Archives 1—10,000—6-10-78.

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AMIL NADU ARCHIVES

VERNMENT OF TAMIL NADU

Public Works DEPARTMENT

G.O. No. / ~~B.P. No.~~	2294 IW	Press. / ~~Mis.~~
Dated	6-9-1879	~~197~~ .

be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from R. CHISHOLM, Esq., Consulting Architect to Government, to the Chief Engineer, Public Works Department, Buildings and Roads Branch, dated Chepauk, 30th July 1879, No. 226 :—

I have the honor to forward, herewith, nine drawings, one specification, and estimate of the designs for Sub-Judge's and District Munsif's Court-houses.

G.O., No. 3929 W., dated 9th October 1878.

2. In elaborating the details I found it necessary to make minor alterations in the general plans.

3. I shall feel obliged if you will inform me whether the alternative plans for terraced roofed buildings, forwarded to you with my No. 281, dated the 10th of August last, are to be treated in a similar manner.

—

SPECIFICATION of Work to be performed in constructing a Court-house for a Sub-Judge or District Munsif according to standard design signed by the Consulting Architect, —— July 1879.

ORDINARY LABORER—*Excavating.*—Excavate the trenches to the full depths shown on the drawing or to such depths as the officer in charge of the work may direct.

Slips.—Clear away all slips which may occur during the progress of the work, and, if necessary, shore the sides in a manner to be approved by the officer in immediate charge of the work.

Baling.—In the event of wet foundations, bale the water from an excavation on the exterior of the site of the building. The officer in charge will fix the number of balers to be employed. They will be paid for extra at a daily rate to be agreed on with the petty contractor.

Filling in.—On receiving an order from the officer in charge in writing, fill in the sides of the completed masonry in layers of not greater thickness than 12 inches of material at a time. Well water and ram with approved beaters each layer until the whole is brought up to the level of the ground.

Flooring foundation.—Fill in layers of 6 inches earth or sand to within 4 inches of the floor level, immediately over this and under the floor, ram three inches of broken brick rubbish to form a foundation for the flooring.

Scaffolding.—Erect, maintain, and dismantle (under orders) all necessary scaffolding and centring. The scaffolding will consist of casuarina uprights cross-braced with pieces of palm tree and bamboos strongly bound together by coir rope.

Clearing away on completion.—On completion of the work, clear away all rubbish which may have accumulated during the progress of the work, and all implements, machinery, and materials used during its construction. Remove stains of white-wash or lime from wood-work. Oil and render efficient all door furniture and fastenings, and other moveable fixtures, and deliver the works up in a sound, neat, and workman-like condition.

Stone mason.—Provide and lay on even beds No. 30 stones under the posts of verandahs with clean wrought mortice holes for the posts.

Provide and lay on even beds No. 18 stones under beams. Dress all bed stones two lines generally. Where stone can be dressed and put in the work at reasonable rates, provide and lay a stone curbing to the verandah and along the top of the plinth; also protects angles of the building by quoins and upstarts as shown on the elevation. The capping to the plinth will be splayed.

Provide and lay steps 6 inches thick as shown on the plan. Each stone to be tailed in not less than 3 inches.

Iron-monger.—Provide and fix in the lower openings of the record room No. 2 sets of iron barred gratings, and fix the same into the wooden frame with unreversible screws.

Provide and fix No. 6 sets of iron barred gratings for the property room.

Provide and supply to carpenters all necessary straps, bolts, nails, screws, and whatever other iron work may be necessary for the due and substantial completion of the building.

Provide all requisite door furniture in (specify whether of brass or iron).

BRICKLAYER—*Concrete.*—After the trenches have been opened to the full depths determined by the officer in charge of the work, well water and ram the bottom to receive the concrete. Lay and ram in two layers 12 inches of concrete, composed as follows:—Two parts broken brick (broken to pass through a one and-a-half inch ring), one part gravel, one part sharp river sand, and one part lime.

Footing courses.—Carry up the foundations according to the detailed drawing.

Superstructure.—Build the walls one and-a-half brick thick, splay all angles of doors and windows, leave openings for doors and windows of the sizes and dimensions shown on the drawings, fix all nogs and other minor fastenings for the after reception of the door-frames, &c.

Lay bricks in English bond, alternate courses of headers and stretchers, using king or queen closers only where necessary. Keep courses truly level worked to three-eighth inch mortar joints, horizontal and vertical.

Segmental arches.—Build segmental arches over all openings of rubbed bricks breaking bond, and 12 inches deep on face at crown set flush with face of wall. On the exterior of all arches lay a one and half inch tile projecting two inches as a weather course.

Defects to be made good.—After the roofing and fixtures are completed, make good all defects to the masonry caused by the execution of other works. Plug all putlog holes and remove any bad face bricks marked by the officer in charge of the work, and re-insert sound bricks in their places.

Pointing.—Rake out the exterior joints of all masonry work to the depth of half an inch; well wash the surface and point with flush pointing. The mortar should be toned to harmonize with the color of the brick by the addition of red ochre.

Plasterer.—Plaster the whole of the interior with two coats of plaster. In the record tower, lath and plaster under the joists to form a ceiling for the protection of the wood-work in case of fire. It would be advisable to tint the final coat. The following will be found pleasing. Around the openings on the cornice, &c., toned white composed of:—

60 parts chunam,
½ yellow ochre,

and on all blank surfaces either toned buff or grey, the former composed of—

10 parts chunam,
1 part yellow ochre,

and the latter of—

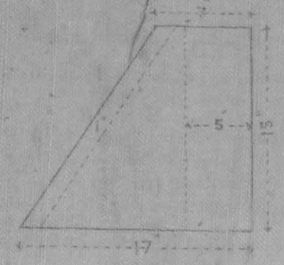
50 parts chunam,
1 part yellow ochre,
¼ „ black.

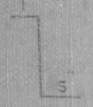
Roofer.—Over one course of flat tiles lay a roof of well-burnt pan tiles protected in the usual way by chunam bands.

Lay zinc or lead valleys.

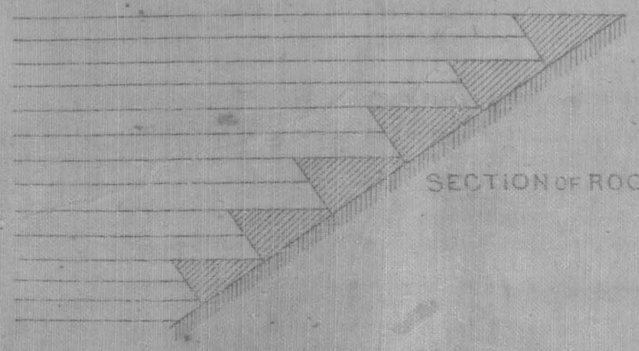
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Where the roof abuts on walls lead flashing should be fastened into the courses in the usual way. The pieces of lead or zinc should be cut in convenient sizes not larger than—





These should be bent up on the lines of the dots. The joints should be raked out to the full depth of one inch and the flashing inserted. Each sheet should lap two inches. When finished the flashing should present this appearance.



Flooring.—After the surface has been brought up to the proper level, lay a course of well burnt six inch square tiles.

Terracing.—Terrace the side verandahs with one course tiles on edge, one course flat tiles over six inches of jelly rammed to four inches plastered on the top. Terrace the floors of the record tower with one course tiles on edge, two courses flat tiles over nine inches of jelly beaten to six inches.

Carpenter.—Frame all the trusses in a sound workman-like manner, and let each truss be weighted to double the permanent strain by loading with pig iron before being placed in position.

Provide frame and fix all the necessary doors, windows, verandah posts, and external carved work in sound, well seasoned timber free from defects.

Provide frame and fit up the necessary benches and drawers in the lost property-room.

Painter.—Paint all doors and windows and exposed wood-work with three coats of Carson's oak color, and the wood-work of the roof with three coats of wood-oil.

Workmanship and materials.—The wood will be teak well seasoned and free from knots or other defects, clean wrought and finished with European tools. All mortices, mitres and joints of every description will be carefully cut and executed in a clean and workman-like manner.

The iron will be that known as Sweedish, clean wrought and welded hot with an approved lap. All bolts will be provided with washes twice the diameter of the nut or head.

The concrete will be composed of one part broken brick, one part sand, one part gravel, and one part lime well mixed and thrown in a semi-fluid state. The bricks will be table-moulded cast from moulds———inches by———inches by ——— inches in size, five per cent. of bats will be allowed. The mortar will be composed of one part shell lime and two parts river sand well pounded and mixed fresh before using.

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

ESTIMATE for constructing a Court-house for a Sub-Judge or District Munsif.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Excavation for Foundations.						
Court walls	...	130 0	4 6	4 6	3,655	
Record-tower walls	...	50 6	4 6	4 6	545	
Spiral	...	11 0	11 0	4 6		
Gumastah's and head clerk's rooms and passage front, rear, and end walls ...	...	132 6	4 3	4 6		
Do. do. partitions ...	2	15 0	4 3	4 6	5,192	
Retiring-room, front, rear, and end walls	...	53 6	4 3	4 6		
Property-room, rear and end walls ...	...	55 6	4 3	4 6		
Verandah walls	...	197 5	3 10	4 6	3,405	
Steps	2	16 0	4 0	2 0	416	
Do.	2	10 0	4 0	2 0		
Cubic feet	...	...	...	...	13,213	
Cubic yards ...	...	...	...	...	...	490
Concrete 12 inches thick.						
Excavation cubic ft. 12,797 ÷ 9 × 2 =	...	...	...	...	2,844	
Steps	2	16 0	4 0	0 6	104	
Do.	2	10 0	4 0	0 6		
Cubic feet ...	...	...	...	...	2,948	
Brickwork in Foundations.						
Footings.						
Court walls	...	130 0	2 6	1 6	684	
Record-tower	...	52 6	2 6	1 6	122	
Spiral	...	9 0	9 0	1 6		
Gumastah's and head clerk's rooms and passage, front, rear, and end walls ...	...	134 6	2 3	1 6		
Partitions	2	17 0	2 3	1 6	950	
Retiring-room, front, rear, and end walls	...	55 6	2 3	1 6		
Property-room, rear and end walls ...	...	57 6	2 3	1 6		
Verandah walls	...	205 10	1 10	1 6	566	
Above footings to ground level—						
Court walls	...	130 0	1 6	2 0	551	
Record-tower	...	53 6	1 6	2 0	128	
Spiral	...	8 0	8 0	2 0		
Gumastah's and head clerk's rooms and passage, front, rear, and end walls ...	...	135 6	1 3	2 0		
Partitions	2	18 0	1 2	2 0	716	
Retiring-room, front, rear, and end walls	...	56 6	1 3	2 0		
Property-room, rear and end walls ...	...	58 6	1 3	2 0		
Extra thickness for plinth	...	141 9	0 3	2 0	71	
Verandah walls	...	208 10	0 10	2 0	348	
Steps	2	16 0	4 0	1 6	312	
Do.	2	10 0	4 0	1 6		
Cubic feet ...	...	...	...	...	4,448	
Brickwork in Basement.						
Court walls	...	130 0	1 6	2 0	551	
Record-tower	...	53 6	1 6	2 0	128	
Spiral	...	8 0	8 0	2 0		
Gumastah's and head clerk's rooms and passage, front, rear, and end walls ...	...	135 6	1 3	2 0		
Do. do. partitions ...	2	18 0	1 3	2 0	570	
Retiring-room, front, rear, and end walls	...	56 6	1 3	2 0		
Property-room, rear and end walls ...	...	58 6	1 3	1 0	73	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Brickwork in Basement—cont.						
Extra thickness for plinth	...	99 3	0 3	2 0	50	
Do. do.	...	42 6	0 3	1 0	11	
Verandah walls	...	208 10	0 10	2 0	348	
Steps	2	16 0	4 0	0 6	64	
Do.	2	14 0	3 0	0 6	42	
Do.	2	12 0	2 0	0 6	24	
Do.	2	10 0	1 0	0 6	10	
Do.	2	10 0	4 0	0 6	40	
Do.	2	8 0	3 0	0 6	24	
Do.	2	6 0	2 0	0 6	12	
Do.	2	4 0	1 0	0 6	4	
Deductions—						1,951
Stone under posts and trusses as per details	...	...	...	...	34	
Stone in steps and capping to plinth	...	...	...	...	248	
						282
Cubic feet ...	...	...	...	...	...	1,669
Brickwork in Superstructure.						
Court walls	...	130 0	1 6	20 0	3,900	
Do. gables	2	23 6	1 6	3 11	276	
Record-tower walls	...	53 6	1 6	32 6	2,608	
Do. gables	2	15 0	1 6	2 6	113	
Spiral octogonal	...	53 0	Area ...	36 6	1,935	
Do. upper portion	...	40 7	Area ...	5 0	203	
Gumastah's and head clerk's rooms and passage, front, rear, and end walls ...	...	135 6	1 3	14 0	2,371	
Do. do. partitions ...	2	18 0	1 3	14 0	630	
Do. gables	3	19 3	1 3	3 2½	232	
Retiring-room, front, rear, and end walls.	...	56 6	1 3	14 0	989	
Do. gables	1	19 3	1 3	3 2½	77	
Property-room, rear and end walls ...	...	58 6	1 3	10 0	731	
Do. gable	1	15 3	1 3	2 6½	48	
Do. step	1	4 0	1 0	0 6	2	
Deductions—						14,115
Doors in court-room	10	4 0	1 6	8 0	480	
Head clerk, gumastah's room, &c., doors	11	4 0	1 3	8 0	440	
Archways in passage	2	7 0	1 3	8 0	140	
Record-tower door	1	2 9	1 6	6 6	27	
Spiral doors	3	2 0	1 0	5 6	33	
Do. semi-circular portion ...	1½	3 1	Area ...	1 0	5	
Windows for head clerk's and retiring-room	4	2 0	1 3	6 6	65	
Do. for record-tower	4	3 0	1 6	4 0	72	
Do. upper do.	4	1 6	1 6	3 6	32	
Do. do. semi-circular portion ...	2	1 9	Area ...	1 6	5	
Do. for property-room	6	2 0	1 3	5 0	75	
Court upper lights	14	2 0	1 6	5 0	210	
Gumastahs' and clerks' room do. ...	8	5 0	1 3	2 1½	106	
Spiral void, six feet diar.	...	28 3	Area ...	36 6	1,031	
Do. upper portion	...	15 10	Area ...	5 0	79	
Segmental archwork as per details ...	...	...	...	...	236	
Semi-circular do. do. ...	...	...	...	...	63	
						3,099
Cubic feet ...	...	...	...	...	...	11,016

