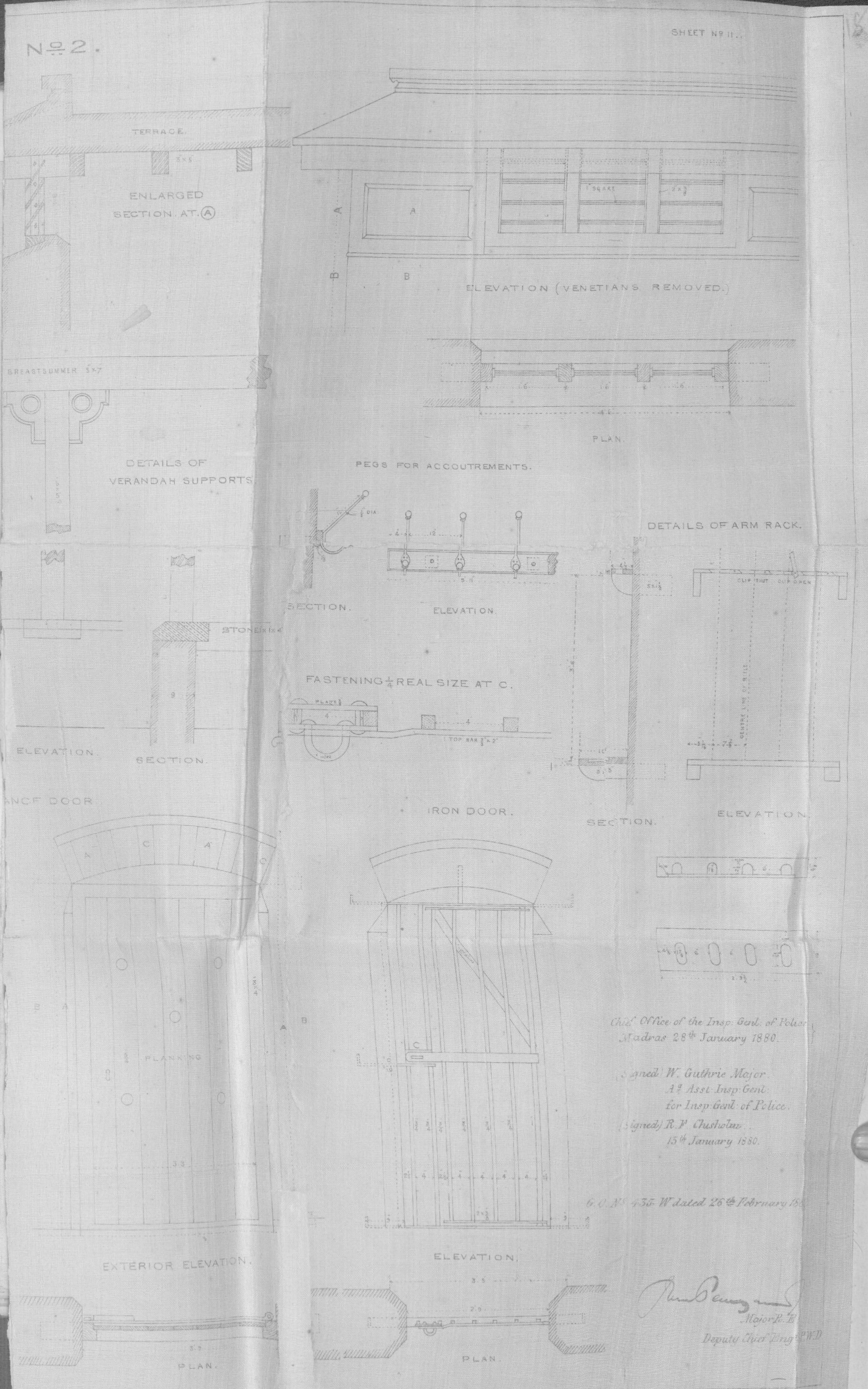
Consg Archt. to Govt

# DESIGN FOR A 2ND CLASS POLICE STATION HOUSE



THE PROBABLE COST OF THIS BUILDING
ESTIMATED AT MADRAS RATES WILL BE
RUPEES. 1813

Supt. and Manager
Govt. Litho. Department



Chief Office of the Insp: Genl: of Police
Madras 28th January 1880.

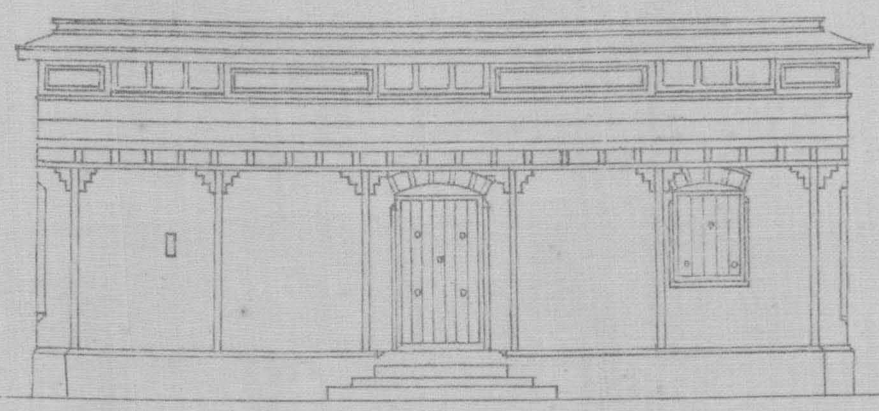
(Signed) W. Guthrie Major
A.g Asst: Insp: Genl:
for Insp: Genl: of Police.

(Signed) R. F. Chisholm
15th January 1880.

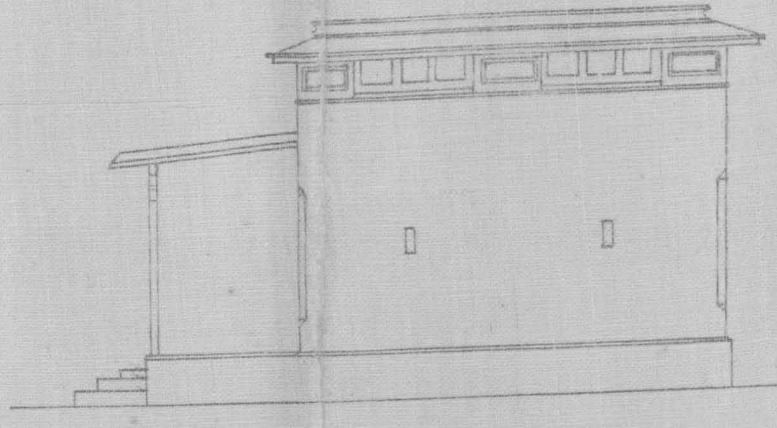
G. O. Nº 435 W dated 26th February 18

Major R. E.
Deputy Chief Engr PWD

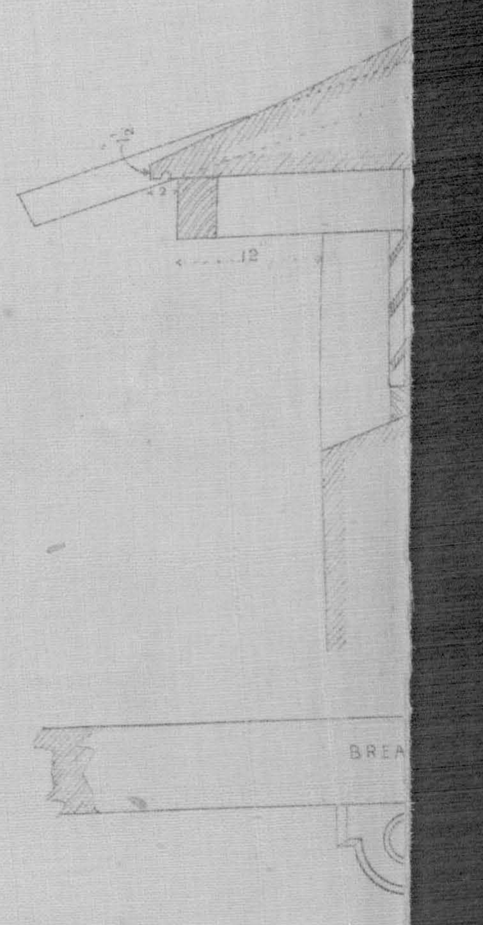
# DESIGN FOR A 2ND CLASS POLICE STATION HOUSE N

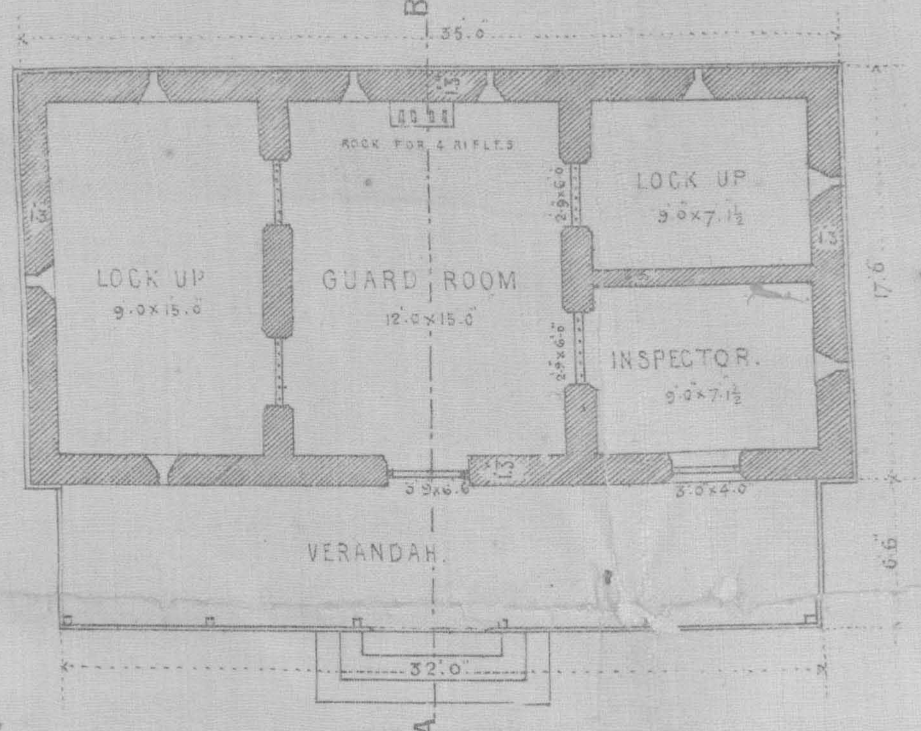


ELEVATION.

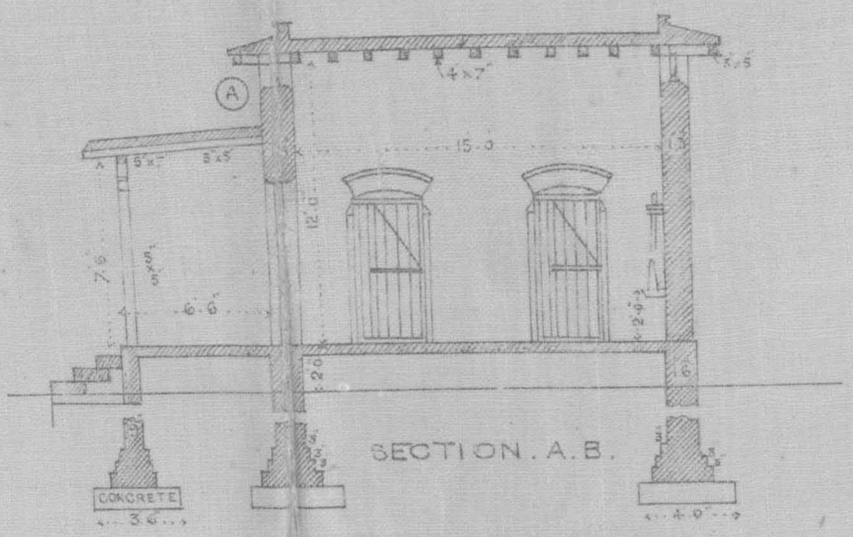


END ELEVATION.



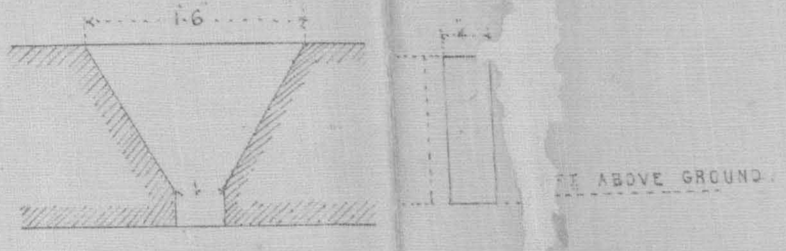


GENERAL PLAN.

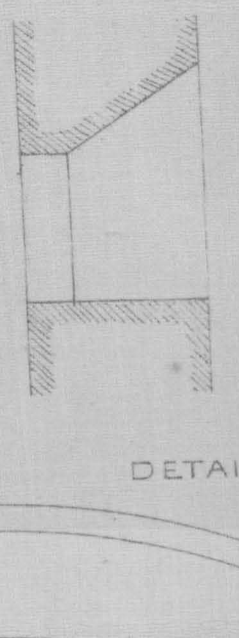


SECTION. A.B.

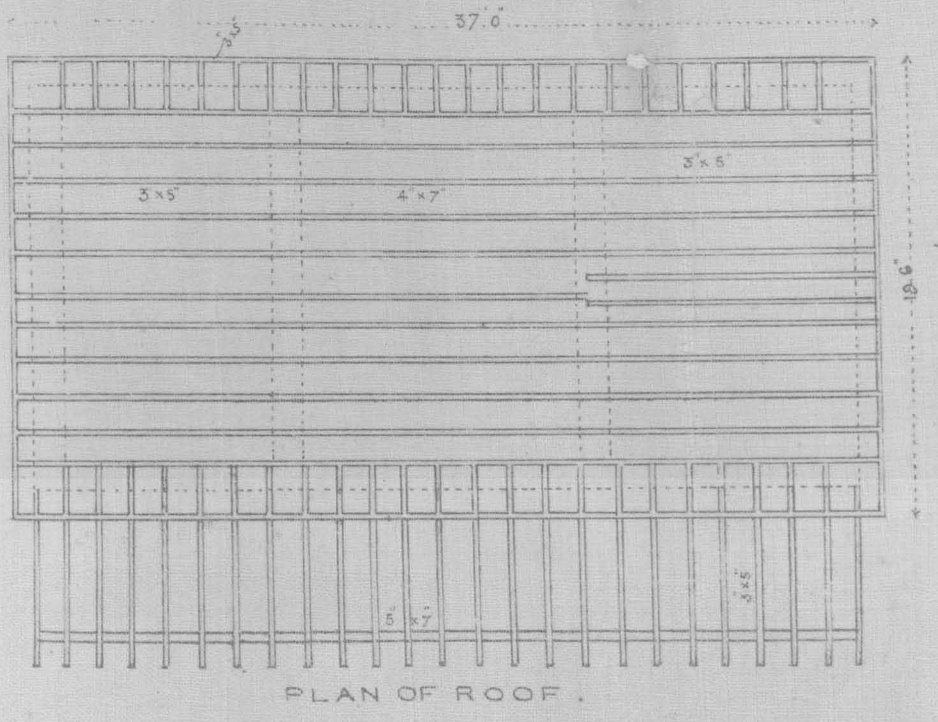
DETAILS OF LOOP HOLES.



SECTIONAL PLAN. EXTERIOR.

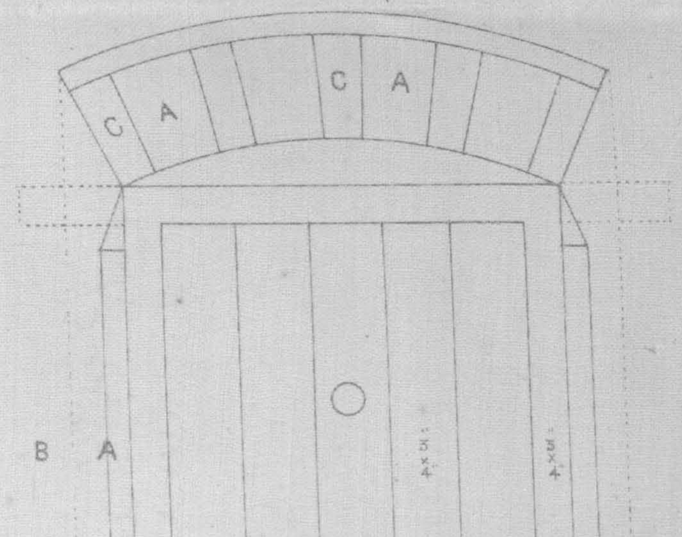


THE PROBABLE COST OF THIS BUILDING
ESTIMATED AT MADRAS RATES WILL BE
RUPEES. 1813

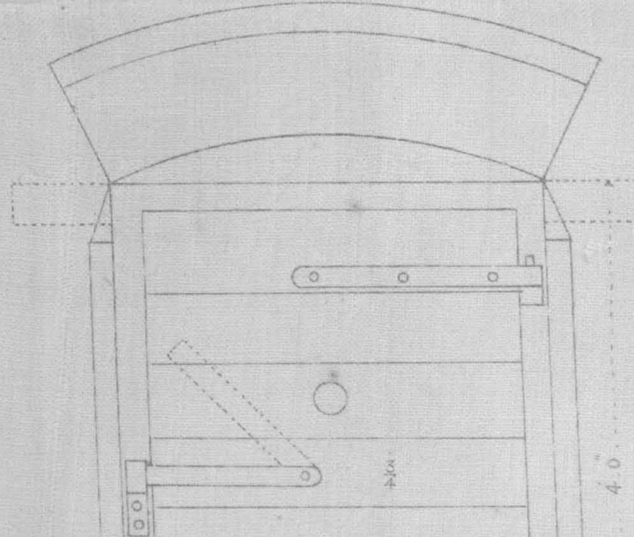


PLAN OF ROOF.

