

(1) Number of pages 80
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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works

DEPARTMENT

G.O. No. 1828. W
B.P. No.

Press.
Mis.

Dated 2. - 8 - 1886/97.

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to be folded or roughly handled

DEPARTMENT PUBLIC WORKS.

POLICE STATIONS.

Specification of Works to be performed in erecting the Standard Designs of Police Stations with Sloped Roofing according to Drawings Nos. 1, 2, 3, 4.

EXCAVATOR.

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

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.

Slips and Bulging.—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.

Concrete.—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.

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 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 deer frames, nogs and brackets for the arm-racks, &c.

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.

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

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 brickwork has settled down.

Bond.—The bond should be English if possible.

Stones.—Fix the stones under the verandah posts, also those under the truss, and fasten properly all wood supplied by the carpenter.

STONE MASON.

Provide and dress two lines, No.—stones 1' x 1' x 4" with mortice holes 2" square and 2" deep to receive the verandah posts.

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

CARPENTER.

Truss.—Frame a truss of the dimensions and form shown on the drawing. The heels of the rafters will be tenoned into the tie-beam and strapped down tight, and the heads allowed to butt simply. Over the heads place a choek, hollowed out so as to cover the joints, and fasten it down by the first nut (the struts having been cut to admit of the camber), lap a rope round the

Note.—Vary this clause according to class.

truss tied up the tie-beam to the required camber, and screw home the first nut on the king rod. The lower ends of the struts will butt simply against the tie-beams and against each other, and they will be held in their places by round pieces of wood; the upper ends will be tenoned into the rafters. When the truss is hoisted, put on the ridge over the king rod head and screw the second nut down tight. Halve the purlins and rafters each to the extent of 1", support the purlin over the wall.

Rafters.—Supply and fix common rafters 2" x 3" spaced 18" from centre to centre. Let the ends of ridge and purlins project beyond the face of the outer wall to the extent of 1' 8", spike on the ends the ornamental pieces shown on the plan.

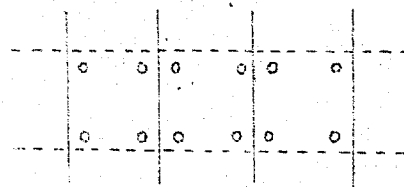
Ventilators.—Supply frame and fix two end ventilators, build the shoulders of the eills into the walls, and fasten the top by halving to the extent of 1" into the ridge and screw to the last rafter. Frame the side ventilators into the wall purlin. Frame the roof of the verandah as shown in the details on the drawing.

Reepers.—Under the tiles lay reepers 2" x 3" spaced 5" from centre to centre.

Planking.—Over the rafters of the lock-up cells lay 1" planking in lieu of reepers, fasten the same strongly, so that prisoners cannot easily remove the planking and escape by the roofs.

Arm-racks.—Provide and fix arm-racks in strict accordance with the dimensions set forth on the drawing.

Provide strong batten doors made of three-quarters of an inch planks horizontal and vertical well held together with palm



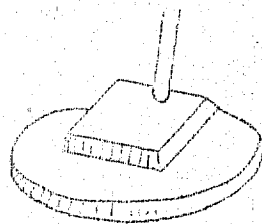
treails four to each crossing, cut in suitable positions clear of joints and of the holes for firing through. Provide strong fastenings and iron bars on the inside of each opening.

(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.)

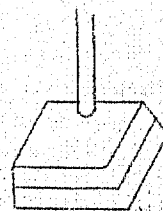
FLOOR.

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 1/2"; provide a template the size of the tile required and cut with sloping sides.

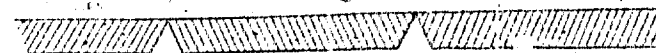


Tile uncut.

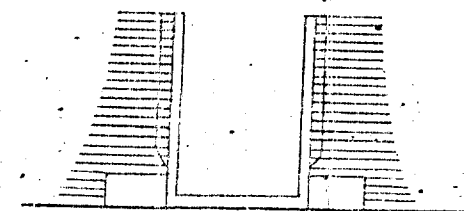


Tile cut.

when laid the underside should be turned up thus:



the texture of the earth being closer will require heavier firing. Where 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.



ROOFING.

The roof will consist of tiles neatly shaped and well burnt.

Lay in the valleys caused by the two slopes of the verandah roof either sheet lead or zinc. Then tile over the whole protecting by chunam bands if necessary.

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 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 part lampblack.

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 tiles will be * * * * * well burnt and water tight.
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 iron work will be procured from the Government Workshops.

CHEPAX,
9th July 1880.

MADRAS,
20th July 1880.

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

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

Estimate of the cost of building a house with Sloped Roofing

Description of Work	No.	Length	Breadth	Depth	Contents	Total
<i>Excavation for Foundation</i>						
Outer walls	1	112 0	1 3	10 6	1,314	
Partitions	2	14 0	1 3	10 6	294	
Do.	1	8 0	1 3	10 6	86	
Verandah walls	1	50 0	1 3	10 6	507	
Steps	1	11 0	3 0	1 0	50	
Cubic feet					2,261	84
<i>Earth filling in Basement</i>						
Guard-room	1	18 0	13 0	1 6	405	
Look-up	1	8 0	13 0	1 6	203	
Do. and Inspector's	2	17 0	7 1	1 6	192	
Verandah	1	50 0	3 0	1 6	347	
Cubic feet					1,147	43
<i>Concrete 12 inches thick</i>						
Excavation 2,211 cubic feet $\div 3 =$					737	
Steps	1	11 0	3 0	1 0	33	
Cubic feet					770	
<i>Brickwork in Foundations</i>						
Footings—						
Outer walls	1	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	1	50 0	1 9	1 6	131	
Above footings to ground level—						
Outer walls	1	112 0	1 3	0 6	70	
Extra thickness for plinth	1	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	1	51 0	0 9	0 6	19	
Steps	1	11 0	3 0	0 6	17	
Cubic feet					763	
<i>Brickwork in Basement</i>						
Outer walls	1	112 0	1 3	2 0	280	
Extra thickness for plinth	1	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	1	51 0	0 9	2 0	77	
Steps	1	11 0	3 0	0 6	17	
Do.	1	9 0	2 0	0 6	9	
Do.	1	7 0	1 0	0 6	4	
Deduct stone in steps					516	23
Cubic feet					493	

Detailed Quantities—cont.

Description of Work	No.	Length	Breadth	Depth	Contents	Total
<i>Brickwork in Superstructure.</i>						
Outer walls	2	112 0	1 3	10 6	1,470	
Partitions	4	17 6	1 3	2 10 1	394	
Gables	1	9 0	0 9	16 3	252	
Partition	1	9 0	0 9	16 3	110	2,226
<i>Deductions.</i>						
Doors	2	3 9	1 3	6 6	61	
Do.	1	2 9	1 3	6 6	83	
Window	1	3 0	1 3	4 0	15	
Ventilators	5	4 9	1 3	1 9	52	
Do. in gables	2	3 6	1 3	2 7	23	
Archwork as per details					33	267
Cubic feet					1,959	
<i>Archwork.</i>						
Segmental arches over doors	2	4 6	1 3	1 0	33	C. ft.
Do. do. do.	1	3 6	1 3	1 0		
Do. do. windows	1	3 6	1 3	1 0		
<i>Stonework if easily procured.</i>						
Steps		37 0	1 3	0 6	23	Do.
<i>Teakwood.</i>						
Verandah posts	2	0 5	0 5	3 0	3	
Do.	1	0 5	0 5	3 9	4	
Breastsummers	2	17 0	0 5	0 5 1	6	
Rafters for verandah	20	10 6	0 2 1	0 3 1	13	
Ridge for entrance	1	9 0	0 2 1	0 5	1	
Hip rafters for do.	1	12 6	0 3	0 4 1	2	
Small rafters for do.	1	9 0	0 2 1	0 3 1		
Do. do.	1	8 0	0 2 1	0 3 1	7	
Do. do.	1	6 6	0 2 1	0 3 1		
Do. do.	1	5 0	0 2 1	0 3 1		
Do. do.	1	4 0	0 2 1	0 3 1	1	
Barge board for do.	1	9 8	0	0 4	2	
Struts for do.	1	5 0	0 2 1	0 10 1		
Cleats to secure verandah—						
Rafters to breastsummers	20	0 2 1	0 8	1 0	3	
Tie beams	1	17 6	0 4	0 6	3	
Truss, 15 feet span: Principal rafters	1	9 6	0 4	0 4	2	
Struts	1	4 9	0 3	0 3	1	
Purlins	2	45 0	0 4	0 5	13	
Wall purlins	1	45 0	0 4	0 4	10	
Ridge	1	45 0	0 2 1	0 7	5	
Common rafters	31	11 9	0 2	0 3	15	
Do. do.	27	10 6	0 2	0 3	12	
Do. at ends	4	11 9	0 3	0 3	3	
Barge boards	4	12 6	1 0	0 1	4	
Cubic feet					110	
<i>Wrought Iron Work in Truss.</i>						
1" diameter king rod	1	6 9	x	2 62	17 68	
1" hex. nut and bolt head	1		x	0 55	1 65	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Roofing with Teak Plank.</i>		FT. IN.	FT. IN.	FT. IN.		
Guard-room ...	3	...	X	0.32	0.96	
Inspector's room ...	2	2 6	X	1.87	9.35	
Verandah ...	2	0 6	X	2.92	2.92	
Door pieces ...	4	...	X	0.06	0.24	
Do. ...	4	...	X	0.14	0.56	
lba. ...					33.38	
<i>Door Doors.</i>						
Door ...	4	2 9	...	6 0	66	S. ft.
<i>Door Doors with Frames and Plastering.</i>						
Door ...	2	3 9	...	6 6	49	Do.
Door ...	1	3 0	...	4 0	12	Do.
Ventilators, wooden frames, and casements ...	5	4 9	...	1 9	42	Do.
Ventilators, wooden frames, and iron bars at glass end ...	2	3 6	...	2 7	18	Do.
Frames with flat casements on gables ...	2	7 6	...	1 3	19	Do.
<i>Mounting over exterior opening.</i>						
Door ...	2	5 0	...	...	10	
Window ...	1	4 6	...	...	4½	
Linear feet ...					14½	
Stones under verandah posts 1' x 1' x 4' ...		6 in number.				
Stones under truss ...		2 in number.				
<i>Tiled Roofing with Pan Tiles over 1" Teak Planking.</i>						
Lock-up ...	2	12 6	...	12 0	320	
Do. ...	1	1 8	...	12 0		
Do. ...	1	10 10	...	10 6	114	
Square feet ...					434	
Squares ...					4.34	
<i>Tiled Roofing with Flat and Pan Tiles over Teak Ropers.</i>						
Guard-room, lock-up, &c. ...	1	19 4	...	12 0	252	
Do. ...	1	1 8	...	12 0		
Do. ...	1	10 10	...	10 6	317	
Do. ...	1	19 4	...	10 6		
Verandah ...	2	33 10½	...	10 0	339	
Entrance ...	2	9 0	...	4 10	87	
Square feet ...					995	
Squares ...					9.95	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Flooring with Square Tiles.</i>		FT. IN.	FT. IN.	FT. IN.		
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	
<i>Flooring with Jelly 6" thick and painting over with a composition of 1 lb. of Asphalte to 5 lbs. of Tar.</i>						
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	
<i>Plastering interior and washing.</i>						
Guard-room ...	...	66 0	...	10 6	693	
Gables ...	2	17 6	...	2 10½	101	
Lock-up ...	...	48 0	...	10 6	504	
Gables ...	2	17 6	...	2 10½	101	
Lock-up and Inspector's room ...	2	2 3	...	10 6	677	
Do. partition, upper portion ...	2	9 0	...	5 9	104	
Gables ...	2	16 3	...	2 10½	93	
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. ...	5	8 3	...	1 3	52	
Do. do. ...	2	7 6	...	1 3	19	
					2,480	
<i>Deductions.</i>						
Doorways ...	2	3 9	...	6 6	49	
Do. ...	4	2 9	...	6 0	132	
Window ...	1	3 0	...	4 0	12	
Ventilators ...	5	4 9	...	1 9	42	
Do. ...	2	3 6	...	2 0	14	
Square feet ...					249	
Squares ...					2.49	
<i>Plastering exterior and washing.</i>						
Basement ...	...	132 6	...	2 0	265	
Superstructure ...	...	117 0	...	10 6	1,229	
Gables ...	2	17 6	...	2 10½	101	
					1,595	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
<i>Deductions.</i>						
Door	2	3 9	...	6 6	40	
Window	1	3 0	...	4 0	12	
Ventilators	5	4 9	...	1 9	42	
Do.	2	3 6	...	2 0	14	117
Square feet	...	...	...	...	...	1,478
Squares	...	...	...	...	...	1478
<i>Painting with three Coats of Wood-oil.</i>						
Rafters for verandah	20	10 6	...	0 9 1	166	
Ridge for entrance	1	9 0	...	1 0	9	
Hip rafters for do.	2	12 6	...	1 0	25	
Small rafters for do.	130	0	...	0 9 1	95	
Tie-beam	1	17 6	...	1 8	29	
Principal rafters	2	9 6	...	1 4	25	
Struts	2	4 9	...	1 0	10	
Purlins	2	44 4	...	1 2	103	
Wall purlins	2	44 4	...	1 0	89	
Ridge	1	44 4	...	1 4 1	61	
Common rafters	31	11 9	...	0 8	432	
Do.	27	10 6	...	0 8	24	
Do. at ends	4	1 9	...	0 6	434	
Planking	...	2,488 0	...	0 3 1	726	
Reepers	...	...	...	...	2,228	
Square feet	...	...	...	...	...	2228
Squares	...	...	...	...	...	2228
<i>Painting with three Coats of Carson's Oak-Color.</i>						
Doors	2 x 2	3 9	...	6 6	93	
Do.	2 x 4	2 9	...	6 0	132	
Window	2 x 1	3 0	...	4 0	24	
Ventilators with venetians and iron bars	3 x 6	4 9	...	1 9	125	
Ventilators with iron bars	2 x 2	3 6	...	2 7	36	
Frames with venetians in gables	3 x 2	7 6	...	1 3	56	
Posts	4	1 8	...	5 5	62	
Do.	2	1 8	...	7 8	60	
Breastsummers	2	17 0	...	1 9	8	
Cleats	20	0 6	...	0 9	8	
Barge board over entrance	2	9 8	...	0 4 1	8	
Struts for do.	2	4 0	...	1 0	8	
Barge board in gables	4	12 6	...	1 0	50	
Square feet	...	...	...	...	667	
Squares	...	...	...	...	...	667
Arm-rack for ten rifles	...	7 lineal feet.	...	...	...	
Pegs for accoutrements	...	12 in number.	...	...	...	
Moveable shelf for Inspector's room	...	1 in number.	...	...	...	

ABSTRACT.

First-class Police Station-house with Tiled Roofing, Plan No. 1-A.