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Stone under Posts and Trusses.						
Under posts	30	1 0	1 0	0 5	13	
Under trusses	6	2 0	1 6	0 5	8	
Do.	12	2 0	1 3	0 5	13	
Cubic feet					34	
Stonework (if easily procurable)—						
Steps	2	65 6	1 3	0 6	136	
Do.	2	41 6	1 3	0 6		
Do.	1	4 0	1 3	0 6		
Capping to plinth		322 0	0 10	0 5	112	
Cubic feet					248	
N.B.—Stone quoins not included.						
Segmental Archwork.						
Over court doors	10	5 0	1 6	1 0	75	
Head clerk, gumastah's room, &c., do.	11	5 0	1 3	1 0	69	
Archways in passage	2	9 0	1 3	1 0	23	
Record-tower door	1	3 9	1 6	1 0	6	
Over windows for head clerk's and retiring-room	4	3 0	1 3	1 0	15	
Do. record-tower	4	4 0	0 10	1 0	13	
Do. property-room	2	3 0	1 3	1 0	8	
Court upper lights	6	3 0	1 6	1 0	27	
Cubic feet					236	
Semi-circular Archwork.						
Spiral doors	3	4 9	1 0	1 0	14	
Record-tower, upper windows	4	4 0	0 10	1 0	13	
Do. above do. front	1	14 3	1 6	1 0	21	
Do. do. side	1	10 0	1 6	1 0	15	
Cubic feet					63	
Earthfilling in Basement.						
Court	1	40 0	22 0	1 6	1,320	
Head clerk, gumastah's room, &c.		73 0	18 0	1 6	1,971	
Tower	1	13 6	13 6	1 6	273	
Property-room	1	21 0	14 0	0 6	147	
Verandahs		121 4	8 2	1 6	1,486	
Do.		86 1	7 2	1 6	925	
Cubic feet					6,122	
Cubic yards						227
Teak-wood.						
Court—						
Three trusses 22 feet span. Tie beams	3	25 0	0 6	0 8	25	
Principal rafters.	6	14 6	0 5	0 6	18	
Struts	6	7 0	0 4	0 5	6	
Purlins	2	47 0	0 6	0 7	27	
Purlins over wall	2	47 0	0 4	0 4	10	
Ridge	1	47 0	0 3	0 8	8	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Teak-wood—cont.						
Common rafters	64	16 10½	0 3	0 4	90	
Barge boards	4	17 6	0 2	0 9		
Do.	4	2 0	0 2	0 9	10	
Do.	2	13 6	0 2	0 7	3	
Do.	4	5 3	0 2	1 6	5	
Do. carved pieces	4	2 6	0 1	1 9	1	
Finial	2	7 0	0 4	0 4	2	
Do. upper portion	2	1 3	1 0	1 0	3	
Do. do.	2	1 10½	0 6	0 6	1	
Do. lower ball	2	1 1½	0 8	0 8	1	
Eaves boarding	2	47 0	0 ¾	0 5	2	
Head clerk, gumastah's, &c., rooms—						
Four trusses 18 feet span. Tie beam	4	20 6	0 4	0 6	14	
Principal rafters	8	11 9	0 4	0 5	13	
Struts	8	5 6	0 4	0 4	5	
Purlins	2	84 0	0 5	0 6	35	
Do. over wall	2	84 0	0 4	0 4	19	
Ridge	1	84 0	0 3	0 8	14	
Common rafters	114	14 0	0 3	0 4	133	
Barge boards	4	14 6	0 2	0 9		
Do.	4	2 0	0 2	0 9	8	
Do.	2	10 9	0 2	0 6	2	
Do.	4	4 0	0 2	1 3	3	
Do.	4	1 3	0 2	0 3		
Do.	4	0 10½	0 2	0 3	1	
Finials	2	6 0	0 3½	0 3½	1	
Do. upper portion	2	2 3	0 10½	0 10½	3	
Do. lower do.	2	2 0	0 10	0 10	3	
Eaves boarding	2	81 0	0 ¾	0 5	4	
Property-room—						
Two trusses 14 feet span. Tie beams	2	16 6	0 4	0 5	5	
Principal rafters.	4	9 3	0 4	0 4	4	
Struts	4	4 6	0 3	0 4	2	
Purlins	2	25 0	0 4	0 5	7	
Do. over wall	2	25 0	0 4	0 4	6	
Ridge	1	25 0	0 3	0 7	4	
Common rafters	34	11 8	0 3	0 3	25	
Barge boards	2	12 0	0 2	0 8		
Do.	4	0 4	0 2	0 8	3	
Do.	1	8 0	0 2	0 4	1	
Do.	2	2 0	0 2	0 7½	1	
Do.	1	2 6	0 2	0 3	1	
Eaves boarding		28 0	0 ¾	0 4	1	
Record-tower—						
Joists 2 ×	10	15 6	0 4	0 7	60	
Rafters	28	11 6	0 3	0 5		
Collar pieces	10	7 6	0 3	0 5	41	
Ridge	1	19 6	0 3	0 7	3	
Wall plates	2	19 6	0 3	0 3	2	
Barge boards	4	12 3	0 2	0 7		
Do.	4	1 2	0 2	0 7	5	
Do.	4	4 0	0 2	2 1¼	6	
Finials	2	4 0	0 4	0 4	1	
Do. upper portion	2	3 1½	0 9	0 9	4	
Do. lower do.	2	1 1½	0 7½	0 7½	1	
Eaves boards	2	19 6	0 ¾	0 5	1	
Verandahs—						
Posts	4	10 3	0 5	0 5		
Do.	14	7 10	0 5	0 5	44	
Do.	12	8 6	0 5	0 5		

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Teak-wood—cont.						
Verandahs—*cont.*						
Bases to posts	30	0 7	0 7	0 6	5	
Breastsummers	...	206 0	0 5	0 5	36	
Struts	47	2 9	0 3½	0 3½	11	
Cleats	51	0 9	0 3	0 3½	3	
Knobs	51	0 5	0 5	0 10½	7	
Plank ... ... ½ ×	47	2 0	1 6	0 1	6	
Rafters	47	11 3	0 3	0 4	91	
Small rafters	88	6 5	0 3	0 4		
		Average length.				
Hip rafters	8	14 0	0 4	0 5	16	
Ridge over entrances	2	11 0	0 3	0 5	2	
Wall plates	...	96 0	0 3½	0 5		
Pieces to secure rafters to breastsummers	132	1 3	0 3	0 1½	5	
Do. do. uprights ...	66	0 10	0 3	0 3	3	
Joists	62	9 6	0 3	0 4	53	
Do.	7	6 0	0 3	0 4		
Eaves boarding for joists	2	32 0	0 2	0 4	4	
Do. for rafters	...	107 0	0 [illegible]	0 5	3	
Barge board for entrances	4	10 0	0 1½	0 7	3	
Do.	2	4 0	0 2	2 0	3	
Do. collar pieces	2	8 6	0 3	0 4	1	
Do. strut	4	6 0	0 3	1 6	9	
Turret—						
Cill	8	2 6	0 11	1 0	18	
Uprights	8	0 8	0 9	4 6	18	
Breastsummers	8	2 3	0 8	0 6	6	
Do. above	8	3 3	1 6	1 0	39	
Brackets	16	0 8	0 6	0 9	4	
Venetians	40	1 3	0 1	1 6	6	
Do.	32	0 4	0 [illegible]	1 3	1	
Bay windows—						
Brackets	8	3 0	0 3	0 7	4	
Knobs	8	0 7½	0 4	0 4	1	
Joists	8	3 0	0 3	0 3	4	
Longitudinal pieces	4	8 0	0 3	0 3		
Uprights	8	0 8	0 3	7 3	6	
Do.	4	0 3	0 3	8 9		
Breastsummers	4	3 0	0 3	0 3	3	
Do.	2	8 0	0 3	0 3		
Do.	4	2 0	0 3	0 3		
Do.	2	8 0	0 3	0 3		
Brackets	20	0 8	0 3	1 3	3	
Rail	2	8 0	0 3	0 3	2	
Do.	8	2 0	0 3	0 3		
Battens for panel	...	100 0	0 1	0 2	1	
Frame	4	4 0	0 1½	0 2½	2	
Do.	12	1 6	0 1½	0 2½		
Do.	20	1 10½	0 1½	0 2½		
Rafters	6	4 0	0 2	0 2	1	
Hip rafters	4	5 0	0 2	0 2½	1	
Small rafters	8	2 6	0 2	0 2	1	
Planking floor	2	8 0	2 0	0 1	3	
Do. for roof	28	10 6	0 [illegible]	0 6	6	
Roll cap	4	4 6	0 2	0 2½	1	
Cubic feet ...	...	...	...	...	1,103	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Venetian and Panel Doors with Frames.	21	4 0	...	8 0	672	sq. ft.
Batten Door to Record-room with Frames.	1	2 9	...	6 6	18	sq. ft.
Venetian Windows with Frames.						
Head clerk's and retiring rooms ...	4	2 0	...	6 6	52	sq. ft.
Windows with Iron Bars and Glazed Shutters including Frames.						
Record-room lower windows	2	3 0	...	4 0	24	
Property-room windows	6	2 0	...	5 0	60	
					84	sq. ft.
Windows with Frames and Glazed Shutters.						
Record-room, upper windows	2	3 0	...	4 0	24	
Do. do.	4	1 6	...	4 3	26	
					50	sq. ft.
Upper Lights with Glazed Shutters and Frames.						
Court	14	2 0	...	5 0	140	
Head clerk, gumastah's room, &c. ...	8	5 0	...	2 1½	85	
					225	sq. ft.
Wrought-iron Work in Trusses, &c.						
1¼" diameter king rods for 22 ft. trusses.	3	9 9	29 3	×4·09	119·63	
1¼" hex. nuts and bolt heads for do.	9	...	...	×2·14	19·26	
3" × 3" × ⅛" washers for do.	9	...	...	×0·32	2·88	
1½" × ⅜" straps for do.	6	3 0	18 0	×1·87	33·66	
1½" × ½" bearing plates do.	6	0 7½	3 10½	×2·50	9·63	
⅝" hex. nuts for do.	12	...	...	× ·267	32·04	
1" diar. king rods for 18 feet do.	4	8 0	32 0	×2·62	83·84	
1" hex. nuts and bolt heads for do.	12	...	...	×1·10	13·20	
3" × 3" × ¼ washers for do.	12	...	...	×0·32	3·84	
1½" × ⅜" straps for do.	8	2 7	20 8	×1·87	38·64	
1½" × ½" bearing plates for do.	8	0 6½	4 6	×2·50	11·25	
⅝" hex. nuts for do.	16	...	...	× ·267	4·27	
⅝" diar. king rods for 14 feet do.	2	6 3	12 6	×2·01	25·12	
⅝" hex. nuts and bolt heads for do.	6	...	...	× ·73	4·38	
3" × 3" × ½" washers for do.	6	...	...	×0·32	1·92	
1½" × ⅜" straps for do.	4	2 3	9 0	×1·87	16·83	
1½" × ½" bearing plates for do.	4	0 6½	2 3	×2·50	5·62	
⅝" hex. nuts for do.	8	...	...	× ·267	2·13	
¾" bolts for verandah wall plates ...	22	2 0	44 0	×1·47	64·68	
¾" hex. nuts and bolt heads for do. ...	44	...	...	× ·43	18·92	
1" bolts for securing bay window uprights to wall.	4	1 6	6 0	×2·62	15·72	
1" hex. nuts and bolt heads for do.	16	...	...	×1·10	17·60	
¼" bolts to secure verandah rafters to breastsummers.	132	0 6	66 0	× ·164	10·82	
¼" hex. nut and bolt head	264	...	...	× ·017	4·48	
lb. ...	...	...	...	...	560·41	
Say, lb. ...	...	...	...	...	...	561

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Flooring with Square Pavement Tiles.						
Court	...	40 0	...	22 0	880	
Head clerk's, gumastah's room, &c.	...	73 0	...	18 0	1,314	
Property-room	...	21 0	...	14 0	294	
Record do.	...	13 6	...	13 6	182	
Verandahs	...	101 6	...	9 0	914	
Do.	...	29 6	...	8 9	258	
Do.	...	78 9	...	8 0	630	
Door pieces	10	4 0	...	1 6	60	
Do.	11	4 0	...	1 3	55	
Do.	1	2 9	...	1 6	4	
Do.	1	2 0	...	1 0	2	
Archway	2	7 0	...	1 3	18	
						4,611
Deduct spiral	...	53 0	Area ...	...	...	53
						4,558
Square feet	...	...	...	...	...	
						45·58
Squares	...	...	...	...	...	
Tiling with Flat and Pan Tiles including Reepers, Nails and Chunam Bands complete.						
Court	...	46 6	...	34 6	1,604	
Head clerk's, gumastah's room, &c.	...	81 0	...	29 0	2,349	
Property-room	...	23 9	...	24 0	570	
Record-tower	...	19 6	...	24 0	468	
Verandahs	...	123 3	...	11 6	1,417	
						6,408
Square feet	...	...	...	...	...	
						64
Squares	...	...	...	...	...	
Terracing.						
Verandahs	...	89 6	...	9 0	806	
Record-tower	2	14 0	...	14 0	392	
						1,198
Square feet	...	...	...	...	...	
						12
Squares	...	...	...	...	...	
Terracing Roof of Turret	...	12 0	...	9 6	114	sq. ft.
						1·14
Squares	...	...	...	...	...	
Plastering Interior.						
Court	...	124 0	...	20 0	2,480	
Do. gables	2	23 6	...	3 11	184	
Head clerk's, gumastah's room, &c.	...	290 0	...	14 0	4,060	
Do. do. gables	8	19 3	...	3 2½	494	
Property-room	...	70 0	...	10 0	700	
Do. gables	2	15 3	...	2 6½	78	
Record-tower	...	54 0	...	31 0	1,674	
Gables	2	15 0	...	2 6	75	
Spiral	...	18 10	...	41 6	782	
Door jambs	10	20 0	...	1 6	300	
Do.	11	20 0	...	1 3	275	
Do.	1	15 9	...	1 6	24	
Do.	3	14 0	...	1 0	42	
Window jambs	4	17 0	...	1 3	85	
Do.	2	14 0	...	1 6	42	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Plastering Interior—cont.						
Window jambs	2	14 0	...	0 10	23	
Do.	4	11 0	...	0 10	37	
Do.	4	12 0	...	1 3	60	
Do.	2	14 0	...	1 3	35	
Upper lights jambs	6	14 0	...	1 6	126	
Do. do.	8	12 0	...	1 6	144	
Do. do.	8	9 3	...	1 3	153	
Archways do.	2	24 0	...	1 3		
						11,873
Deductions—						
Doors	26	4 0	...	8 0	832	
Do.	1	2 9	...	6 6	18	
Do.	6	2 0	...	5 6	66	
Do.	3	3 1	Area ...	...	9	
Windows	4	2 0	...	6 6	52	
Do.	4	3 0	...	4 0	48	
Do.	4	1 6	...	3 6	21	
Do.	2	1 9	Area ...	...	4	
Do.	6	2 0	...	5 0	60	
Upper lights	14	2 0	...	5 0	140	
Do.	8	5 0	...	2 1½	85	
Archways in passage	2	7 0	...	8 0	112	
						1,447
Square feet	...	...	...	...	...	
						104·26
Squares	...	...	...	...	...	
Pointing Exterior.						
Court	...	95 0	...	20 0	1,900	
Do. sides of end gables	4	7 0	...	2 6	70	
Gables	2	25 0	...	4 2	208	
Head clerk's, gumastah's room, &c.	...	180 6	...	14 0	2,527	
Do. gables	2	20 6	...	3 5	140	
Do. sides of gable	2	6 0	...	3 0	36	
Property-room	1	61 0	...	10 0	610	
Gable	1	16 6	...	2 9	45	
Record-tower	...	58 0	...	32 0	1,856	
Do. gable	2	16 6	...	2 9	91	
Turret	...	19 10	...	35 0	694	
Do. upper portion	...	26 6	...	2 0	53	
Do. do.	...	24 0	...	4 6	108	
Basement all round	...	308 0	...	2 0	616	
Do. for property-room	...	43 0	...	1 0	43	
						8,997
Deductions—						
Doors	16	4 0	...	8 0	512	
Do.	1	2 9	...	6 6	18	
Windows	4	2 0	...	6 6	52	
Do.	4	3 0	...	4 0	48	
Do.	4	1 6	...	3 6	21	
Do.	2	1 9	Area ...	...	4	
Do.	6	2 0	...	5 0	60	
Upper lights	14	2 0	...	5 0	140	
Do.	8	5 0	...	2 1½	85	
Archways in passage	2	7 0	...	8 0	112	
						1,052
Square feet	...	...	...	...	...	
						7,945
Squares	...	...	...	...	...	
						79·45