DETAILS OF WINDOW.

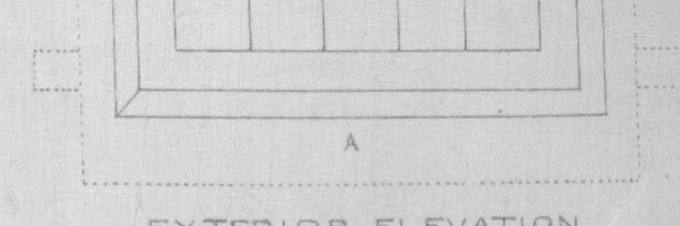


EXTERIOR ELEVATION.



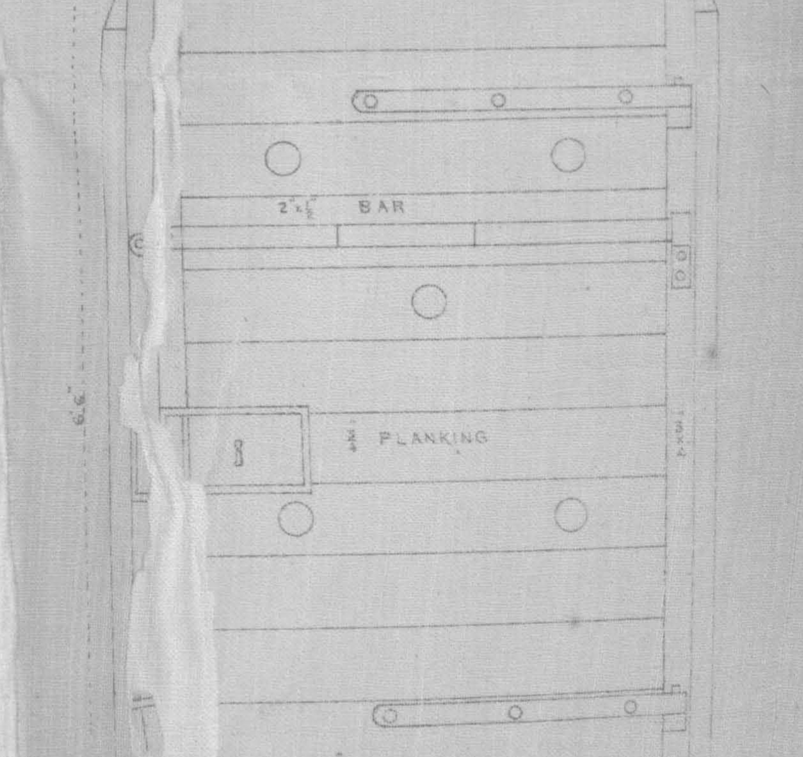
INTERIOR ELEVATION.

B



PLAN.

DETAILS OF ENTRANCE



INTERIOR ELEVATION.

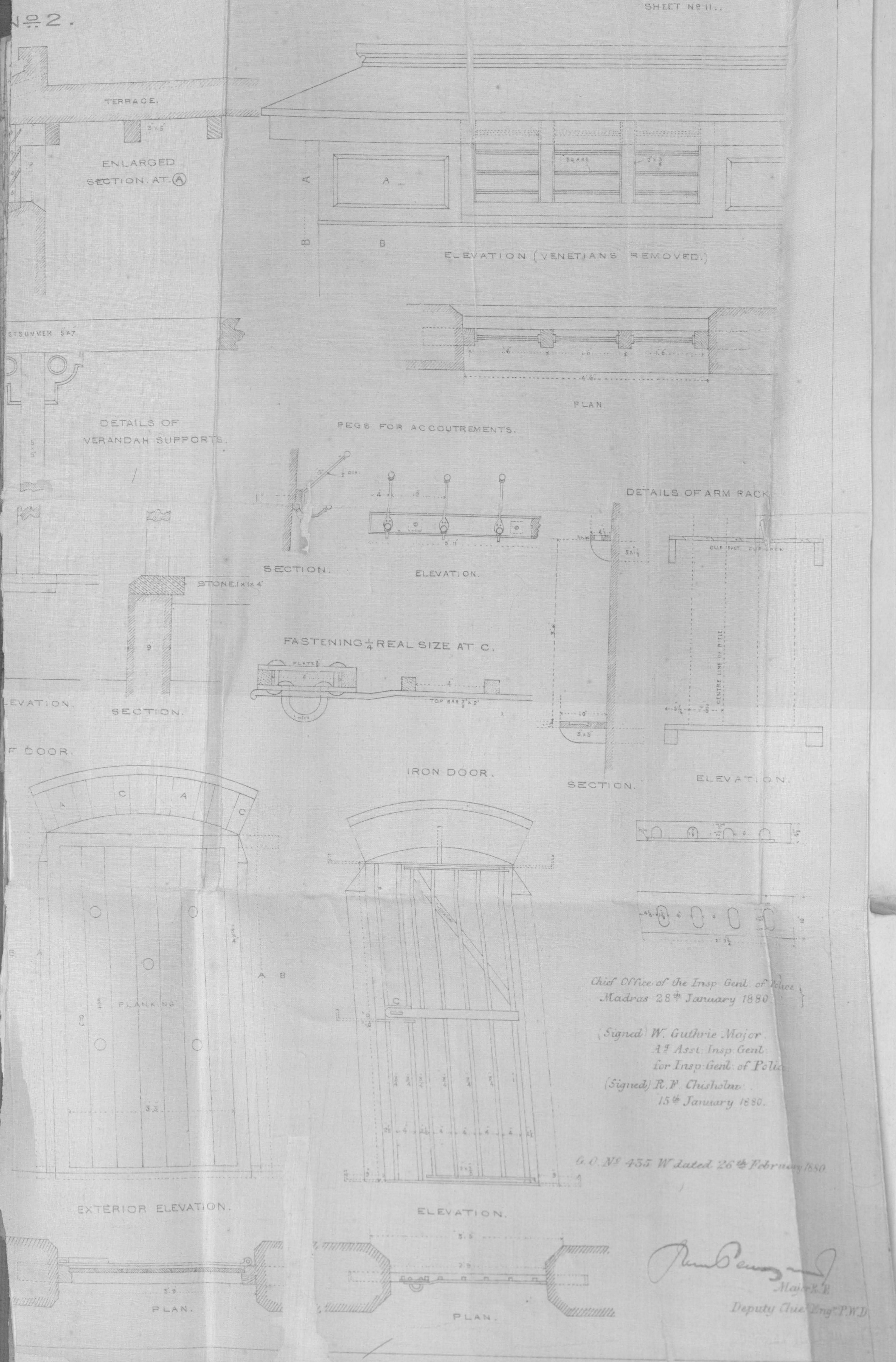
SC EET=1 INCH.

SCALE TO D ¾ OF AN INCH=1 FOOT.

Supt. and Manager
Govt. Litho. Department

Nº 2.

SHEET Nº 11.



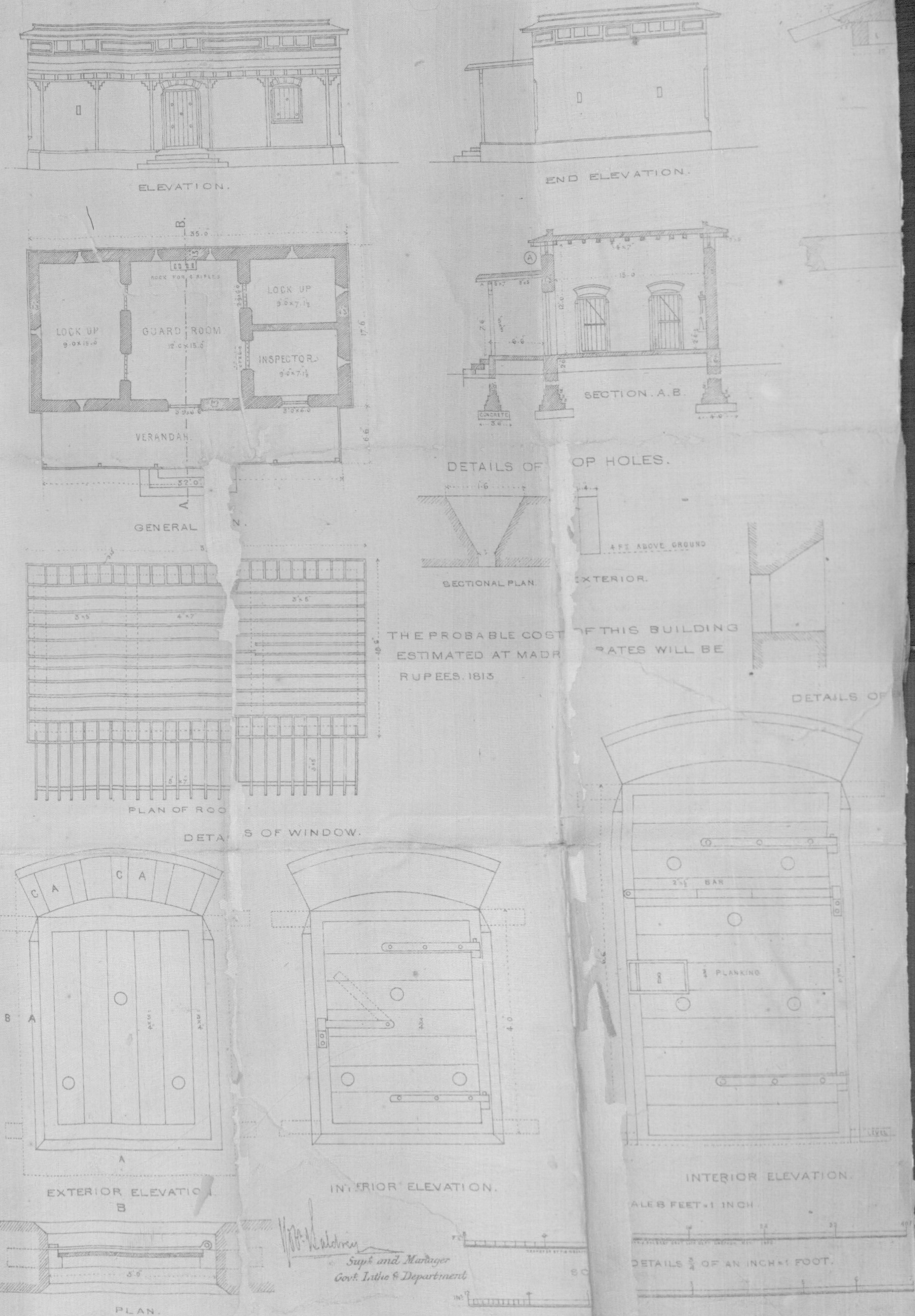
*Chief Office of the Insp. Genl. of Police*
*Madras 28th January 1880.*

*(Signed) W. Guthrie Major.*
*4th Asst. Insp. Genl.*
*for Insp. Genl. of Polic*
*(Signed) R. F. Chisholm*
*15th January 1880.*

*G. O. Nº 435 W dated 26th February 1880.*

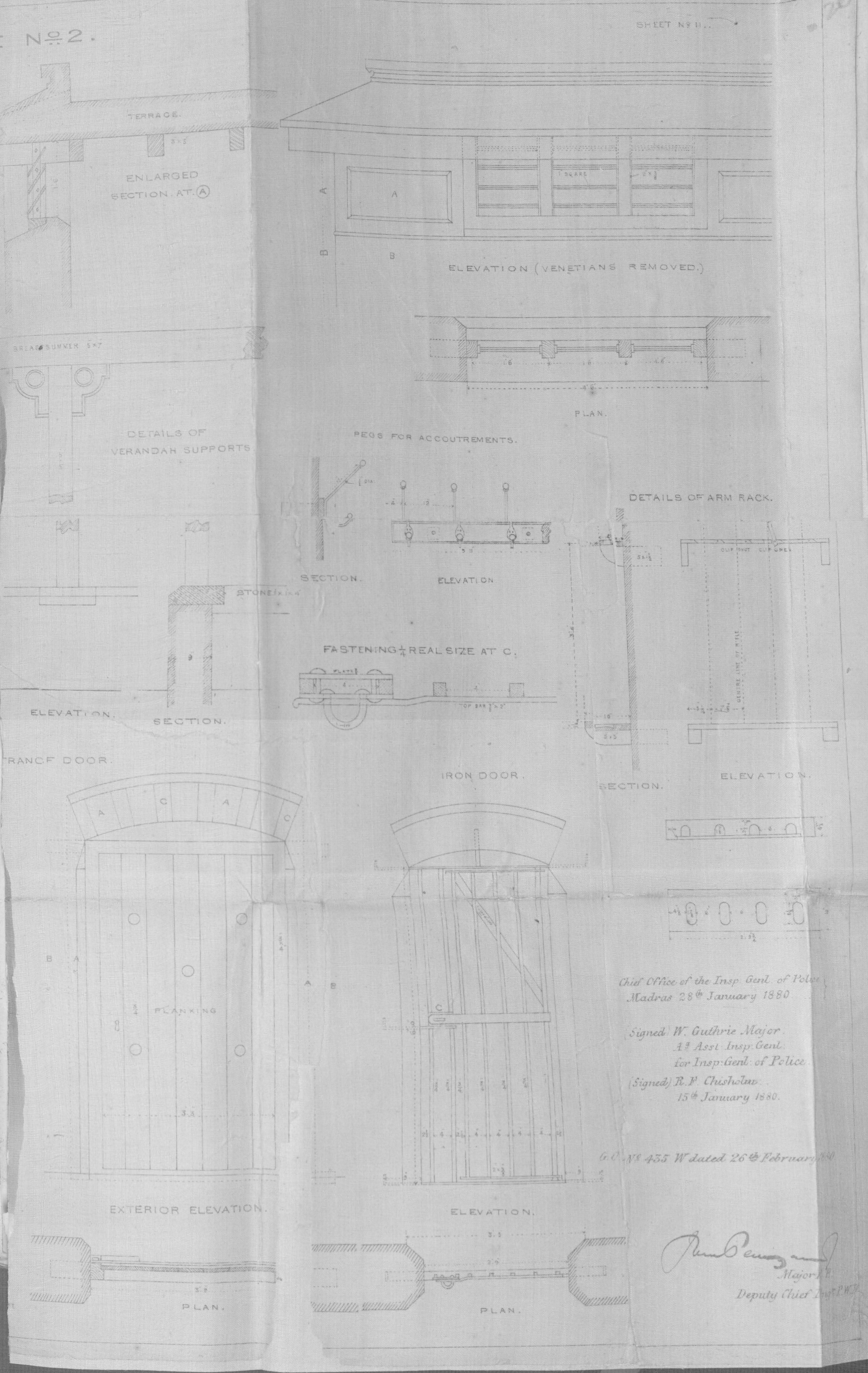
*Major R.E.*
*Deputy Chief Engr. P.W.D.*

# DESIGN FOR A 2ND CLASS POLICE STATION HOUSE



THE PROBABLE COST OF THIS BUILDING
ESTIMATED AT MADR RATES WILL BE
RUPEES. 1813

Supt. and Manager
Govt. Litho & Department



Chief Office of the Insp. Genl. of Police
Madras 28th January 1880

(Signed) W. Guthrie Major.
A^g Asst. Insp: Genl:
for Insp: Genl: of Police.

(Signed) R. F. Chisholm.
15th January 1880.

G.O. No. 435 W dated 26th February 1880

Major R.E.
Deputy Chief Engr. P.W.D.

P.W.D.
17 JN 1880
No. ......

Detailed quantities for a
2nd Class Police Station
with terraced roofing

Design No. 2

---

31A

Fort Saint George,
23rd Jany 1880.

No. 271

## MEMORANDUM.

The 2 Plans 3 estimates & 1 specification received with the ~~Superintending Engineer's~~ Cons: Architect's letter, No. 57B dated 16th Jany 1880, are herewith returned with a view to the countersignature of the head of the Department concerned being obtained to the same.

Early return of the document is requested.

(By Order.)

(Sd) J. Pennycuick Major, R.E.,
Ag. Deputy Chief Engineer, P. W. D.

To

The Cons: Architect
to Government

24

From

The Chief Engineer,

P. Wᵈ. D.,

To

The Engineer,

Pro. of Govt. 2/26th Feb/80 No. 435 W

Dated
Despd.
Recd.
18

No.

ENCLOSURES.

Back No. 60

---

## Department Public Works

## Police Stations

Specification of works to be performed in executing the Standard designs of Police Stations Drawings 1 2 & 3 signed by the Consulting Architect on the 15th January 1880.

### Excavator

Clearing site. Take down any existing building on the site stacking such materials as it may be desired to use again.

Excavation. After the centre lines have been pegged & lined, set out on either side of the lines half the total breadth of the Foundations and excavate to the depth or depths shown on the drawing, or to such depth as the Officer in charge of the works may direct.

Slips & baling. If slips occur during the progress of the works, clear the material away and bale any water lodging in the trenches from a hole or holes made without the limits of the same.

Ramming. After the Officer in charge of the work has seen that the trenches are the full and proper widths and depths well ram the bottom with heavy beaters for the after reception of the concrete.

### Bricklayer

Lay over the full breadth of the foundations about 9 inches of Concrete as hereinafter specified and well ram with heavy beaters to a thickness of about 6 inches. After the first layer has been consolidated, lay a second, and execute as before. The completed concrete should be about 12" thick.