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
34 C. yds.	Excavation for foundations			
45 "	Earth-filling in basement			
770 C. ft.	Concrete			
763 "	Brickwork in foundations			
493 "	Do. in basement			
1,059 "	Do. in superstructure			
84 "	Archwork			
26 "	Stonework in steps (if easily procured)			
110 "	Teakwood wrought and put up			
33-35 lbs.	Wrought iron work in truss			
36 S. ft.	Iron doors			
44 "	Teak batten doors with frames and fastenings			
12 "	Teak latten window do.			
42 "	Ventilators, wooden frames, and venetians with iron bars			
18 "	Do. wooden frames and iron bars at gable ends			
10 "	Frames with fixed venetians in gables			
144 L. ft.	Mouldings over exterior openings			
6 No.	Stones under verandah posts			
2 "	Do. under truss			
434 Sq.	Tiled roofing with pan-tiles over 1 inch teak planking			
995 "	Tiled roofing with flat and pan-tiles over teak reepers			
622 "	Flooring with square tiles			
204 "	Do. with jelly 6 inches thick and painting over with tar and asphalt composition			
22-31 "	Plastering interior and washing			
1478 "	Do. exterior and washing			
22-28 "	Painting with three coats of wood-oil			
667 "	Do. with three coats of Carson's oak color			
7 L. ft.	Arm-rack for ten rifles			
12 No.	Pegs for accoutrements			
1 "	Moveable shelf for Inspector's room			
	Contingencies at 5 per cent			
	Total			

CHIEF,
9th July 1880.MADRAS,
20th July 1880.(Signed) R. F. CHISHOLM,
Consulting Architect to Government.(Signed) T. K. GUTHRIE, Major, R.E.,
Asst. Inspector-General of Police,
for Inspector-General of Police.

ESTIMATE of the Cost of constructing a Second-class Police Station-house with Sloped Roofing according to Standard Design No. 2-A.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>						
		FT. IN.	FT. IN.	FT. IN.		
Outer walls	2	100 0	4 0	3 0	1,200	
Partitions	1	12 3	4 0	3 0	294	
Do.	1	5 3	3 6	3 0	66	
Verandah walls	1	4 3	3 6	3 0	433	
Steps	1	11 0	3 0	1 6	50	
Cubic feet					2,043	
Cubic yards					76	
<i>Earth-filling in Basement.</i>						
Guard-room	1	12 0	15 0	1 6	270	
Lock-up	1	9 0	15 0	1 6	203	
Do. and Inspector's	2	9 0	7 1 1/2	1 6	192	
Verandah	1	31 0	5 9	1 6	267	
Cubic feet					932	
Cubic yards					35	
<i>Concrete 12 inches thick.</i>						
Excavation 1,993 cubic feet ÷ 3 = ...	1	11 0	9 0	1 0	664	
Steps	1	11 0	9 0	1 0	35	
Cubic feet					697	
<i>Brickwork in Foundations.</i>						
Footings:—						
Outer walls	2	100 0	2 3	1 6	338	
Partitions	1	14 0	2 3	1 6	95	
Do.	1	8 0	1 9	1 6	21	
Verandah walls	1	43 0	1 9	1 6	173	
Above footings to ground level—						
Outer walls	2	100 0	1 3	0 6	63	
Extra thickness for plinth	2	74 0	0 3	0 6	9	
Partitions	1	15 0	1 3	0 6	19	
Do.	1	9 0	0 9	0 6	3	
Verandah walls	1	44 0	0 9	0 6	17	
Steps	1	11 0	3 0	0 6	17	
Cubic feet					695	
<i>Brickwork in Basement.</i>						
Outer walls	2	100 0	1 3	2 0	250	
Extra thickness for plinth	2	74 0	0 3	2 0	37	
Partitions	1	15 0	1 3	2 0	75	
Do.	1	9 0	0 9	2 0	14	
Verandah walls	1	44 0	0 9	2 0	66	
Steps	1	11 0	3 0	0 6	17	
Do.	1	9 0	2 0	0 6	9	
Do.	1	7 0	1 0	0 6	4	
Deduct stone in steps					472	
Cubic feet					23	
Cubic feet					449	

Detailed Quantities—cont.

Description of Work.					No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Brickwork in Superstructure.</i>						FT. IN.	FT. IN.	FT. IN.		
Outer walls	...	...	...	...	2	100 0	1 3	10 6	1,313	
Partitions	...	...	...	...	2	15 0	1 3	10 6	394	
Gables	...	...	...	...	4	17 6	1 3	2 10½	252	
Partition	...	...	...	...	1	9 0	0 9	16 3	110	2,069
<i>Deductions.</i>										
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	...	...	...	...	4	4 9	1 3	1 9	42	
Do. in gable ends	...	...	...	...	2	3 6	1 3	2 7	23	
Archwork as per details	...	...	...	...	...	...	...	...	28	
										221
Cubic feet					...	...	...	...	...	1,848
<i>Archwork.</i>										
Segmental arches over door	...	...	...	...	1	4 6	1 3	1 0	28	C. ft.
Do. do.	...	...	...	...	4	3 6	1 3	1 0		
Do. window	...	...	...	...	1	3 6	1 3	1 0		
<i>Stonework if easily procured.</i>										
Steps	...	...	...	...	...	37 0	1 3	0 6	23	Do.
<i>Teakwood.</i>										
Posts	...	...	...	...	4	0 5	0 5	6 1½	4	
Do.	...	...	...	...	2	0 5	0 5	8 0	3	
Breastsummers	...	...	...	...	2	14 0	0 5	0 5	5	
Rafters for verandah	...	...	...	...	16	10 0	0 2½	0 3½	10	
Ridge for entrance	...	...	...	...	1	8 7	0 2½	0 5	1	
Hip rafters for do.	...	...	...	...	2	11 6	0 3	0 4½	2	
Small rafters for entrance	...	...	...	...	2	8 6	0 2½	0 3½	6	
Do. do.	...	...	...	...	4	7 0	0 2½	0 3½		
Do. do.	...	...	...	...	4	6 0	0 2½	0 3½		
Do. do.	...	...	...	...	4	4 6	0 2½	0 3½		
Do. do.	...	...	...	...	4	3 6	0 2½	0 3½		
Barge board	...	...	...	...	2	9 0	0 4	0	1	
Struts for entrance	...	...	...	...	2	0 10	0 2½	5 1	2	
Cleats to secure verandah rafters to breastsummers.	...	...	...	...	18	0 2½	0 8	1 0	3	
Purlins over guard room	...	...	...	...	2	14 0	0 5	0 6	6	
Do. over lock-up and Inspector's room.	...	...	...	...	4	12 8	0 4	0 5	7	
Wall purlins	...	...	...	...	2	38 6	0 4	0 4	9	
Ridge	...	...	...	...	1	38 6	0 2½	0 7	5	
Common rafters	...	...	...	...	27	11 9	0 2	0 3	23	
Do.	...	...	...	...	23	10 6	0 2	0 3		
Common rafters at ends	...	...	...	...	4	11 9	0 3	0 3	3	
Barge boards	...	...	...	...	4	12 6	1 0	0 1	4	
Cubic feet					...	...	...	...	94	
Iron inner doors	...	...	...	...	4	2 9	...	6 0	66	Sq. ft.
Teak batten door with frames and fastening.	...	...	...	...	1	3 9	...	6 6	24	Do.

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Teakwood—cont.</i>		FT. IN.	FT. IN.	FT. IN.		
Batten window with frames and fastenings.	1	3 0	...	4 0	12	Sq. ft.
Ventilators, wooden frames and venetians with iron bars.	4	4 9	...	1 9	334	Do.
Ventilators, wooden frames and iron bars at gable ends.	2	3 6	...	2 7	18	Do.
Frame with fixed venetians in gables	2	7 6	...	1 3	19	Do.
Stones under posts 1' x 1' x 4"	...	6 in number.	...	...	...	
<i>Moulding over exterior openings.</i>						
Door	1	...	...	...	5	
Window	1	...	...	...	4½	
Lineal feet	...	...	...	...	9½	
<i>Tiled Roofing with Pan Tiles over 1" Teak Planking.</i>						
Lock-up	2	12 6	...	12 0	320	
Do.	1	1 8	...	12 0	114	
Do.	1	10 10	...	10 6	...	
Square feet	...	...	...	...	434	
Squares	...	...	...	...	434	
<i>Tiled Roofing with Flat and Pan Tiles over Teak Reepers.</i>						
	1	12 4	...	12 0	180	
	1	1 8	...	12 0	...	
	1	10 10	...	10 6	254	
	1	12 4	...	10 6	270	
Verandah	...	28 4½	...	9 6	81	
Entrance	2	9 0	...	4 6	...	
Square feet	...	...	...	...	785	
Squares	...	...	...	...	785	
<i>Flooring with Square Tiles.</i>						
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 piece	1	3 9	...	1 3	8	
Do.	1	2 9	...	1 3	5	
Do.	3	2 9	...	0 7½	...	
Square feet	...	...	...	...	468	
Squares	...	...	...	...	468	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Flooring with Jelly 6" thick and Painting over with a composition of 1 lb. Asphalt to 5 lb. of Tar.</i>		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	
<i>Plastering interior and washing.</i>						
Guard room	...	54 0	...	10 6	567	
Gables	2	17 6	...	2 10½	101	
Lock-up	...	48 0	...	10 6	504	
Gables	2	17 6	...	2 10½	101	
Lock-up and Inspector's room	2	32 3	...	10 6	677	
Partition, upper portion	2	9 0	...	5 9	104	
Gables	2	16 3	...	2 10½	93	
Door jambs	1	17 0	...	1 3	21	
Do.	4	15 0	...	1 3	75	
Window jambs	1	11 0	...	1 3	14	
Ventilator	4	8 3	...	1 3	41	
Do.	3	7 6	...	1 3	19	
					2,317	
<i>Deductions.</i>						
Doorway	1	3 9	...	6 6	24	
Do.	4	2 9	...	6 0	132	
Window	1	3 0	...	4 0	12	
Ventilators	4	4 9	...	1 9	33	
Do.	2	3 6	...	2 0	14	
					215	
Square feet	...	...	...	...	2,102	
Squares	...	...	...	...	2,102	
<i>Plastering exterior and washing.</i>						
Basement	...	119 6	...	2 0	239	
Superstructure	...	105 6	...	10 6	1,103	
Gables	2	17 6	...	2 10½	101	
					1,443	
<i>Deductions.</i>						
Doors	1	3 9	...	6 6	24	
Window	1	3 0	...	4 0	12	
Ventilators	4	4 9	...	1 9	33	
Do.	2	3 6	...	2 0	14	
					83	
Square feet	...	...	...	...	1,360	
Squares	...	...	...	...	1,360	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
<i>Painting Roof with three coats of Wood oil.</i>						
Rafters for verandah ...	16	10 0	...	0 9½	127	
Ridge for entrance ...	1	8 7	...	1 0	9	
Hip rafters for do. ...	2	11 6	...	1 0	23	
Small rafters for do. ...	...	101 0	...	0 9½	80	
Purlins ...	2	12 0	...	1 5	34	
Do. ...	4	10 8	...	1 2	50	
Wall purlins ...	2	38 0	...	1 0	76	
Ridge ...	1	35 6	...	1 4½	49	
Common rafters ...	27	11 9	...	0 8	373	
Do. ...	23	10 6	...	0 8		
Do. ...	4	11 9	...	0 6		
Planking ...	...	...	...	...	434	
Reapers ...	...	1,945 0	...	0 3½	567	
Square feet ...	...	...	...	...	1,846	
Squares ...	...	...	...	...	...	18-46
<i>Painting with three coats of Carson's Oak color.</i>						
Doors ... 2 x	1	3 9	...	6 6	49	
Do. ... 2 x	4	2 9	...	6 0	132	
Window ... 2 x	1	3 0	...	4 0	24	
Ventilators with venetians and iron bars ... 3 x	...	4 9	...	1 9	100	
Do. with iron bars ... 2 x	2	3 6	...	2 7	36	
Frames with venetians in gables 3 x	2	7 6	...	1 3	56	
Posts ...	4	1 8	...	5 9	64	
Do. ...	2	1 8	...	7 9		
Breastsummers ...	2	14 0	...	1 8	47	
Cleats ...	18	0 6	...	0 9	7	
Barge board over entrance ...	2	0 0	...	0 4½	7	
Struts ...	2	4 0	...	1 0	8	
Barge board in gables ...	4	12 6	...	1 0	50	
Square feet ...	...	...	...	...	580	
Squares ...	...	...	...	...	...	5-80
Arm-rack for four rifles ...	...	2½ lineal feet.	...	...	...	
Pegs for accoutrements ...	...	6 in number.	...	...	...	
Movable shelf for Inspector's room ...	...	1 in number.	...	...	...	

ABSTRACT.

SECOND-CLASS Police Station-house with Sloped Roofing, Plan No. 2-A.

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
76 C. yds.	Excavation for foundations ...			
35 "	Earthfilling in basement ...			
697 C. ft.	Concrete ...			
695 "	Brickwork in foundations ...			
449 "	Do. in basement ...			
1,848 "	Do. in superstructure ...			
28 "	Archwork ...			
23 "	Out-stone work in steps ...			
94 "	Teakwood wrought and put up ...			
66 Sq. ft.	Iron inner doors ...			
24 "	Teak batten door with frames and fastenings.			
12 "	Do. window do. ...			
384 "	Ventilators, wooden frames, and venetians with iron bars.			
18 "	Ventilators, wooden frames and iron bars for gable ends.			
19 "	Frames with fixed venetians for do. do.			
6 No.	Stones under posts ...			
9½ L. ft.	Moulding over exterior openings.			
434 Sqs.	Tiled roofing with pan tiles over one inch teak planking for lock-up.			
7-85 "	Tiled roofing with flat and pan tiles and teak reapers.			
4-08 "	Flooring with square tiles ...			
2-04 "	Do. lock-up with jelly six inches thick and painting over with tar and asphaltic composition.			
21-02 "	Plastering and washing interior..			
13-60 "	Do. do. exterior...			
18-16 "	Painting roof with three coats of wood-oil.			
5-80 "	Do. doors and windows and exposed wood work with three coats of Carson's oak color.			
2½ L. ft.	Arm-rack for four rifles ...			
6 No.	Pegs for accoutrements ...			
1 "	Movable shelf for Inspector's room.			
	Rupers ...	...	...	...
	Contingencies at 5 per cent...	...	...	...
	Total ...	...	...	...

CHENNAI,
9th July 1880.MADRAS,
20th July 1880.(Signed) R. F. CHISHOLM,
Consulting Architect to Government.(Signed) T. K. GUTHRIE, Major,
Asst. Inspector-General of Police,
for Inspector-General of Police.