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Lath and Plaster.						
Record-tower below joists	2	13 6	...	13 6	365	
Do. couples	1	13 6	...	14 9	199	
Square feet ...	...	...	...	...	564	
Squares ...	...	...	...	...	...	5·64
Painting Doors and Windows and exposed Wood-work of Roof, &c., with 3 Coats of Carson's Oak Color.						
Venetian and panel doors ... 3 ×	21	4 0	...	8 0	2,016	
Batten door ... ... 2 ×	1	2 9	...	6 6	36	
Venetian windows ... ... 3 ×	4	2 0	...	6 6	156	
Windows with iron bars and glazed shutters ... ... 3 ×	2	3 0	...	4 0	72	
Do. do. ... ... 3 ×	6	2 0	...	5 0	180	
Windows with glazed shutters... 2 ×	2	3 0	...	4 0	48	
Do. do. ... 2 ×	4	1 6	...	4 3	51	
Upper lights ... ... 2 ×	14	2 0	...	5 0	280	
Do. ... ... 2 ×	8	5 0	...	2 11½	170	
Barge boards	4	17 6	...	1 0	70	
Do.	4	2 0	...	0 9	6	
Do.	2	13 6	...	1 6	72	
Do.	4	5 3	...	1 6		
Do.	4	2 6	...	1 9	18	
Finials	2	1 6	...	10 6	32	
Eaves boarding	2	47 0	...	0 6	47	
Barge boards	4	14 6	...	1 0	58	
Do.	4	2 0	...	0 9	6	
Do.	2	10 9	...	1 4	29	
Do.	4	4 0	...	1 3	20	
Do.	4	1 3	...	0 7	5	
Do.	4	0 10½	...	0 7		
Finials	2	1 4	...	9 6	25	
Eaves boarding	2	81 0	...	0 6	81	
Barge boards	2	12 0	...	0 10	20	
Do.	8	0 8	...	0 4	2	
Do.	1	8 0	...	0 8	5	
Do.	2	2 6	...	0 7	4	
Do.	1	2 6	...	0 7		
Eaves boarding	1	28 0	...	0 5	12	
Barge boards	4	14 3	...	0 9	37	
Do.	4	1 2	...	0 7	3	
Do.	4	4 0	...	2 0	32	
Finials	2	1 6	...	8 0	24	
Eaves boarding	2	19 6	...	0 6	20	
Posts	4	10 1	...	1 8		
Do.	14	7 8	...	1 8	413	
Do.	12	8 4	...	1 8		
Bases to do.	30	2 4	...	0 6	35	
Breastsummers	...	206 0	...	1 3	258	
Struts	47	2 9	...	1 2	151	
Cleats	51	0 9½	...	0 9	30	
Knobs	51	1 8	...	0 6	43	
Planks	47	2 0	...	1 6	141	
Pieces to secure rafters	132	1 3	...	0 6	83	
Do. uprights	66	0 10	...	0 9	41	
Eaves boarding	2	32 0	...	0 6	32	
Do.	...	107 0	...	0 6	54	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Painting Doors and Windows and exposed Wood-work of Roof, &c., with 3 Coats of Carson's Oak Color—cont.						
Barge board	4	10 0	...	0 8½	28	
Do.	2	4 0	...	2 0	16	
Do.	2	8 6	...	1 2	20	
Struts	4	6 0	...	1 6	36	
Turret sill	...	18 0	...	2 6	45	
Uprights	8	4 4	...	2 4	81	
Breastsummers	...	18 0	...	1 4	24	
Do. above	...	24 0	...	1 9	42	
Brackets	16	0 9	...	0 8	96	
Venetians	40	1 3	...	3 0	150	
Do.	32	1 3	...	0 7	23	
Brackets	8	3 0	...	1 3	30	
Knobs	8	0 6	...	1 3	5	
Joists	8	2 0	...	0 9	12	
Longitudinal pieces	4	8 0	...	0 9	24	
Uprights	8	1 0	...	7 3	58	
Do.	4	0 9	...	8 9	26	
Breastsummers	4	2 0	...	0 9	6	
Do.	2	8 0	...	0 9	12	
Do.	4	2 0	...	1 0	8	
Do.	2	8 0	...	1 0	16	
Brackets	20	0 8	...	1 3	17	
Rail	2	8 0	...	0 8		
Do.	8	2 0	...	0 8	21	
Panels ... ... 2 ×	2	3 9	...	1 6		
Do. ... ... 2 ×	8	1 6	...	1 6	59	
Roof ... ... 2 ×	2	10 9	...	8 0	344	
Square feet ...	...	...	...	...	6,117	
Squares ...	...	...	...	...	...	61·17
Painting Wood-work of Roof with 3 Coats of Wood-oil.						
Tie beams	3	25 0	...	2 4	175	
Principal rafters	8	14 6	...	1 10	160	
Struts	6	7 0	...	1 6	63	
Purlins	2	46 0	...	1 8	153	
Do	2	46 0	...	1 0	92	
Ridge	1	46 0	...	1 7	73	
Common rafters	64	16 10½	...	0 11	990	
Tie beams	4	20 6	...	1 8	137	
Principal rafters	8	11 9	...	1 2	110	
Struts	8	5 6	...	1 4	59	
Purlins	2	81 0	...	1 5	230	
Do.	2	81 0	...	1 0	162	
Ridge	1	81 0	...	1 7	128	
Common rafters	114	14 0	...	0 11	1,463	
Tie beams	2	16 6	...	1 6	50	
Principal rafters	4	9 8	...	1 0	37	
Struts	4	4 6	...	1 2	21	
Purlins	2	23 3	...	1 2	55	
Do.	2	23 9	...	1 0	48	
Ridge	1	23 9	...	1 5	34	
Common rafters	34	11 8	...	0 9	298	
Joists	20	13 6	...	1 6	405	
Rafters	28	11 6	...	1 1	349	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Painting Wood-work of Roof with 3 Coats of Wood-oil—cont.						
Collar pieces	10	8 6	...	1 4	113	
Ridge	1	19 6	...	1 5	28	
Verandah rafters	47	11 3	...	0 11	1,002	
Small do.	88	6 5	...	0 11	131	
Hip do.	8	14 0	...	1 2	24	
Ridge	2	11 0	...	1 1	96	
Wall-plate	..	96 0	...	1 0	96	
Verandah joists	62	9 6	...	0 11	578	
Do. do.	7	6 0	...	0 11		
Square feet		...	...	...	7,264	
Squares		...	...	...	...	72·64
Laying Zinc Sheets to the Valleys flashing.						
Verandah over entrance	4	14 0	...	...	56	
Do. near spiral	1	10 0	...	...	10	
Over property-room	1	11 0	...	...	11	
Do. record-tower	1	8 0	...	...	8	
Flashing over sloped verandah ...	.	95 0	...	...	95	
Lineal feet		...	...	...	180	
Exterior Ornamental Mouldings for record-tower.		...	...	..	48	L. feet.
Exterior Mouldings for Turret		...	...	...	30	L. feet.
Mouldings over Windows and Upper Lights.						
Property-room, gable windows ...		...	...	...	6	
Tower windows		...	...	...	16	
Do. upper		...	...	...	44	
Court upper lights		...	...	...	18	
Lineal feet		...	...	...	84	
Interior Dental Cornic.						
Court		...	...	...	124	
Head clerk's room		...	...	...	68	
Gumastah's room		...	...	...	96	
Passage		...	...	...	54	
Retiring-room		...	...	...	72	
Lineal feet		...	...	...	414	
Interior Plain Cornice		...	...	...	414	
Circular Ornaments in court gables		6 in number.				
Spiral stairs		...	...	...	28	Steps.
Stone finial for turret		1 in number.				

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ABSTRACT.

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
490 c. yds.	Excavation for foundation ...			
2,948 c. feet.	Concrete			
4,448 „	Brickwork in foundations ...			
1,669 „	Do. in basement			
11,016 „	Do. in superstructure ...			
34 „	Stonework under posts and trusses.			
2·8 „	Do. in steps, &c., if easily procurable.			
236 „	Segmental archwork			
63 „	Semi-circular do.			
237 c. yds.	Earth-filling in basement ...			
1,103 c. feet.	Teak-wood wrought and put up ...			
672 sq. feet.	Venetian and panel doors with frames complete.			
18 „	Batten doors with frames complete.			
52 „	Venetian windows with frames			
84 „	Windows with iron bars and glazed shutters including frames.			
50 „	Windows with frames and glazed shutters			
225 „	Upper lights with frames and glazed shutters.			
561 lb.	Wrought iron in trusses, &c. ...			
45·58 sqrs.	Flooring with 6″ square pavement tiles.			
64 „	Tiling with flat and pan tiles, teak reepers and chunam bands ...			
12 „	Terracing			
1·14 „	Do. roof of turret			
104·26 „	Plastering interior walls			
79·45 „	Pointing exterior walls			
5·64 „	Lath and plaster			
61·17 „	Painting doors and windows, &c., with three coats of Carson's oak color.			
72·64 „	Painting wood-work of roof with three coats of wood-oil.			
180 l. feet.	Laying zinc sheets to the valleys of roof and flashing.			
48 „	Exterior ornamental mouldings for record-tower.			
30 „	Exterior ornamental mouldings for turret.			
84 „	Exterior ornamental mouldings over windows and upper lights.			
414 „	Interior dental cornice.			
414 „	Do. plain do.			
6 No.	Circular ornaments over lights in court gables.			
28 steps.	Spiral stairs			
	Allow extra for finishing turret ...			
1 No.	Stone finial for do. ...			
2 „	Allow extra for finishing court gables.			
2 „	Allow extra for finishing record-tower gables.			
2 „	Allow extra for finishing end gables.			

Abstract—*cont.*

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
1 No.	Allow extra for finishing property-room gables.			
2 „	Allow extra for finishing court verandah gables.			
47 „	Allow extra for finishing brackets for verandah posts.			
2 „	Allow extra for finishing bay windows.			
	Fittings for property-room ...			
	Contingencies at 5 per cent. ...			
	Total ...			

CHEPAUK,
30th July 1879.

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

ORDER—dated 6th September 1879, No. 2294 W., Public Works.

The papers now submitted by the Consulting Architect comprise nine drawings, one specification and detail and abstract estimates for Sub-Judges' and District Munsifs' Court-houses for which standard designs were sanctioned in G.O., No. 3929 W., dated 9th October 1878.

2. The papers will be printed and circulated for the information of the department.

3. The Consulting Architect will be informed that the alternative plans for terrace-roofed buildings should be treated in a similar manner.

(True Extract.)

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

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

Exd. E. Fernandez.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of [1879] Madras.

PUBLIC WORKS.

Dated September, 6th.

Read. *Encl.*

G.O., 6th Sept. 1879, No. 2294 W.

SEPTEMBER.

Sub-Judges' and District Munsifs' Court-houses

The plans, specification, and estimate forwarded by the Consulting Architect for — to be printed and circulated for the information of the department.

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10

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

6th September 1879, No. 2,294 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 31. From R. CHISHOLM, Esq., Consulting Architect to Government, to the Chief Engineer, Public Works Department, Buildings and Roads Branch, dated Chepauk, 30th July 1879, No. 226.

I HAVE the honor to forward herewith nine drawings, one specification and estimate of the designs for Sub-Judge's and District Munsif's Court-houses.

G.O., No. 3,929 W, dated 9th October 1878.

2. In elaborating the details I found it necessary to make minor alterations in the general plans.

3. I shall feel obliged if you will inform me whether the alternative plans for terraced roofed buildings, forwarded to you with my No. 281, dated the 10th of August last, are to be treated in a similar manner.

SPECIFICATION of Work to be performed in constructing a Court-house for a Sub-Judge or District Munsif according to standard design signed by the Consulting Architect, —— July 1879.

ORDINARY LABORER.—*Excavating.*—Excavate the trenches to the full depths shown on the drawing or to such depths as the officer in charge of the work may direct.

Slips.—Clear away all slips which may occur during the progress of the work, and, if necessary, shore the sides in a manner to be approved by the officer in immediate charge of the work.

Baling.—In the event of wet foundations, bale the water from an excavation on the exterior of the site of the building. The officer in charge will fix the number of balers to be employed. They will be paid for extra at a daily rate to be agreed on with the petty contractor.

Filling in.—On receiving an order from the officer in charge in writing, fill in the sides of the completed masonry in layers of not greater thickness than 12 inches of material at a time. Well water and ram with approved beaters each layer until the whole is brought up to the level of the ground.

Flooring foundation.—Fill in layers of 6 inches, earth or sand to within 4 inches of the floor level, immediately over this and under the floor, ram three inches of broken brick rubbish to form a foundation for the flooring.

Scaffolding.—Erect, maintain, and dismantle (under orders) all necessary scaffolding and centring. The scaffolding will consist of casuarina uprights cross-braced with pieces of palm tree and bamboos strongly bound together by coir rope.

Clearing away on Completion.—On completion of the work, clear away all rubbish which may have accumulated during the progress of the work, and all implements, machinery, and materials used during its construction. Remove stains of white-wash or lime from wood-work. Oil and render efficient all door furniture and fastenings, and other moveable fixtures, and deliver the works up in a sound, neat and workman-like condition.

Stone Mason.—Provide and lay on even beds No. 30 stones under the posts of verandahs with clean wrought mortice holes for the posts.

Provide and lay on even beds No. 18 stones under beams. Dress all bed stones two lines generally. Where stone can be dressed and put in the work at reasonable rates, provide and lay a stone curbing to the verandah and along the top of the plinth; also protect angles of the building by quoins and upstarts as shown on the elevation. The capping to the plinth will be splayed.

Provide and lay steps 6 inches thick as shown on the plan. Each stone to be tailed in not less than 3 inches.

Iron-monger.—Provide and fix in the lower openings of the record room No. 2 sets of iron barred gratings, and fix the same into the wooden frame with unreversible screws.

Provide and fix No. 6 sets of iron barred gratings for the property room.

Provide and supply to carpenters all necessary straps, bolts, nails, screws and whatever other iron work may be necessary for the due and substantial completion of the building.

Provide all requisite door furniture in (specify whether of brass or iron).

BRICKLAYER—*Concrete.*—After the trenches have been opened to the full depths determined by the officer in charge of the work, well water and ram the bottom to receive the concrete. Lay and ram in two layers 12 inches of concrete, composed as follows. Two parts broken brick (broken to pass through a one-and-a-half inch ring) one part gravel, one part sharp river sand, and one part lime.

Footing courses.—Carry up the foundations according to the detailed drawing.

Superstructure.—Build the walls one-and-a-half brick thick, splay all angles of doors and windows, leave openings for doors and windows of the sizes and dimensions shown on the drawings, fix all nogs and other minor fastenings for the after reception of the door-frames, &c.

Lay bricks in English bond, alternate courses of headers and stretchers, using king or queen closers only where necessary. Keep courses truly level worked to three-eighth inch mortar joints, horizontal and vertical.

Segmental arches.—Build segmental arches over all openings of rubbed bricks breaking bond, and 12 inches deep on face at crown set flush with face of wall. On the exterior of all arches lay a one-and-a-half inch tile projecting two inches as a weather course.

Defects to be made good.—After the roofing and fixtures are completed, make good all defects to the masonry caused by the execution of other works. Plug all putlog holes and remove any bad face bricks marked by the officer in charge of the work, and re-insert sound bricks in their places.

Pointing.—Rake out the exterior joints of all masonry work to the depth of half an inch; well wash the surface and point with flush pointing. The mortar should be toned to harmonize with the color of the brick by the addition of red ochre.

Plasterer.—Plaster the whole of the interior with two coats of plaster. In the record tower, lath and plaster under the joists to form a ceiling for the protection of the wood-work in case of fire. It would be advisable to tint the final coat. The following will be found pleasing. Around the openings on the cornice, &c., toned white composed of:—

60 parts chunam,
½ yellow ochre,

and on all blank surfaces either toned buff or grey, the former composed of—

10 parts chunam,
1 part yellow ochre,

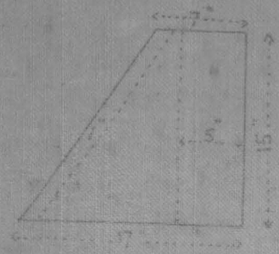
and the latter of—

50 parts chunam,
1 part yellow ochre,
¼ „ black.

Roofer.—Over one course of flat tiles lay a roof of well-burnt pan tiles protected in the usual way by chunam bands.

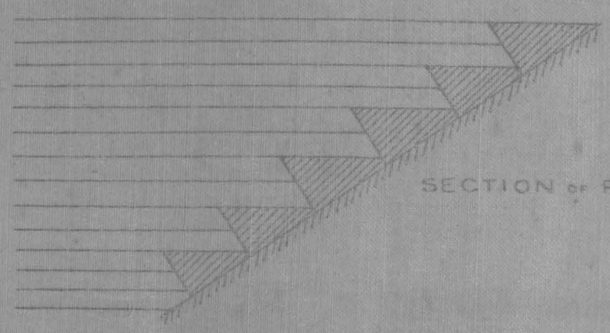
Lay zinc or lead valleys.

Where the roof abuts on walls lead flashing should be fastened into the courses in the usual way. The pieces of lead or zinc should be cut in convenient sizes not larger than—



These should be bent up  on the lines of the dots. The joints should be

raked out to the full depth of one inch and the flashing inserted. Each sheet should lap two inches. When finished the flashing should present this appearance.



Flooring.—After the surface has been brought up to the proper level, lay a course of well burnt six inch square tiles.

Terracing.—Terrace the side verandahs with one course tiles on edge, one course flat tiles over six inches of jelly rammed to four inches plastered on the top. Terrace the floors of the record tower with one course tiles on edge, two courses flat tiles over nine inches of jelly beaten to six inches.

Carpenter.—Frame all the trusses in a sound workman-like manner, and let each truss be weighted to double the permanent strain by loading with pig iron before being placed in position.

Provide frame and fix all the necessary doors, windows, verandah posts and external carved work in sound, well seasoned timber free from defects.

Provide frame and fit up the necessary benches and drawers in the lost property room.

Painter.—Paint all doors and windows and exposed wood-work with three coats of Carson's oak color, and the wood-work of the roof with three coats of wood-oil.

Workmanship and Materials.—The wood will be teak well seasoned and free from knots or other defects, clean wrought and finished with European tools. All mortices, mitres and joints of every description will be carefully cut and executed in a clean and workman-like manner.

The iron will be that known as Sweedish, clean wrought and welded hot with an approved lap. All bolts will be provided with washers twice the diameter of the nut or head.

The concrete will be composed of one part broken brick, one part sand, one part gravel, and one part lime well mixed and thrown in a semi-fluid state. The bricks will be table-moulded cast from moulds _____ inches by _____ inches by _____ inches in size, five per cent. of bats will be allowed. The mortar will be composed of one part shell lime and two parts river sand well pounded and mixed fresh before using.

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

ESTIMATE for constructing a Court-house for a Sub-Judge or District Munsif.