Brickwork

Mark out carefully the centre lines and lay off the thickness of the first footing course. The steps of brickwork should be two courses high and not more than half a brick broad. When the bricks are very inferior it would be advisable to make each offset 3 bricks high.

The brickwork will be executed in sound material and care will be taken to insert during the progress of the work, the door frames, dogs and brackets for the arm racks &c.

Loop holes of the form and dimensions shown on the drawing will be left in the walls. After the masonry is set build in with half a brick in mud and plaster all flush on the outside.

The walls will be a brick and half a thick not less than 1'-1½" or greater than 1'-6" the quantities allow 1'-3".

Splay

The openings will be splayed as shown on the plan.

Arching

The heads of the openings will be covered by segmental arches built in concentric rings clear of the frame.

The space between the arch and the top of

the frame will be carefully closed in after the Brick work has settled down.

Bond-

The bond should be English if possible.

Stones-

Fix the stones under the Verandah posts also those under the beam, and fasten properly all wood supplied by the carpenter.

## Stone mason

Provide and dress 2 lines, No 6 stones 1'×1'×4" with mortice holes 2" square and 2" deep to receive the posts.

Provide and dress one line, No 2 stones 1'-3"×2'×4" for the beam.

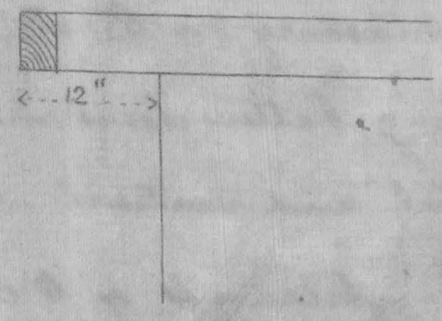
Provide and dress two lines, the steps shown on the drawing tailing each stone not less than 3"

## Carpenter

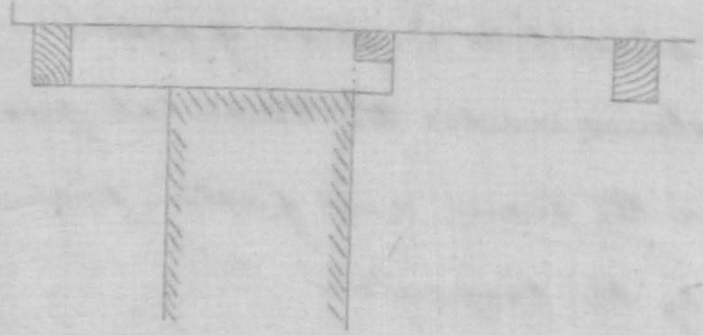
Note- Vary this clause according to class-

Supply a beam 17'-3"×9"×12" supply Joists 5"×3" supply door frames, window frames, and Ventilators as shown on the drawing neatly rebated and morticed in a workmanlike manner.

Halve the Joists into the beam to the extent of ½ an inch and add temporary struts to keep the Joists evenly apart until the terrace has settled. The Longitudinal Joists will project over the wall to the extent of 12" including the waling piece-

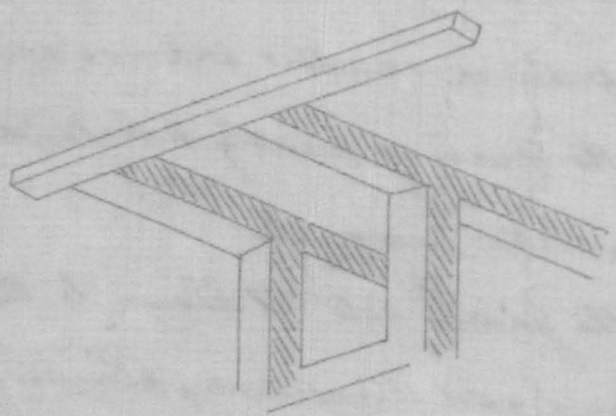


small cantilevers will be arranged along the longitudinal walls halved under the longitudinal Joists nearest the wall as shown on the drawing.



Support all the woodwork during the execution of the Terrace and slightly ease the wedges as the work progresses allow the supports to remain for 3 weeks after the completion of the terrace.

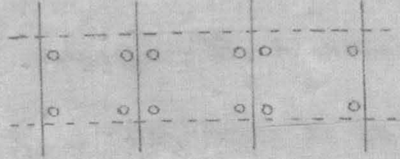
The Ventilators have no top rail they are held apart by the Longitudinal waling piece spiked to the ends of the Joists.



Provide and fix arm racks in strict accordance with the dimensions set forth on the drawing

Supply frames for the doors with shoulders to be built in the masonry in the ordinary way.

Provide strong batten doors made of $\frac{3}{4}$ inch planks horizontal and vertical well held together with palm treenails 4 to each crossing.

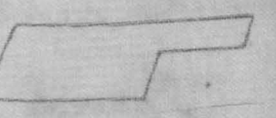


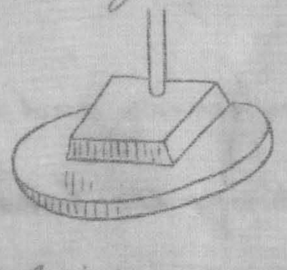
cut in suitable positions clear of Joints and of the holes for firing through. Provide strong fastenings and iron bars on the inside of each opening.

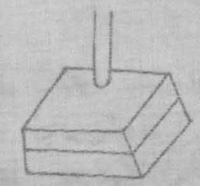
(Here specify whether the woodwork is to be painted or oiled. Painting in Carson's oak color being preferable for all wood exposed to the weather)

## Floor

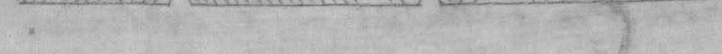
Fill in plinth with earth (specify sand if procurable) well ram the same put down a layer of old broken rubbish about 6 inches thick under the tiling and bring all to an even surface for the reception of the tiles. Lay a tiled floor of 6 inches square tiles.

N.B. The ordinary tiles may be greatly improved at a very little extra cost in the following manner Mould in slop work in the ordinary way and allow to dry until the earth just receives the impression of the finger pressed upon it generally from 48 to 72 hours. Then beat with a wooden mallet on a hard surface to about  an inch thickness from say $1\frac{1}{2}$ inches. provide a template the size of the tile required and cut with sloping sides.

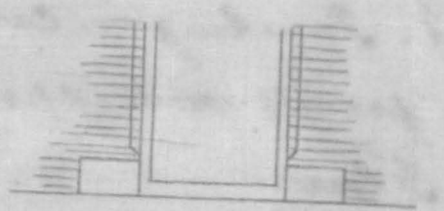




when laid the underside should be turned up thus.



the texture of the earth being closure will require heavier firing When stone is cheap it will add much to the durability of the building to curb the verandah with stone and to place stone at the bottom of all openings



## Terrace

Lay over ordinary terrace brick in mortar 9" of broken material at the sides and 12 inches in the centre beat down to 6" and 8" beat mortar on the top of this and finish off (here specify the particular method employed in the District)

## Ironmonger

Provide iron doors as shown on the drawing neatly rivetted, bolted, or screwed as the case may be

Provide for the entrance a rim lock with a key hole on either side, the other iron gratings may be padlocked.

## Plasterer

Plaster the whole of the interior and exterior with 2 coats of plaster making the last coat sufficiently smooth for the after reception of wash.

Wash the interior and exterior with two

coats of wash well sized.

The general tint of the interior should be composed of

| | | |
|---|---|---|
| 40 | parts | Lime |
| 1 | part | yellow ochre |

This tint should be used on the parts marked A exterior, those marked B should be washed with

| | | |
|---|---|---|
| 200 | Parts | Lime |
| 8 | " | yellow ochre |
| 2 | " | Red ochre |
| 1 | " | Lamp Black |

The imitation arch bricks marked C

| | | |
|---|---|---|
| 20 | Parts | Lime |
| 5 | " | yellow ochre |
| 10 | " | Red ochre |

The colors may be renewed from year to year and will always have a neat and finished appearance.

## Materials

The Bricks will be cast in a mould

× × well burnt and free from defects.

The Timber will be well seasoned sound and free from defects.

The Lime will be collected at properly burnt and slaked.

The sand will be collected at ........

The ironwork will be procured from the Govt. workshops.

Consg Archts Office
Chepauk 15th Jany 1880

R Chisholm
Consg Archt to Govt.

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Estimate of the cost of constructing a 1st class Police Station House according to Standard Design No. 1 Dated 15th January 1880.

Detailed quantities

| Description of work | No. | L B D | Contents | Total. |
|---|---|---|---|---|
| **Excavation for foundations** | | | | |
| Outer walls | | 112 . 04 . 03 . 0 | 1344 | |
| Partitions | 2 | 12 . 34 . 03 . 0 | 294 | |
| Do | 1 | 6 . 33 . 63 . 0 | 66 | |
| Verandah walls | | 48 . 33 . 63 . 0 | 507 | |
| Steps | | 11 . 63 . 01 . 6 | 52 | |
| Cubic ft. | | | 2263 | |
| Cubic yards | | | | 84 |
| **Earthfilling in basement** | | | | |
| Guard room | 1 | 18 . 015 . 01 . 6 | 405 | |
| Lock-up | 1 | 9 . 015 . 01 . 6 | 203 | |
| Do and Inspectors | 2 | 9 . 07 . 1½ 1 . 6 | 192 | |
| Verandah | 1 | 37 . 06 . 31 . 6 | 347 | |
| Cubic feet | | | 1147 | |
| Cubic yds. | | | | 43 |
| **Concrete 12 inches thick** | | | | |
| Excavation 2211 Cft. ÷ 3 = | | | 737 | |
| Steps | 1 | 11 . 63 . 01 . 0 | 35 | |
| Cubic ft. | | | 772 | |
| **Brickwork in foundations footings.** | | | | |
| Outer walls | | 112 . 02 . 31 . 6 | 378 | |

|  |  |  |  |  |
|---|---|---|---|---|
|  |  | Brought forwarde |  | 378 |
| Partitions | 2 | 14 · 02 · 31 · 6 | 95 |  |
| Do | 1 | 8 · 01 · 91 · 6 | 21 |  |
| Verandah walls |  | 50 · 01 · 91 · 6 | 131 |  |
| Above footings to ground level |  |  |  |  |
| Outer walls |  | 112 · 01 · 30 · 6 | 70 |  |
| Extra thickness for plinth |  | 79 · 60 · 30 · 6 | 10 |  |
| Partitions | 2 | 15 · 01 · 30 · 6 | 19 |  |
| Do | 1 | 9 · 00 · 90 · 6 | 3 |  |
| Verandah walls |  | 51 · 00 · 90 · 6 | 19 |  |
| Steps | 1 | 11 · 63 · 00 · 6 | 17 |  |
|  |  | Cubic ft. | 763 |  |

## Brickwork in basement

|  |  |  |  |  |
|---|---|---|---|---|
| Outer walls |  | 112 · 01 · 32 · 0 | 280 |  |
| Extra thickness for plinth |  | 79 · 60 · 32 · 0 | 40 |  |
| Partitions | 2 | 15 · 01 · 32 · 0 | 75 |  |
| Do | 1 | 9 · 00 · 92 · 0 | 14 |  |
| Verandah walls |  | 51 · 01 · 92 · 0 | 77 |  |
| Steps | 1 | 11 · 63 · 00 · 6 | 17 |  |
| Do | 1 | 9 · 62 · 00 · 6 | 10 |  |
| Do | 1 | 7 · 61 · 00 · 6 | 4 |  |
|  |  |  |  | 517 |
| Deduct stone in steps |  |  |  | 21 |
|  |  | Cubic ft. |  | 496 |

## Brickwork in superstructure

|  |  |  |  |  |
|---|---|---|---|---|
| Outer walls |  | 112 · 01 · 312 · 0 | 1680 |  |
| Partitions | 2 | 15 · 01 · 312 · 0 | 450 |  |
| Do | 1 | 9 · 00 · 912 · 0 | 81 |  |
| Parapet |  | 115 · 00 · 60 · 9 | 43 |  |
|  |  |  |  | 2254 |
| **Deductions** |  |  |  |  |
| Doors | 2 | 3 · 91 · 36 · 6 | 61 |  |
| Do | 4 | 2 · 91 · 36 · 0 | 83 |  |
| Window | 1 | 3 · 01 · 34 · 0 | 15 |  |
|  |  | Carried over | 159 |  |

|  |  |  |  |  |
|---|---|---|---|---|
|  |  | Brought forward | 159 |  |
| Ventilators | 12 | 4 · 91 · 31 · 6 | 107 |  |
| Archwork as per details below |  |  | 33 |  |
|  |  |  |  | 299 |
|  |  | Cubic feet |  | 1955 |

## Archwork

|  |  |  |  |
|---|---|---|---|
| Segmental arch over doors | 2 | 4 · 61 · 31 · 0 | 33 |
| Do Do | 4 | 3 · 61 · 31 · 0 |  |
| Do window | 1 | 3 · 61 · 31 · 0 |  |
|  |  | Cubic ft. | 33 |

## Stonework if easily procured

|  |  |  |
|---|---|---|
| Steps | 34 · 01 · 30 · 6 | 21 Cft |

## Teakwood

|  |  |  |  |
|---|---|---|---|
| Posts | 6 | 0 · 50 · 67 · 9 | 8 |
| Brackets | 12 | 1 · 10 · 40 · 10 | 4 |
| Breastsummer |  | 42 · 00 · 50 · 7 | 10 |
| Joists for verandah | 29 | 9 · 00 · 30 · 5 | 27 |
| Beam | 1 | 17 · 30 · 91 · 0 | 13 |
| Joists | 11 | 31 · 60 · 30 · 5 | 36 |
| Do | 12 | 12 · 60 · 30 · 5 | 16 |
| Waling pieces | 2 | 43 · 00 · 30 · 5 | 9 |
| Do | 2 | 19 · 60 · 30 · 5 | 4 |
| Cantilevers | 54 | 2 · 30 · 30 · 5 | 12 |
|  |  | Cubic ft. | 139 |

## Iron doors

|  |  |  |  |  |
|---|---|---|---|---|
| Inner doors | 4 | 2 · 9 | 6 · 0 | 66 sq ft. |

## Teak battendoors with frames and fastenings

|  |  |  |  |  |
|---|---|---|---|---|
| Outer doors | 2 | 3 · 9 | 6 · 6 | 49 sq ft. |

Batten window

| | | | | |
|---|---|---|---|---|
| | 1 | 3 · 0 | 4 · 0 | 12 Sq.ft |

Ventilators, wooden frames and venetians and iron bars

| | | | | |
|---|---|---|---|---|
| | 12 | 4 · 9 | 1 · 6 | 86 Do |

Stones under posts 1'×1'×4" 6 in Number

Stones under beams 1¼'×2'×4" 2 in Number

Mouldings over exterior openings

| | | | |
|---|---|---|---|
| Doors | 2 | 5 · 0 | 10 |
| Window | 1 | 4 · 6 | 4½ |
| | | Linealft | 14½ |

✓

Plastering interior and washing

| | | | | | |
|---|---|---|---|---|---|
| Guard room | | 66 · 0 | 12 · 0 | 792 | |
| Lock up | | 48 · 0 | 12 · 0 | 576 | |
| do and Inspectors | 2 | 32 · 3 | 12 · 0 | 774 | |
| Door Jambs | 2 | 17 · 0 | 1 · 3 | 43 | |
| Do | 4 | 15 · 0 | 1 · 3 | 75 | |
| Window Jambs | 1 | 14 · 0 | 1 · 3 | 18 | |
| Ventilator Do | 12 | 7 · 9 | 1 · 3 | 116 | |
| | | | | | 2394 |
| Deductions | | | | | |
| Doorway | 2 | 3 · 9 | 6 · 6 | 49 | |
| Do | 2× 4 | 2 · 9 | 6 · 0 | 132 | |
| Window | 1 | 3 · 0 | 4 · 0 | 12 | |
| Ventilators | 12 | 4 · 9 | 1 · 6 | 86 | |
| | | | | | 279 |
| | | | | squarefeet | 2115 |
| | | | | squares | 21·15. |

Plastering exterior and washing

| | | | | | |
|---|---|---|---|---|---|
| Basement | | 132 · 6 | 2 · 0 | 265 | |
| Superstructure | | 117 · 0 | 12 · 0 | 1404 | |
| Parapet | | 117 · 0 | 5 · 3 | 614 | |
| | | | | | 2283 |
| Deductions | | | | | |
| Doors | 2 | 3 · 9 | 6 · 6 | 49 | |
| Window | 1 | 3 · 0 | 4 · 0 | 12 | |
| Ventilators | 12 | 4 · 9 | 1 · 6 | 86 | |
| | | | | | 147 |
| | | | | squarefeet | 2136 |
| | | | | squares | 21·36 |

Terracing

| | | | | |
|---|---|---|---|---|
| Main Building | 19 · 6 | 43 · 0 | 839 | |
| Verandah | 8 · 0 | 41 · 0 | 328 | |
| | | | squareft | 1167 |
| | | | squares | 11·67 |

Flooring with square tiles

| | | | | | |
|---|---|---|---|---|---|
| Guard room | 1 | 15 · 0 | 18 · 0 | 270 | |
| Inspector's room | 1 | 7 · 1½ | 9 · 0 | 64 | |
| Verandah | 1 | 38 · 6 | 7 · 0 | 270 | |
| Door pieces | 2 | 3 · 9 | 1 · 3 | | |
| Do | 1 | 2 · 9 | 1 · 3 } | 13 | |
| Do | 3 | 2 · 9 | 0 · 7½ | 5 | |
| | | | | squarefeet | 622 |
| | | | | squares | 6·22 |