ESTIMATE of the Cost of constructing a Third-class Police Station-house with Sloped Roofing according to Standard Design No. 3-A.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Excavation for Foundations.</i>						
Outer walls ...	...	FT. IN.	FT. IN.	FT. IN.		
Partition ...	1	9 8	4 0	3 0	945	
Verandah walls ...	...	28 0	3 6	3 0	294	
Steps ...	1	11 0	3 0	1 6	50	
Cubic feet ...	...	...	...	...	1,289	
Cubic yards ...	...	...	...	...	...	48
<i>Earthfilling in Basement.</i>						
Guard room ...	1	12 0	12 0	1 6	342	
Lock-up ...	1	7 0	12 0	1 6	148	
Verandah ...	1	18 9	5 3	1 6	...	
Cubic feet ...	...	...	...	...	490	
Cubic yards ...	...	...	...	...	...	18
<i>Concrete 12 inches thick.</i>						
Excavation 1,239 cubic feet ÷ 3 = ...	...	...	...	...	413	
Steps ...	1	11 0	3 0	1 0	33	
Cubic feet ...	...	...	...	...	446	
<i>Brickwork in Foundations Footings.</i>						
Outer wall ...	...	69 6	2 3	1 6	272	
Partition ...	1	11 0	2 3	1 6	...	
Verandah walls ...	...	20 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	7	
Extra thickness for plinth ...	...	55 3	0 3	0 6	12	
Verandah walls ...	...	20 9	0 9	0 6	17	
Steps ...	1	11 0	3 0	0 6	...	
Cubic feet ...	...	...	...	...	437	
<i>Brickwork in Basement.</i>						
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 ...	...	20 9	0 9	2 0	46	
Steps ...	1	11 0	3 0	0 6	17	
Do. ...	1	9 0	2 0	0 6	9	
Do. ...	1	7 0	1 0	0 6	4	
Deduct stone in steps ...	...	...	...	...	308	
Cubic feet ...	...	...	...	...	23	
Cubic feet ...	...	...	...	...	285	
<i>Brickwork in Superstructure.</i>						
Outer walls ...	...	12 6	1 3	10 6	1,070	
Partition ...	1	12 0	1 3	10 6	...	
Gables ...	3	14 6	1 3	2 5	131	
						1,201

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Deductions.</i>						
Door ...	1	3 9	1 3	6 6	30	
Do. ...	1	2 9	1 3	6 0	21	
Ventilators ...	3	4 9	1 3	1 9	31	
Do. in gables ...	2	3 6	1 3	2 4	20	
Archwork as per details ...	...	...	...	...	10	
						112
Cubic feet ...	...	...	...	...	...	1,089
<i>Archwork.</i>						
Segmental arch over door ...	1	4 6	1 3	1 0	10	C. ft.
Do. do. ...	1	3 6	1 3	1 0	...	
<i>Stonework if easily procured.</i>						
Steps ...	...	37 0	1 3	0 6	23	Do.
<i>Teakwood.</i>						
Posts ...	2	0 5	0 5	6 4	2	
Do. ...	2	0 5	0 5	8 1½	3	
Breastsummers ...	2	7 10	0 5	0 5	3	
Rafters, verandah ...	8	9 6	0 2½	0 3½	5	
Ridge for entrance ...	1	8 3	0 2½	0 5	1	
Hip rafters for do. ...	2	11 0	0 3	0 4½	2	
Small rafters do. ...	2	8 0	0 2½	0 3½	...	
Do. ...	4	7 0	0 2½	0 3½	6	
Do. ...	4	6 0	0 2½	0 3½	...	
Do. ...	2	4 6	0 2½	0 3½	...	
Do. ...	4	3 6	0 2½	0 3½	...	
Barge board for do. ...	2	8 9	0 4	0 1	1	
Struts ...	2	5 0	0 2½	0 10	2	
Cleats to secure verandah rafters to breastsummers ...	8	0 2½	0 8	1 0	1	
Purlins over guard room ...	2	15 9	0 5	0 6	7	
Do. over lock-up ...	2	10 6	0 4	0 5	3	
Wall purlins ...	2	26 6	0 4	0 4	6	
Ridge ...	1	26 6	0 2½	0 6	3	
Common rafters... Do. ...	19	9 10	0 2	0 3	8	
Do. ...	15	8 3	0 2	0 3	5	
Do. end ...	4	9 10	0 3	0 3	2	
Barge board ...	4	10 7	0 1	1 0	4	
Cubic feet ...	...	...	...	...	64	
Iron inner doors ...	1	2 9	...	6 0	17	Sq. ft.
Teak batten door with frames and fastenings ...	1	3 9	...	6 6	24	Do.
Ventilators, wooden frames and venetians with iron bars ...	3	4 9	...	1 9	25	Do.
Ventilators, wooden frames and iron bars at gable ends ...	2	3 6	...	2 4	16½	Do.
Frames with fixed venetians in gables ...	2	6 6	...	1 1½	15	Do.
<i>Mouldings over exterior openings.</i>						
Door ...	...	...	...	...	5	L. ft.
Stones under verandah posts 1' x 1' x 4" ...	...	4 in number.	...	...	...	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
<i>Tiled Roofing with Pan Tiles over 1 inch Teak Planking.</i>		FT. IN.	FT. IN.	FT. IN.		
Lock-up... ..	...	10 6	...	10 6	128	
Do.	...	1 8	...	10 6		
Do.	...	8 10	...	8 9		
Square feet ...	...	...	...	...	205	2-05
Squares ...	...	...	...	...	...	
<i>Tiled Roofing with Flat and Pan Tiles over Teak Reepers.</i>						
Guard room	...	15 7	...	10 6	181	
Do.	...	1 8	...	10 6		
Do.	...	13 11	...	8 9		
Verandah	...	16 4½	...	8 0	131	
Do. over entrance ...	2	7 3	...	4 4½	63	
Square feet ...	...	...	...	...	497	5
Squares ...	...	...	...	...	...	
<i>Flooring with Square Tiles.</i>						
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	2-73
Squares ...	...	...	...	...	...	
<i>Flooring with jelly 6" thick and painting over with a composition of 1 lb. asphalt to 5 lb. of tar.</i>						
Lock-up	1	7 0	...	12 0	84	
Door piece	1	2 9	...	0 7½	2	
Square feet ...	...	...	...	...	86	86
Squares ...	...	...	...	...	...	
<i>Plastering interior and washing.</i>						
Guard room	...	48 0	...	10 6	504	1,131
Lock-up	...	38 0	...	10 6	399	
Gables	4	14 6	...	2 5	140	
Door jambs	1	17 0	...	1 3	88	
Do.	1	15 0	...	1 3		
Ventilator jambs ...	3	8 3	...	1 3		
Do.	2	7 0	...	1 3		
<i>Deductions.</i>						
Door	1	3 9	...	6 6	24	93
Do.	1	2 9	...	6 0	33	
Ventilators	3	4 9	...	1 9	25	
Do.	2	3 6	...	1 6	11	
Square feet ...	...	...	...	...	...	1,038
Squares ...	...	...	...	...	...	10-38

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.	
<i>Plastering exterior and washing.</i>			FT. IN.	FT. IN.	FT. IN.		
Basement	...	88 0	...	2 0	176	1,028	
Superstructure	...	74 6	...	10 6	782		
Gables	2	14 6	...	2 5	70		
<i>Deductions.</i>							
Door	1	3 9	...	6 6	21	60	
Ventilators	3	4 9	...	1 9	25		
Do.	2	3 6	...	1 6	11		
Square feet	...	...	...	...	...	968	
Squares	...	...	...	...	...	9-68	
<i>Painting with three coats of wood oil.</i>							
Rafters for verandah	8	9 6	...	0 9½	60	11-12	
Ridge for entrance	1	8 3	...	1 ½	9		
Hip rafters for do.	2	11 0	...	1 0	22		
Small do. do.	...	91 0	...	0 9½	72		
Purlins over guard room	2	15 7	...	1 5	44		
Do. over lock-up	2	10 4	...	1 2	24		
Wall purlins	2	26 1	...	1 0	52		
Ridge	1	26 1	...	1 2½	32		
Common rafters	19	9 10	...	0 8	207		
Do.	15	8 3	...	0 8			
Do.	4	9 10	...	0 6			20
Planking	...	...	...	...	205		
Reepers	...	1,250 0	...	0 3½	365		
Square feet	...	...	...	...	1,112		11-12
Squares	...	...	...	...	...		
<i>Painting with three coats of Carson's Oak color.</i>							
Posts	2	6 0	...	1 8	72	3-72	
Do.	2	7 9	...	1 8			
Breastsummers	2	7 10	...	1 8	7		
Barge board for entrance	2	8 9	...	0 4½			
Struts	2	5 0	...	1 0	10		
Cleats	8	0 6	...	0 9	3		
Barge board	4	10 7	...	1 1	46		
Door	1	3 9	...	6 6	49		
Do.	1	2 9	...	6 0	33		
Ventilators with venetians	3 × 3	4 9	...	1 9	75		
Do. with iron bars	2 × 2	3 6	...	2 4	33		
Frames with fixed venetians	3 × 2	6 6	...	1 1½	44		
Square feet	...	...	...	...	372		3-72
Squares	...	...	...	...	...		
Arm-rack for two rifles		1½ lineal feet.					
Pegs for accoutrements		4 in number.					
Movable shelf for records		1 in number.					

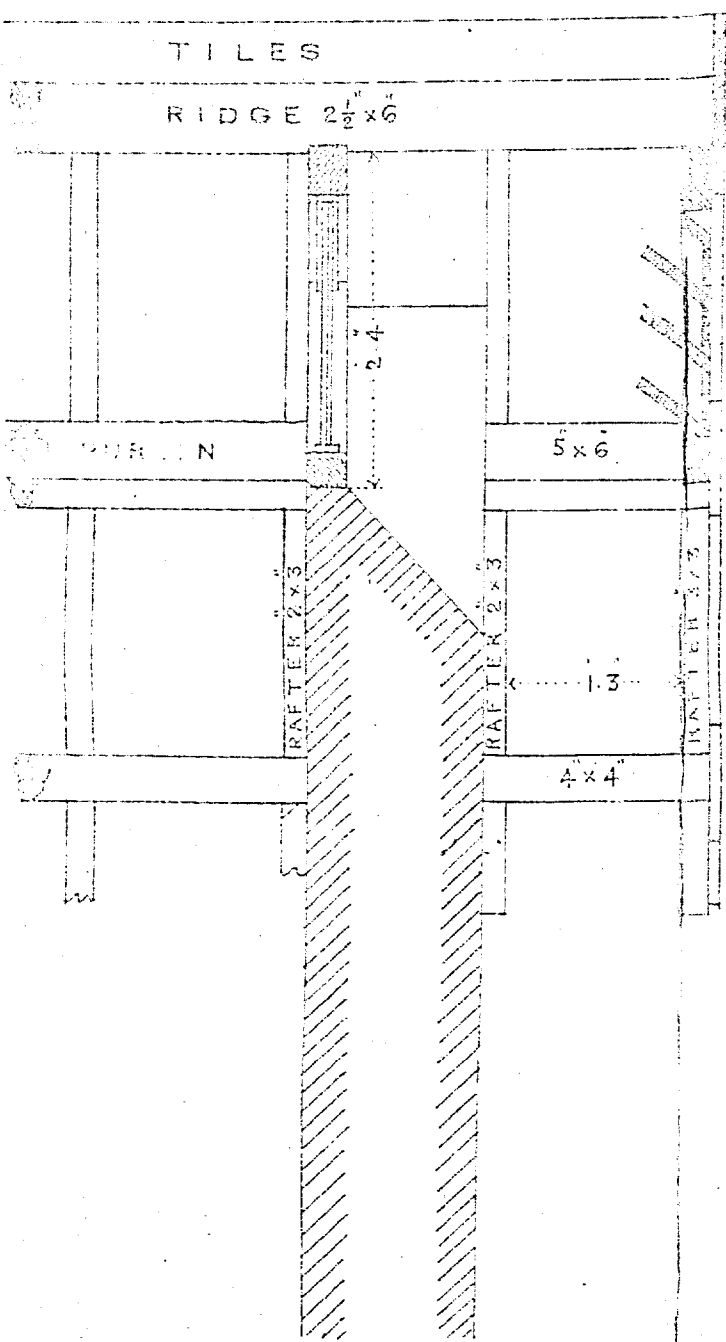
Quantity.	Item.	Rate.	Per	Amount.
		RS. A. P.		RS. A. P.
48 C. yds.	Excavation for foundations			
18 "	Earthfilling in basement			
446 C. ft.	Concrete			
437 "	Brickwork in foundations			
285 "	Do. in basement			
1,089 "	Do. in superstructure			
10 "	Archwork			
23 "	Stonework in steps (if easily procured).			
64 "	Teakwood wrought and put up			
17 S. ft.	Iron inner doors			
24 "	Teak batten door with frames and fastenings			
25 "	Ventilators, wooden frames, and venetians with iron bars			
164 "	Ventilators, wooden frames, and iron bars at gable end			
15 "	Frames with fixed venetians in gables.			
5 L. ft.	Moulding over exterior opening			
4 No.	Stones under verandah posts			
2.05 Sqs.	Tiled roofing with pan tiles over 1 inch teak planking			
5 "	Tiled roofing with flat and pan tiles over teak planking			
2.73 "	Flooring with square tiles			
.86 "	Do. with jelly 6 inches thick and painting with tar and asphaltic composition			
10.38 "	Plastering interior and washing			
9.68 "	Do. exterior and washing			
11.12 "	Painting with three coats of wood oil ..			
3.72 "	Do. with three coats of Carson's oak color			
1 1/2 L. ft.	Arm-rack for two rifles			
1/2 No.	Pegs for accoutrements			
1 "	Movable shelf for records			
	Contingencies at 5 per cent.			
	Total			

CHEPÂK,
9th July 1880.

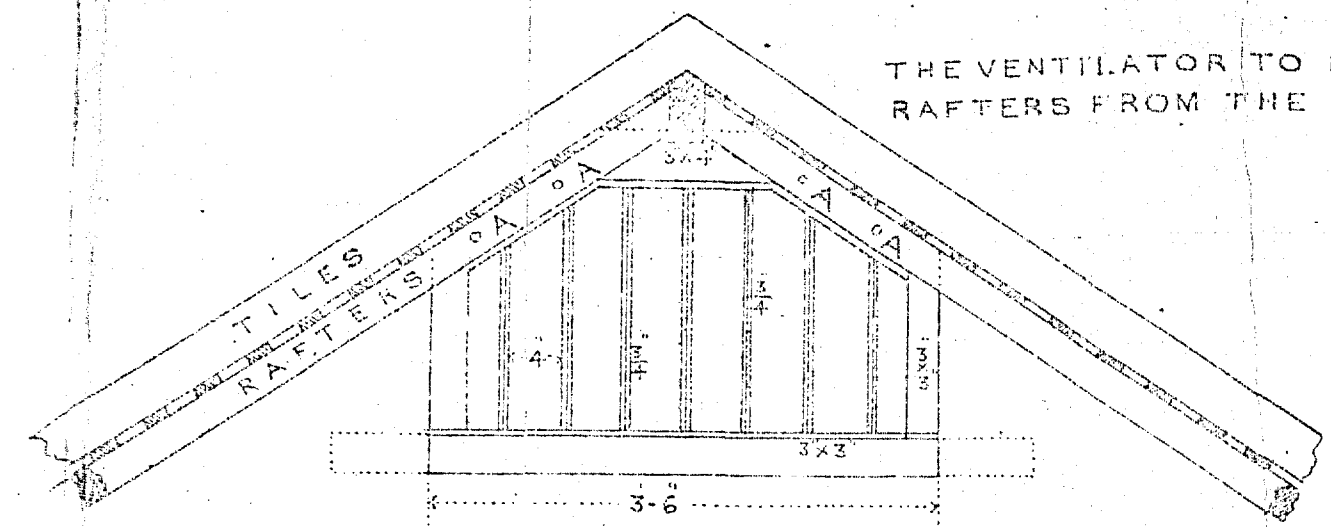
MADRAS,
20th July 1880.