Detailed Quantities.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Excavation for foundations.						
Court walls	...	130 0	4 6	4 6	3,655	
Record tower walls	...	50 6	4 6	4 6	545	
Spiral	...	11 0	11 0	4 6		
Gumastah's and head clerk's room and passage front, rear and end walls ...	...	132 6	4 3	4 6		
Do. partitions	2	15 0	4 3	4 6	5,192	
Retiring room, front, rear and end walls	...	53 6	4 3	4 6		
Property room, rear and end walls ...	...	55 6	4 3	4 6		
Verandah walls	...	197 5	3 10	4 6	3,405	
Steps	2	16 0	4 0	2 0	416	
Do.	2	10 0	4 0	2 0		
					13,213	
Cubic feet ...	...	...	...	...	...	490
Cubic yards ...	...	...	...	...	...	
Concrete 12 inches thick.					2,844	
Excavation cubic ft. 12,797 ÷ 9 × 2 =	...	...	...	...		
Steps	2	16 0	4 0	0 6	104	
Do.	2	10 0	4 0	0 6		
					2,948	
Cubic feet ...	...	...	...	...	...	
Brickwork in foundations.						
Footings.						
Court walls	...	130 0	2 6	1 6	684	
Record tower	...	53 6	2 6	1 6	122	
Spiral	...	9 0	9 0	1 6		
Gumastah's and head clerk's rooms and passage, front, rear and end walls ...	...	134 6	2 3	1 6		
Partitions	2	17 0	2 3	1 6	950	
Retiring room, front, rear and end walls	...	55 6	2 3	1 6		
Property room, rear and walls ...	...	57 6	2 3	1 6	566	
Verandah walls	...	205 10	1 10	1 6		
Above footings to ground level—						
Court walls	...	130 0	1 6	2 0	501	
Record tower	...	53 6	1 6	2 0	128	
Spiral	...	8 0	8 0	2 0		
Gumastah's and head clerk's rooms and passage, front, rear and end walls ...	...	135 6	1 3	2 0		
Partitions	2	18 0	1 3	2 0	716	
Retiring room, front, rear and end walls	...	56 6	1 3	2 0		
Property room, rear and end walls ...	...	58 6	1 3	2 0	71	
Extra thickness for plinth	...	141 9	0 3	2 0	348	
Verandah walls	...	208 10	0 10	2 0		
Steps, ...	2	16 0	4 0	1 6	312	
Do.	2	10 0	4 0	1 6		
					4,448	
Cubic feet ...	...	...	...	...	...	
Brickwork in basement.						
Court walls	...	130 0	1 6	2 0	501	
Record tower	...	53 6	1 6	2 0	128	
Spiral	...	8 0	8 0	2 0		
Gumastah's and head clerk's rooms and passage, front, rear and end walls ...	...	135 6	1 3	2 0		
Do. do. partitions ...	2	18 0	1 3	2 0	570	
Retiring room, front, rear and end walls	...	56 6	1 3	2 0		
Property room, rear and end walls ...	...	58 6	1 3	1 0	73	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
Brickwork in basement—cont.		FT. IN.	FT. IN.	FT. IN.		
Extra thickness for plinth		99 3	0 3	2 0	50	
Do. do.		42 6	0 3	1 0	11	
Verandah walls		208 10	0 10	2 0	348	
Steps	2	16 0	4 0	0 6	64	
Do.	2	14 0	3 0	0 6	42	
Do.	2	12 0	2 0	0 6	24	
Do.	2	10 0	1 0	0 6	10	
Do.	2	10 0	4 0	0 6	40	
Do.	2	8 0	3 0	0 6	24	
Do.	2	6 0	2 0	0 6	12	
Do.	2	4 0	1 0	0 6	4	
						1,951
Deductions—						
Stone under posts and trusses as per details	...	...	...	...	34	
Stone in steps and capping to plinth ...	...	...	...	...	248	
						282
Cubic feet ...	...	...	...	...	...	1,669
Brickwork in superstructure.						
Court walls	...	130 0	1 6	20 0	3,900	
Do. gables	2	23 6	1 6	3 11	276	
Record tower walls	...	53 6	1 6	32 6	2,608	
Do. gables	2	15 0	1 6	3 6	113	
Spiral octagonal	...	53 0	Area ...	36 6	1,935	
Do. upper portion	...	40 7	Area ...	5 0	203	
Gumastah's and head clerk's rooms and passage, front, rear and end walls ...	...	135 6	1 3	14 0	2,371	
Do. do. do. partitions ...	2	18 0	1 3	14 0	630	
Do. gables	3	19 3	1 3	3 2½	232	
Retiring room, front, rear and end walls	...	56 6	1 3	14 0	989	
Do. gables	1	19 3	1 3	3 2½	77	
Property room, rear and end walls ...	...	58 6	1 3	10 0	731	
Do. gable	1	15 3	1 3	2 6½	48	
Do. step	1	4 0	1 0	0 6	2	
						14,115
Deductions—						
Doors in court room	10	4 0	1 6	8 0	480	
Head clerk, gumastah's room, &c., doors	11	4 0	1 3	8 0	440	
Archways in passage	2	7 0	1 3	8 0	140	
Record tower door	1	2 9	1 6	6 6	27	
Spiral doors	3	2 0	1 0	5 6	33	
Do. semi-circular portion	1½	3 1	Area ...	1 0	5	
Windows for head clerks and retiring room	4	2 0	1 3	6 6	65	
Do. for record tower	4	3 0	1 6	4 0	72	
Do. upper do.	4	1 6	1 6	3 6	32	
Do. do. semi-circular portion ...	2	1 9	Area ...	1 6	5	
Do. for property room	6	2 0	1 3	5 0	75	
Court upper lights	14	2 0	1 6	5 0	210	
Gumastahs' and Clerks' room do. ...	8	5 0	1 3	2 1½	106	
Spiral void, six feet diar.	...	28 3	Area ...	36 6	1,031	
Do. upper portion	...	15 10	Area ...	5 0	79	
Segmental archwork as per details ...	...	...	...	...	236	
Semi-circular do. do. ...	...	...	...	...	63	
						3,099
Cubic feet ...	...	...	...	...	...	11,016

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Stone under posts and trusses.						
Under posts	30	1 0	1 0	0 5	13	
Under trusses	6	2 0	1 6	0 5	8	
Do	12	2 0	1 3	0 5	13	
Cubic feet ...	...	...	...	...	34	
Stonework (if easily procurable)—						
Steps	2	65 6	1 3	0 6	136	
Do.	2	41 6	1 3	0 6		
Do.	2	4 0	1 3	0 6	112	
Capping to plinth	...	322 0	0 10	0 5		
Cubic feet ...	...	...	...	...	248	
N.B.—Stone quoins not included.						
Segmental archwork.						
Over court doors	19	5 0	1 6	1 0	75	
Head clerk, gumastah's room, &c., do.	11	5 0	1 3	1 0	63	
Archways in passage	2	9 0	1 3	1 0	23	
Record tower door	1	3 9	1 6	1 0	8	
Over windows for head clerks and retiring room	4	3 0	1 3	1 0	15	
Do. record tower	4	4 0	0 10	1 0	13	
Do. property room	2	2 0	1 3	1 0	8	
Court upper lights	3	3 0	1 6	1 0	27	
Cubic feet ...	...	...	...	...	236	
Semi-circular Archwork.						
Spiral doors	3	4 9	1 0	1 0	14	
Record tower, upper windows ...	4	4 0	0 10	1 0	13	
Do. above do. front	1	14 3	1 6	1 0	21	
Do. do. side	1	10 0	1 6	1 0	15	
Cubic feet ...	...	...	...	...	63	
Earthfilling in basement.						
Court	1	40 0	22 0	1 6	1,320	
Head clerk, gumastah's room, &c. ...	...	73 0	18 0	1 6	1,971	
Tower	1	13 6	13 6	1 6	273	
Property room	1	21 0	14 0	0 6	147	
Verandahs	...	121 4	8 2	1 6	1,486	
Do.	...	86 1	7 2	1 6	925	
Cubic feet ...	...	...	...	...	6,122	
Cubic yards ...	...	...	...	...	227	
Teakwood.						
Court—						
Three trusses 22 feet span. Tie beams ...	3	25 0	0 6	0 8	21	
Principal rafters.	6	14 6	0 5	0 6	13	
Struts ...	6	7 0	0 4	0 5	6	
Purlins	2	47 0	0 6	0 7	27	
Purlins over wall	2	47 0	0 4	0 4	16	
Ridge...	1	47 0	0 8	0 8	15	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Teakwood—cont.						
Common rafters	64	16 10½	0 3	0 4	99	
Barge boards	4	17 6	0 2	0 9		
Do.	4	2 0	0 2	0 9	10	
Do.	2	13 6	0 2	0 9		
Do.	4	5 3	0 2	0 7	3	
Do. carved pieces	4	2 6	0 1	1 6	5	
Finial	2	7 0	0 4	0 4	2	
Do. upper portion	2	1 3	1 0	1 0	3	
Do. do.	2	1 10½	0 6	0 6	1	
Do. lower ball	2	1 1½	0 8	0 8	1	
Eaves boarding	2	47 0	0 ¾	0 5	2	
Head clerk, gumastah's &c., rooms—						
Four trusses 18 feet span. Tie beam	4	20 3	0 4	0 6	14	
Principal rafters ...	8	11 9	0 4	0 5	13	
Struts	8	5 6	0 4	0 4	5	
Purlins	2	84 0	0 5	0 6	35	
Do. over wall	2	84 0	0 4	0 4	19	
Ridge	1	84 0	0 3	0 8	14	
Common rafters	114	14 0	0 3	0 4	133	
Barge boards	4	14 6	0 2	0 9		
Do.	4	2 0	0 2	0 9	8	
Do.	2	10 9	0 2	0 6	2	
Do.	4	4 0	0 2	1 3	3	
Do.	4	1 3	0 2	0 3		
Do.	4	0 10½	0 2	0 3	1	
Finials	2	6 0	0 3½	0 3½	1	
Do. upper portion	2	2 3	0 10½	0 10½	3	
Do. lower do.	2	2 0	0 10	0 10	3	
Eaves boarding	2	81 0	0 ¾	0 5	4	
Property room—						
Two trusses 14 feet span. Tie beams	2	16 6	0 4	0 5	5	
Principal rafters ...	4	9 3	0 4	0 4	4	
Struts	4	4 6	0 3	0 4	3	
Purlins	2	25 0	0 4	0 5	7	
Do. over wall	2	25 0	0 4	0 4	6	
Ridge	1	25 0	0 3	0 7	4	
Common rafters	34	11 8	0 3	0 3	23	
Barge boards	2	12 0	0 2	0 8		
Do.	4	0 4	0 2	0 8	3	
Do.	1	8 0	0 2	0 4		
Do.	2	2 0	0 2	0 7½	1	
Do.	1	2 6	0 2	0 3	1	
Eaves boarding		28 0	0 ¾	0 4	1	
Record tower—						
Joists ... ... 2 ×	10	15 6	0 4	0 7	60	
Rafters	28	11 6	0 3	0 5		
Collar pieces...	10	7 6	0 3	0 3	41	
Ridge	1	19 6	0 3	0 7	3	
Wall plates	2	19 6	0 3	0 3	2	
Barge boards	4	12 3	0 2	0 7		
Do.	4	1 2	0 2	0 7	3	
Do.	4	4 0	0 2	2 1½	6	
Finials	2	4 0	0 4	0 4	1	
Do. upper portion	2	3 1½	0 0	0 9	1	
Do. lower do.	2	1 1½	0 7½	0 7½	1	
Eaves boards	2	12 6	0 ¾	0 5	1	
Verandahs—						
Posts	4	10 3	0 5	0 5		
Do.	14	7 10	0 5	0 5		
Do.	12	8 6	0 5	0 5	44	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Teakwood—cont.						
Verandahs—cont.						
Bases to posts	30	0 7	0 7	0 6	5	
Breastsummers	...	206 0	0 5	0 5	36	
Struts	47	2 9	0 3½	0 3½	11	
Cleats	51	0 9	0 3	0 3½	3	
Knobs	51	0 5	0 5	0 10	7	
Plank ... ... ½ ×	47	2 0	1 6	0 1	6	
Rafters	47	11 3	0 3	0 4	91	
Small rafters	88	6 5	0 3	0 4		
		Average length.				
Hip rafters	8	14 0	0 4	0 5	16	
Ridge over entrances	2	11 0	0 3	0 5	2	
Wall plates	...	96 0	0 3½	0 5	12	
Pieces to secure rafters to breastsummers	132	1 3	0 3	0 1½	5	
Do. do. uprights ...	66	0 10	0 3	0 3	3	
Joists	62	9 6	0 3	0 4	53	
Do.	7	6 0	0 3	0 4		
Eaves boarding for joists	2	32 0	0 2	0 4	4	
Do. for rafters	...	107 0	0 [illegible]	0 5	3	
Barge board for entrances	4	10 0	0 1½	0 7	3	
Do.	2	4 0	0 2	2 0	3	
Do. collar pieces	2	8 6	0 3	0 4	1	
Do. strut	4	6 0	0 3	1 6	9	
Turret—						
Sill	8	2 6	0 11	1 0	18	
Uprights	8	0 8	0 9	4 6	6	
Breastsummers	8	2 3	0 8	0 6	39	
Do. above	8	3 3	1 6	1 0	4	
Brackets	16	0 8	0 6	0 9	6	
Venetians	40	1 3	0 1	1 6	1	
Do.	32	0 4	0 [illegible]	1 3		
Bay windows—						
Brackets	8	3 0	0 3	0 7	4	
Knobs	8	0 7½	0 4	0 4	1	
Joists	8	3 0	0 3	0 3	4	
Longitudinal pieces	4	8 0	0 3	0 3		
Uprights	8	0 3	0 3	7 3	6	
Do.	4	0 3	0 3	8 9		
Breastsummers	4	3 0	0 3	0 3	3	
Do.	2	8 0	0 3	0 3		
Do.	4	2 0	0 3	0 3		
Do.	2	8 0	0 3	0 3		
Brackets	20	0 6	0 3	1 3	3	
Rail	2	8 0	0 3	0 3	2	
Do.	8	2 0	0 3	0 3		
Battens for panel	100	0 1	0 2	0 2	1	
Frame	...	4 0	0 1½	0 2½	2	
Do.	4	1 6	0 1½	0 2½		
Do.	12	1 10½	0 1½	0 2½		
Rafters	20	4 0	0 2	0 2	1	
Hip rafters	6	5 0	0 2	0 2½	1	
Small rafters	4	2 6	0 2	0 2	1	
Planking floor	8	8 0	2 0	0 1	3	
Do. for roof	28	10 6	0 [illegible]	0 6	6	
Roll cap	4	4 6	0 2	0 2½	1	
Cubic feet ...	...	...	...	...	1,103	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Venetian and panel doors with frames.	2½	4 0	...	8 0	672	sq. ft.
Batten door to record room with frames.	1	2 9	...	6 6	18	sq. ft.
Venetian windows with frames.						
Head clerk's and retiring room ...	4	2 0	...	6 6	52	sq. ft.
Windows with iron bars and glazed shutters including frames.						
Record-room lower windows	2	3 0	...	4 0	24	
Property room windows	6	2 0	...	5 0	60	
					84	sq. ft.
Windows with frames and glazed shutters.						
Record-room upper windows	2	3 0	...	4 0	24	
Do. do.	4	1 6	..	4 3	26	
					50	sq. ft.
Upper lights with glazed shutters and frames.						
Court	14	2 0	...	5 0	140	
Head clerk, gumastah's room, &c. ...	8	5 0	...	2 1½	85	
					225	sq. ft.
Wrought iron work in trusses, &c.						
1¼" diameter king rods for 22 ft. trusses.	3	9 9	29 3	×4·09	119·63	
1¼" hex. nuts and bolt heads for do. ...	9	...	...	×2·14	19·26	
3" × 3" × ¼" washers for do. ...	9	...	...	×0·32	2·88	
1¼" × ⅝" straps for do. ...	6	3 0	18 0	×1·87	33·66	
1½" × ½" bearing plates do. ...	6	0 7¾	3 10½	×2·50	9·68	
⅝" hex. nuts for do. ...	12	...	...	× ·267	32·04	
1" diar. king rods for 18 feet do. ..	4	8 0	32 0	×2·62	83·84	
1" hex. nuts and bolt heads for do. ...	12	...	...	×1·10	13·20	
3" × 3" × ⅛ washers for do. ...	12	...	...	×0·32	3·84	
1½" × ⅝" straps for do. ..	8	2 7	20 8	×1·87	38·64	
1½" × ½" bearing plates for do. ..	8	0 6¾	4 6	×2·50	11·25	
⅝" hex. nuts for do. ...	16	...	...	× ·267	4·27	
¾" diar. king rods for 14½ feet do. ...	2	6 3	12 6	×2·01	25·12	
¾" hex. nuts and bolt heads for do. ...	6	...	...	× ·73	4·38	
3" × 3" × ¼" washers for do. ...	6	...	...	×0·32	1·92	
1½" × ⅝" straps for do. ...	4	2 3	9 0	×1·87	16·83	
1½" × ½" bearing plates for do. ...	4	0 6¾	2 3	×2·50	5·62	
⅝" hex. nuts for do. ...	8	...	...	× ·267	2·13	
⅝" bolts for verandah wall plates ...	22	2 0	44 0	×1·47	64·68	
⅝" hex. nuts and bolt heads for do. ...	44	...	...	× ·43	18·92	
1" bolts for securing bay window uprights to wall.	4	1 6	6 0	×2·62	15·72	
1" hex. nuts and bolt heads for do. ...	16	...	...	×1·10	17·60	
½" bolts to secure verandah rafters to breastsummers.	132	0 6	66 0	×·164	10·82	
½" hex. nut and bolt head	264	...	...	×·017	4·48	
lbs ...	...	...	...	...	560·41	
Say lbs ...	...	...	...	...	....	561