Flooring with Jelly 6" thick and painting over with a Composition of 1 lb of asphalte to 5 lbs of tar.

| | | | | |
|---|---|---|---|---|
| Lock up | 1 | 15 · 0 | 9 · 0 | 135 |
| Do | 1 | 7 · 1½ | 9 · 0 | 64 |
| | | | Carried over | 199 |

| | | | | | |
|---|---|---|---|---|---|
| | | | Brought forward | | 199 |
| Door pieces | | 3 | 2 · 9 | 0 · 7½ | 5 |
| | | | | squareft | 204 |
| | | | | squares | |

Painting with 3 Coats of carson's oak Color

| | | | | | |
|---|---|---|---|---|---|
| Doors | 2× | 2 | 3 · 9 | 6 · 6 | 98 |
| D° | 2× | 4 | 2 · 9 | 6 · 0 | 132 |
| Window | 2× | 1 | 3 · 0 | 4 · 0 | 24 |
| Ventilators with venetians | 3× | 12 | 4 · 9 | 1 · 6 | 257 |
| Posts | | 6 | 1 · 8 | 7 · 6 | 75 |
| Breastsummers | | | 38 · 6 | 2 · 0 | 77 |
| Joists | | 29 | 8 · 0 | 1 · 1 | 257 |
| Beam | | 1 | 15 · 0 | 2 · 9 | 41 |
| Joists | | 11 | 25 · 0 | 1 · 1 | 680 |
| D° | | 12 | 10 · 0 | 1 · 1 | |
| Waling pieces | | 2 | 43 · 0 | 1 · 1 | |
| D° | | 2 | 19 · 6 | 1 · 1 | |
| Cantilevers | | 54 | 2 · 0 | 1 · 1 | |
| | | | | squarefeet | 1635 |
| | | | | Squares | 16·35 |

| | |
|---|---|
| Armpacks for 10 rifles | 7 Linealft |
| Pegs for accoutrements | 12 in Number |
| Moveable shelf for Inspector's room | 1 in Number |

Chief Office of the I.G. of Police
[illegible] January 1880

W. Guthrie

Ag. Asst. Insp. Genl.
Insp. Genl. of Police

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## Abstract

| Quantity | Item | Rate | Per | amount |
|---|---|---|---|---|
| 84 Cyds | Excavation for foundations | | | |
| 43 " | Earthfilling in basement | | | |
| 772 Cft | Concrete | | | |
| 763 " | Brickwork in foundations | | | |
| 496 " | D° in basement | | | |
| 1955 " | D° in superstructure | | | |
| 33 " | Archwork | | | |
| 21 " | Cutstonework in steps (if easily procured) | | | |
| 139 " | Teakwood wrought and put up | | | |
| 66 sft | Iron inner doors | | | |
| 49 " | Teak batten door with frames complete | | | |
| 12 " | Batten window | | | |
| 86 " | Ventilators with venetians and iron bars | | | |
| 6 N° | Stones under posts | | | |
| 2 " | D° under beam | | | |
| 14½ Lft | Moulding over exterior opening | | | |
| 21·15 sqs | Plastering interior and washing | | | |
| 21·36 " | D° exterior D° | | | |
| 11·67 " | Terracing | | | |
| 6·22 " | Flooring with square tiles | | | |
| 2·04 " | Flooring wards with Jelly 6 inches thick and painting with tar and asphalte composition | | | |
| 16·35 " | Painting with 3 Coats of carson's oak color | | | |
| 7 Lft | Arm Rack for 10 Rifles | | | |
| 12 N° | Pegs for accoutrements | | | |

Carried over

Brought forward Rs

1 No. Moveable shelf for Inspectors room

Rupees

Contingencies at 5 percent

Total Rupees

Chief Office of the I.G. of Police
Madras 2[illegible] January 1880

Ag. Asst. Insp. Genl. [illegible]
[illegible] of Police

R. Chisholm
Consulting Architect to Govt.

P.W.D.
17 JAN 80
No.

Detailed quantities for a
1st class Police Station
with terraced roofing

Design No. 1

Procs of Govt D/26th Feb/80 No 435 W

Back No. 60

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# Estimate of the cost of constructing a 2d class Police Station House according to standard Design No. 2, dated 15th January 1880

## Detailed quantities

| Description of work | No. | L. | B. | D. | Contents | Total |
|---|---|---|---|---|---|---|
| **Excavation for foundations** | | | | | | |
| Outer walls | | 100 | 04 | 03 . 0 | 1200 | |
| Partitions | 2 | 12 | 34 | 03 . 0 | 294 | |
| Do. | 1 | 6 | 33 | 63 . 0 | 66 | |
| Verandah walls | | 41 | 33 | 63 . 0 | 433 | |
| Steps | | 10 | 03 | 01 . 6 | 45 | |
| Cubic feet | | | | | 2038 | |
| Cubic yards | | | | | | 76 |
| **Earthfilling in basement** | | | | | | |
| Guard room | 1 | 12 | 015 | 01 . 6 | 270 | |
| Lock up | 1 | 9 | 015 | 01 . 6 | 203 | |
| Lock-up and Inspector's | 2 | 9 | 07 | ½1 . 6 | 192 | |
| Verandah | | 31 | 05 | 91 . 6 | 267 | |
| Cubic feet | | | | | 932 | |
| Cubic yards | | | | | | 35 |
| **Concrete 12 inches thick** | | | | | | |
| ∴ Excavation 1993 Cubic ft. ÷ 3 = | | | | | 664 | |
| steps | 1 | 10 | 03 | 01 . 0 | 30 | |
| Cubic feet | | | | | 694 | |

## Brick in foundations

| | | | |
|---|---|---|---|
| footings | | | |
| Outer walls | | 100 . 02 . 31 . 6 | 338 |
| Partitions | 2 | 14 . 02 . 31 . 6 | 95 |
| Do | 1 | 8 . 01 . 91 . 6 | 21 |
| Verandah walls | | 43 . 01 . 91 . 6 | 113 |
| Above footings to ground level | | | |
| Outer walls | | 100 . 01 . 30 . 6 | 63 |
| Extra thickness for plinth | | 72 . 60 . 30 . 6 | 9 |
| Partitions | 2 | 15 . 01 . 30 . 6 | 19 |
| Do | 1 | 9 . 00 . 90 . 6 | 3 |
| Verandah walls | | 44 . 00 . 90 . 6 | 17 |
| Steps | 1 | 10 . 03 . 00 . 6 | 15 |
| | | Cubic feet | 693 |

## Brickwork in basement

| | | | | |
|---|---|---|---|---|
| Outer walls | | 100 . 01 . 32 . 0 | 250 | |
| Extra thickness for plinth | | 73 . 60 . 32 . 0 | 37 | |
| Partitions | 2 | 15 . 01 . 32 . 0 | 75 | |
| Do | 1 | 9 . 00 . 92 . 0 | 14 | |
| Verandah walls | | 44 . 00 . 92 . 0 | 66 | |
| Steps | 1 | 10 . 03 . 00 . 6 | 15 | |
| Do | 1 | 8 . 02 . 00 . 6 | 8 | |
| Do | 1 | 6 . 01 . 01 . 6 | 3 | |
| | | | | 468 |
| Deduct stone in steps | | | | 19 |
| | | | Cubic feet | 449 |

## Brickwork in Superstructure

| | | | | |
|---|---|---|---|---|
| Outer walls | | 100 . 01 . 312 . 0 | 1500 | |
| Partitions | 2 | 15 . 01 . 312 . 0 | 450 | |
| Do | 1 | 9 . 00 . 912 . 0 | 81 | |
| Parapet | | 103 . 00 . 60 . 9 | 39 | |
| | | | | 2070 |
| Deductions | | | | |
| Door | 1 | 3 . 91 . 36 . 6 | 30 | |
| Door | 4 | 2 . 91 . 36 . 0 | 83 | |
| Window | 1 | 3 . 01 . 34 . 0 | 15 | |
| Ventilators | 10 | 4 . 91 . 31 . 6 | 89 | |
| Archwork as per details below | | | 28 | |
| | | | | 245 |
| | | | Cubic feet | 1825 |

## Archwork

| | | | |
|---|---|---|---|
| Segmental arch over door | 1 | 4 . 61 . 31 . 0 | 28 |
| Do Do | 4 | 3 . 61 . 31 . 0 | |
| Do window | 1 | 3 . 61 . 31 . 0 | |
| | | Cubic feet | 28 |

## Stonework of easily procured

| | | |
|---|---|---|
| Steps | 31 . 01 . 30 . 6 | 19 Cft |

## Teakwood

| | | | |
|---|---|---|---|
| Posts | 6 | 0 . 50 . 57 . 9 | 8 |
| Brackets | 12 | 1 . 10 . 40 . 10 | 4 |
| Breastsummer | | 34 . 00 . 50 . 7 | 8 |
| Joists for verandah | 24 | 8 . 60 . 30 . 5 | 21 |
| Joists for Guard room | 11 | 14 . 00 . 40 . 7 | 30 |
| Do for Lock up | 23 | 12 . 30 . 30 . 5 | 29 |
| Waling pieces | 2 | 37 . 00 . 30 . 5 | 23 |
| Do | 2 | 19 . 60 . 30 . 5 | |
| Cantilevers | 46 | 2 . 30 . 30 . 5 | |
| | | Cubic ft. | 123 |

## Iron inner doors

| | | | |
|---|---|---|---|
| 4 | 2 . 9 | 6 . 0 | 66 Sqft. |

## Teak batten entrance door with frames and fastenings

| | | | |
|---|---|---|---|
| 1 | 3 . 9 | 6 . 6 | 24 Sqft |

### Batten window with frames and fastenings

| | | | | |
|---|---|---|---|---|
| 1 | 3 - 0 | 4 - 0 | 12 | Sq: ft |

### Ventilators wooden frames and venetians with iron bars

| | | | | |
|---|---|---|---|---|
| 10 | 4 - 9 | 1 - 6 | 71 | Do |

### Stones under posts 1'×1'×4"

6 in Number

### Mouldings over exterior openings

| | | | |
|---|---|---|---|
| Door | 1 | 5 - 0 | 5 |
| Window | 1 | 4 - 6 | 4½ |
| | | Lineal ft | 9½ |

### Plastering interior & washing

| | | | | | |
|---|---|---|---|---|---|
| Guard room | | 54 - 0 | 12 - 0 | 648 | |
| Lock-up | | 48 - 0 | 12 - 0 | 576 | |
| Lock-up and Inspectors | 2 | 32 - 3 | 12 - 0 | 774 | |
| Door jambs | 1 | 17 - 0 | 1 - 3 | 21 | |
| Do | 4 | 15 - 0 | 1 - 3 | 75 | |
| Window jambs | 1 | 14 - 0 | 1 - 3 | 18 | |
| Ventilator | 10 | 7 - 9 | 1 - 3 | 97 | |
| | | | | | 2209 |
| Deductions | | | | | |
| Doorway | 1 | 3 - 9 | 6 - 6 | 24 | |
| Do | 2× 4 | 2 - 9 | 6 - 0 | 132 | |
| Window | 1 | 3 - 0 | 4 - 0 | 12 | |
| Ventilator | 10 | 4 - 9 | 1 - 6 | 71 | |
| | | | | | 239 |
| | | | square feet | | 1970 |
| | | | Squares | | 19.70 |

### Plastering exterior and washing

| | | | | |
|---|---|---|---|---|
| Basement | 119 - 6 | 2 - 0 | 239 | |
| Superstructure | 105 - 0 | 12 - 0 | 1260 | |
| Parapet | 105 - 0 | 5 - 3 | 551 | |
| | | | | 2050 |
| Deductions | | | | |
| Door | 1 3 - 9 | 6 - 6 | 24 | |
| Window | 1 3 - 0 | 4 - 0 | 12 | |
| Ventilator | 10 4 - 9 | 1 - 6 | 71 | |
| | | | | 107 |
| | | square feet | | 1943 |
| | | squares | | 19.43 |

### Terracing

| | | | | |
|---|---|---|---|---|
| Main building | 37 - 0 | 19 - 6 | 722 | |
| Verandah | 35 - 0 | 7 - 6 | 263 | |
| | | Square feet | 985 | |
| | | squares | | 9.85 |

### Flooring with square tiles

| | | | | |
|---|---|---|---|---|
| Guard room | 1 | 12 - 0 | 15 - 0 | 180 |
| Inspector's room | 1 | 9 - 0 | 7 - 1½ | 64 |
| Verandah | 1 | 32 - 6 | 6 - 6 | 211 |
| Door pieces | 1 | 3 - 9 | 1 - 3 | 8 |
| Do | 1 | 2 - 9 | 1 - 3 | |
| Do | 3 | 2 - 9 | 0 - 7½ | 5 |
| | | | squarefeet | 468 |
| | | | squares | 4.68 |

### Flooring with jelly 6" thick and painting over with a composition of 1 lb asphalte to 5 lbs of tar.

| | | | | |
|---|---|---|---|---|
| Lock-up | 1 | 15 - 0 | 9 - 0 | 135 |
| Do | 1 | 7 - 1½ | 9 - 0 | 64 |
| | | | Carried over | 199 |

| | | | | |
|---|---|---|---|---|
| Door pieces | Brought forward | | | 199 |
| | 3 | 2 - 9 | 0 - 7½ | 5 |
| | | | square ft. | 204 |
| | | | squares | 2.04 |

Painting with 3 coats of carson's oak color.

| | | | | | |
|---|---|---|---|---|---|
| Door | 2× | 1 | 3 - 9 | 6 - 6 | 49 |
| Do | 2× | 4 | 2 - 9 | 6 - 0 | 132 |
| Window | 2× | 1 | 3 - 0 | 4 - 0 | 24 |
| Ventilators with venetians | 3× | 10 | 4 - 9 | 1 - 6 | 214 |
| Posts | | 6 | 1 - 8 | 7 - 6 | 75 |
| Breastsummers | | | 32 - 6 | 2 - 0 | 65 |
| Joists | | 24 | 7 - 6 | 1 - 1 | 195 |
| " | | 11 | 14 - 0 | 1 - 6 | 231 |
| Joists for lock up &c | | 23 | 12 - 3 | 1 - 1 | 540 |
| Waling pieces | | 2 | 37 - 0 | 1 - 1 | |
| Do | | 2 | 19 - 6 | 1 - 1 | |
| Cantilevers | | 46 | 2 - 3 | 1 - 1 | |
| | | | | square feet | 1525 |
| | | | | squares | 15.25 |

| | |
|---|---|
| Arm-Rack for 4 Rifles | 2¾ Lineal ft. |
| Pegs for accoutrements | 6 in Number |
| Moveable shelf for Inspector's room | 1 in Number |

Chief Office of the [illegible] Madras [illegible] January 1880

W. Guthrie
Major,

[illegible] for Inspector General of Police

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## Abstract

| Quantity | Item | Rate | Per | Amount |
|---|---|---|---|---|
| 76 Cyds | Excavation for foundation | | | |
| 35 " | Earthfilling in basement | | | |
| 694 Cft | Concrete | | | |
| 693 " | Brickwork in foundation | | | |
| 449 " | Do in basement | | | |
| 1,825 " | Do superstructure | | | |
| 28 " | Archwork | | | |
| 19 " | Stonework for steps if easily procured | | | |
| 123 " | Teakwood wrought and put up | | | |
| 66 Sft | Iron inner doors | | | |
| 24 " | Batten door for entrance with frames complete | | | |
| 12 " | Batten window | | | |
| 71 " | Ventilators, wooden frames & venetians and iron bars | | | |
| 6 No. | Stones under posts | | | |
| 9½ Lft | Moulding over exterior opening | | | |
| 19.70 sqrs | Plastering interior and washing | | | |
| 19.43 " | Do exterior Do | | | |
| 9.85 " | Terracing | | | |
| 4.68 " | Flooring with square tiles | | | |
| 2.04 " | Flooring with jelly 6 inches thick and painting over with tar & asphalte composition | | | |
| 15.25 " | Painting with 3 coats of carson's Oak color | | | |
| 2¾ Lft | Arm-Rack for four rifles | | | |
| 6 No. | Pegs for accoutrements | | | |

Carried over Rupees

Brought forward Rs

1 No. Moveable shelf for Inspectors room

Rupees

Contingencies at 5 percent

Total Rupees

Chief Office of the I. G. of Police Madras 28th January 1880

Guthrie

Ag. Asst. Insp. Genl. for Inspector General of Police.

R Chisholm - Consulting Architect to Govt.

No. 435 W

Batch No. 60

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14

29

Estimate of the cost of constructing a 3rd Class Police Station House according to Standard Design No. 3 dated 15th January 1880.