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

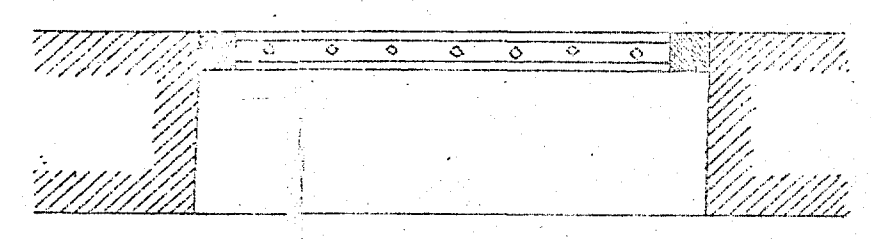
(Signed) T. K. GUTHRIE, Major,
Asst. Inspector-General of Police,
for Inspector-General of Police.



SECTION THRO RIDGE.



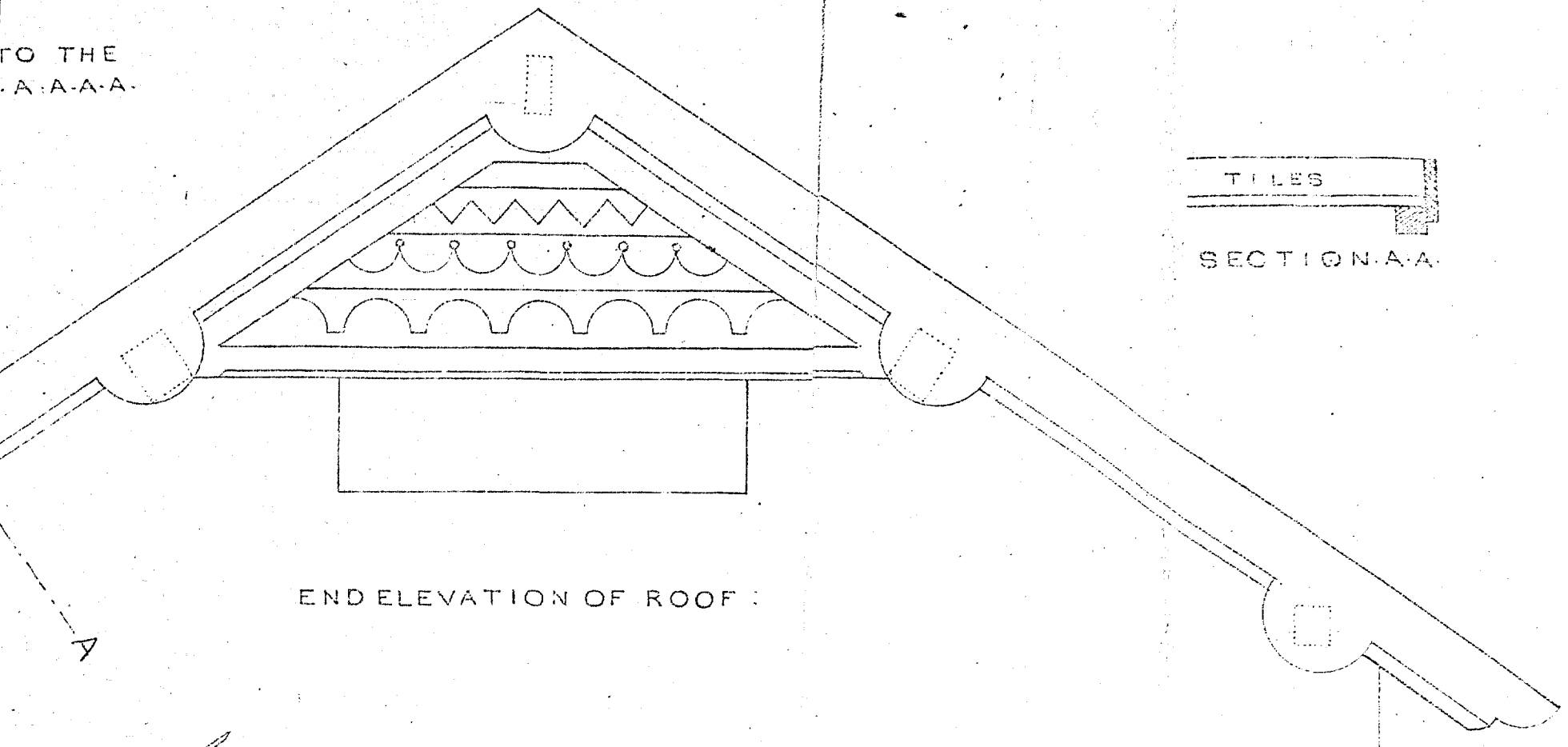
INTERIOR SECTIONAL ELEVATION OF VENTILATOR.



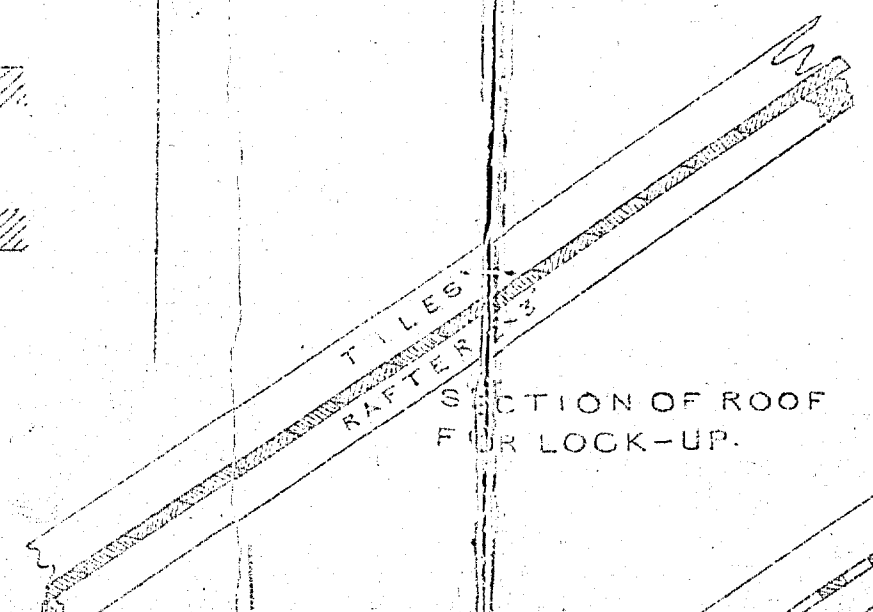
PLAN

THE VENTILATOR TO BE SPIKED TO THE
RAFTERS FROM THE OUTSIDE A.A.A.A.

7
A

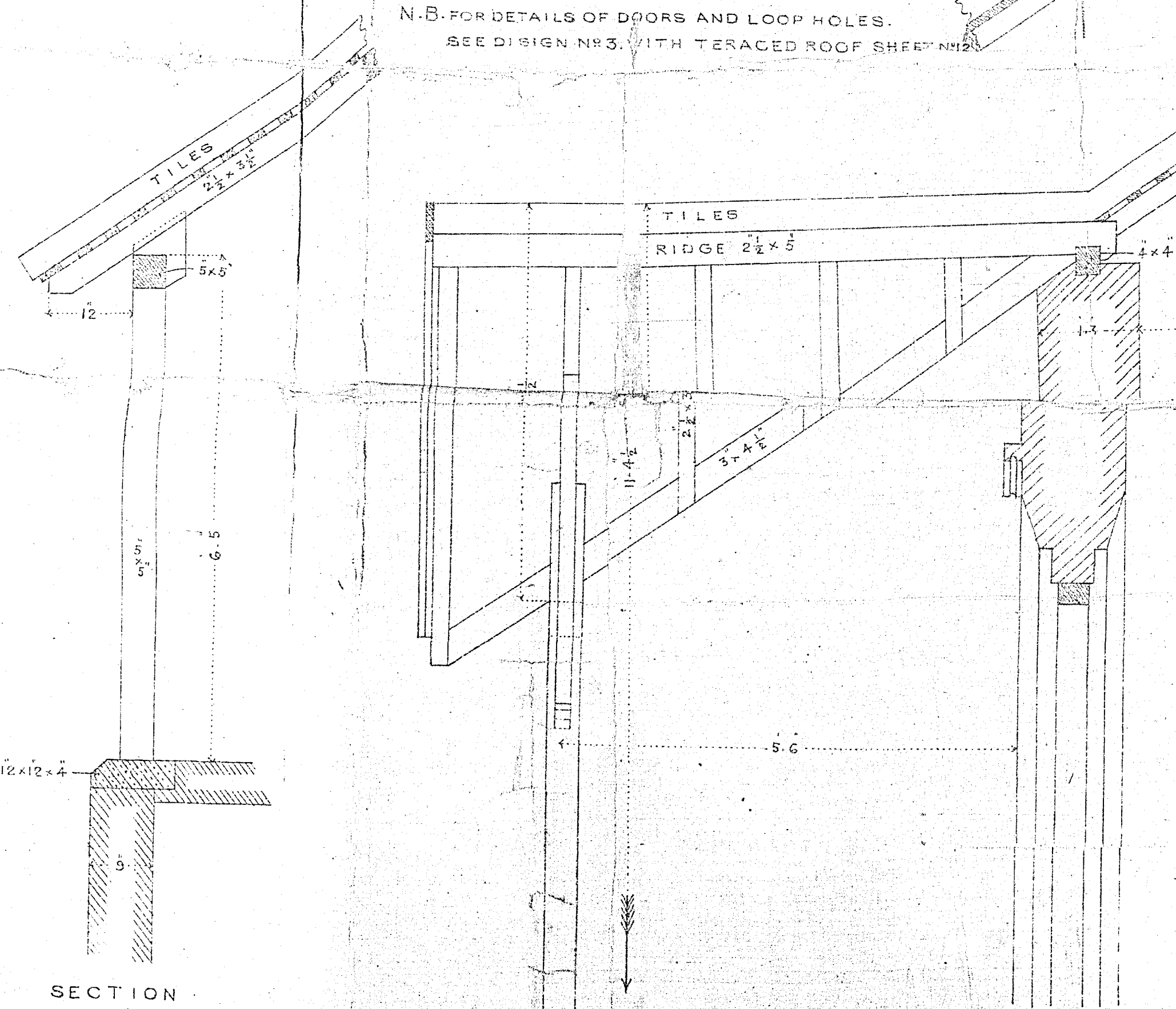


END ELEVATION OF ROOF.

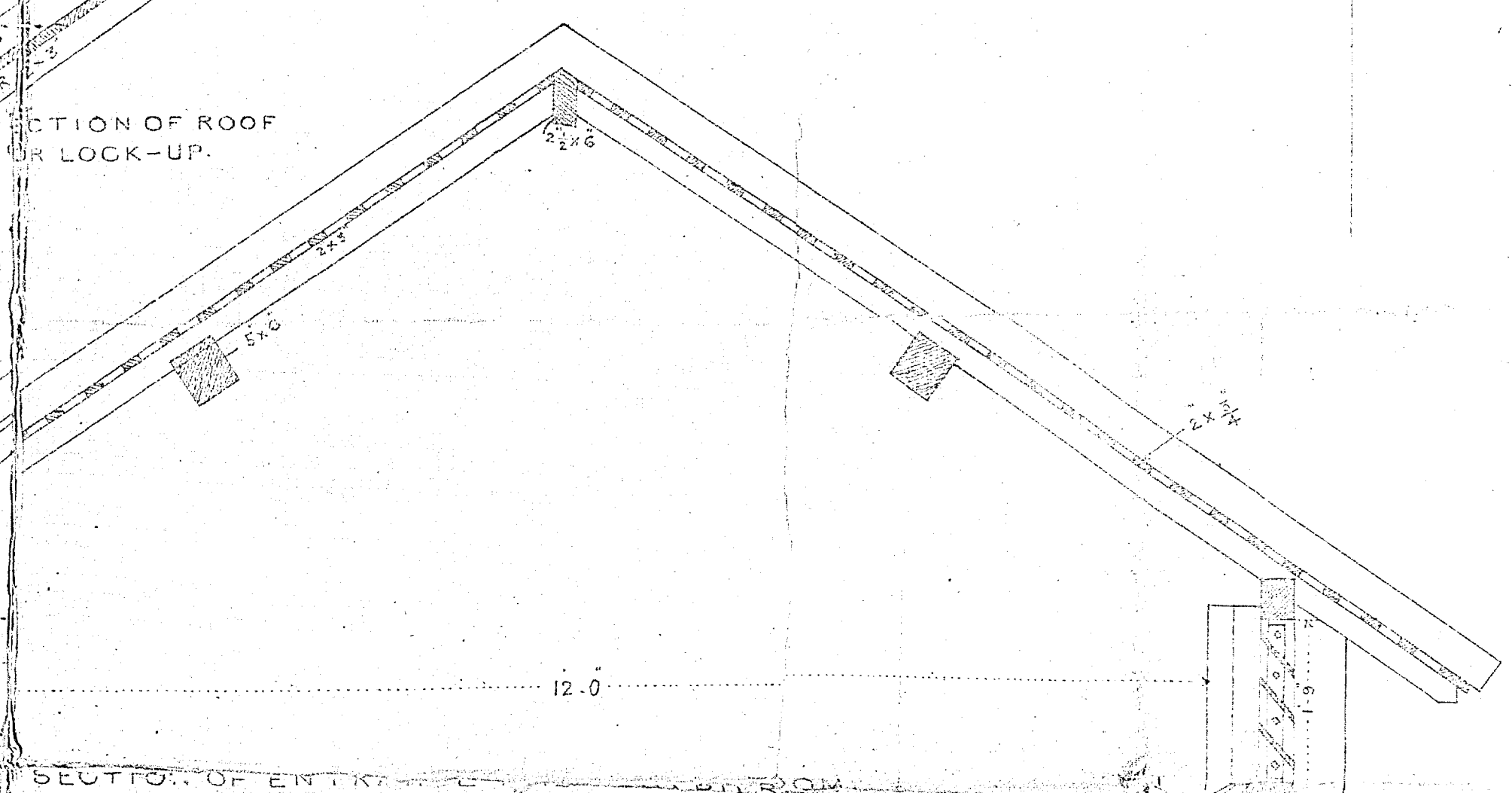


SECTION OF ROOF
FOR LOCK-UP.

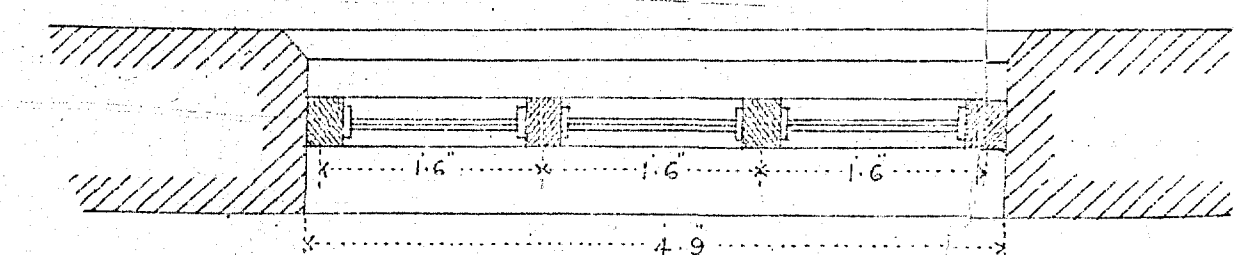
N.B. FOR DETAILS OF DOORS AND LOOP HOLES.
SEE DESIGN NR 3. WITH TERRACED ROOF SHEET NR 2.