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Flooring with square pavement tiles.						
Court		40 0	...	22 0	880	
Head clerk's, gumastah's room, &c.		73 0	...	18 0	1,314	
Property room		21 0	...	14 0	294	
Record do.		13 6	...	13 6	182	
Verandahs		101 6	...	9 0	914	
Do.		29 6	...	8 9	258	
Do.		78 9	...	8 0	630	
Door pieces	10	4 0	...	1 6	60	
Do.	11	4 0	...	1 3	55	
Do.	1	2 9	...	1 6	4	
Do.	1	2 0	...	1 0	2	
Archway	2	7 0	...	1 3	18	
						4,611
Deduct spiral		53 0	Area ...	...	...	53
						4,558
Square feet		...	...	...	...	
						45·58
Squares		...	...	...	...	
Tiling with flat and pan tiles including reepers, nails and chunam bands complete.						
Court		46 6	...	34 6	1,604	
Head clerk's, gumastah's room, &c.		81 0	...	29 0	2,349	
Property room		23 9	...	24 0	570	
Record tower		123 3	...	11 6	1,417	
						6,408
Square feet		...	...	...	...	
						64
Squares		...	...	...	...	
Terracing.						
Verandahs		89 6	...	9 0	806	
Record tower	2	14 0	...	14 0	392	
						1,198
Square feet		...	...	...	...	
						12
Squares		...	...	...	...	
Terracing roof of turret		12 0	...	9 6	114	sq. ft.
						1·14
Squares		...	...	...	...	
Plastering interior.						
Court		124 0	...	20 0	2,480	
Do. gables	2	23 6	...	3 11	184	
Head clerk's, gumastah room, &c.		290 0	...	14 0	4,060	
Do. do. gables	8	19 3	...	3 2½	494	
Property room		70 0	...	10 0	700	
Do. gables	2	15 3	...	2 6½	78	
Record tower		54 0	...	31 0	1,674	
Gables	2	15 0	...	2 6	75	
Spiral		18 10	...	41 6	782	
Door jambs	10	20 0	...	1 6	300	
Do.	11	20 0	...	1 3	275	
Do.	1	15 9	...	1 6	24	
Do.	3	14 0	...	1 0	42	
Window jambs	4	17 0	...	1 3	85	
Do.	2	14 0	...	1 6	42	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Plastering interior—cont.						
Window jambs	2	14 0	...	0 10	23	
Do.	4	11 0	...	0 10	37	
Do.	4	12 0	...	1 3	60	
Do.	2	14 0	...	1 3	35	
Upper lights jambs	6	14 0	...	1 6	126	
Do. do.	8	12 0	...	1 3	144	
Do. &c.	5	9 3	...	1 3	153	
Archways do.	2	24 0	...	1 3		
						11,873
Deductions—						
Doors	26	4 0	...	8 0	832	
Do.	1	2 9	...	6 6	18	
Do.	6	2 0	...	5 6	66	
Do.	3	3 1	Area ...	...	9	
Windows	4	2 0	...	6 6	52	
Do.	4	3 0	...	4 0	48	
Do.	4	1 6	...	3 6	21	
Do.	2	1 9	Area ...	...	4	
Do.	6	2 0	...	5 0	60	
Upper lights	14	2 0	...	5 0	140	
Do.	8	5 0	...	2 1½	85	
Archways in passage	2	7 0	...	8 0	112	
						1,447
Square feet		...	...	...	...	10,426
Squares		...	...	...	...	104·26
Pointing exterior.						
Court		95 0	...	20 0	1,900	
Do. sides of end gables	4	7 6	...	2 6	70	
Gables	2	25 0	...	4 2	208	
Head clerk, gumastah's room, &c.		180 6	...	14 0	2,527	
Do. gables	2	20 6	...	3 5	140	
Do. sides of gable	2	6 0	...	3 0	36	
Property room	1	61 0	...	10 0	610	
Gable	1	18 6	...	2 9	45	
Record tower		58 0	...	32 0	1,856	
Do. gable	2	16 6	...	2 9	91	
Turret		19 10	...	35 0	694	
Do. upper portion		26 6	...	2 0	53	
Do. do.		24 6	...	4 6	108	
Basement all round		308 0	...	2 0	616	
Do. for property room		43 0	...	1 0	43	
						8,997
Deductions—						
Doors	16	4 0	...	8 0	512	
Do.	1	2 9	...	6 6	18	
Windows	4	2 0	...	6 6	52	
Do.	4	3 0	...	4 0	48	
Do.	4	1 6	...	3 6	21	
Do.	2	1 9	Area ...	...	4	
Do.	6	2 0	...	5 0	60	
Upper lights	14	2 0	...	5 0	140	
Do.	8	5 0	...	2 1½	85	
Archways in passage ...	2	7 0	...	8 0	112	
						1,052
Square feet		...	...	...	...	7,945
Squares		...	...	...	...	79·45

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Lath and Plaster.						
Record tower below joists	2	13 6	...	13 6	365	
Do. couples	1	13 6	...	14 9	199	
Square feet ...	...	...	...	...	564	
Squares ...	...	...	...	...	...	5·64
Painting doors and windows and exposed wood work of roof, &c., with 3 coats of Carson's oak color.						
Venetian and panel doors ... 3 ×	21	4 0	...	8 0	2,016	
Batten door ... ... 2 ×	1	2 9	...	6 6	38	
Venetian windows ... ... 3 ×	4	2 0	...	6 6	156	
Windows with iron bars and glazed shutters ... ... 3 ×	2	3 0	...	4 0	72	
Do do. ... 3 ×	6	2 0	...	5 0	180	
Windows with glazed shutters... 2 ×	2	3 0	...	4 0	48	
Do. do. ... 2 ×	4	1 6	...	4 3	51	
Upper lights ... ... 2 ×	14	2 0	...	5 0	280	
Do. ... ... 2 ×	8	5 0	...	2 1½	170	
Barge boards	4	17 6	...	1 0	70	
Do.	4	2 0	...	0 9	6	
Do.	2	13 6	...	1 6	72	
Do.	4	5 3	...	1 6		
Finials	2	1 6	...	10 6	32	
Eaves boarding...	2	47 0	...	0 6	47	
Barge boards	4	14 6	...	1 0	58	
Do.	4	2 0	...	0 9	6	
Do.	2	10 9	...	1 4	29	
Do.	4	4 0	...	1 3	20	
Do.	4	1 3	...	0 7	6	
Do.	4	0 10½	...	0 7		
Finials	2	1 4	...	9 6	25	
Eaves boarding	2	81 0	...	0 6	81	
Barge boards	2	12 0	...	0 10	20	
Do.	8	0 8	...	0 4	2	
Do.	1	8 0	...	0 8	5	
Do.	2	2 6	...	0 7	4	
Do.	1	2 6	...	0 7		
Eaves boarding	1	28 0	...	0 5	12	
Barge boards	4	12 3	...	0 9	37	
Do.	4	1 2	...	0 7	3	
Do.	4	4 0	...	2 0	32	
Finials	2	1 6	...	8 0	24	
Eaves boarding	2	19 6	...	0 6	20	
Posts	4	10 1	...	1 8		
Do.	14	7 8	...	1 8	413	
Do.	12	8 4	...	1 8		
Bases to do.	30	2 4	...	0 6	35	
Breastsummers...	...	206 0	...	1 3	258	
Struts	47	2 9	...	1 2	151	
Cleats	51	0 9½	...	0 9	30	
Knobs	51	1 8	...	0 6	43	
Planks	47	2 0	...	1 6	141	
Pieces to secure rafters	132	1 3	...	0 6	88	
Do. uprights	66	0 10	...	0 9	41	
Eaves boarding	2	32 0	...	0 6	32	
Do.	...	107 0	...	0 6	54	

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Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Painting doors and windows and exposed wood work of roof, &c., with 3 coats of Carson's oak color—cont.						
Barge board	4	10 0	...	0 8½	28	
Do.	2	4 0	...	2 0	16	
Do.	2	8 6	...	1 2	20	
Struts	4	6 0	...	1 6	36	
Turret sill	...	18 0	...	2 6	45	
Uprights	3	4 4	...	2 4	81	
Breastsummers	...	18 0	...	1 4	24	
Do. above	...	24 0	...	1 9	42	
Brackets	16	0 9	...	0 8	96	
Venetians	49	1 3	...	3 0	150	
Do.	22	1 3	...	0 7	23	
Brackets	8	3 0	...	1 3	30	
Knobs	5	0 6	...	1 3	5	
Joists	8	2 0	...	0 9	12	
Longitudinal pieces	4	8 0	...	0 9	24	
Uprights	6	1 0	...	7 3	58	
Do.	4	0 9	...	8 9	26	
Breastsummers	4	2 0	...	0 9	6	
Do.	2	8 0	...	0 9	12	
Do.	4	2 0	...	1 0	8	
Do.	2	8 0	...	1 0	16	
Brackets	20	0 8	...	1 3	17	
Rail	2	8 0	...	0 8	21	
Do.	2	2 0	...	0 8		
Panels ... ... 2 ×	2	3 9	...	1 6	59	
Do. ... ... 2 ×	8	1 6	...	1 6		
Roof ... ... 2 ×	2	10 9	...	8 0	344	
Square feet ...	...	...	...	...	6,117	
Squares ...	...	...	...	...	...	61·17
Painting wood work of roof with 3 coats of wood-oil.						
Tie beams	3	25 0	...	2 4	175	
Principal rafters	6	14 6	...	1 10	160	
Struts	6	7 0	...	1 6	63	
Purlins	2	46 0	...	1 8	153	
Do.	2	46 0	...	1 0	92	
Ridge	1	46 0	...	1 7	73	
Common rafters	94	16 10½	...	0 11	990	
Tie beams	4	20 6	...	1 8	137	
Principal rafters	8	11 9	...	1 2	110	
Struts	8	5 6	...	1 4	59	
Purlins	2	81 0	...	1 5	230	
Do.	2	81 0	...	1 0	162	
Ridge	1	81 0	...	1 7	128	
Common rafters	114	14 0	...	0 11	1,463	
Tie beams	2	16 6	...	1 6	50	
Principal rafters	4	9 3	...	1 0	37	
Struts	4	4 6	...	1 2	21	
Purlins	2	23 9	...	1 2	55	
Do.	2	23 2	...	1 0	48	
Ridge	1	23 9	...	1 5	34	
Common rafters	34	11 8	...	0 9	298	
Joists	20	13 6	...	1 6	405	
Rafters	28	11 6	...	1 1	349	

Detailed Quantities—cont.

Description of Work.	No.	Length.	Breadth.	Depth.	Contents.	Total.
		FT. IN.	FT. IN.	FT. IN.		
Painting wood-work of roof with three coats of wood-oil—cont.						
Collar pieces	10	8 6	...	1 4	113	
Ridge	1	19 6	...	1 5	28	
Verandah rafters	47	11 3	...	0 11	1,002	
Small do.	88	6 5	...	0 11		
Hip do.	8	14 0	...	1 2	131	
Ridge	2	11 0	...	1 1	24	
Wall plate	...	96 0	...	1 0	96	
Verandah joists	62	9 6	...	0 11	578	
Do. do.	7	6 0	...	0 11		
Square feet ...	...	...	...	...	7,264	
Squares ...	...	...	...	...	...	72·64
Laying zinc sheets to the valleys flashing.						
Verandah over entrance	4	14 0	...	...	56	
Do. near spiral	1	10 0	...	...	10	
Over property-room	1	11 0	...	...	11	
Do. record-tower	1	8 0	...	...	8	
Flashing over sloped verandah ...	...	95 0	...	...	95	
Lineal feet ...	...	...	...	...	180	
Exterior ornamental mouldings for record tower.	...	...	...	...	48	L. feet.
Exterior mouldings for turret	...	...	...	...	30	L. feet.
Mouldings over windows and upper lights.						
Property-room, gable windows ...	...	...	...	...	6	
Tower windows	...	...	...	...	16	
Do. upper	...	...	...	...	44	
Court upper lights	...	...	...	...	18	
Lineal feet ...	...	...	...	...	84	
Interior dental cornice.						
Court	...	...	...	...	124	
Head clerk's room	...	...	...	...	68	
Gumastah's room	...	...	...	...	96	
Passage	...	...	...	...	54	
Retiring room	...	...	...	...	72	
Lineal feet ...	...	...	...	...	414	
Interior plain cornice	...	...	...	...	414	
Circular ornaments in court gables ...	...	6 in number.				
Spiral stairs	...	...	,,	...	28	steps.
Stone finial for turret	...	1 in number.				

2294/17

ABSTRACT.

Quantity.	Item.	Rate.	Per	Amount.
		RS. A. P.		RS. A. P.
490 C. yds.	Excavation for foundation ...			
2,948 C. feet.	Concrete			
4,448 ,,	Brickwork in foundations ...			
1,669 ,,	Do. in basement			
11,016 ,,	Do. in superstructure ...			
34 ,,	Stonework under posts and trusses.			
248 ,,	Do. in steps, &c., if easily procurable.			
236 ,,	Segmental archwork			
63 ,,	Semi-circular do.			
227 C. yds.	Earth-filling in basement ...			
1,103 C. feet.	Teakwood wrought and put up ...			
672 Sq. feet.	Venetian and panel doors with frames complete.			
18 ,,	Batten doors with frames complete.			
52 ,,	Venetian windows with frames ...			
84 ,,	Windows with iron bars and glazed shutters including frames.			
50 ,,	Windows with frames and glazed shutters.			
225 ,,	Upper lights with frames and glazed shutters.			
561 lbs.	Wrought iron in trusses, &c. ...			
45·58 Sqrs.	Flooring with 6" square pavement tiles.			
64 ,,	Tiling with flat and pan tiles, teak reepers and chunam bands ...			
12 ,,	Terracing			
1·14 ,,	Do. roof of turret			
104·26 ,,	Plastering interior walls			
79·45 ,,	Pointing exterior walls			
5·64 ,,	Lath and plaster			
61·17 ,,	Painting doors and windows, &c., with three coats of Carson's oak color.			
72·64 ,,	Painting woodwork of roof with three coats of wood oil.			
180 L. feet.	Laying zinc sheets to the valleys of roof and flashing.			
48 ,,	Exterior ornamental mouldings for record-tower.			
30 ,,	Exterior ornamental mouldings for turret.			
84 ,,	Exterior ornamental mouldings over windows and upper lights.			
414 ,,	Interior dental cornice			
414 ,,	Do. plain do.			
6 No.	Circular ornaments over lights in court gables.			
28 steps.	Spiral stairs			
	Allow extra for finishing turret ...			
1 No.	Stone finial for do. ...			
2 ,,	Allow extra for finishing court gables.			
2 ,,	Allow extra for finishing record tower gables.			
2 ,,	Allow extra for finishing end gables.			

Abstract—*cont.*

Quantity.	Item.	Rate.	Per.	Amount.
		RS. A. P.		RS. A. P.
1 No.	Allow extra for finishing property room gables.			
2 „	Allow extra for finishing court verandah gables.			
47	Allow extra for finishing brackets for verandah posts.			
2	Allow extra for finishing bay windows.			
	Fittings for property room ...			
	Contingencies at 5 per cent. ...			
	Total ...			

CHEPAUK,
30th July 1879.

(Signed) R. CHISHOLM,
Consg. Architect to Govt.

No. 32. ORDER THEREON, 6th September 1879, No. 2,294 W.

THE papers now submitted by the Consulting Architect comprise nine drawings, one specification and detail and abstract estimates for Sub-Judges' and District Munsiffs' Court-houses for which standard designs were sanctioned in G.O., No. 3,929 W, dated 9th October 1878.

2. The papers will be printed and circulated for the information of the Department.

3. The Consulting Architect will be informed that the alternative plans for terrace-roofed buildings should be treated in a similar manner.

(True Extract.)

(Signed) R. F. Sankey
Capt.
~~Major~~ R.E.,
~~Ag.~~ Under Secy. to Govt., P.W.D.

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

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To

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&c. &c. &c.

Dated September 6th

Issued

Rec.

G. O. No. 3294 of 6 September 1879, P.W.D.

REFERENCES.

Nos. 31-32

Cost.