Detailed quantities

| Description of work | No. | L | B | D | Contents | Total |
|---|---|---|---|---|---|---|
| *Excavation for foundations* | | | | | | |
| Outer walls | | 69 . 64 . 03 . 0 | | | 945 | |
| Partition | 1 | 9 . 34 . 03 . 0 | | | | |
| Verandah walls | | 28 . 03 . 63 . 0 | | | 294 | |
| Steps | | 8 . 03 . 01 . 6 | | | 36 | |
| | | | | Cubic ft. | 1275 | |
| | | | | Cubic yds. | 48 | |
| *Earthfilling in basement* | | | | | | |
| Guard room | 1 | 12 . 012 . 01 . 6 | | | 342 | |
| Lock up | 1 | 7 . 012 . 01 . 6 | | | | |
| Verandah | 1 | 18 . 95 . 31 . 6 | | | 148 | |
| | | | | Cubic ft. | 490 | |
| | | | | Cubic yds. | 18 | |
| *Concrete 12" thick* | | | | | | |
| Excavation | 1239 ÷ 3 = | | | Cubic ft. | 413 | |
| Steps | | 8 . 03 . 01 . 0 | | | 24 | |
| | | | | Cubic feet | 437 | |

38

### Brickwork in foundations

footings

| | | |
|---|---|---|
| Outer walls | 69.62.31.6 | 272 |
| Partition | 1 11.02.31.6 | |
| Verandah wall | 29.91.91.6 | 78 |
| **Above footings to ground level** | | |
| Outer walls | 69.61.30.6 | 51 |
| Partition | 1 12.01.30.6 | |
| Verandah walls | 30.90.90.6 | 12 |
| Steps | 8.03.00.6 | 12 |
| | Cubic ft. | 425 |

### Brickwork in basement

| | | |
|---|---|---|
| Outer walls | 69.61.32.0 | 174 |
| Extra thickness for plinth | 55.30.32.0 | 28 |
| Partition | 1 12.01.32.0 | 30 |
| Verandah walls | 30.90.92.0 | 46 |
| Steps | 1 8.03.00.6 | 12 |
| " | 1 6.02.00.6 | 6 |
| " | 1 4.01.00.6 | 2 |
| | | 298 |
| Deduct stone in steps | Cubic ft | 16 |
| | Cubic ft | 282 |

### Brickwork in Superstructure

| | | |
|---|---|---|
| Outer walls | 69.61.311.6 | 1172 |
| partitions | 1 12.01.311.6 | |
| parapet | 72.60.60.9 | 27 |
| | | 1199 |

### Deductions

| | | |
|---|---|---|
| Door | 1 3.91.36.6 | 30 |
| Do | 1 2.91.36.0 | 21 |
| Ventilators | 6 4.91.31.6 | 53 |
| Archwork as per details | | 10 |
| | | 114 |
| | Cubic feet | 1085 |

### Archwork

| | | |
|---|---|---|
| Segmental Arch over door | 1 4.61.31.0 | 10 |
| Do Do | 1 3.61.31.0 | |
| | Cubic ft | 10 |

### Stonework if easily procured

| | | |
|---|---|---|
| Steps | 25.01.30.6 | 16 Cft |

### Teakwood

| | | |
|---|---|---|
| Posts | 4 0.50.57.6 | 5 |
| Brackets | 8 1.10.40.10 | 2 |
| Breastsummers | 21.00.50.7 | 5 |
| Joists for verandah | 16 8.00.30.5 | 13 |
| Do for guard room | 9 15.00.40.7 | 26 |
| Do lock up | 9 10.00.30.5 | 25 |
| waling pieces | 2 24.90.30.5 | |
| Do | 2 16.60.30.5 | |
| Cantilevers | 28 2.30.30.5 | |
| | Cubic ft | 76 |

### Iron door

| | | |
|---|---|---|
| 1 2.9 | 6.0 | 17 Sq ft |

### Teak batten door with frames and fastenings

| | | |
|---|---|---|
| 1 3.9 | 6.6 | 24 Sq ft |

### Ventilators wooden frames and Venetians and iron bars

| | | |
|---|---|---|
| 6 4.9 | 1.6 | 43 Sq ft |

Stones under posts 1' × 1' × 4" 4 in Number

Mouldings over exterior door 5 Linealft.

**Plastering interior and washing**

| | | | | | | |
|---|---|---|---|---|---|---|
| Guard room | | 1 | 48 - 0 | 11 - 6 | 989 | |
| Lock up | | 1 | 38 - 0 | 11 - 6 | | |
| Door jambs | | 1 | 17 - 0 | 1 - 3 | 98 | |
| Do. | | 1 | 15 - 0 | 1 - 3 | | |
| Ventilator Do | | 6 | 7 - 9 | 1 - 3 | | 1087 |
| **Deductions** | | | | | | |
| Doorway | | 1 | 3 - 9 | 6 - 6 | 24 | |
| Do | 2× | 1 | 2 - 9 | 6 - 0 | 33 | |
| Ventilators | | 6 | 4 - 9 | 1 - 6 | 43 | |
| | | | | | | 100 |
| | | | | | squarefeet | 987 |
| | | | | | squares | 9.87 |

**Plastering exterior and washing**

| | | | | |
|---|---|---|---|---|
| Basement | 88 - 0 | 2 - 0 | 176 | |
| Superstructure | 74 - 6 | 11 - 6 | 857 | |
| Parapet | 74 - 6 | 5 - 3 | 391 | |
| | | | | 1424 |
| **Deductions** | | | | |
| Door | 1 3 - 9 | 6 - 6 | 24 | |
| Ventilators | 6 4 - 9 | 1 - 6 | 43 | |
| | | | | - 67 |
| | | | squarefeet | 1357 |
| | | | squares | 13.57 |

**Terracing**

| | | | |
|---|---|---|---|
| Main Building | 24 - 9 | 16 - 6 | 408 |
| | | Carriedover | 408 |

| | | | |
|---|---|---|---|
| | | Braught forward | 408 |
| Verandah | 22 - 9 | 7 - 0 | 159 |
| | | squareft. | 607 |
| | | squares | 6.07 |

**Flooring with square tiles**

| | | | | |
|---|---|---|---|---|
| Guard room | 1 | 12 - 0 | 12 - 0 | 144 |
| Verandah | 1 | 20 - 3 | 6 - 0 | 122 |
| Door piece | 1 | 3 - 9 | 1 - 3 | 5 |
| Do. | 1 | 2 - 9 | 0 - 7½ | 2 |
| | | | squarefeet | 273 |
| | | | squares | 2.73 |

Flooring with jelly 6" thick and painting over with a composition of 1 lb asphalte to 5 lbs of tar.

| | | | | |
|---|---|---|---|---|
| Lock up | 1 | 7 - 0 | 12 - 0 | 84 |
| Door piece | 1 | 2 - 9 | 0 - 7½ | 2 |
| | | | squareft | 86 |
| | | | squares | .86 |

Painting with 3 coats of carson's oak color

| | | | | | |
|---|---|---|---|---|---|
| Door | 2× | 1 | 3 - 9 | 6 - 6 | 49 |
| Do | 2× | 1 | 2 - 9 | 6 - 0 | 33 |
| Ventilators with venetians | 3× | 6 | 4 - 9 | 1 - 6 | 128 |
| Posts | | 4 | 7 - 3 | 1 - 8 | 48 |
| Breastsummers | | | 20 - 3 | 2 - 0 | 41 |
| Joists | | 16 | 7 - 0 | 1 - 1 | 121 |
| | | | | Carried over | 420 |

6

1

|  |  |  |  |  |
|---|---|---|---|---|
|  | Brought forward |  |  | 420 |
| Joists | 9 | 15.0 | 1.4 | 180 |
| Do | 9 | 10.0 | 1.1 |  |
| Waling pieces | 2 | 24.9 | 1.1 | 255 |
| Do | 2 | 16.6 | 1.1 |  |
| Cantilevers | 28 | 2.3 | 1.1 |  |
|  |  |  | Squareft | 855 |
|  |  |  | squares | 8.55 |

| | |
|---|---|
| Arm Racks for 2 Rifles | 1½ Lineal ft |
| Pegs for accoutrements | 4 in Number |
| Moveable shelf for Records | 1 Do |

P.M. of Govt. 26 Feb./80
435 W.

[illegible] Office of Police
Madras 28th January 1880

Major

Chisholm

Ag. Asst. Insp. Genl.
for Inspector General of Police

17

## Abstract

| Quantity | Item | Rate | Per | amount |
|---|---|---|---|---|
| 48 Cyds | Excavation for foundations |  | Cyd |  |
| 18 " | Earthfilling in basement |  | " |  |
| 437 Cft | Concrete |  | Cft |  |
| 425 " | Brickwork in foundations |  | " |  |
| 282 " | Do in basement |  | " |  |
| 1085 " | Do in superstructure |  | " |  |
| 10 " | Archwork |  | " |  |
| 16 " | Stonework for steps if easily procured |  | " |  |
| 76 " | Teakwood wrought and put up |  | " |  |
| 17 Sft | Iron inner door |  | Sft |  |
| 24 " | Teak batten door with frames & fastenings |  | " |  |
| 43 " | Ventilators wooden frames & venetians and iron bars |  | " |  |
| 4 No | Stones under posts |  | each |  |
| 5 Lft | Mouldings over exterior door |  | Lft |  |
| 9.87 sqrs | Plastering interior and washing |  | sqrs |  |
| 13.57 " | Do exterior Do |  | " |  |
| 6.07 " | Terracing |  | " |  |
| 2.73 " | Flooring with square tiles |  | " |  |
| .86 " | Flooring with jelly 6" thick & painting with tar & asphalte composition |  | " |  |
| 8.55 " | Painting with 3 coats of carsons oak color |  | " |  |
| 1½ Lft | Arm rack for 2 Rifles |  | Lft |  |
| 4 No | Pegs for accoutrements |  | each |  |
| 1 " | Moveable shelf for records |  | " |  |
|  | Contingencies at 5 percent |  | " |  |
|  |  | Total Rupees |  |  |

[illegible]
Madras 28th January 1880

Ag. Asst. Insp. Genl.
for Inspector General of Police

Chisholm
Consg Archt to Govt

41

P.W.D.
17 JAN 80
No. [illegible]
3

Detailed quantities for a
3rd Class Police Station
with terraced roofing

Design No. 3

P.W.D.
17 JAN 80
No. ________

Specification for Police &
Stations with Terrace roofs.

Pr: of Govt. Dt. 26th Feb/80
No. 435

Back No. 60

---

**ROADS AND BUILDINGS.**

CONSULTING ARCHITECT'S OFFICE,
No. 519. Chepauk, 20th January 1879.

FROM
THE CONSULTING ARCHITECT TO GOVERNMENT,

TO
THE CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS AND ROADS BRANCH.

SIR,

Enclosures.
3 tracings
3 Estimates &
Specification

In compliance with the Order contained in Memo. No. 5341 dated the 29th November last, I have the honor to submit the approved designs for First, Second and Third Class Police Stations with detailed drawings, quantities and Specification.

The alternative designs for sloping tiled roofs are in hand, and will in due course be submitted.

I shall feel much obliged if you will forward proofs both of the drawings and printed matter for correction before circulating them.

I have the honor to be, Sir,
Your most obedient servant
R. Chisholm
Consulting Archt. to Govt.

ROADS AND BUILDINGS.

From
The Consulting Architect
to Government,

To
The Chief Engineer, P. W. Department,
Buildings and Roads Branch.

Pro. of Govt d/ 26th Feb/80 No 435

No. 519

Dated 20th January 1879

Received

No. of Enclosures. +4

+

Submits designs for 1st, 2nd and 3rd Class Police Station Houses.

Back No. 60

---

ROADS AND BUILDINGS.

No. 578

Consulting Architect's Office,
Chepauk, 3rd March 1879.

From
The CONSULTING ARCHITECT to GOVERNMENT,

To
The CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS and ROADS BRANCH.

Sir,

Enclosures.
3 Tracings
1 Specification and Estimate

In continuation of my letter No. 519 dated 20th January last, I have the honor to submit the alternative Standard designs for 1st, 2nd, and 3rd Police Station Houses with Sloped roofing together with Specification and detailed quantities.

I have the honor to be
Sir
your most Obedt. servt.
R. Chisholm
Consg. Archt. to Govermt.

## ROADS AND BUILDINGS.

TO BE RETURNED
[illegible]

From
The Consulting Architect
to Government,

To
The Chief Engineer, P. W. Department,
Buildings and Roads Branch.

Pros. of Govt. D/ 26th Feb/80
No. 435 W

No. 578

Dated 3d March 1879

Received
Ch. E. No. [illegible] d/ [illegible]

No. of Enclosures. 4

Submits alternative Standard designs and quantities for Police Station House with sloped roofing.

Back No. 60

---

P. W. DEPARTMENT.

READ the following :—

Letters from the Consg. Architect to Govt. No. 519 d/ 20th Jany. and No. 578 d/ 3d March /79. Memo: from the Inspr. Genl. of Police E. No. 3182 dated 12th July 1879.

FOR ORDERS.

The accompanying revised designs for 1st, 2nd and 3rd class Police stations, together with Specifications and detailed quantities, prepared by the Consulting Architect to Government and approved by the Inspector General of Police, are submitted for the approval of Government prior to being circulated for adoption as Standard plans in supersession of all previous designs.

I see nothing to object to the extent of accommodation & I gather that the ventilation is complete in the Lock-ups. I presume that the Ch. Engr. has satisfied himself that no unnecessary expense is involved in these designs & I therefore accept them. JM

I note in these plans some points needing remark -

designs:

FOR ORDERS.

R. D. Sankey Col: R.E.
Secy. to Govt. P.W.D.

[illegible]

15/7

[illegible] 16-7- Cu 19/7 Ptd 7. 8. 7[illegible]

[illegible]

---

1st no station should be so designed that three or four men cannot defend it —

In those plans men can mount the back in safety & strip or break open roof —

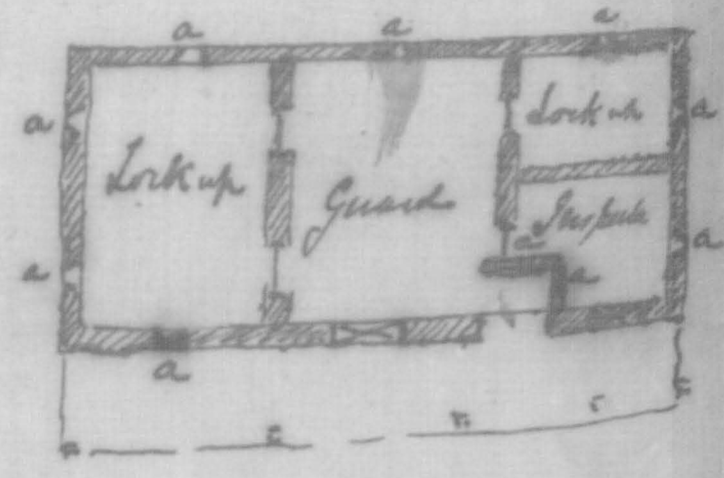
---

There should be loop holes built & so arranged as to enable the defenders to prevent any close approach to back or sides — The loop holes may be ordinarily stopped with a brick laid in dry but plastered on the inside

---

The doors of guard room are so placed that an attacking crowd can command the whole interior of the room from the street —

The door should be close to partition wall with a lobby or screen wall loop holed as on sketch. at a, a, a, ...



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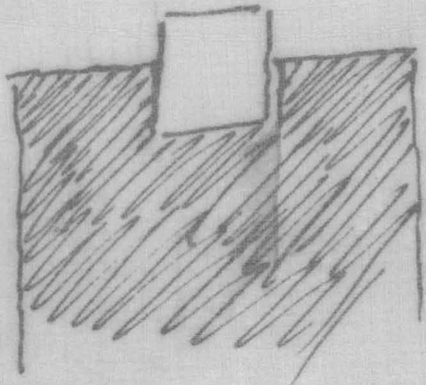
The window & doors should have stout 1½ in wooden shutters with small openings to fire through —

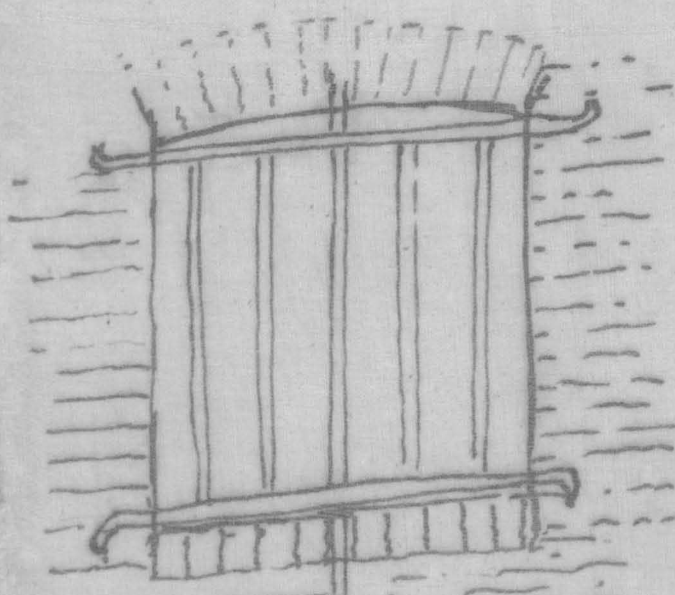
---

The window frames appear very insecurely fixed — according to the drawings the wooden frame is ~~built in~~ ~~without~~ merely placed

in the opening — not fixed ~~built~~ in either with horns of frame or by being built in with the bricks — if a wooden frame is used — it should be secured thus —



but I do not see why ~~the~~ ordinary mode of inletting the bars into a top & bottom bar — carried a sufficient length into the wall on either side. one of the centre bars being left with long ends also built in would not be —



better & more durable & secure —

in the same way the proposed door — is of iron but dependant on a wood frame — only secured by its tight fitting — and the sill being partly imbedded in the floor —

And the iron grate door has no stops — or other bearing except the Rim lock — which a single blow from the end of an heavy pole — would send flying —

I should suggest if an iron grate be necessary

that an iron frame be also used — properly built in & so formed that the door when closed rests against a strong stop bar —

I make these remarks because the plans would not be considered sufficient for any station in England — and appear to me to require attention in the points noted after they have received the fiat of I. G. of P. —

31/7

D. W

Please have attention drawn to the points alluded ~~to~~ by His Grace in ~~the~~ written note

31/7/79

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ROADS AND BUILDINGS.

No. 531

Consulting Architect's Office,
Chepauk, 28th Novr. 1879

From
The CONSULTING ARCHITECT to GOVERNMENT,

To
The CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS and ROADS BRANCH.

Sir,

Enclosures.
1 Specification
5 Tracings.
5 Detailed quantities
1 Letter.