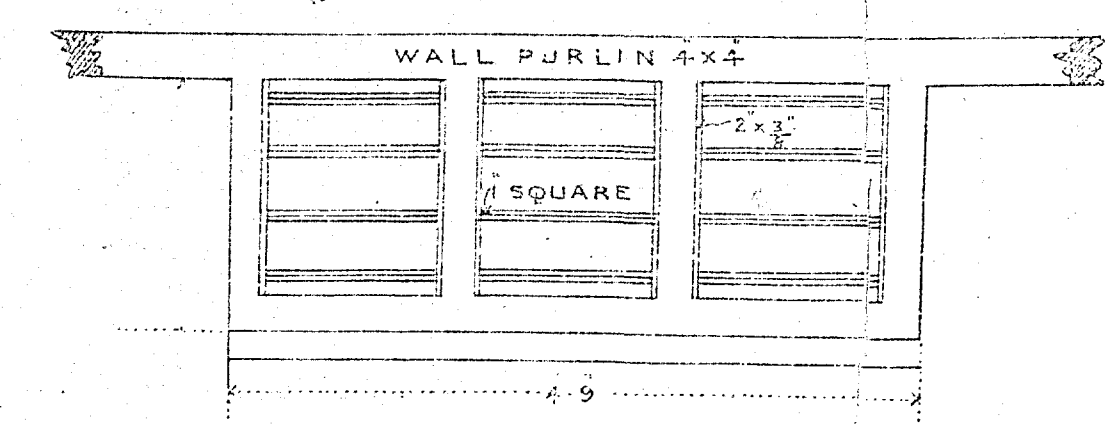
SECTION



SECTION OF ENTRY TO ROOM



PLAN OF VENTILATOR.



ELEVATION OF VENTILATOR (VENETIANS REMOVED)

(Signed) R. H. Chisholm
9th February 1879.

(Signed) R. H. Chisholm
9th July 1880.

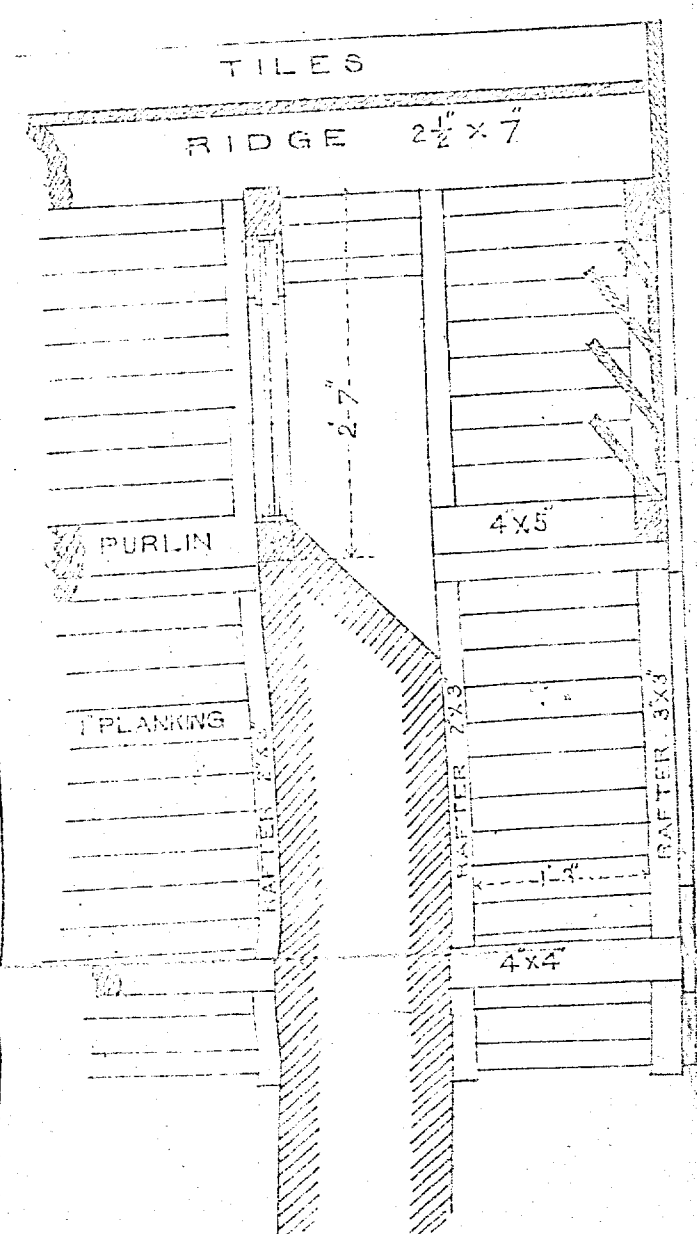
Chief Office of the Insp^t Gen^l of Police
Melbourne 14th July 1879.

(Signed) T. E. Guthrie Major
Asst. Insp^t Gen^l of Police.
for Asst. Inspector General of Police.

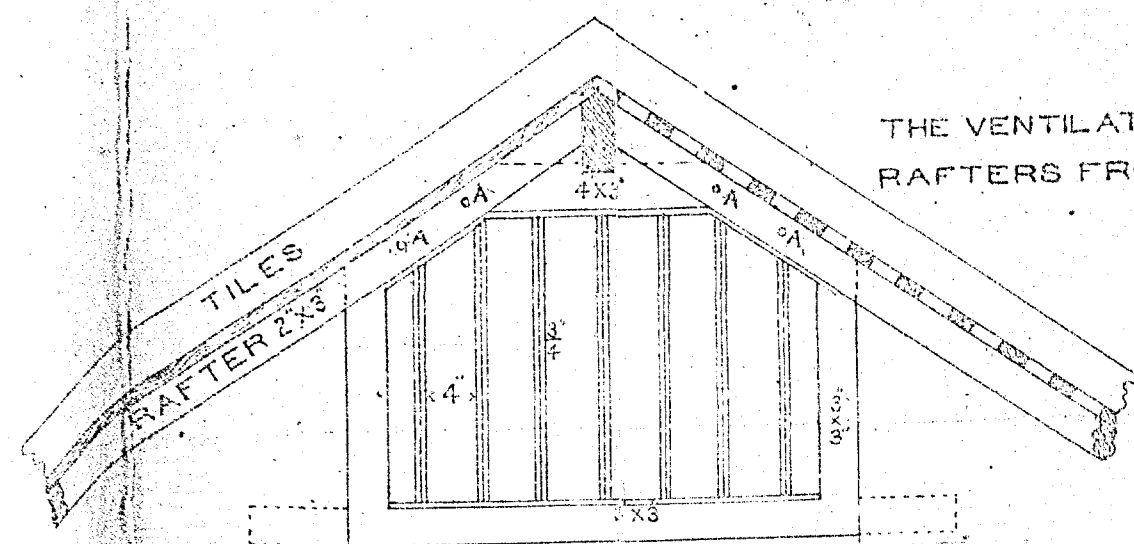
Handwritten signature

SCALE FOR DETAILS 3/4 INCH = 1 FOOT

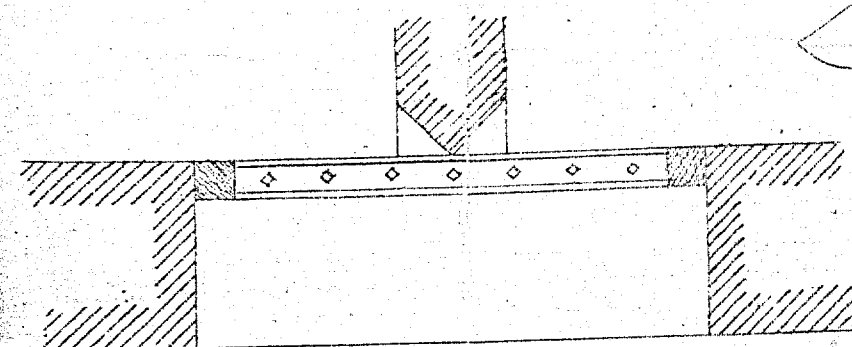
N.B. FOR DETAILS OF DOORS WINDOW AND LOOP HOLES,
SEE DESIGN N°2 WITH TERRACED ROOF. SHEET. N°211



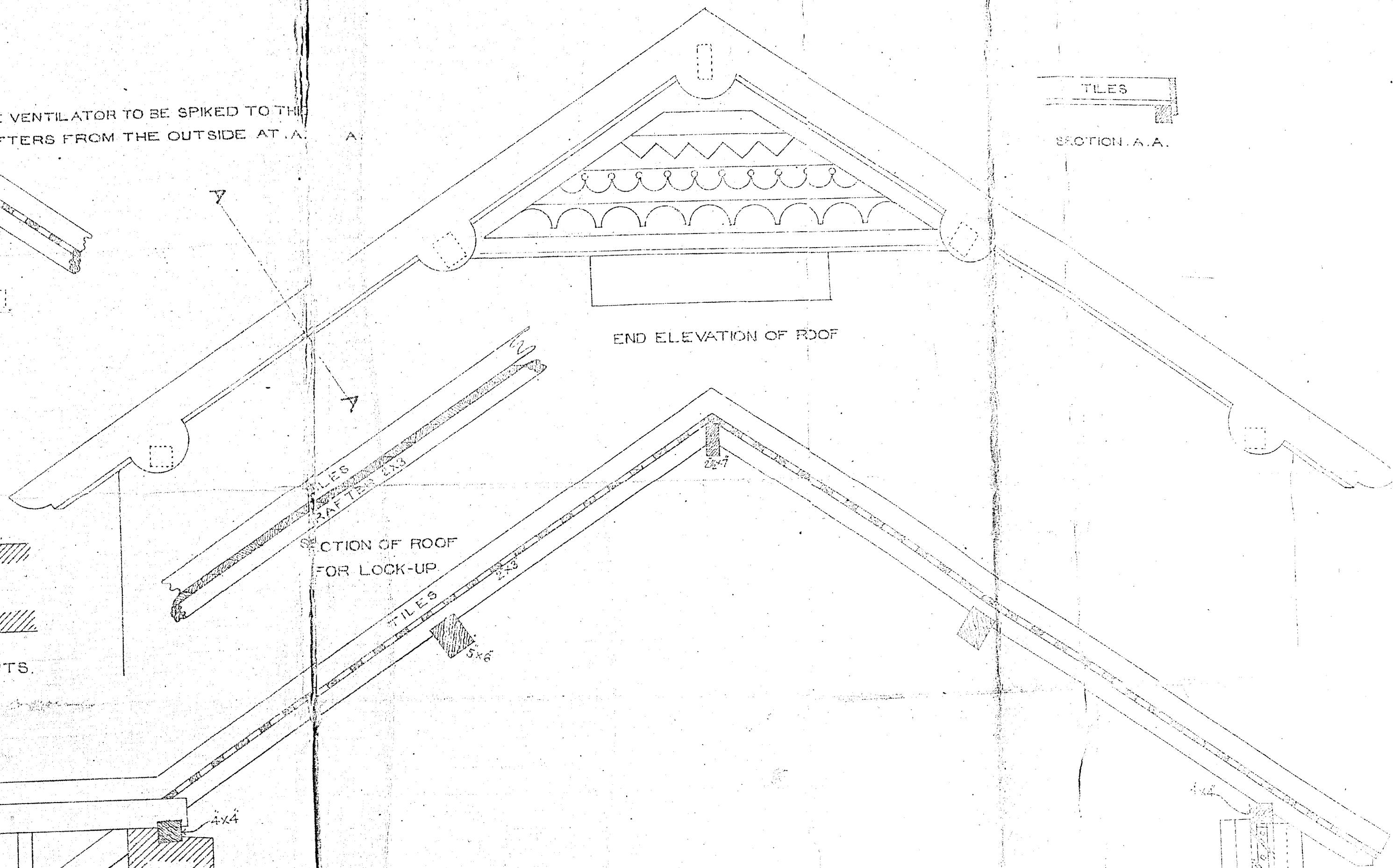
SECTION THRO RIDGE



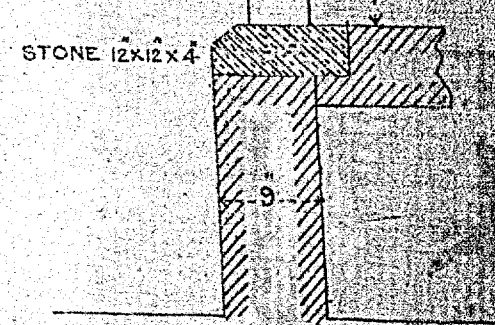
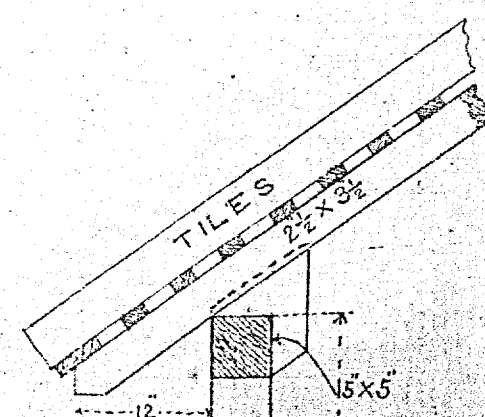
INTERIOR SECTIONAL ELEVATION
OF VENTILATOR



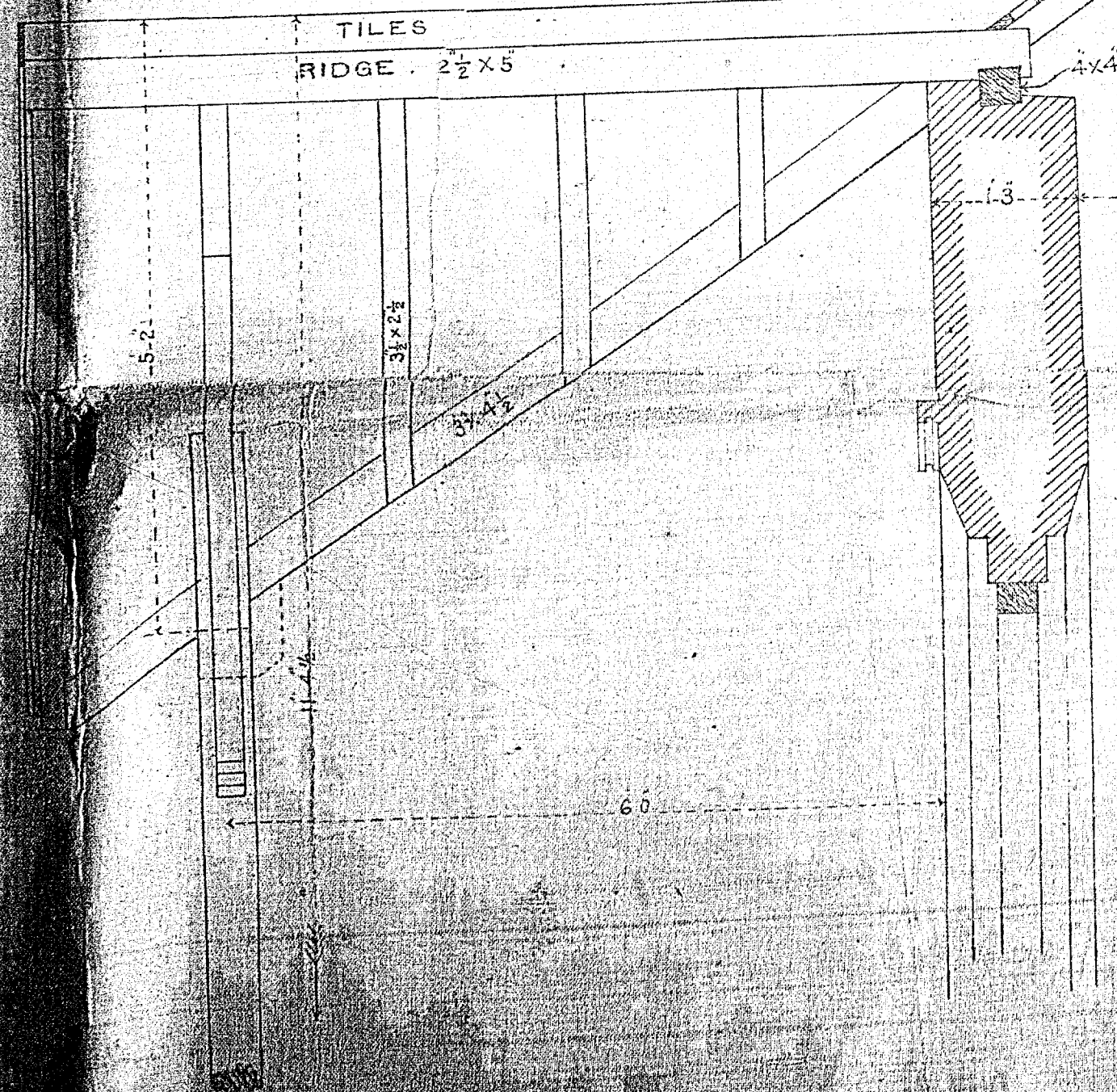
PLAN WHERE CROSS WALL ABUTS.