2294/19

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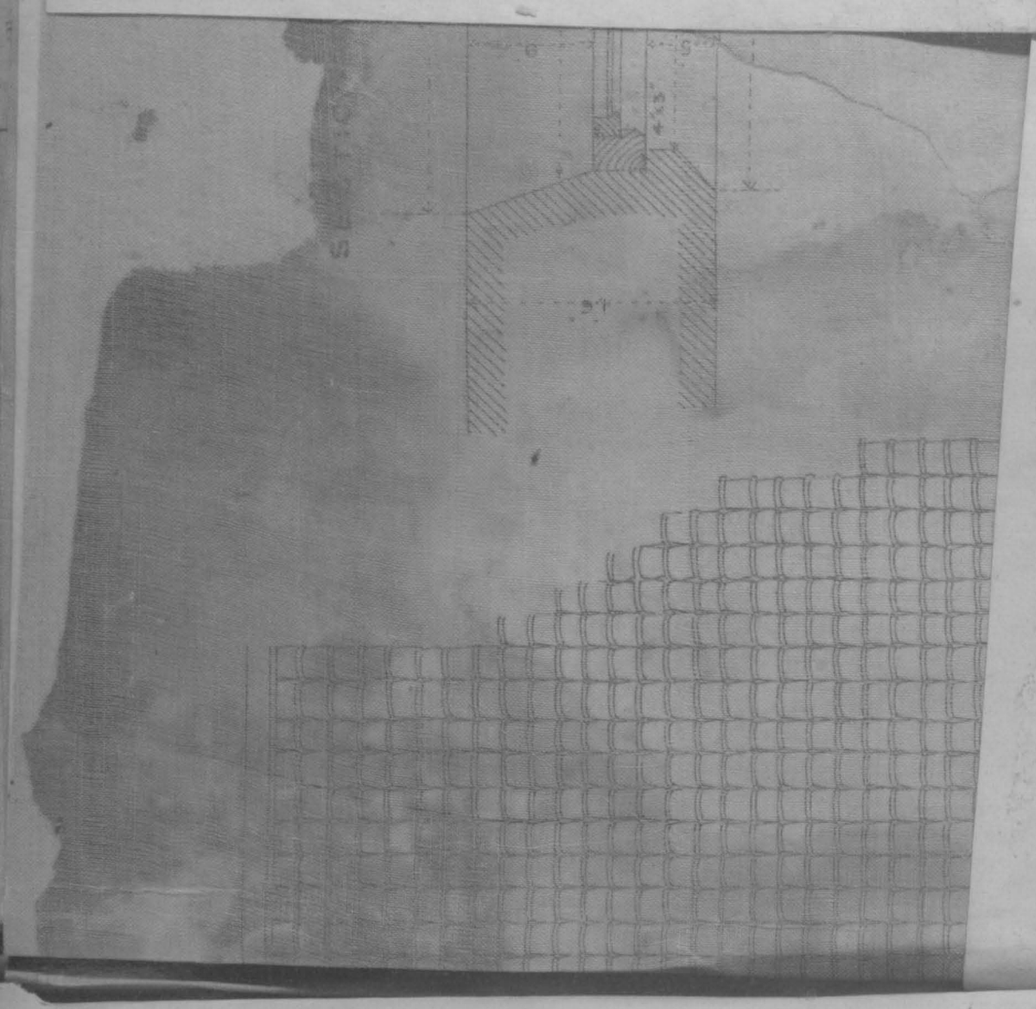
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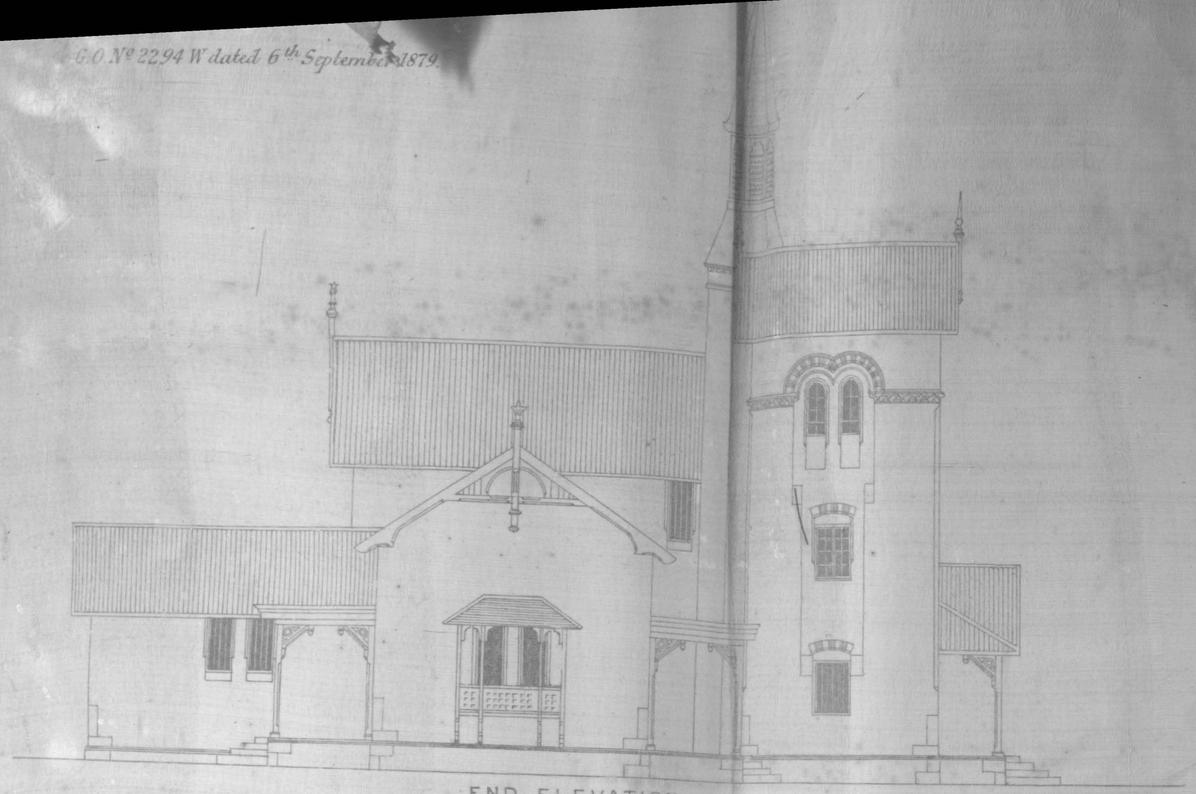
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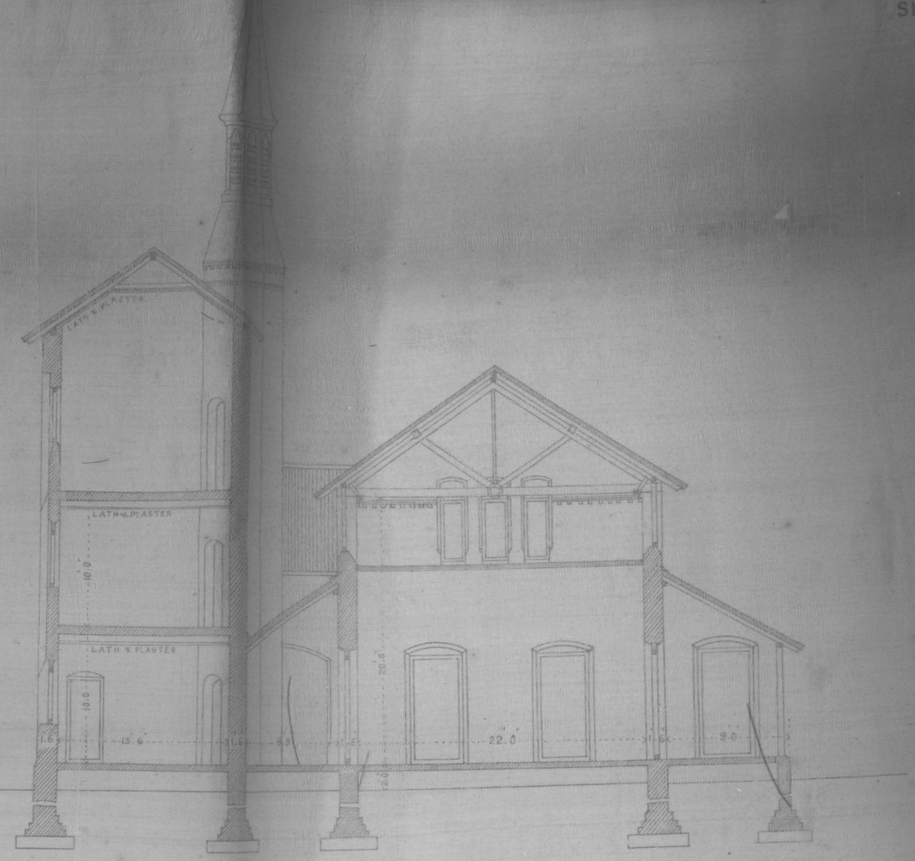


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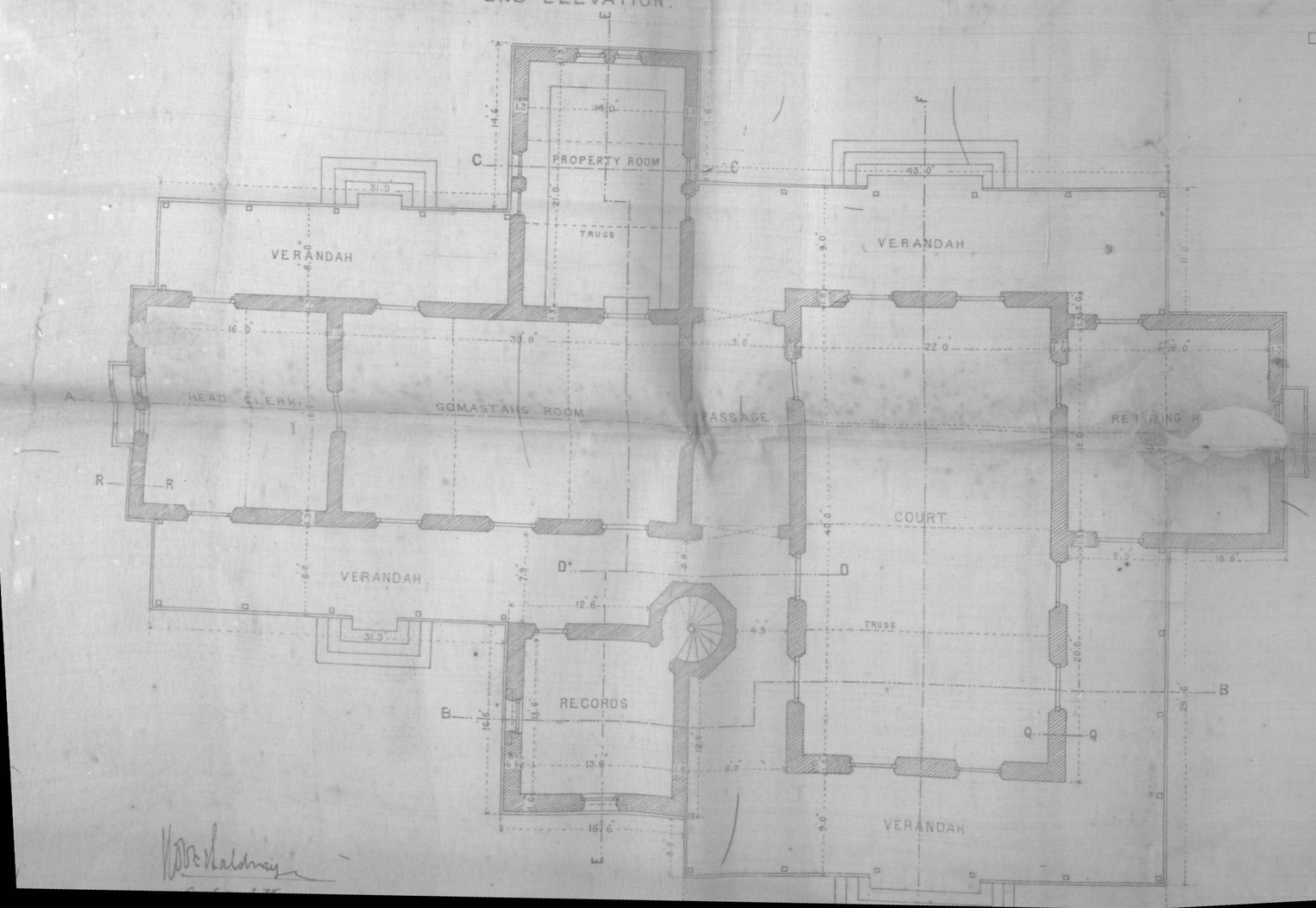
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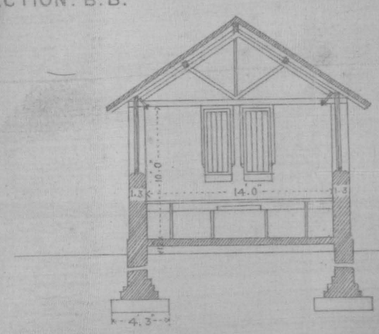


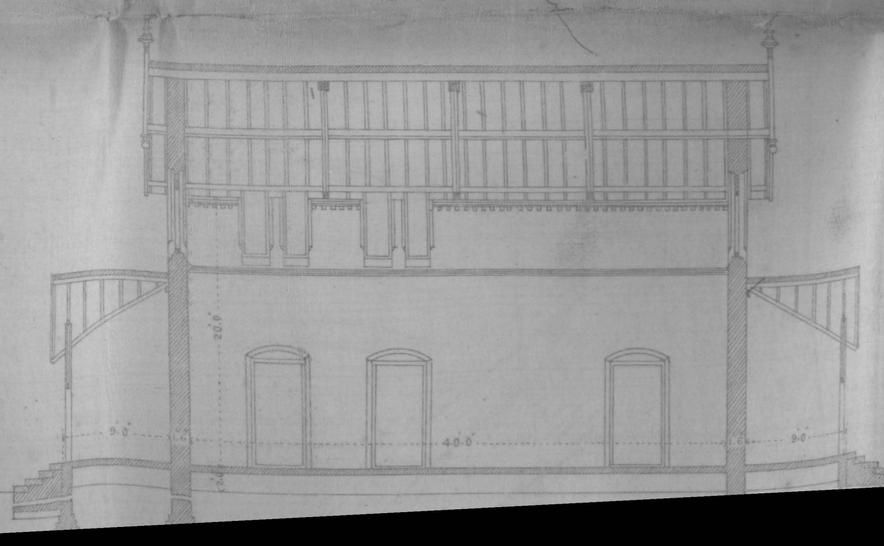
END ELEVATION.



SECTION. B.B.







2294/20

1½ DIAR.

6" x 8"
2" CAMBER.

No 3.

22' 0"

TO FLOOR 20'0"

No 4

I. I. ENLARGED.

SECTION J. J. ENLARGED

No 1

FINIAL ENLARGED.

CORNICE ENLARGED.

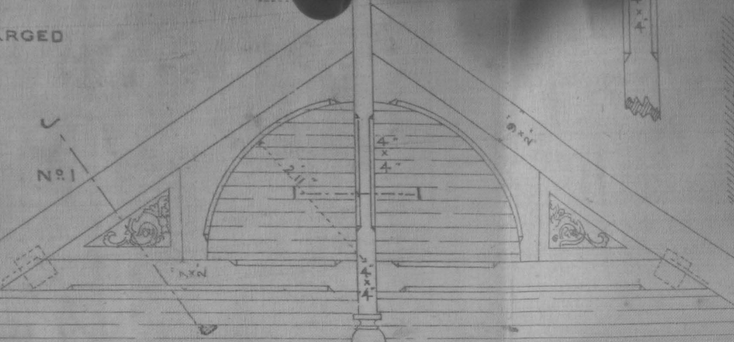
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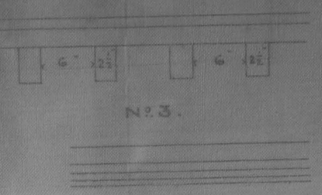
ELEVATION OF SIDE LIGHTS.

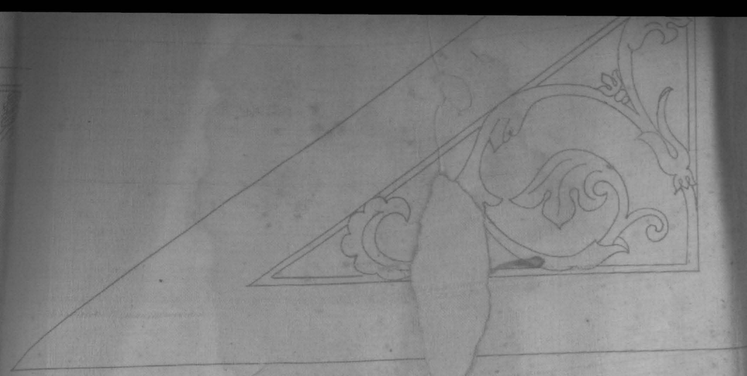
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SECTION J. J. ENLARGED



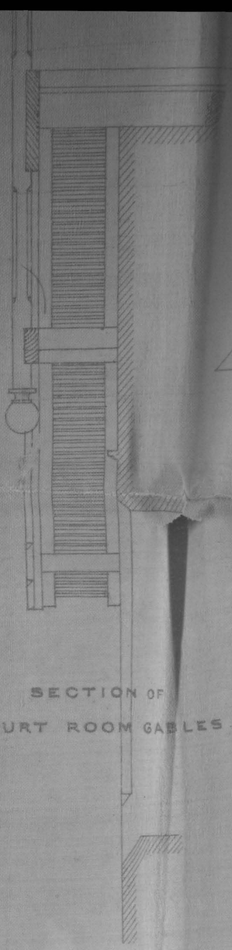
CORNICE ENLARGED.



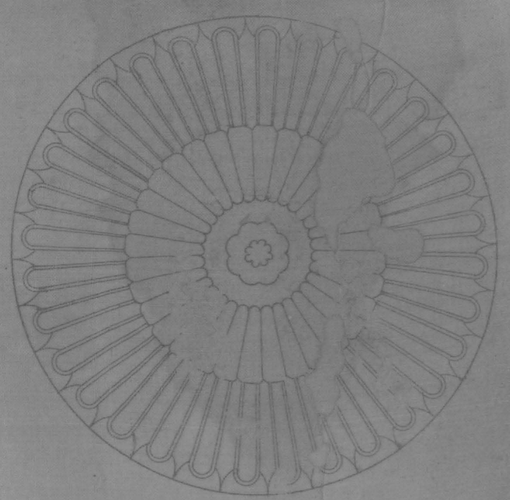


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½ REAL SIZE.