I have the honor to submit plans returned to me with your Memo No. 2708 dated the 9th August last remodelled according to the instructions.

As the Memo in question does not lay down definitely whether iron bars or wooden doors are to be provided for the openings, I submit two sets of plans for the first and second class Stations, one with wooden doors, and one with iron bars. The Inspector General of Police (copy of whose letter I enclose) prefers the stout 1½" shutters and points out that when these are closed the screen wall will be useless. The plans I previously submitted with the addition of loop holes and the substitution of wooden doors for iron gratings would appear

appear to answer all requirements.

I have the honor to be
sir
your most Obedt. servant
M Nicholson
Consg Architect to Governmt

C.E. No. 2708 } 9-8-79
" 2708A }

P.W.D.
No 79

ROADS AND BUILDINGS.

From
The Consulting Architect
to Government,

To
The Chief Engineer, P. W. Department,
Buildings and Roads Branch.

Pro: of Govt. d/ 26th Feb/80
No 435 W

No. 531

Dated 28th November 1879

Received

1/12

No. of Enclosures. 12

Resubmits designs for Police Stations with terrace roofs

Circ 6-12

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P. W. SECRETARIAT—1879-80.

KEEP-WITH.

Current No. 8533

Letter No. 531

Dated the 28th Novr. 1879

from the Consulting Architect to Govt.—

Note of Remarks.

The revised Standard designs for Police Stns: with terrace roofs, submitted by the Consulting Architect, are remodelled in accordance to C. Engr. Memo: No: 2708 d/ 9-8-79; & are as follows,

Two sets of Plans, with detailed & Abstract Quantities, for the 1st & 2nd Class Stns:, one with wooden doors, & one with Iron bars—

One Plan, with detailed

and Abstract Quantities for 3rd Class Stns:—

one Specification for Police Stns: ~~with~~ Terrace Roofs —

These Standard designs are not countersigned by the Inspector Genl: of Police—

These designs are to be adopted in supersession of all previous designs, which will be lithographed and circulated— The lithographed copies will bear the Number and Date of the G. O. sanctioning these designs—

The Plans, Specification & Estes: has been Exd— and found

Correct,

I. D. J.
5/12/79

---

P. W. Dept.

Letter from the Consulting Architect to Government dated 28 November 1879 No 631.

---

H. C. 12/12
with modification suggested by I.G.P.

The accompanying revised designs for Police stations are resubmitted for approval.

R. H. Sankey Col R.E.
Secretary to Govt:

5.12

53

Memo 2708 - 2708 a - 9. 8. 79

Dis: 6-12-

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**ROADS AND BUILDINGS.**

CONSULTING ARCHITECT'S OFFICE,
Chepauk, 16 January 1880.

No. 578

FROM
THE CONSULTING ARCHITECT TO GOVERNMENT,

TO
THE CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS AND ROADS BRANCH.

SIR,

In compliance with your Memorandum No 3870 dated 17th December 1879, I have the honor to submit the Standard plans and Estimates for 1st 2d and 3d class Police Stations with terraced roofing revised in accordance with the letter from the Inspector General of Police No 5317 dated 27th November 1879.

Enclosures.
3 tracings
1 Specification
3 Detail of quantities

I have the honor to be
Sir
your most Obedt servt
R Chisholm
Consg Archt to Govt

Memo. No. 2708 } 29th Augt./79.
" " 2708 A }
" " 3370 — " 17th Decr./

P.W.D.
17JAN80
No.

ROADS AND BUILDINGS.

From
The Consulting Architect
to Government,

To
The Chief Engineer, P. W. Department,
Buildings and Roads Branch.

Pro: of Govt. D/ 26th Feb/80
No. 435 W

No. 578

Dated 16th January 1880

Received

No. of Enclosures. 7

Submits revised plans and quantities for Police Stations with terraced roofing.

Back No. 60

Divi: 6-12-

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57

ROADS AND BUILDINGS.

No. 594

CONSULTING ARCHITECT'S OFFICE,
Chepauk, 3d February 1880.

FROM
THE CONSULTING ARCHITECT TO GOVERNMENT,

TO
THE CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS AND ROADS BRANCH.

SIR,

Enclosures.
3 plans
3 Estimates
1 Specification

With reference to your memo No. 271 dated 23d January, I have the honor to resubmit the plans and Estimates for Police Stations countersigned by the Inspector General of Police.

I have the honor to be
Sir
your most Obedt. servant

R. Chisholm
Consg. Archt. to Governmt.

C.E. No 2408 } 9—8—77
" 2408 A }
" 3270 — 17—12—77
" 271 — 23—1—80

P.W.D.
3 FEB 80
No.

ROADS AND BUILDING

From
The Consulting Architect
to Government,

To
The Chief Engineer, P. W. Department,
Buildings and Roads Branch

No. 594

Dated 3rd February 1880
Received

No. of Enclosures.

Returns plans of Police Stations Countersigned by the Inspector General of Police.

Div: 7—2—80 P. 17
OC: 8-12-

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No. 379

# Memorandum

Letter from the Cong: Architect No. 594 d/ 3rd Feby 1880.

With reference to the Standard designs &c. for Police Stations submitted with the above, the undersigned has the honor to request the Cong: Architect will be so good as to state what saving would be effected by omitting the mouldings in the facades which are not considered absolutely necessary.

(Sd) J.P. Major R.E.
Ag Dy Chief Engr PWD

Chepauk }
14 Feby/80 }

To
The Cong Architect.

7 Govt of 26th Feb/80 No 435.W.

Back No. 60

ROADS AND BUILDINGS.

CONSULTING ARCHITECT'S OFFICE,
Chepauk, 16th February 1880.

No. 609

FROM
THE CONSULTING ARCHITECT TO GOVERNMENT,

TO
THE CHIEF ENGINEER, PUBLIC WORKS DEPARTMENT,
BUILDINGS AND ROADS BRANCH.

SIR,

Enclosures.

I have the honor to state in reply to your Memo No. 509 dated the 14th instant that the omissions of the mouldings will probably reduce the Estimates of the Police Stations by the following sums.

| | | |
|---|---|---|
| First class Station | Rupees | 3 - 10 - 0 |
| Second Class " | " | 2 - 6 - 0 |
| Third Class " | " | 1 - 4 - 0 |

I have the honor to be
Sir
Your most Obedt. servant
R. F. Chisholm
Consg. Archt. to Government

C. E. No. 809 16-2-80.

ROADS AND BUILDINGS.

P.W.D.
16FEB80
No. [illegible]

From
The Consulting Architect
to Government,

To
The Chief Engineer, P. W. Department,
Buildings and Roads Branch.

No. 809

Dated 16th February 1880
Received

Pro: of Govt. Dd. 26th Feb/80
No. 435 W

No. of Enclosures.

Cost of mouldings Police Stations

Back No. 809

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P. W. Dept.

Letter from the Consulting Architect to Govt.
No. 809 dated 16. Feby 1880.

Circulated for the information of the Honorable Mr. Hudleston with reference to his remarks on the draft order of the 6th instant. From the Cons'g Architect's letter, it will be observed that the cost of the "mouldings" forms but a very small item in the total estimate. It is proposed therefore to issue the order as it ~~it~~ stands. If the Hble Sees no objection

A. W. Sankey Col. R.E.
Secretary to Government
P. W. D.

17. 2

Pro: of Govt. 26th Feb/80

No. 435W

Book No. 60

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Cu/

87

PW Dept

No 435W dt 26th Feby/80

Proceedings of the Madras Govt

Read the following:- quote:

From the Cons: Architect to Govt. (H.E No. 579 of 20th Jan: 1879)

Do. Do – (" 578 of 3d March/79)

Do. Do – (" 531 of 28th Novr./79)

Do. Do (" 578 of 16th Jan/80)

Do. Do (" 594 of 3d Feb/80)

Do — Do – (– 609 of 16 – do/

18 The Govt approve the standard designs for Police Stations submitted by the Cons Architect, and direct their adoption in supersession of all previous designs for such buildings.

2. The designs will be lithographed and the specification and estimate of quantities printed and circulated

59

60

for the information
of the Department.

for W Huddleston

8 6.2

~~Att~~

6/2/80

5.2.80

Civ: 7-2-80

Supt Engrs 100 ✓
Cong Architect 3 ✓
Jnl Dept 51 ✓
Haus Destd 19-4-80-2
Destd 22-7-80.

for
of the

330
301
10th Sept. 96

109

880] Madras.

LIC WORKS.

1-3-80

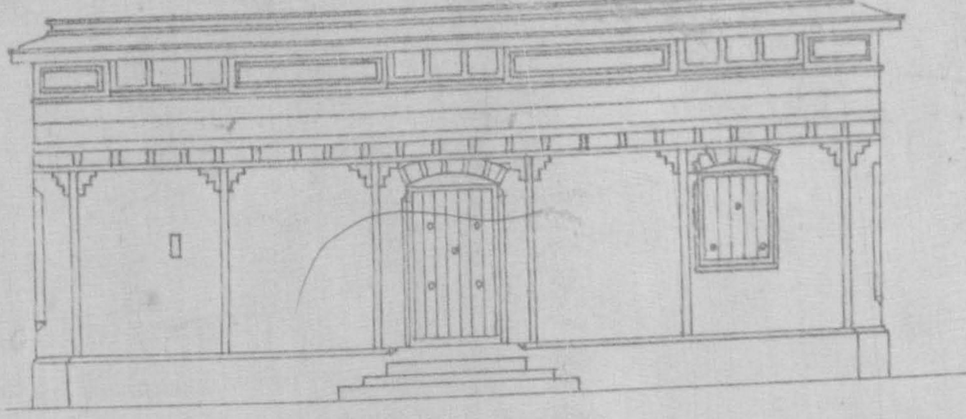
Encl.

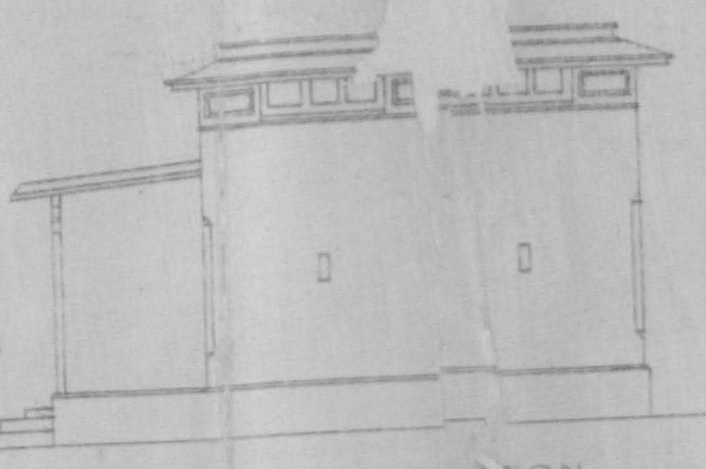
21 Feby 1880, No. 435W

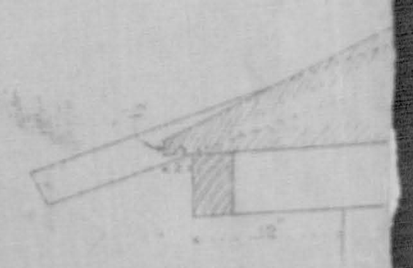
60-61

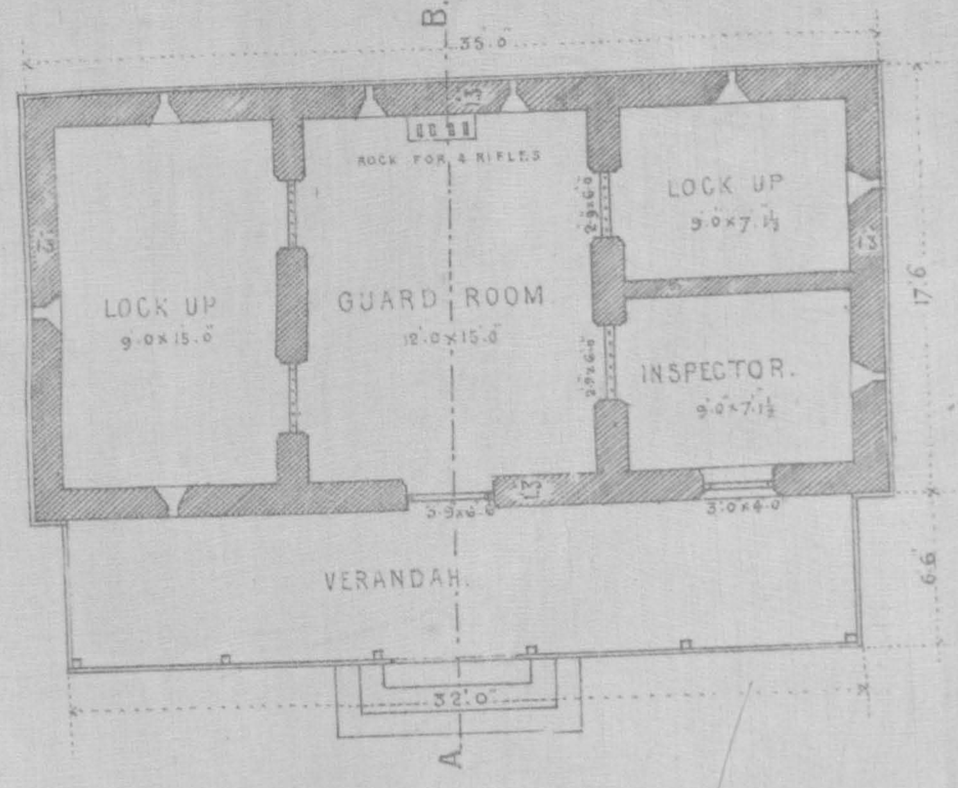
nd designs for
ns submitted
chitect, approved
to be adopted
ion of all
designs for such

# DESIGN FOR A 2ND CLASS POLICE STATION HOUSE

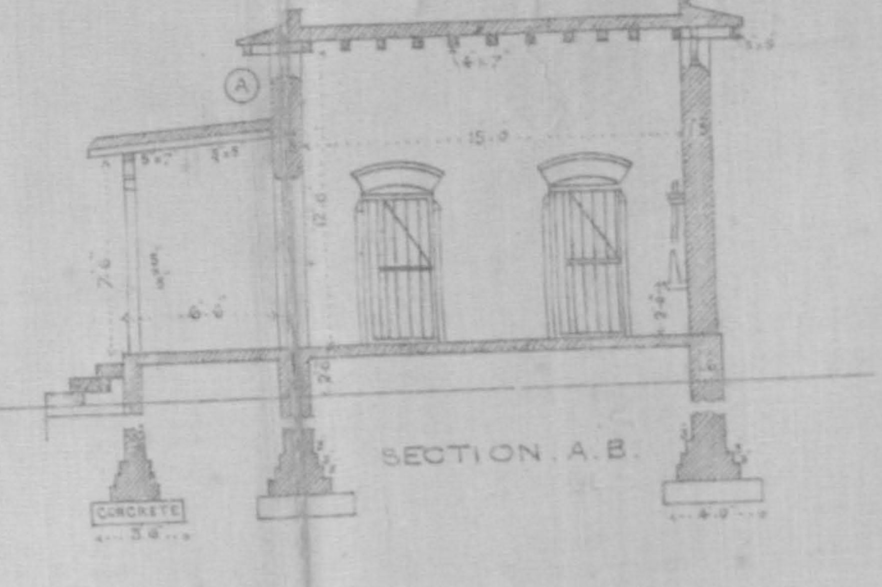

ELEVATION.


END ELEVATION.



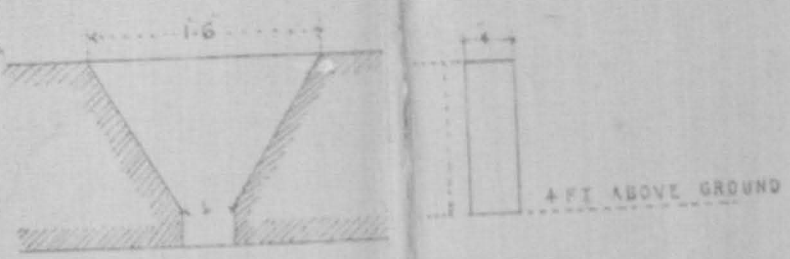


GENERAL PLAN.



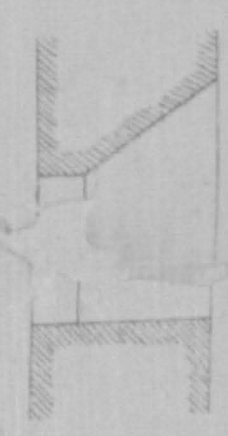
SECTION. A.B.