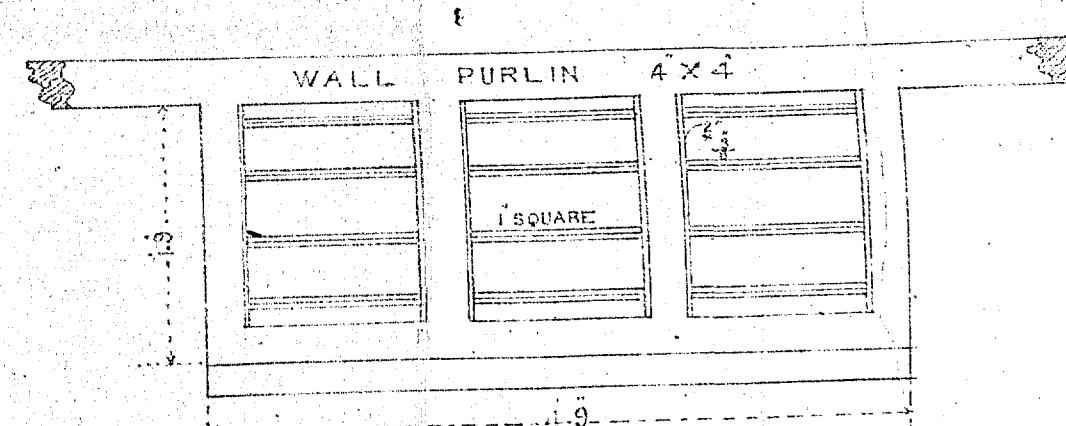
END ELEVATION OF ROOF



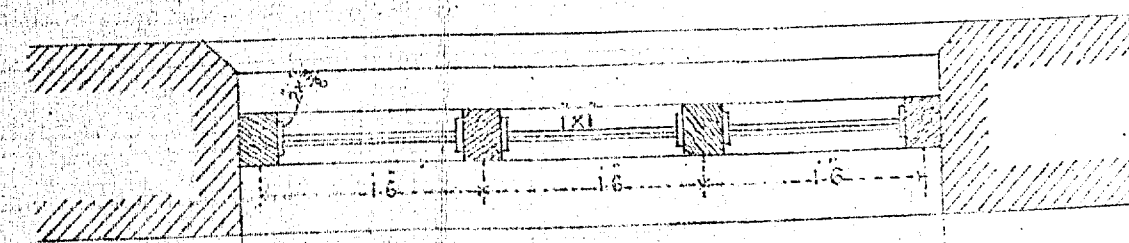
SECTION



SECTION THRO' ENTRANCE & GUARD ROOM



ELEVATION OF VENTILATOR (VENETIANS REMOVED)



PLAN OF VENTILATOR

SCALE FOR DETAILS $\frac{3}{4}$ INCH = 1 FOOT

Chief Office of the Inspectorate of Police
Madras 11th July 1907
(Signed) F. W. Colver, Major
Ag. Asst. Insp. of Police
for Insp. of Police of Tanjore
District, Tanjore

ROADS AND BUILDINGS.

No. 276

CONSULTING ARCHITECT'S OFFICE,
Chepauk, 21st July 1876.

FROM

THE CONSULTING ARCHITECT TO GOVERNMENT,

TO

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

SIR,

Encloses.

and

Estimates

specification

I have the honor to return the plans and
Estimates of the Alternative design for 1st 2nd 3rd
class Stations with sloped roofing countersigned
by the Assistant Inspector General of Police.

I have the honor to be

Sir

Your most Obedt. servt.

B. C. C. C.

Consulting Archt. to Govt.

P. W. SECRETARIAT-1879-80.

KEEP WITH.

Current No. 4697

Letter No. 276

Dated the 21st July 1880

from the Consulting Architect
to Government

Read the following papers

1828/7

The Government approve
the Alternative Standard
designs for 1st, 2nd & 3rd Class
Police Stations submitted
by the Consulting Architect
and direct their adoption
in supersession of all
previous designs for such
buildings.

The designs will be
lithographed and the Spe-
cification and Estimates
of Quantities printed and
circulated for the infor-
mation of the Department.

22nd July 1880.

[Signature]

[Signature] 23/7

[Handwritten note:]
We have no more
copies left of G.O. 1828/7
12th August 1880 containing
the estimates & specification
submitted by the S.A. and
the paper seems to be
re-printed. Original
sent up. J.D. 10/12/84

[Handwritten note:]
But

for orders whether
a reprint shall be
ordered, or the S.E.
informed that no
copies are available.

We have now
no copies left to
meet future re-
quirements.

[Signature]

10.12.84

[Handwritten note:]
S.A.W.

a reprint and letter to
order. *[Signature]*

R.K.

10.12.84

Please have a reference
to the S.E. for the
reprint of the S.E.
for the S.E. for the
reprint of the S.E.

[Handwritten note:]
S.E. for the
reprint of the S.E.

Saw
I see from the original
that we sent 85 copies
to the Jud. Dept. and
before ordering the re-
-print of the order
would it not be as
well to send a letter
to the Jud. Dept. asking
for the return of
all copies that can
be spared - we might
then save the cost of
re-printing which will
be very heavy on account
the diagrams or sketches
in the paper. J.J.
11-12-94-

R.H. New writer to
Jud. Dept., but saying
they must have this
limited the description
51 copies to Police Officer
Anyway it is worth
trying, & this matter
can therefore be over
until I receive an
reply from the Dept.

Cu
11-12-94

P.W.D.

10 JUL 80

N.D.

3rd class Police Station
with sloped roofing

Detailed quantities

Consgr. Archts. Office

7th July 1880

Department Public Works

Police Stations

15

Specification of works to be performed
in executing the standard designs of Police
Stations with sloped roofing according to
Drawings Nos: 1. 2. 3. A.

Excavation

Clearing site.

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

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 officers in charge of the works
may direct.

Slips & Raining.

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

Ramming.

After the officers in charge of the works
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 inches 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 3 bricks high.

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

The walls will be a brick and a half thick (not less than 1 1/2 or greater than 1 5/8). The quantities allow 1 5/8.

The openings will be splayed as shown on the plan.

Loop holes of the form and dimensions shown on the drawing will be left in the walls after the masonry is set built in with half

concrete.

Brickwork

Splays

Loop holes.

- half a brick in mud and plaster all flush on the outside.

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 brickwork has settled down.

Road.

The bond should be English if possible.

Stones.

Fix the stones under the verandah posts also those under the truss and fasten properly all wood supplied by the carpenter.

Stone Mason

Provide and dress 2 lines of stones 1 x 1 x 1/2 with mortice holes 2 inches square and 2 inches deep to receive the verandah posts.

Steps.

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

Carpenter

Truss.

Note - Vary this clause according to class.

Frame a truss of the dimensions and form shown on the drawing. The heels of the rafters will be tenoned into the tie-beam and strapped down tight, and the heads allowed to butt simply. Over the heads place a choke, hollowed out so as to cover the joints and fasten it down by the first rafter (the struts having been cut to admit of the rafter) cap a rope round the truss twist up the tie-beam to the required camber.

- and screw home the first nut on the King rod. The lower ends of the struts will butt simply against the tie-beams and against each other and they will be held in their places by round pieces of wood; the upper ends will be tenoned into the rafters when the truss is hoisted. put on the ridge over the King rod head and screw the second nut down tight. Shave the purlins and rafters each to the extent of one inch. Support the purlin over the wall.

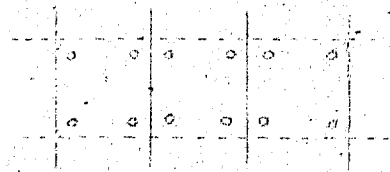
Supply and fix common rafters Rafters
 2" x 5" spaced 18 inches from centre to centre. Set the ends of ridge and purlins project beyond the face of the outer wall to the extent of 1.8, spike on the ends the ornamental pieces shown on the plan.

Supply frame and fix two end Ventilators
 Ventilators build the shoulders of the eills into the walls and fasten the top by halving to the extent of 1 inch into the ridge and screw to the last rafter. Frame the side Ventilators into the wall purlins. Frame the roof of the Verandah as shown in the details on the drawing. Under the tiles lay paper 2" x 2" spaced 5 inches from centre to centre over the rafters of the look up eills lay 1 inch plank in lines of paper, fasten the same strongly so that pressure cannot easily remove the plank and escape by the roof.

Arm racks.

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

Provide strong battled doors made of three-quarters of an inch planks horizontal and vertical well held together with palis.



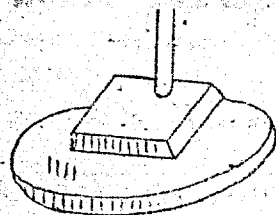
treanils four to each crossing, cut in suitable positions clear of joints and of the holes for firing through. Provide strong fastenings and iron bars on the inside of each opening.

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

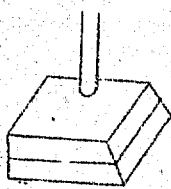
Floor.

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. P. 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

beat with a wooden mallet on a hard surface to about an inch thickness from say  1/2 inches. provide a template the size of the tile required and cut with sloping sides.



Tile uncut

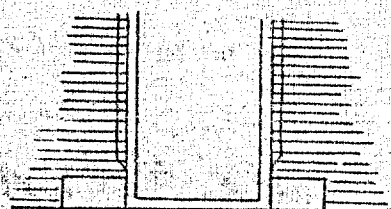


Tile cut

When laid the underside should be turned up thus.



The texture of the earth being closer will require heavier firing. Where 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.



Roofing.

The roof will consist of tiles neatly shaped and well burnt.

Lay in the valleys caused by the two slopes of the Verandah roof either chert or lime. Then tile over the whole supported by Churnam bands if necessary.

Ironmongery

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

Provide for the Entrance a pin lock with a Key hole on either side; the other iron gratings may be padlocked.

Plasterer

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

Wash the interior and exterior with 2 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

3 " 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} renewed from year to year and will always have a neat and finished appearance.

Materials

The Bricks will be cast in a mould - & -
x - well burnt and free from defects.

The tiles will be - & - well burnt
and watertight.

The Timber will be well seasoned
squared 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.

Bengal Archt. Office
Calcutta 9th July 1880.

M. L. S. S. S.

Consulting Archt. to Govt.

Chief Officer of the Dept. of Public Works
Calcutta 10th July 1880.

M. L. S. S. S.

Chief

Chief Officer of the Dept. of Public Works
for Inspection of the Govt. of India.

P.W.D.

10th 1880

Police Stations with
sloped roofing

Specification

Consig Archts Office
9th July 1880.

Estimate of the cost of constructing a 1st class
Police Station House with sloped roofing according to
Standard design No 1 A

Detailed quantities

Description of work	No	L	B	D	Content	Total
<u>Excavation for foundations</u>						
Outer walls	1	12	0 4	0 3	0	1344
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	0	507
Steps	11	0 3	0 1	6	0	80

Cubic feet 2261

Cubic yards 84

Earthfilling in basement

Guard room	1	15	0 15	0 1	6	405
Lock-up	1	9	0 15	0 1	6	203
Do and Inspector's	2	9	0 7	1 1	6	192
Verandah	1	37	0 6	3 1	6	347

Cubic feet 1147

Cubic yards 43

Concrete 12 inches thick

Excavation	2211	6 ft	÷ 3	=	737
Steps	1	11	0 3	0 1	0 33

Cubic ft 770

Brickwork in foundations

footings.

outer walls	112.02.31.6	378
Partitions	2 14.02.31.6	95
do	1 8.01.91.6	21
Verandah walls	53.01.91.6	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 11.03.00.6	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	76
do	1 9.00.92.0	14
Verandah walls	51.00.92.0	77
Steps	1 11.03.00.6	17
do	1 9.02.00.6	9
do	1 7.01.00.6	4

516

Deduct stone in steps

23

Cubic feet 493

Brickwork in superstructure

outer walls	112.01.310.6	1470
Partitions	2 15.01.310.6	394
Gables	4 17.61.32.10	252
Partition	1 9.00.916.3	110

2226

Carried over 2226

Brought forward cubic ft 2226

Deductions

Doors

2 3.91.36.6 61

do

4 2.91.36.0 83

Windows

1 3.01.34.0 15

Ventilators

5 4.91.31.9 52

do in gables

2 3.61.32.7 23

Archwork as per details

33

267

Cubic ft 1959

Archwork

segmental arches over doors

2 4.61.31.0

do

do

4 3.61.31.0

33 cft

do

windows

1 3.61.31.0

Stonework if easily procured

steps

37.01.30.6 23 cft

Teakwood

Verandah posts

2 0.50.58.0 3

do

4 0.50.55.9 4

Breastsummers

2 17.00.50.5 6

Rafters for verandah

20 10.60.2 1/2 0.3 1/2 13

Ridge for entrance

1 9.00.2 1/2 0.5 1

Half rafters for do

2 12.60.30.4 2

Small rafters for do

4 9.00.2 1/2 0.3 1/2

do

do

4 8.00.2 1/2 0.3 1/2

do

do

4 6.60.2 1/2 0.3 1/2

do

do

2 5.00.2 1/2 0.3 1/2

do

do

4 4.00.2 1/2 0.3 1/2

Barge board for do

2 9.80.3 1/2 0.4 1

studs for do

2 5.00.2 1/2 0.10 2

boards to secure verandah

Rafters to Breastsummers

20 0.2 1/2 0.81.0 3

Carried over 12

		Brought forward		42
Truss 15 ft span	Lie Beams	1	17.60 . 40 . 6	3
	Principal rafters	2	9.60 . 40 . 4	2
	Sticks	2	4.90 . 30 . 3	1
	Purlins	2	45.00 . 40 . 5	13
	Wall purlins	2	45.00 . 40 . 4	10
	Ridge	1	45.00 . 25 . 0	5
	Common rafters	31	11.90 . 20 . 3	15
	Do	27	10.60 . 20 . 3	12
	Do at ends	4	11.90 . 30 . 3	3
	Barge boards	4	12.61 . 00 . 1	4
Cubic ft.				110

Wrought iron work in truss

1" diameter King rod	1	6.9	X 2.62	17.68
1" hex nut and bolt head	3		X 0.55	1.65
3 inches x 3 inches x $\frac{1}{2}$ inch washers	3		X 0.32	0.96
$\frac{1}{2}$ inch x $\frac{3}{8}$ inch flat iron straps	2	2.6	X 1.87	9.35
$\frac{1}{2}$ inch x $\frac{1}{2}$ inch bearing plates	2	0.6	X 2.92	2.92
$\frac{1}{2}$ inch hex nuts for straps	4		X 0.06	0.24
2 inches x 2 inches x $\frac{1}{8}$ inch washers	4		X 0.14	0.56
Total				38.36

Inner doors

Inner doors

4 2.9 6.0 66 Sq. ft.