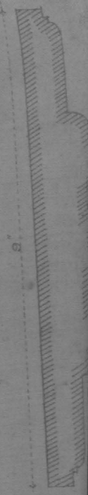
ELEVATION OF COURT ROOM GABLES



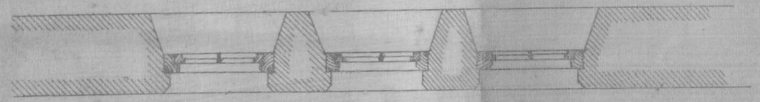
SECTION OF
COURT ROOM GABLES



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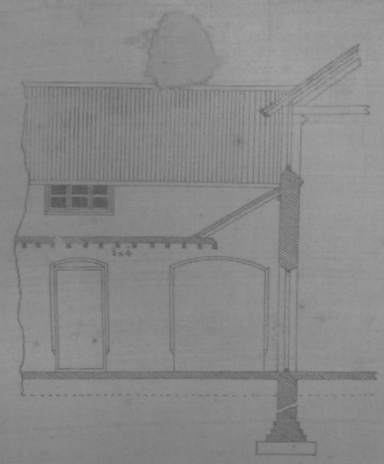
SECTION ON LINE. H.H.

Sup[t] and Manager.

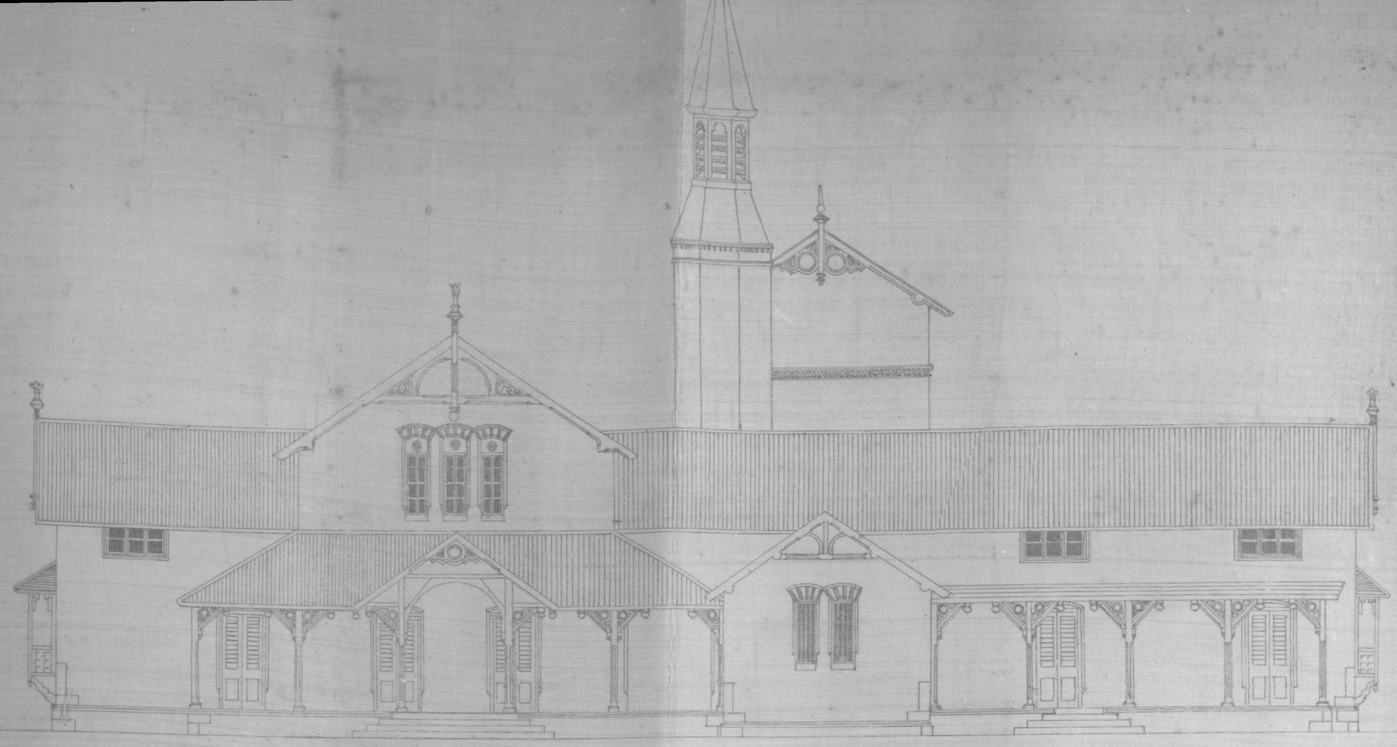
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(Signed) R. F. Chisholm
Consulting Architect to Gov[t] July 1879.

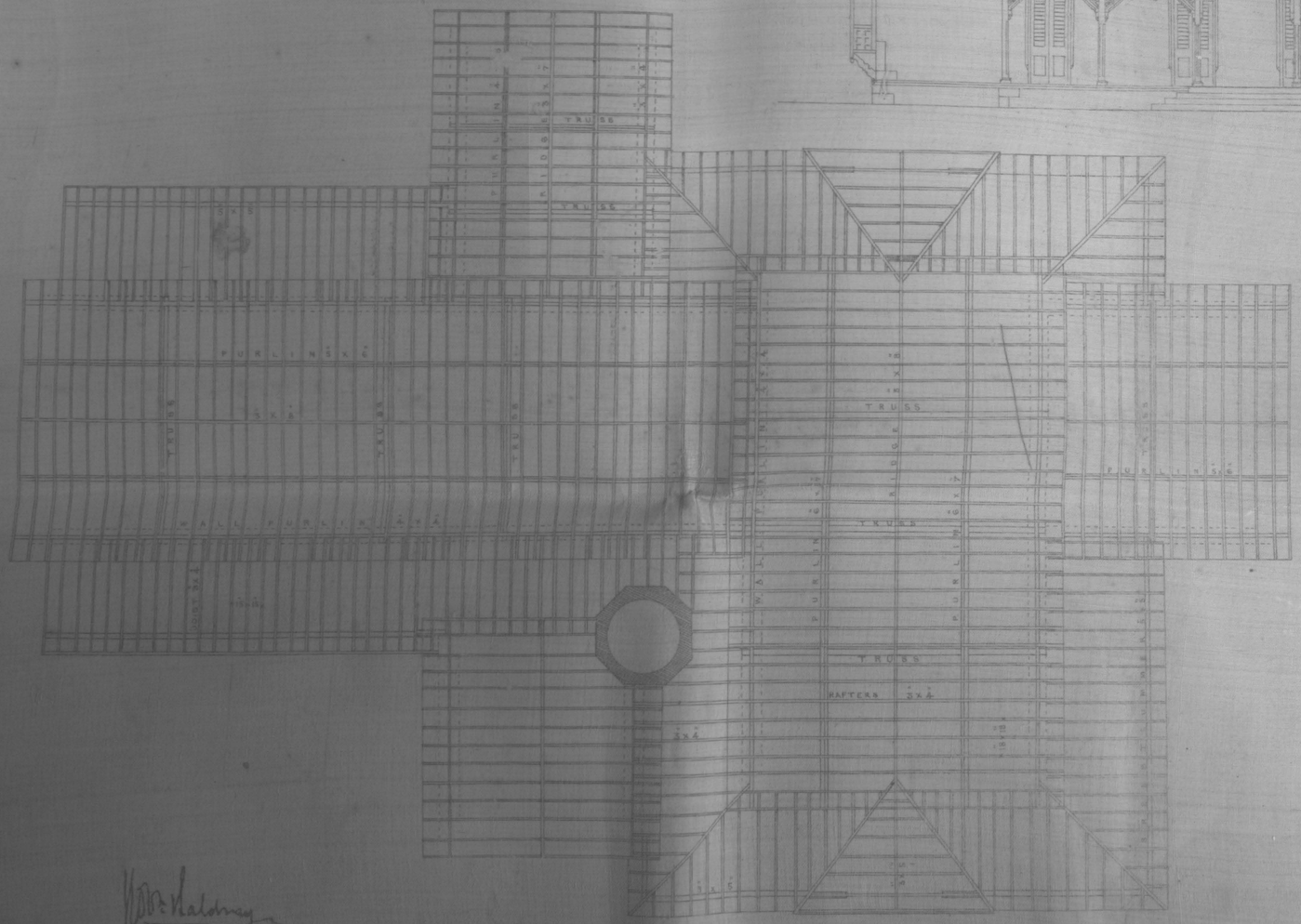
Dy. Chief Engineer



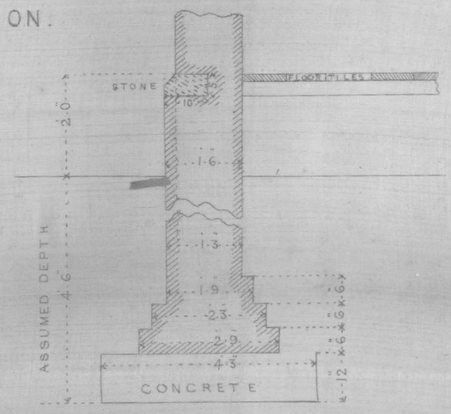
SECTION. D. D.



BACK ELEVATION.



PLAN OF ROOF

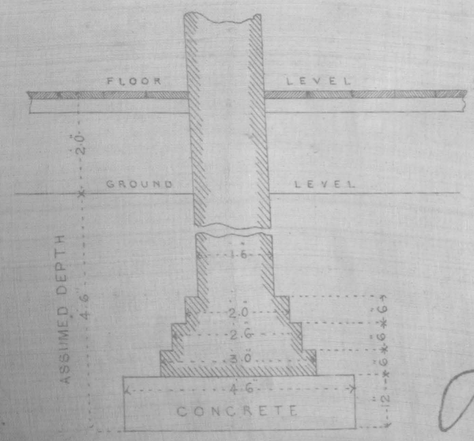


AT R.R.

SECTIONS

OF

FOUNDATIONS



AT Q.Q.

W. D. Haldane

Supt.ᵉ and Manager

Govᵗ Litho.ᶜ Depᵗ. Ootacamund Febʳʸ. 1880.

(signed) R.F. Chisholm

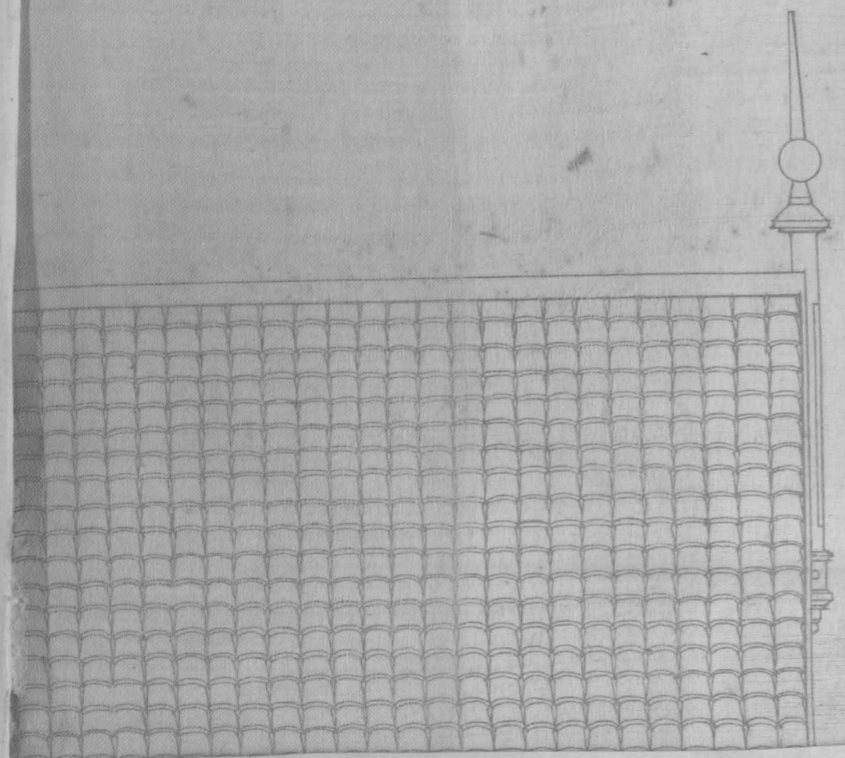
Consulting Architect to Govᵗ. July 1879.

Major R.E.

Dy: Chief Engineer D.P.W.

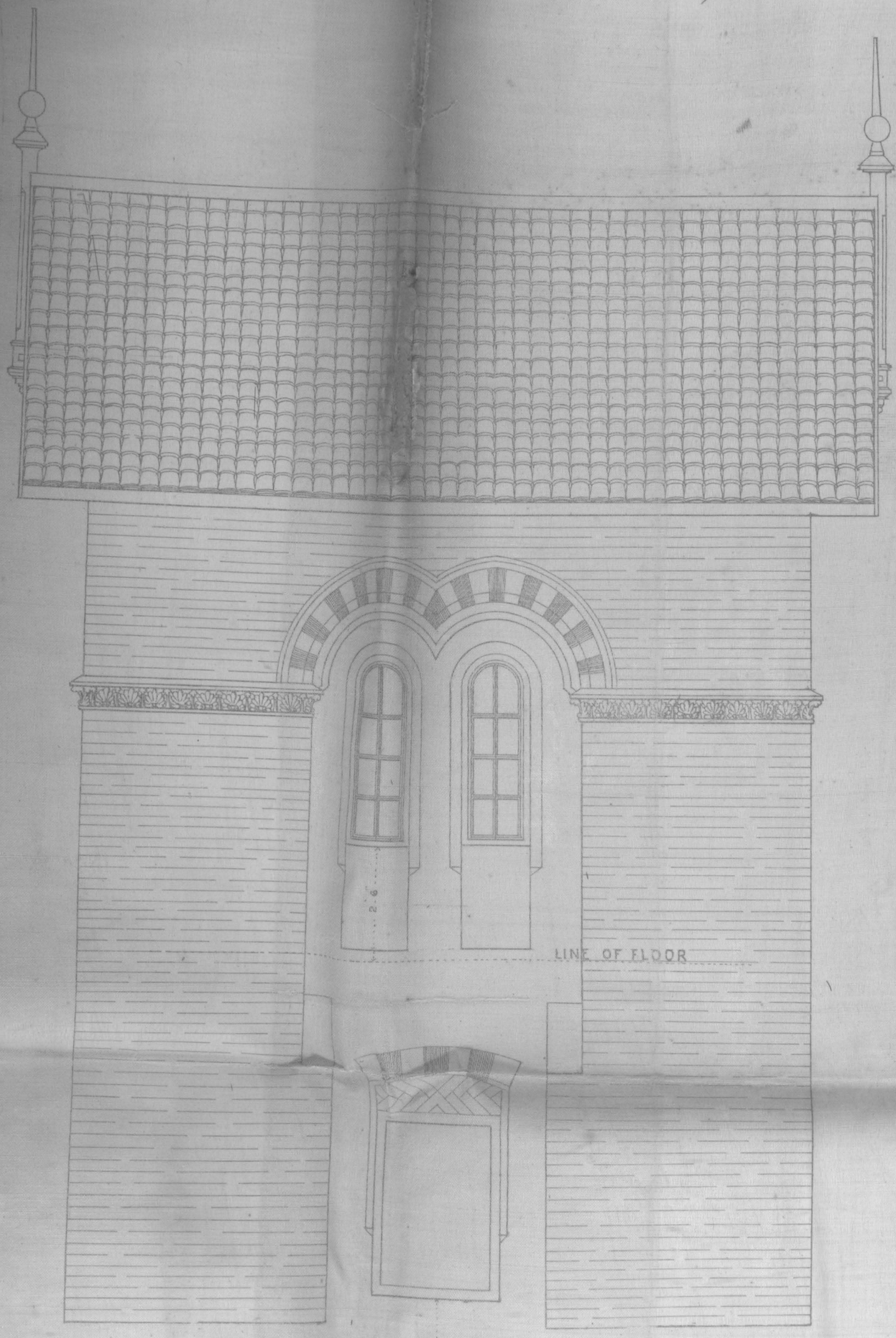
SHEET Nº6.

G.O. Nº 2294. W. dated 6th Sept 1879.



SHEET Nº 6.

G.O. Nº 2294. W. dated 6th Sept. 1879.



SIDE ELEVATION OF RECORD TOWER.

Major R.E.
Dy Chief Engineer D.P.W.

(Signed) R.F. Chisholm.
Consulting Architect to Govt
July 1879.

SECTION.

2294
23

DETAILS OF STRING

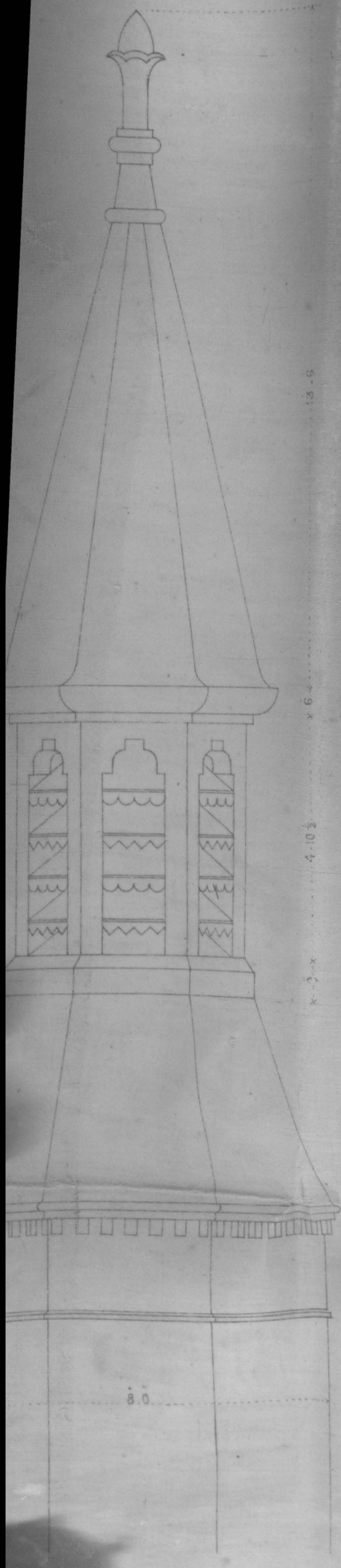
ELEVATION OF RECORD TOWER GABLES.