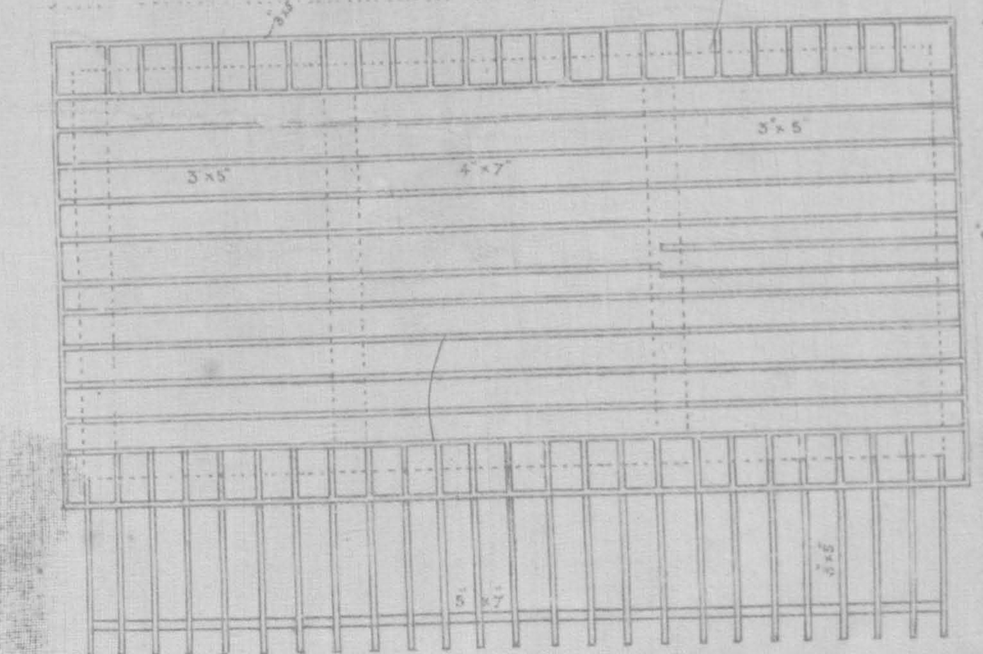
DETAILS OF LOOP HOLES.



SECTIONAL PLAN. EXTERIOR.

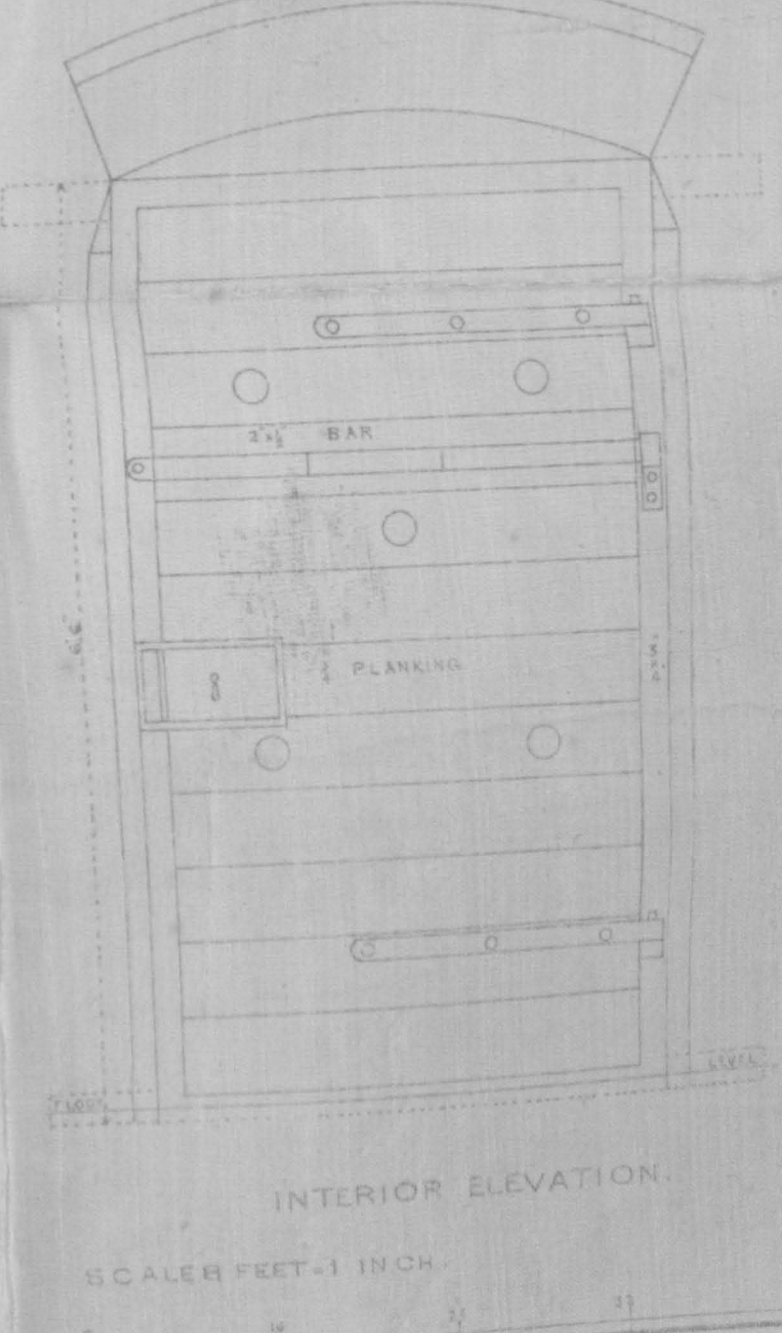
PROBABLE COST OF THIS BUILDING
ESTIMATED AT MADRAS RATES WILL BE
RUPEES. 1813





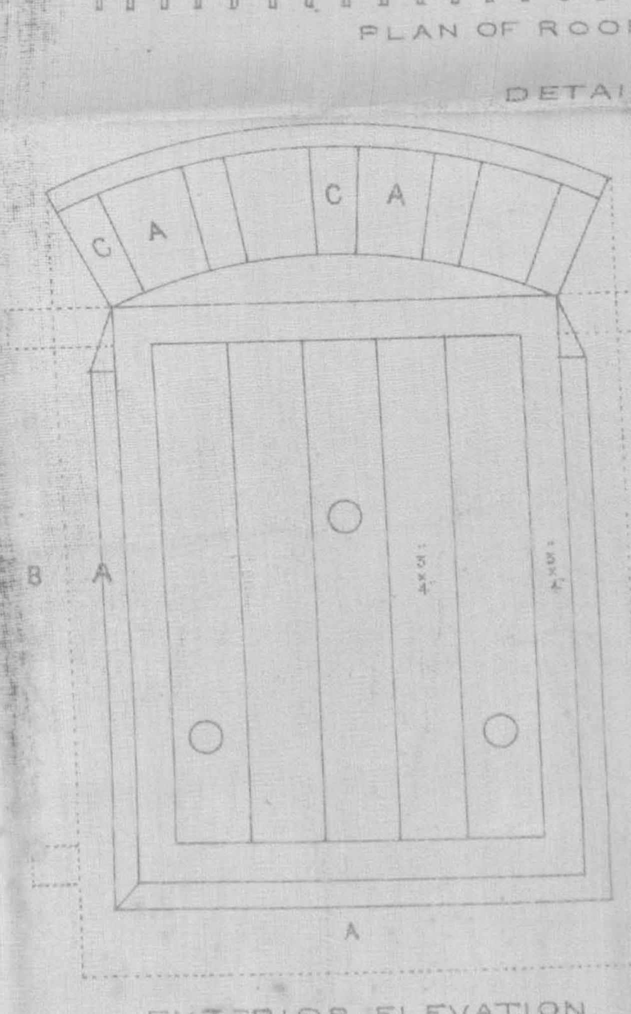
PLAN OF ROOF.

DETAILS OF ENTRA

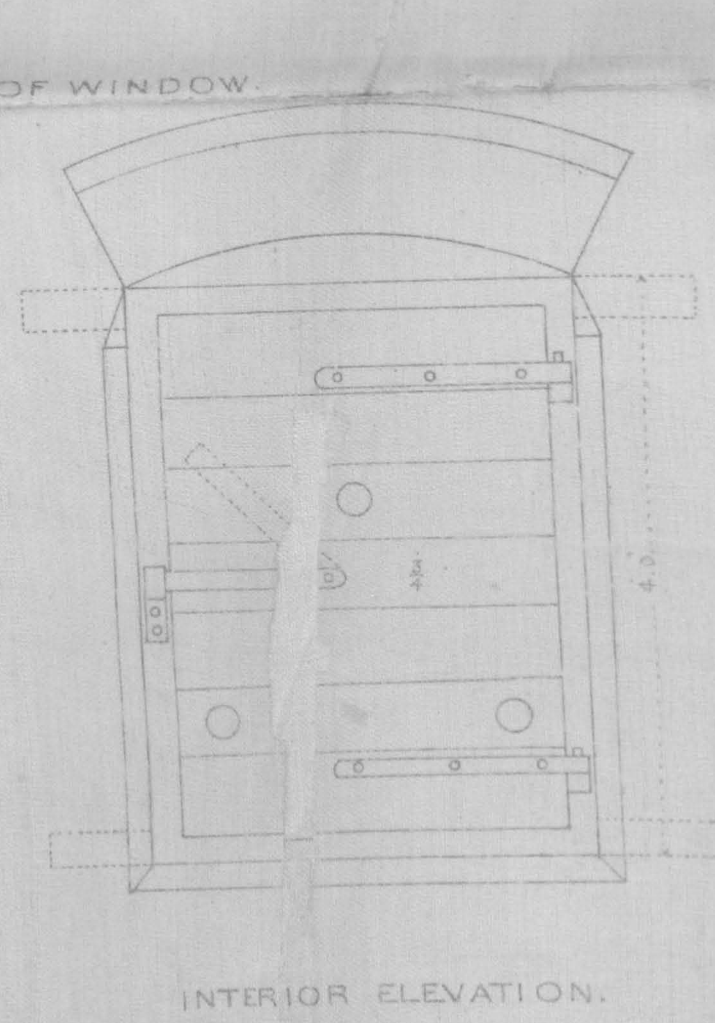


INTERIOR ELEVATION.

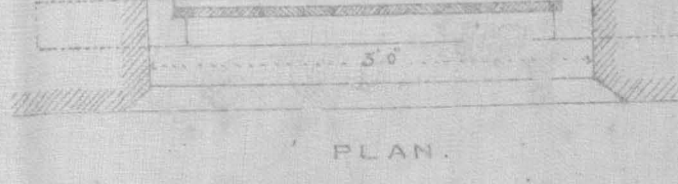
DETAILS OF WINDOW.



EXTERIOR ELEVATION.
B



INTERIOR ELEVATION.



PLAN.

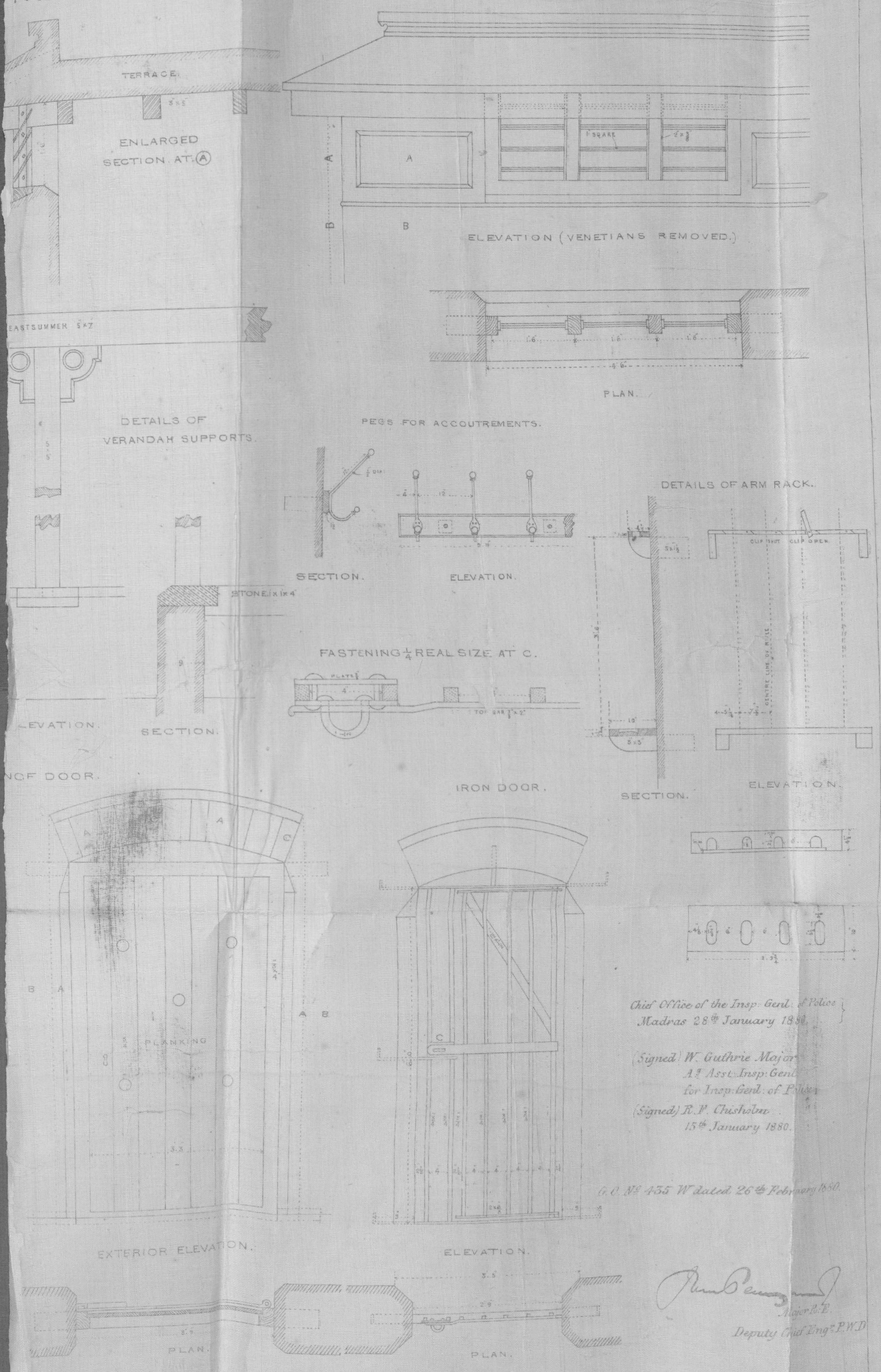
Supt. and Manager
Govt. Litho. Department

SCALE 8 FEET = 1 INCH

SCALE TO DETAILS ¾ OF AN INCH = 1 FOOT

Nº 2.

SHEET Nº 11.



*Chief Office of the Insp: Genl: of Police*
*Madras 28th January 1880.*

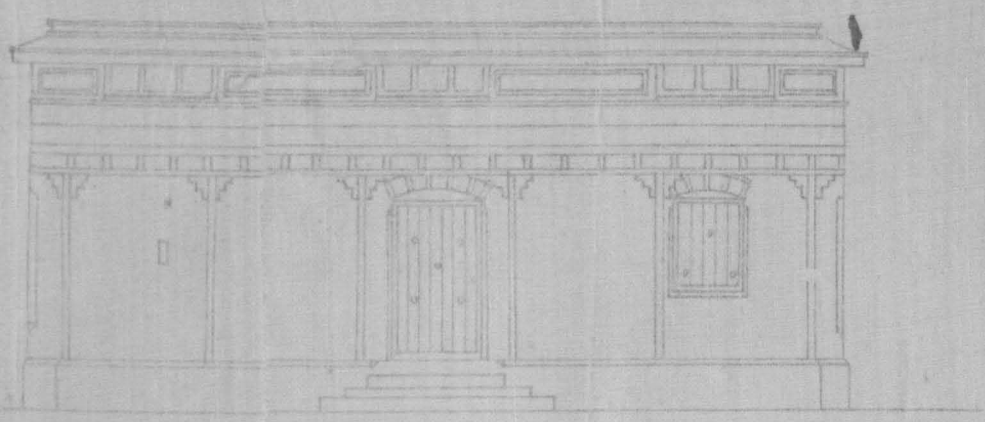
*(Signed) W. Guthrie Major*
*A? Asst: Insp: Genl*
*for Insp: Genl: of Police*

*(Signed) R. F. Chisholm*
*15th January 1880.*

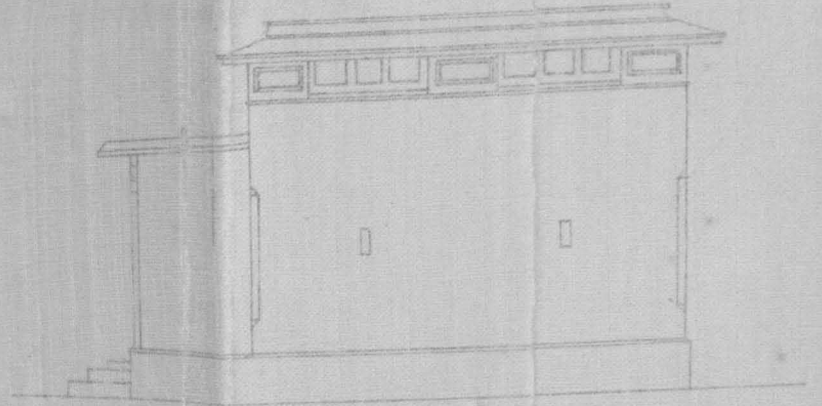
*G. O. No 435 W dated 26th February 1880.*

*Major R. E.*
*Deputy Chief Engr P.W.D*

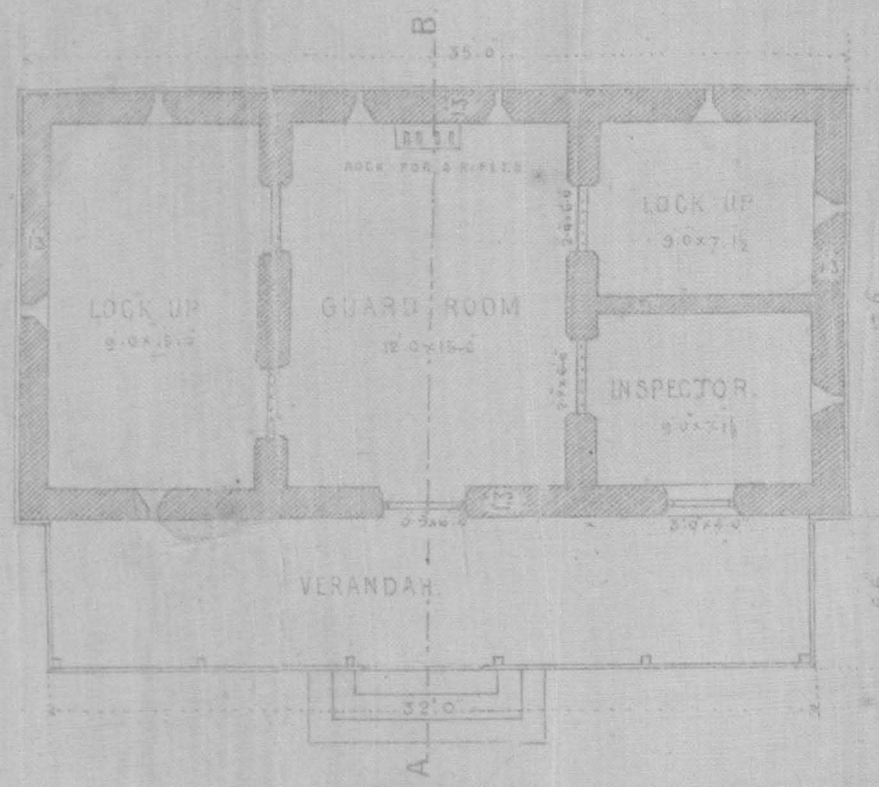
# DESIGN FOR A 2ND CLASS POLICE STATION HOUS



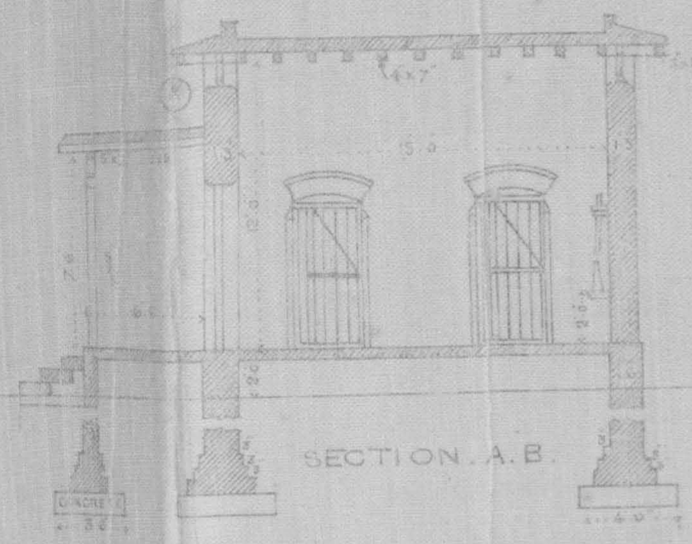
ELEVATION.