Teak butter doors with frames and fastenings

Butter doors

2 3.9 6.6 49 Sq. ft.

Butter windows

1 3.0 4.0 12 Sq. ft.

Ventilators. wooden frames and ventilators with iron bars

5 4.9 1.9 12 Sq. ft.

Ventilators. wooden frames and iron bars at gable ends

2 3.6 2.7 18 Sq. ft.

Frames with fixed ventilators in gables

2 7.6 1.3 19 Sq. ft.

Shedding over exterior opening

Doors

2 5.0 10

Windows

1 4.6 4.6

Lineal ft. 14.2

Stones under verandah posts 14' x 4'

6 in Number

Stones under truss

2 in Number

Tiled roofing with plain tiles over 1" teak plankings

Lockups

2 12.6 12.6

do

1 7.8 12.6 32.0

do

1 10.10 10.6 11.4

Square ft. 43.4

Squares - 4.34

Tiled roofing with flat & pane tiles over teak planks

Guard room Lockups &c.

1 19.4 12.0
1 1.8 12.0 25.2
1 10.10 10.6
1 19.4 10.6 31.7

Verandah

38.10 10.0 38.9

Entrance

2 9.0 4.10 8.7

Square ft. 99.5

Squares - 9.95

Flooring with square tiles

Guard room	1	15.0	18.0	270
Inspector's room	1	7.12	9.0	64
Verandah	1	38.6	7.0	270
Door pieces	2	3.9	1.3	13
Do	1	2.9	1.3	13
Do	3	2.9	0.72	5

squareft. 622

squares 6.22

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

Lock-up	1	15.0	9.0	135
Do	1	7.12	9.0	64
Door pieces	3	2.9	0.72	5

squareft. 204

squares 2.04

Plastering interior and washing

Guard room	66.0	10.6	693
Gables	2 17.6	2.10 $\frac{1}{2}$	101
Lock-up	48.0	10.6	504
Gables	2 17.6	2.10 $\frac{1}{2}$	101
Lock-up and Inspector's room	2 32.3	10.6	677
Do partition upper portion	2 9.0	5.09	104
Gables	2 16.3	2.10 $\frac{1}{2}$	93
Door Jambs	2 17.0	1.3	43
Do	4 15.0	1.3	75
Window Jambs	1 14.0	1.3	18
Ventilators Do	5 8.3	1.3	52
Do Do	2 7.6	1.3	19

2480

Deductions

Doorways	2	3.9	6.6	49
----------	---	-----	-----	----

Carried over Sq. ft. 49 2480

Brought forward Sq. ft. 49 2480

Doorways	2	4.2.9	6.0	132
Windows	1	3.0	4.0	12
Ventilators	5	4.9	1.9	42
Do	2	3.6	2.0	14

249

squareft. 2231

squares 22.31

Plastering exterior and washing

Basement	132.6	2.0	265
Superstructure	117.0	10.6	1229
Gables	2 17.6	2.10 $\frac{1}{2}$	101

1595

Deductions

Door	2	3.9	6.6	49
Windows	1	3.0	4.0	12
Ventilators	5	4.9	1.9	42
Do	2	3.6	2.0	14

117

squareft. 1478

squares 14.78

Painting with 3 coats of wood oil

Rafters for verandah	20	10.6	0.92	166
Ridge for entrance	1	9.0	1.12	9
Hip rafters for Do	2	12.6	1.0	25
Small rafters for Do	—	120.0	0.92	95
Lie Beam	1	17.6	1.8	29
Principal rafters	2	9.6	1.4	25
Struts	2	4.9	1.0	10
Purlins	2	44.4	1.2	103
Wall purlins	2	44.4	1.0	89
Ridge	1	44.4	1.42	61
Common rafters	31	11.9	0.8	432
Do	27	10.6	0.8	432
Do at ends	4	11.9	0.6	24

Carried over Sq. ft. 1068

Brought forward Sq. ft 1060

Planing
Peepers

2488.0 0.37 726

squares 2228

squares 2228

Painting with coats of carson's oak
color.

Doors	2x 2 3 .9	6 .6	98
Do	2x 4 2 .9	6 .0	132
Window	2x 1 3 .0	4 .0	24
Ventilators with venetians and iron bars	3x 5 4 .9	1 .9	125
Ventilators with iron bars	2x 2 3 .6	2 .7	36
Frames with venetians in gables	3x 2 7 .6	1 .3	63
Packs	4 1 .8	5 .8	62
Do	2 1 .8	7 .8	60
Breastsummers	2 17 .0	1 .9	60
Seats	20 0 .6	0 .9	8
Barge board over entrance	2 9 .8	0 14 3/4	8
Seats for Do	2 4 .0	1 .0	8
Barge board in gables	4 12 .6	1 .0	50

squares 667

squares 6.67

Ammunition for 10 Rifles

7 Lineal ft.

Peepers for Accoutrements

12 in Number

Shelf for Inspectors gun 1 in Number

1st class Police Station House with tiled roofing Plan No 1A

Abstract

24

Quantity	Item	Rate Per Amount
84	Excavation for foundations	
43	Earthfilling in basement	
770	Concrete	
763	Brickwork in foundations	
493	Do in basement	
1959	Do in Superstructure	
33	Archwork	
20	Stonework in steps (if easily procured)	
110	Teakwood wrought and put up	
3336	Wrought Ironwork in truss	
66	Iron doors	
49	Teak batten doors with frames & fastenings	
12	Teak batten window Do	
42	Ventilators wooden frames & venetians with iron bars	
18	Do wooden frames and iron bars at gable ends	
19	Frames with fixed venetians in gables	
14 1/2	Mouldings over exterior openings	
6	Stones under verandah posts	
2	Stones under truss	
434	Tiled roofing with panholes over 1" teak planing	
995	Tiled roofing with flat and panholes over teak peepers	
622	Flooring with square tiles	
204	Flooring with gully 6" thick and painting over with tar and asphalt composition	
2231	Plastering interior and washing	

- 14.78 Plastering exterior and washing
- 22.28 . Painting with 3 coats of wood-oil
- 6.67 . Painting with 3 coats of carson's oak color
- 7 Lft. Armrack for 10 Rifles
- 12 Lft. Pegs for accoutrements
- 1 . Moveable shelf for ~~records~~ ^{the} Inspector's room.

Contingencies at 5 percent

Total Expenses

Comdg. Archt. Office
Chepauk 9th July 1883

M. M. M. M.

Comdg. Archt. to Govern.

Ch. of Police
Alameda St. 1883

M. M. M. M.

Ch. of Police
Alameda St. 1883

P.W.D.

10' 11" 80

1st class Police Station
with sloped roofing

Detailed quantities

Waring Archts Office

9th July 1880

Estimate of the cost of constructing a 2 class Police Station
House with sloped roofing according to standard design No. 2 A

Detailed quantities

27

Description of work	No	L	B	H	Contents	Total
<u>Excavation for foundations</u>						
outer walls	100	" 0.4	" 0.3	" 0	1200	
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	11	" 0.3	" 0.1	" 6	50	
					<u>Cubic feet 2043</u>	
					<u>Cubic yards 76</u>	
<u>Earthfilling in basement</u>						
Guard room	1	12	" 0.15	" 0.1	" 6	270
Lock-up	1	9	" 0.15	" 0.1	" 6	203
Do and Inspector's	2	9	" 0.7	" 1.2	" 1	192
Verandah	31	" 0.5	" 9.1	" 6	267	
					<u>Cubic feet 932</u>	
					<u>Cubic yards 35</u>	
<u>Concrete. 12" thick</u>						
Excavation. 1993 cft ÷ 3						664
steps	1	11	" 0.3	" 0.1	" 0	33
					<u>Cubic feet 697</u>	
<u>Brickwork in foundations</u>						
footings	100	" 0.2	" 3.1	" 6	338	
outer walls					<u>Carried over 338</u>	

Brought forward		338	0
Partitions	2 14 . 02 . 31 . 6	96	0
Do	1 8 . 01 . 91 . 6	21	0
Verandah walls	43 . 01 . 91 . 6	113	0
Above footings to ground level			
Outer walls	100 . 01 . 30 . 6	63	0
Extra thickness for plinth	74 . 00 . 30 . 6	9	0
Partitions	2 15 . 01 . 30 . 6	19	0
Do	1 9 . 00 . 90 . 6	5	0
Verandah walls	44 . 00 . 90 . 6	17	0
Steps	1 11 . 03 . 00 . 6	17	0
		<u>Cubic ft</u>	<u>695</u>

Brickwork in basement			
Outer walls	100 . 01 . 32 . 0	258	0
Extra thickness for plinth	74 . 00 . 32 . 0	37	0
Partitions	2 15 . 01 . 32 . 0	75	0
Do	1 9 . 00 . 92 . 0	14	0
Verandah walls	44 . 00 . 92 . 0	66	0
Steps	1 11 . 03 . 00 . 6	17	0
Do	1 9 . 02 . 00 . 6	9	0
Do	1 7 . 01 . 00 . 6	4	0
		<u>472</u>	0
Bedded stone in steps		23	0
		<u>Cubic ft</u>	<u>449</u>

Brickwork in Superstructure			
Outer walls	100 . 01 . 310 . 6	1313	0
Partitions	2 15 . 01 . 310 . 6	394	0
Gables	4 17 . 61 . 32 . 10	252	0
Partitions	1 9 . 00 . 916 . 3	110	0
		<u>2069</u>	0
Plaster	1 3 . 91 . 36 . 6	30	0
Do	4 2 . 91 . 36 . 6	83	0
		<u>113</u>	<u>2069</u>

Brought forward		113	2069
Window	1 3 . 01 . 34 . 0	15	0
Ventilators	4 4 . 91 . 31 . 9	42	0
Do in gable ends	2 3 . 61 . 32 . 7	23	0
Archwork as per details		221	0

Archwork			
Segmental arches over door	1 4 . 61 . 31 . 0	28	6ft
Do	4 3 . 61 . 31 . 0		
Do window	1 3 . 61 . 31 . 0		

Stonework if easily procured			
Steps	37 . 01 . 30 . 6	23	6ft

Leathwood			
Picks	1 0 . 50 . 56 . 1 1/2	4	0
Do	2 0 . 50 . 58 . 0	3	0
Pneashammers	2 14 . 00 . 50 . 5	5	0
Plasters for verandah	15 10 . 00 . 2 1/2 . 0 . 3 1/2	10	0
Ridge for entrance	1 8 . 70 . 2 1/2 . 0 . 5	1	0
Help in rafters for do	2 11 . 60 . 30 . 4 1/2	2	0
Small rafters for entrance	2 8 . 60 . 2 1/2 . 0 . 3 1/2		
Do	4 7 . 00 . 2 1/2 . 0 . 3 1/2		
Do	4 6 . 00 . 2 1/2 . 0 . 3 1/2	6	0
Do	4 4 . 60 . 2 1/2 . 0 . 3 1/2		
Do	4 3 . 60 . 2 1/2 . 0 . 3 1/2		
Barge board	2 9 . 00 . 40 . 3/4	1	0
Struts for entrance	2 0 . 100 . 2 1/2 . 5 . 1	2	0

Planks to secure verandah rafters			
to Pneashammers	18 0 . 2 1/2 . 0 . 3 1 . 0	3	0
Purlins over guard room	2 14 . 00 . 50 . 6	6	0
Do over looking & inspection room	4 12 . 80 . 40 . 5	7	0
Wall purlins	2 38 . 60 . 40 . 4	9	0
Ridge	1 38 . 60 . 2 1/2 . 0 . 7	5	0
Common rafters	27 11 . 90 . 20 . 3	23	0
Do	23 10 . 60 . 20 . 3		
Carried over		87	0

	Brought forward	87
Common rafters at ends	4 11 - 90 - 30 - 3	3
Barge boards	4 12 - 61 - 00 - 1	4

Cubic ft 94

Iron inner doors

4 2 - 9 6 - 0 66 sq ft

Teak batten door with frames and fastenings

1 3 - 9 6 - 6 24 sq ft

Batten window with frames and fastenings

1 3 - 0 4 - 0 12 sq ft

Ventilators - wooden frames and Venetians with Iron bars

4 4 - 9 1 - 9 32 1/2 sq ft

Ventilators wooden frames and iron bars at gable ends

2 3 - 6 2 - 7 18 sq ft

Frame with fixed Venetians in gables

2 7 - 6 1 - 3 19 sq ft

Planks under decks 1 1/2' x 4'

to air circulation

Roofing over exterior openings
Door 1 5
Window 1 4 1/2

Cubic ft 9 1/2

29

Tiled roofing with pantiles over 1" teak planking

Lockup

2 12 - 6 12 - 0 } 320
1 1 - 8 12 - 0 }
1 10 - 10 10 - 6 114

Square feet 434

Square feet 434

Tiled roofing with flat and pantiles over teak sleepers

1 12 - 4 12 - 0 } 180
1 1 - 8 12 - 0 }
1 10 - 10 10 - 6 } 254
1 13 - 4 10 - 6 }
23 - 4 1/2 9 - 6 270
2 9 - 0 4 - 6 81

Square feet 785

Square feet 785

Flooring with square tiles

Guard room

1 12 - 0 15 - 0 180

Inspector's room

1 9 - 0 7 - 1/2 64

Verandah

1 32 - 6 6 - 6 211

Door piece

1 3 - 9 1 - 3 8

Do

1 2 - 9 1 - 3 8

Do

3 2 - 9 0 - 7 1/2 5

Square feet 468

Square feet 468

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

Lock-up	1 15.0	9.0	135
Do	1 7.12	9.0	64
Door pieces	3 2.9	0.72	0

Square feet 254

Squares 2.04

Plastering interior and washing

Guard room	54.0	10.6	587
Gables	2 17.6	2.102	101
Lock-up	48.0	10.6	504
Gables	2 17.6	2.102	101
Lock-up & Inspector's room	2 32.3	10.6	677
Partition, upper portion	2 9.0	5.9	104
Gables	2 16.3	2.102	93
Door jambs	1 17.0	1.3	21
Do	4 15.0	1.3	75
Window jambs	1 11.0	1.3	14
Ventilators	4 8.3	1.3	44
Do	2 7.6	1.3	19

2317

Deductions

Doorway	1 3.9	6.6	24
Do	2x 4 2.9	6.0	132
Window	1 3.0	4.0	12
Ventilators	4 4.9	1.9	33
Do	2 3.6	2.0	44

215

Square feet 2102

Squares 2.02

Plastering exterior and washing

Basement	119.6	2.0	239
Superstructure	105.0	10.6	1103
Gables	2 17.6	2.102	101

1443

Brought forward 4443

Deductions

Doors	1 3.9	6.6	24
Window	1 3.0	4.0	12
Ventilators	4 4.9	1.9	33
Do	2 3.6	2.0	44

83

Square feet 1360

Squares 13.60

Painting roof with 3 coats of wood oil

Rafters for verandah	16 13.0	0.92	127
Ridge for entrance	1 3.7	1.2	9
Ship rafters for Do	2 11.6	1.0	23
Small rafters for Do	101.0	0.92	80
Purlins	2 12.0	1.5	34
Do	4 10.8	1.2	50
Wall purlins	2 35.0	1.0	76
Ridge	1 35.6	1.42	49
Common rafters	27 11.9	0.8	373
Do	23 10.6	0.8	373
Do	4 11.9	0.6	24
Planking			434
Reapers	1945.0	0.32	567

Square feet 1846

Squares 18.46

Painting with 3 coats of Carson's Oak Color

Doors	2x 1 3.9	6.6	49
Do	2x 4 2.9	6.0	132
Window	2x 1 3.0	4.0	24
Ventilators with venetians and iron bars	3x 4 4.9	1.9	100
Do with iron bars	2x 2 3.6	2.7	36

Carried over 341

	Brought forward 341			
Frames with venetians in gables	37	2 7.6	1.3	58
Pasts	4	1.8	5.93	64
do	2	1.0	7.93	47
Breaststimmers	2	14.0	1.8	
Planks	18	0.6	0.9	7
Barge board over entrance	2	9.0	0.43	7
struts	2	4.0	1.0	8
Barge board in gables	4	12.6	1.0	50

squares 580

squares 5.8

Room - Bath for 4 Rifles

23 1/2 Lincalft.

Page for Accommodations

6 in Number

Movable shelf for Inspector's room

1 in Number.

2. class Police Station House with sloped roofing Plan No 24

Abstract

Quantity	Item	Rate Per amount
76 cys	Excavation for foundations	
35 "	Earthfilling in basement	
697 cft	Concrete	
695 "	Reinforcement in foundations	
449 "	Do in basement	
1348 "	Do superstructure	
28 "	Archwork	
23 "	Cutstonework in steps	
94 "	Teak wood wrought and put up	
66 cft	Iron inner doors	
24 "	Teak batten door with frames & fastenings	
12 "	Do window	Do
33 1/4 "	Ventilators - wooden frames and venetians with iron bars	
18 "	Ventilators - wooden frames and iron bars for gable ends	
19 "	Frames with fixed venetians - for	Do Do
6 1/2	Planks under pasts	
9 1/2	Lft. Moulding over exterior openings	
434 sq	Tiled roofing with pantiles over 1 inch teak planking for lock-up	
7.85 "	Tiled roofing with flat & pantiles and teak reapers	
4.68 "	Flooring with square tiles	
2.04 "	Flooring Lock-up with jelly benches thick and painting over with tar and asphaltic composition	
202 "	Plastering and washing interior	

13.60 sgs Plastering and washing exterior—
 18.46 . Painting roof with 3 coats of wood oil—
 5.80 . ———— Doors and windows & exposed
 woodwork with 3 coats of carson's
 oak color. ————

2 3/4 Lbs Arm-pack for 4 rifles ————
 6 lbs Pegs for accoutrements ————
 1 . Moveable shelf for Inspector's room ————

Ruppes —

Contingencies at 5 percent —

Total Ruppes —

Consig Archts Office
 Chepur 9th July 1883

W. L. L. L.

Consig Archts to Government

Chief Officer of the Inspector of Police
 at Madras 20th July 1880

M. C. C.

Assistant Chief of Police
 at Madras 20th July 1880

P.W.D. -

100180

2^d Class Police Station
with sloped roofing

Detailed quantities

Canoy Architects Office
9th July 1880.

Estimate of the cost of constructing a 2^d Class Police Station

House with sloped roofing according to standard. Design No 3 A

Detailed quantities

Description of Work	No	L	B	D	Extent	Cost
<u>Excavation for foundations</u>						
outer walls	69	6	4	0	0	945
partition	1	9	3	4	0	
Verandah walls	23	0	3	6	3	294
Steps	1	11	0	3	0	50

Cubic feet 1289

Cubic yards 48

Earthfilling in basement

guard room	1	12	0	12	0	1	342
Lock-up	1	7	0	12	0	1	
Verandah	1	18	9	5	3	1	148

Cubic feet 490

Cubic yards 18

Concrete 12 inches thick

Excavation	1239	6	ft	÷ 3		413	
Steps	1	11	0	3	0	1	53

Cubic ft 446

Brickwork in foundations

<u>footings</u>						
outer wall	69	6	2	3	1	6
Partition	1	11	0	2	3	1
						272

Brought forward - 272

Verandah walls	29 - 9' - 9' - 6	78
Above footings to ground level		
outer walls	69 - 6' - 3' - 6	51
Partitions	1 12 - 0' - 3' - 6	
Extra thickness for plinth	55 - 3' - 3' - 6	7
Verandah walls	30 - 9' - 9' - 6	12
Steps	1 11 - 0' - 0' - 6	17

Cubic feet 437

Brickwork in basement

outer walls	69 - 6' - 3' - 2 - 0	174
Extra thickness for plinth	55 - 3' - 3' - 2 - 0	28
Partitions	1 12 - 0' - 3' - 2 - 0	30
Verandah walls	30 - 9' - 9' - 2 - 0	46
Steps	1 11 - 0' - 3' - 0 - 6	17
Do	1 9 - 0' - 2' - 0 - 6	9
Do	1 7 - 0' - 1' - 0 - 6	4

308

Deduct stone in steps

23

Cubic ft 285

Brickwork in superstructure

outer walls	69 - 6' - 3' - 10 - 6	1070
Partitions	1 12 - 0' - 3' - 10 - 6	
Gables	3 14 - 6' - 3' - 2 - 5	131

1201

Deductions

Door	1 3 - 9' - 3' - 6 - 6	30
Do	1 2 - 9' - 1' - 3' - 6 - 0	21
Ventilators	3 4 - 9' - 1' - 3' - 1 - 9	31
Do in gables	2 3 - 6' - 1' - 3' - 2 - 4	20
Archwork as per details		10

Cubic feet 1079

Archwork

Segmental arch over door	1 4 - 6' - 3' - 1 - 0	10 6ft
Do	1 3 - 6' - 3' - 1 - 0	

Stone work, if easily procured

Steps	37 - 0' - 3' - 0 - 6	23 6ft
-------	----------------------	--------

Teakwood

Posts	2 0 - 5' - 0' - 5' - 6 - 4	2
Breadsummers	2 0 - 5' - 0' - 5' - 8 - 1/2	3
Rafters verandah	2 7 - 10' - 0' - 5' - 0 - 8	3
Ridge for entrance	8 9 - 6' - 0' - 2' - 2 - 0 - 3 1/2	5
High rafters for Do	1 8 - 3' - 0' - 2' - 2 - 0 - 5	1
Small rafters Do	2 11 - 0' - 0' - 3' - 0 - 4 1/2	2
Do	2 5 - 0' - 0' - 2' - 2 - 0 - 3 1/2	
Do	4 7 - 0' - 0' - 2' - 2 - 0 - 3 1/2	
Do	4 6 - 0' - 0' - 2' - 2 - 0 - 3 1/2	6
Do	2 4 - 6' - 0' - 2' - 2 - 0 - 3 1/2	
Do	4 3 - 6' - 0' - 2' - 2 - 0 - 3 1/2	
Large board for Do	2 5 - 9' - 0' - 4' - 0 - 3/4	1
Stumps	2 5 - 0' - 0' - 2' - 2 - 0 - 10	2
Beats to secure verandah		
rafters to breadsummers	8 9 - 2' - 2 - 0 - 8' - 1 - 0	1
Purlins over guard room	2 15 - 9' - 0' - 5' - 0 - 6	7
Do over lock-up	2 10 - 6' - 0' - 4' - 0 - 5	3
Wall purline	2 26 - 6' - 0' - 4' - 0 - 4	6
Ridge	1 26 - 6' - 0' - 2' - 2 - 0 - 6	3
Common rafters	19 9 - 10' - 0' - 2' - 0 - 3	8
Do	15 8 - 3' - 0' - 2' - 0 - 3	8
Do ends	4 9 - 10' - 0' - 3' - 0 - 3	2
Large board	4 10 - 7' - 0' - 1' - 1 - 0	4

Cubic ft 64

Iron inner door

1 2 - 9' 6 - 0 17 1/2ft

Leak batten door with frame and fastenings

1 3 - 9' 6 - 6 24 8ft

Ventilators - wooden frames & ventilators
with iron bars

3 4 . 9 1 . 9 25 sqft

Ventilators - wooden frames & iron bars
at Gable ends

2 3 . 6 2 . 4 16 8

Frames with fixed ventilators in gables

2 6 . 6 1 . 12 15 9

Mouldings over exterior openings
Door

5 Linft

Planes under Verandah posts 1' x 1' x 4'

4 in Number

Sealed roofing with paintless over
1 inch teak plankings

Lock up

10 . 6 10 . 6 } 128
1 . 8 10 . 6 }
8 . 10 8 . 9 77

Square feet 205

Squares 2.05

Sealed roofing with flat and pan
tiles over teak planks

Guard room

15 . 7 10 . 6 } 161
1 . 8 10 . 6 }
12 . 11 8 . 9 122

16 . 12 8 . 0 121

17 . 13 4 . 12 63

Square feet 497

Squares 5

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 . 72 2

Square feet 273

Squares 2.73

Flooring with jelly 6' thick & painting
over with a composition of 1 lb asphalt
to 5 lbs of tar

Lock up

1 7 . 0 12 . 0 84

Door piece

1 2 . 9 0 . 72 2

Square feet 86

Squares .86

Plastering interior and washing

Guard room

48 . 0 10 . 6 504

Lock up

38 . 0 10 . 6 399

Gables

4 14 . 6 2 . 5 140

Door jambs

1 17 . 0 1 . 3

Do

1 15 . 0 1 . 3

Ventilator jambs

3 8 . 3 1 . 3 88

Do

2 7 . 0 1 . 3

1131

Plastering

Door

1 3 . 9 6 . 4 24

Do

2 x 1 2 . 9 6 . 0 33

Ventilators

3 4 . 9 1 . 9 25

Do

2 3 . 6 1 . 6 11

93

Square feet 1038

Squares 10.38

Plastering exterior and washing
Basement

85 . 0 2 . 0 176

Brought forward	176
on structure	74 - 6
gables	2 14 - 6
	2 - 6
	70
	1028

Deductions

Door	1 3 - 9	6 - 6	24
Ventilators	3 4 - 9	1 - 9	25
Do	2 3 - 6	1 - 6	11
			60
		square feet	968
		squares	968

Painting with 3 coats of wood oil

Rafters for overhang	8 9 - 6	0 - 9½	60
Ridge for entrance	1 8 - 3	1 - 0½	9
Heip rafters for Do	2 11 - 0	1 - 0	22
Small rafters for Do	91 - 0	0 - 9½	72
Purlins over guard room	2 15 - 7	1 - 8	44
Do over lock up	2 10 - 4	1 - 2	24
Wall purlins	2 26 - 1	1 - 0	52
Ridge	1 26 - 1	1 - 2½	32
Common rafters	17 9 - 10	0 - 8	207
Do	15 8 - 3	0 - 8	
Do	4 9 - 10	0 - 6	
			20

Planking ————— 205

Roofers 1250 - 0 0 - 3½ 365

square ft 1112

squares 1112

Painting with 3 coats of Carson's oil color

Paint	2 6 - 2	1 - 8	72
Oil	2 7 - 10	1 - 8	

large board for entrance

into	2 8 - 9	0 - 4¾	7
boards	2 5 - 5	1 - 0	10
boards	8 0 - 6	0 - 9	3
large board	4 10 - 7	1 - 0	46
boards	2x 1 3 - 9	6 - 6	49
Do	2x 1 2 - 9	6 - 0	33
ventilators with venetians	3x 3 4 - 9	1 - 9	75
Do with iron bars	2x 2 3 - 6	2 - 4	33
frames with fixed venetians	3x 2 6 - 6	1 - ½	44

square ft 372

squares 372

Rack for 2 Rifles

1½ Lincalft

for accoutrements

4 in lumber

a shelf for Records

1 in lumber

3 Glass Police Station House with tiled roofing Plan No 3 A

Abstract

23

Quantity	Item	Rate	Per	Amount
48 cu yds	Excavation for foundations			
18 "	Earthfilling in basement			
446 bbls	Concrete			
437 "	Brickwork in foundations			
285 "	" " in basement			
1089 "	" " in superstructure			
10 "	Archwork			
23 "	Stonework in steps (if easily procured)			
64 "	Teakwood wrought and put up			
17 sq ft	Iron inner doors			
24 "	Teak batten door with frames and fastenings			
25 "	Ventilators - wooden frames & ventilators with iron bars			
16 1/3 "	Ventilators - wooden frame and iron bars at gable end			
15 "	Frames with fixed ventilators in gables			
5 sq ft	Moulding over exterior opening			
4 sq ft	Stones under verandah posts			
2.05 sq ft	Tiled roofing with pannels over 1" teak planking			
5 "	Tiled roofing with flat and pannels over teak pannels			
2.73 "	Flooring with square tiles			
.86 "	Flooring with jelly 5" thick and painting with tar & asphaltic composition			

10.38 1/2 Plastering interior and washing —
 9.68 " Plastering exterior and washing —
 11.12 " Painting with 3 coats of wood-oil —
 3.72 " Painting with 3 coats of carson's oak color —
 1/2 Lbs. Am. pack for 2 Rifles —
 4 rs Pegs for accoutrements —
 1 " Moveable shelf for records —

Ruppes.

Contingencies at 5 percent —

Total Ruppes.

Consul Arch^{to} Office
 Chepauk 9th July 1880

[Signature]

Consulting Architect to Govt.

In order of the Insp. Genl. of
 Madras 20th July 1880

[Signature]

Genl. Secy. to Govt.
 Madras 20th July 1880

No 1828. 7.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 2nd Aug 80

Read the following:—

Now,

The Cons. Architect
 & Co.

The Government
 approve the adoption
 standard designs for
 2nd and 3rd class
 stations submitted by
 the Consulting Architect
 and direct that adoption
 in supersession of
 previous designs for
 such buildings.
 The designs will be
 photographed and the
 specifications

3-11

27

Plans Dated to
1. 1840
can't find
in Recy. 7-1-41
just left 8-1-41
at 2 1/2 30. or less,
with square
in Recy. 7-1-41
Design in
1840-1841

26-21-15.
 184-55-55
 184-55-55
 184-55-55
 184-55-55

21-1-1980
18/9/80

12-1-95 ✓
9-1-96 ✓
14-5-00 ✓
15-8-13 ✓

469
Cust. 0018801
PUBLIC WORKS.

To,

By,

For,

At,

Encl.

1880, No. 1828

No.

Planned designs
for Police Station

by the adoption
Alternative

submitted

by the Comm. Architect

Superintendent of all

designs for buildings

in the building

of the building

of the building

of the building

of the building

of the building

MADRAS RECORD OFFICE

Government Records.

Public Works Department

G. O. ~~1828~~ Printed

Dated 2-8-1888

No. 1828 W

(with 2 plans)