END ELEVATION.

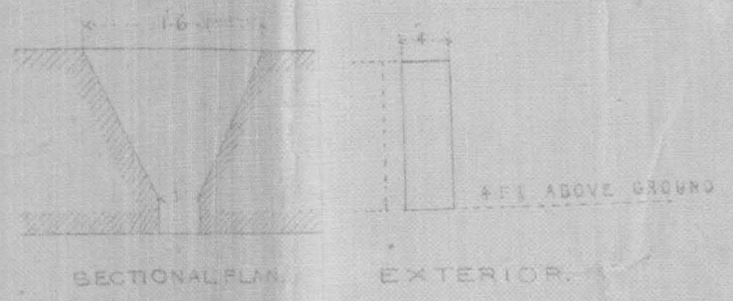


GENERAL PLAN.



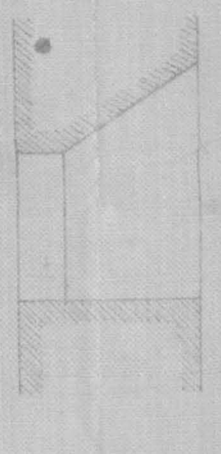
SECTION. A.B.

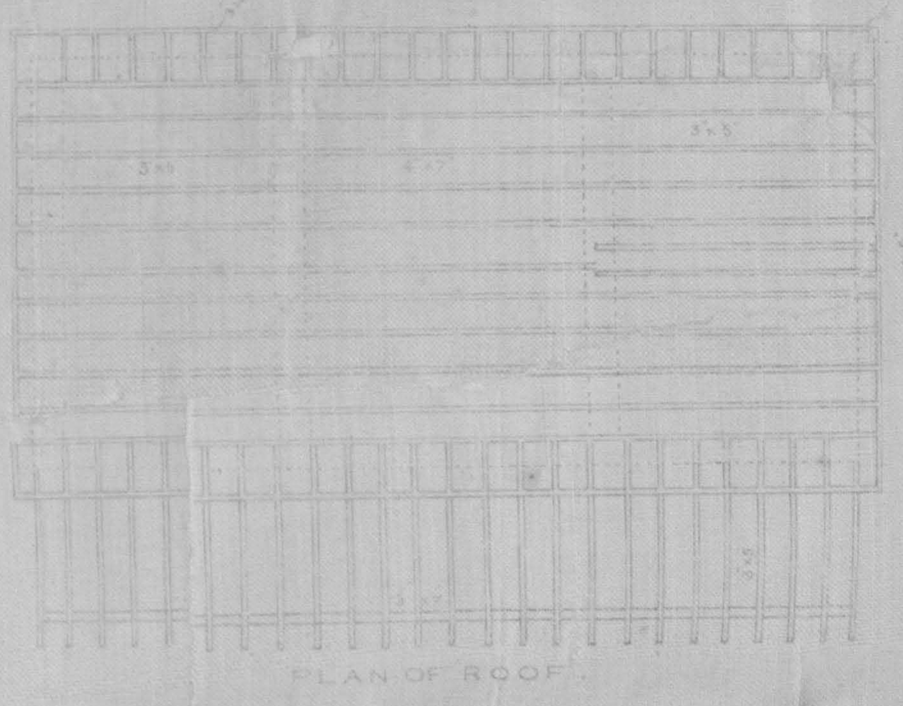
DETAILS OF LOOP HOLES.



SECTIONAL PLAN. EXTERIOR.

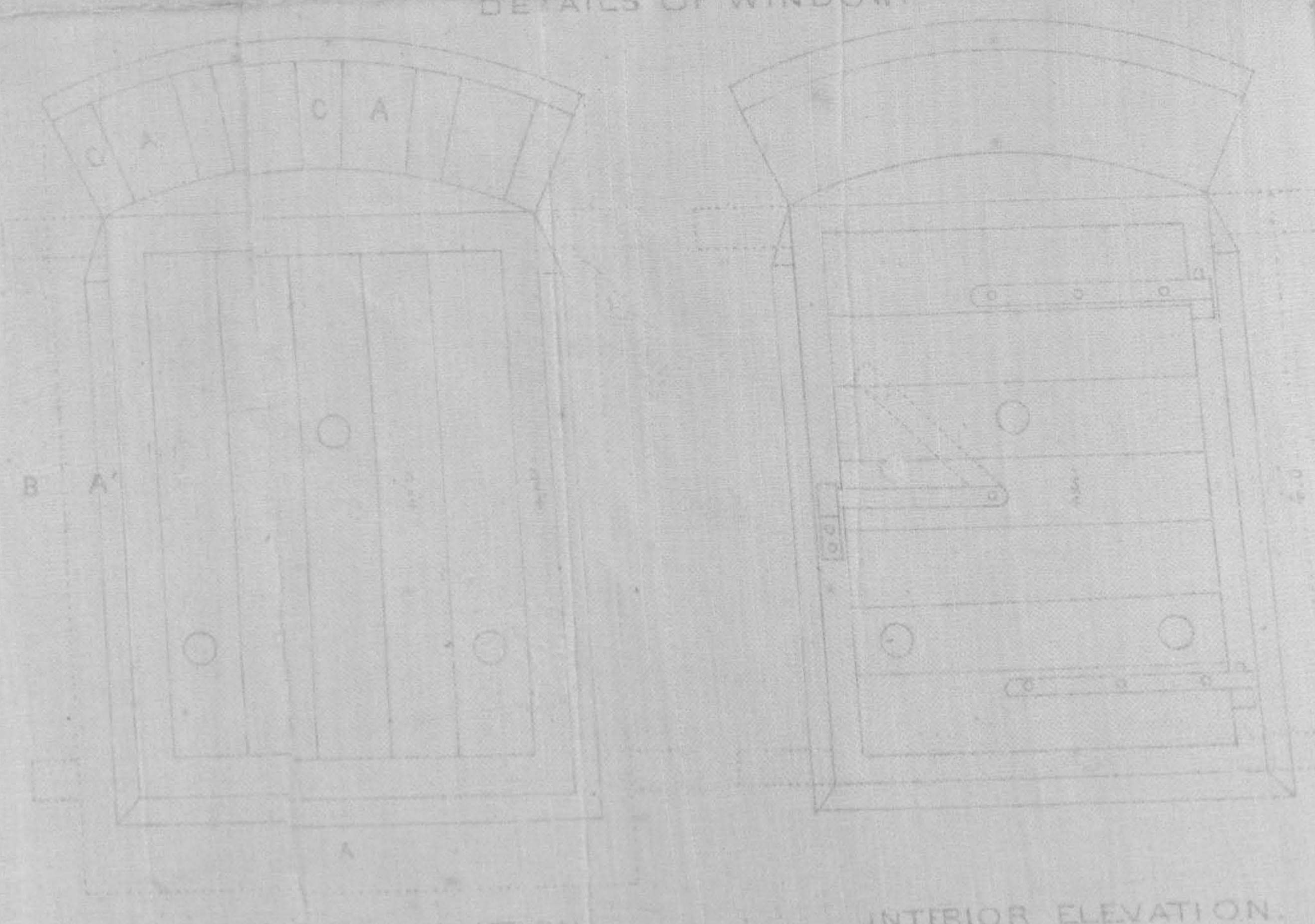
THE PROBABLE COST OF THIS BUILDING
ESTIMATED AT MADRAS RATES WILL BE
RUPEES. 1813





PLAN OF ROOF.

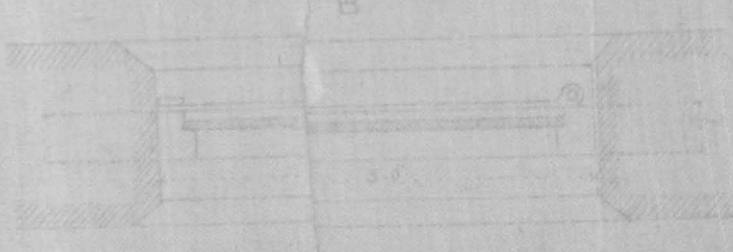
DETAILS OF WINDOW.



EXTERIOR ELEVATION.

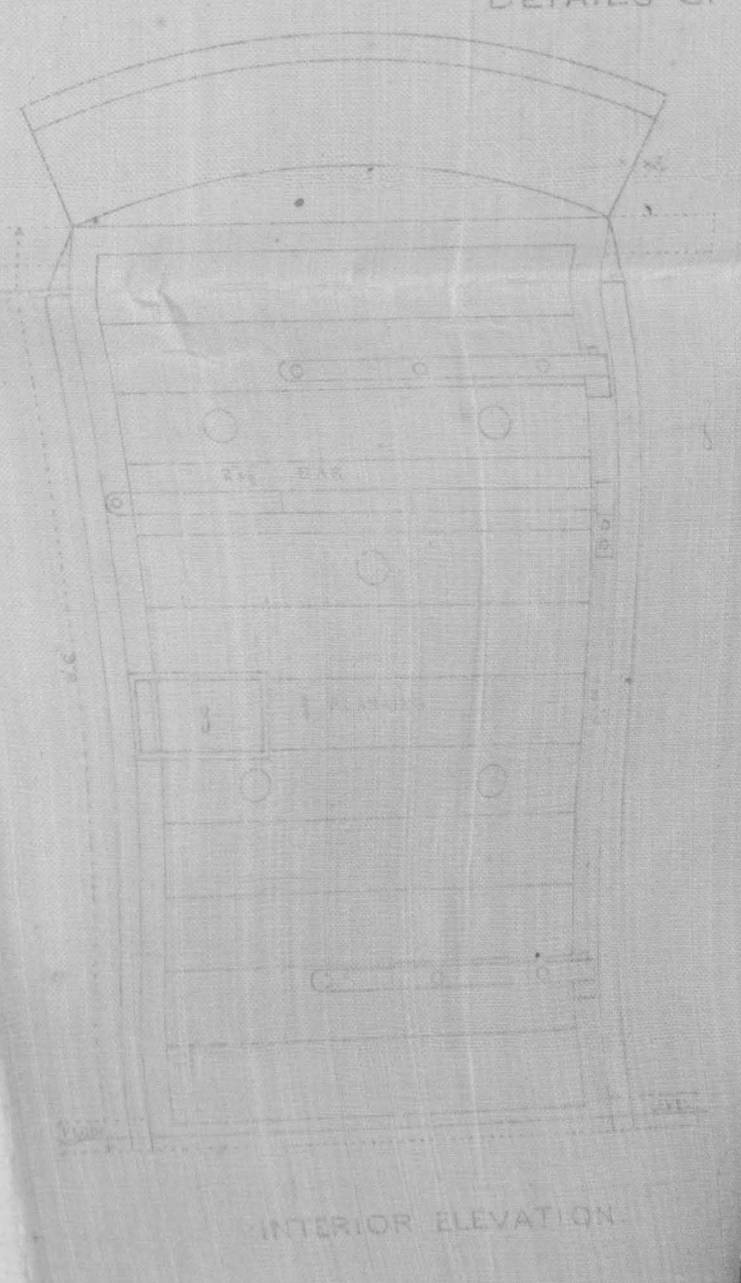
B

INTERIOR ELEVATION.



PLAN

DETAILS OF



INTERIOR ELEVATION

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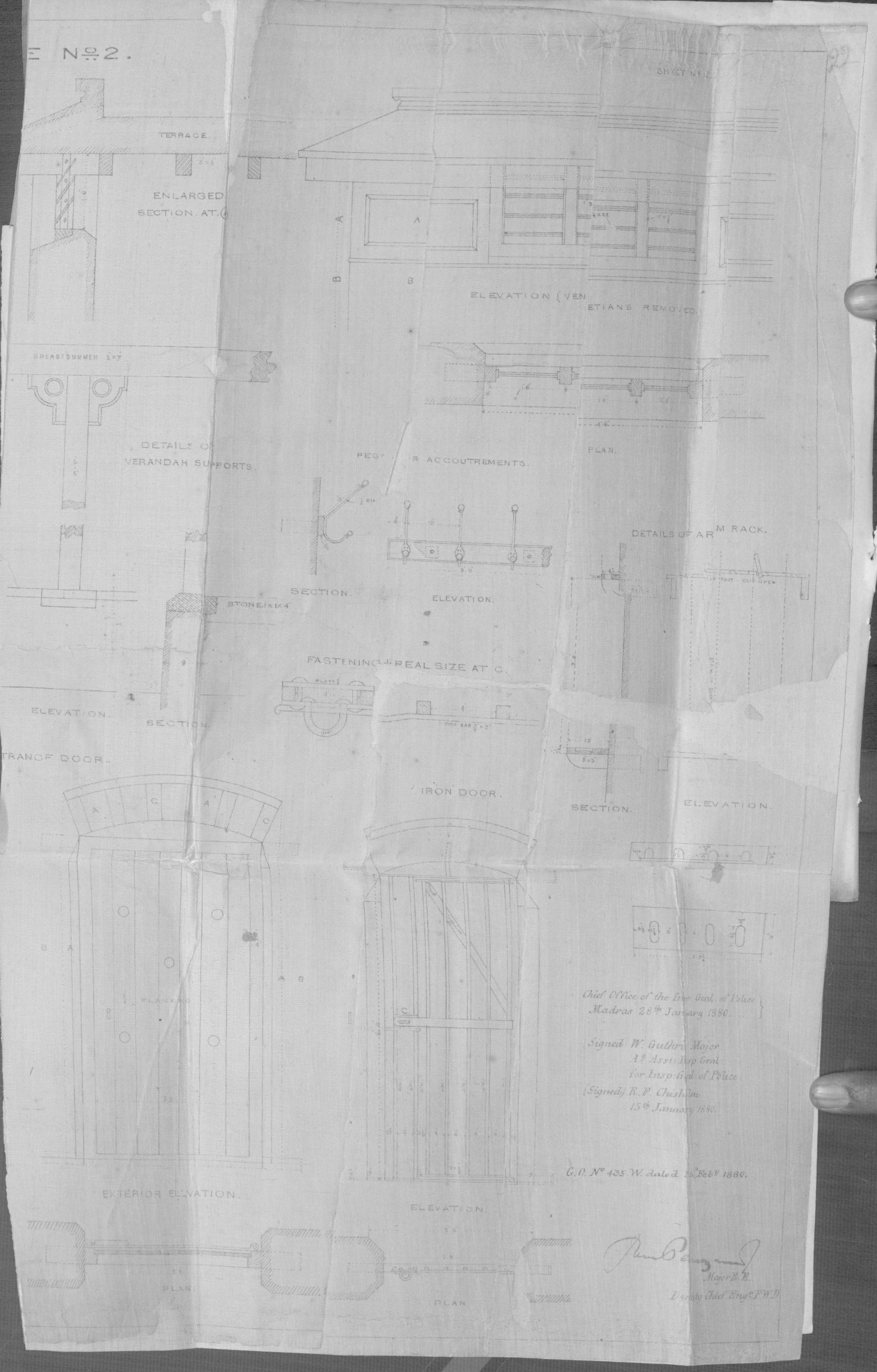
Supt. and Manager
Govt. Litho. Department



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Deputy Chief Engr. P.W.D.