SECTION.

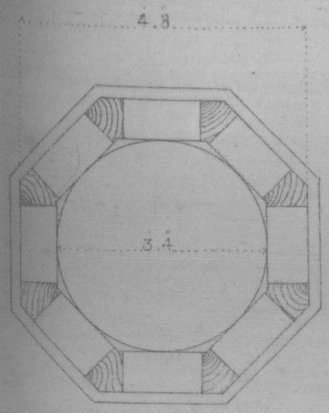
Wm Nicholson Supt and Manager
Govt Press Office Chepauk Madras 1879

SHEET No 7.

G.O. No 2294 W. dated 6th Sept. 1879.



ELEVATION OF TURRET

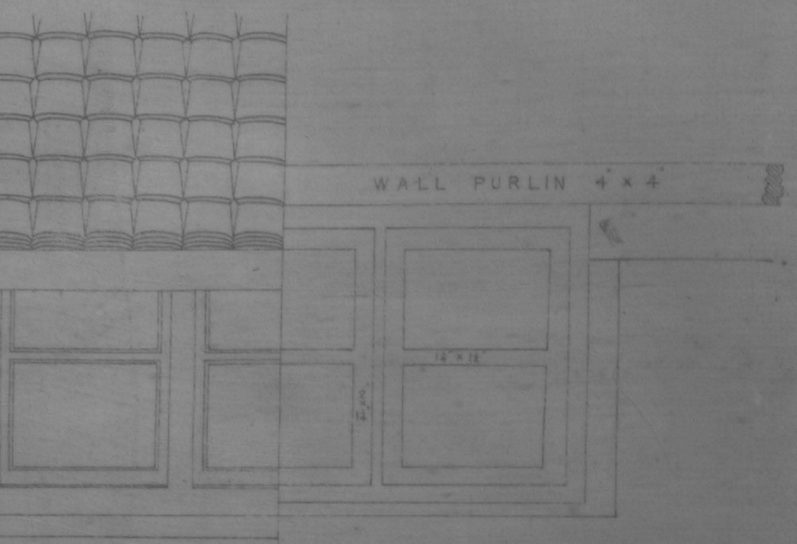


SECTIONAL PLAN AT N.N.

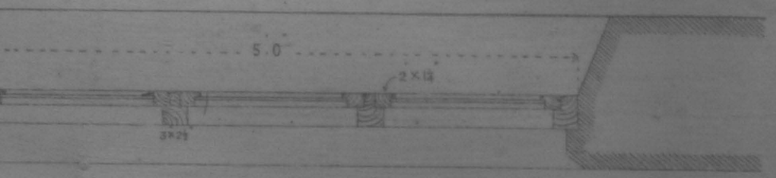
SECTION OF TURRET.

(Signed) R. F. Chisholm.
Consulting Architect to Govt
July 1879.

Major R.E.
Dy: Chief Engineer D.P.W.



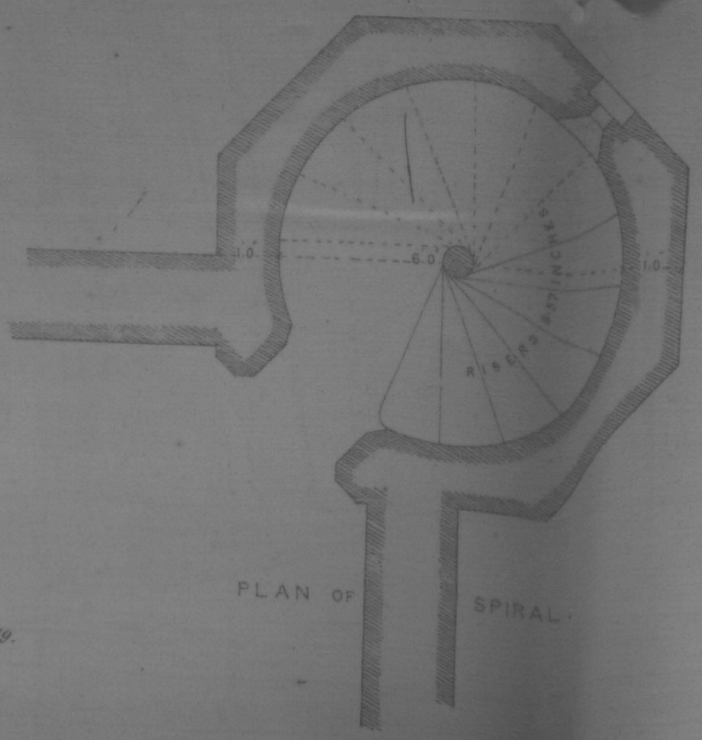
ELEVATION OF UPPER LIGHT.



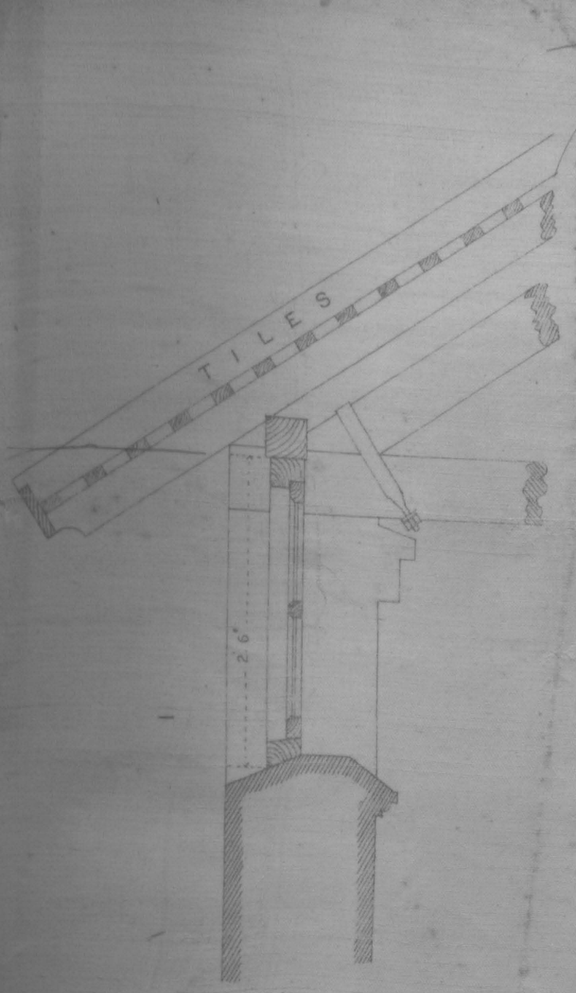
PLAN.



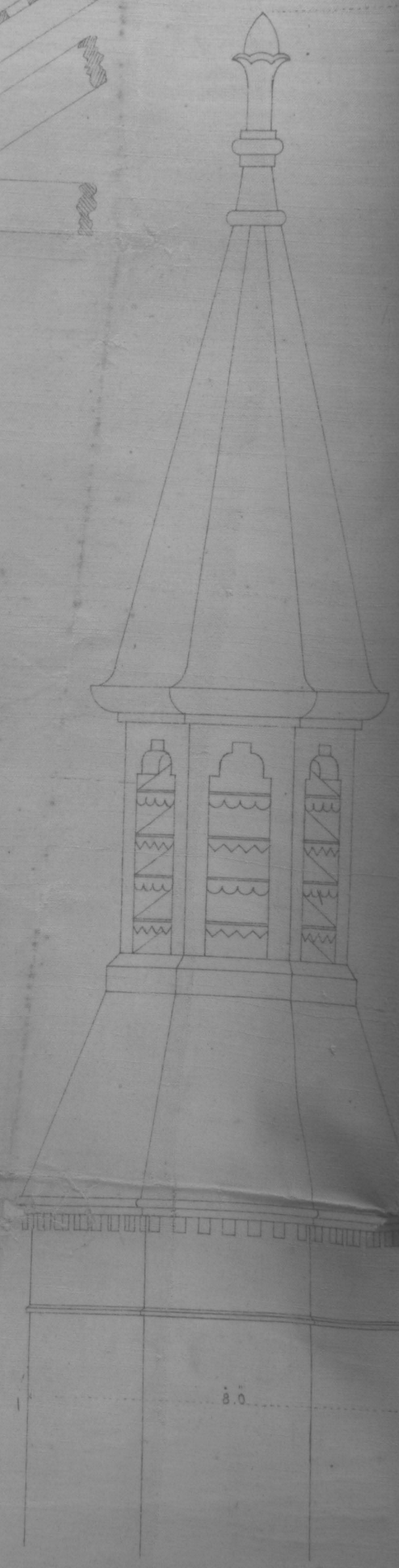
SECTION OF TOWER ROOF.



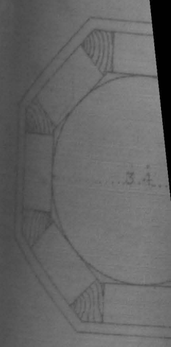
PLAN OF SPIRAL.



SECTION.



ELEVATION OF TURRET



SECTIONAL PL

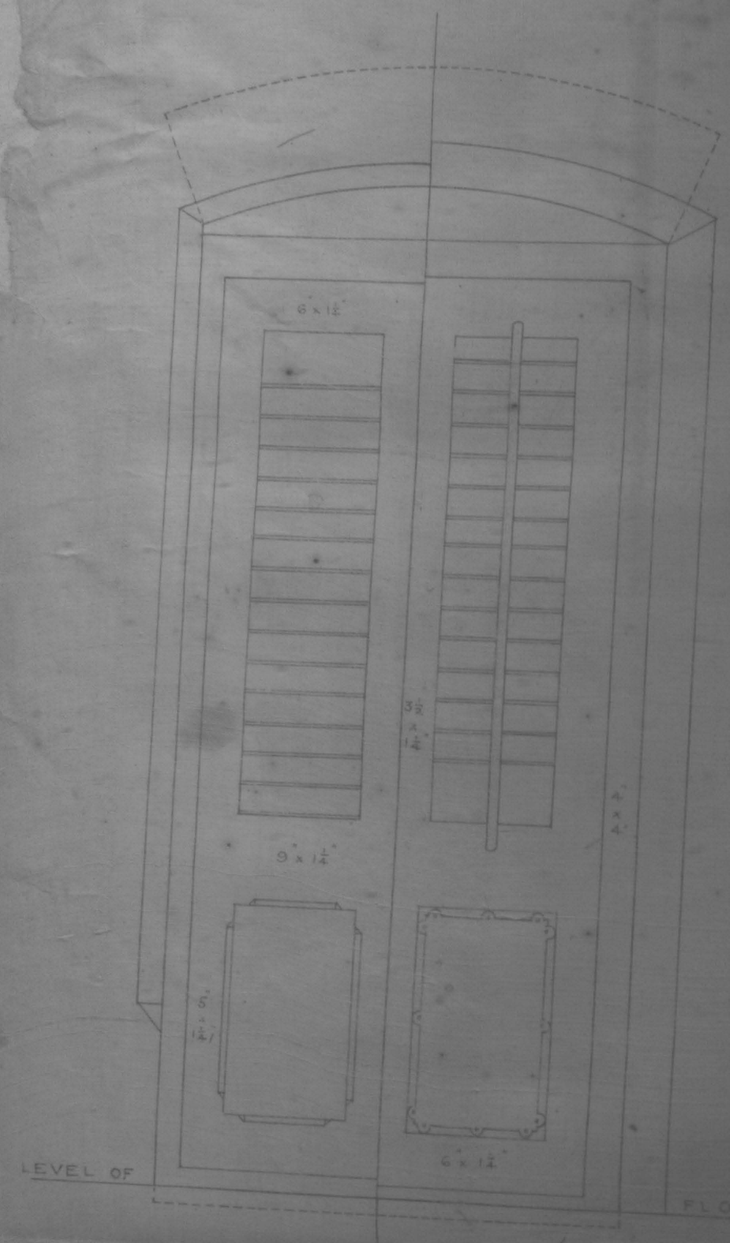
(Signed) R. F. Gisholt
Consulting Archit

...ibrae 1879.

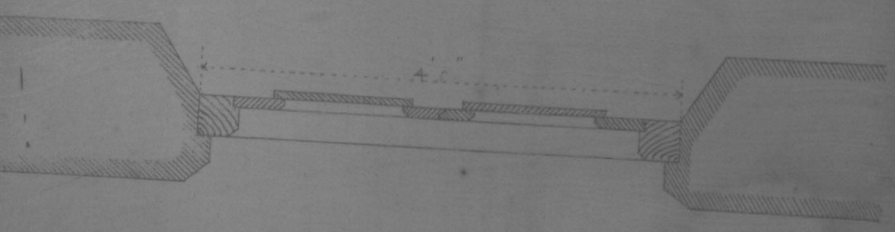
2294
25

SCALE HALF AN INCH TO A FOOT.

G.O. Nº 2294 W. dated 6th Sept 1879



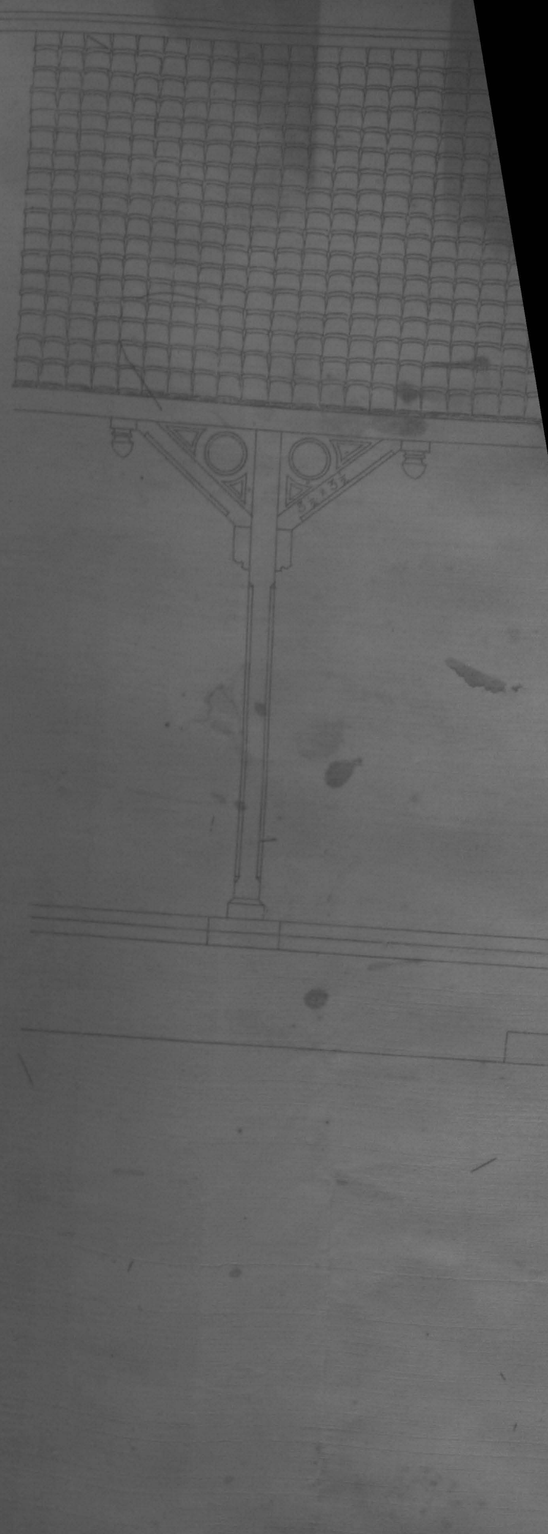
ELEVATION OF DOOR.

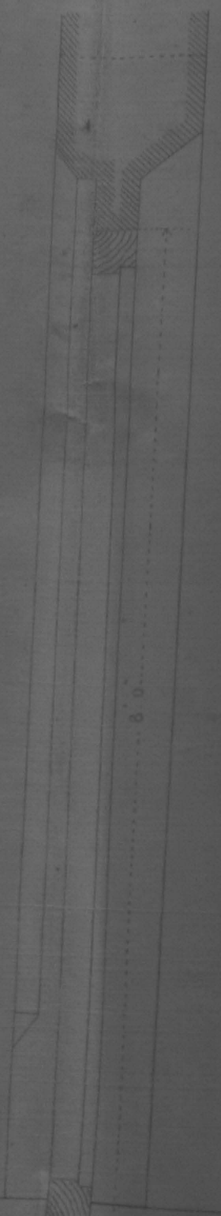


PLAN.

Supt and Manager.

Govt Lithe Press Chepauk Madras 1879.

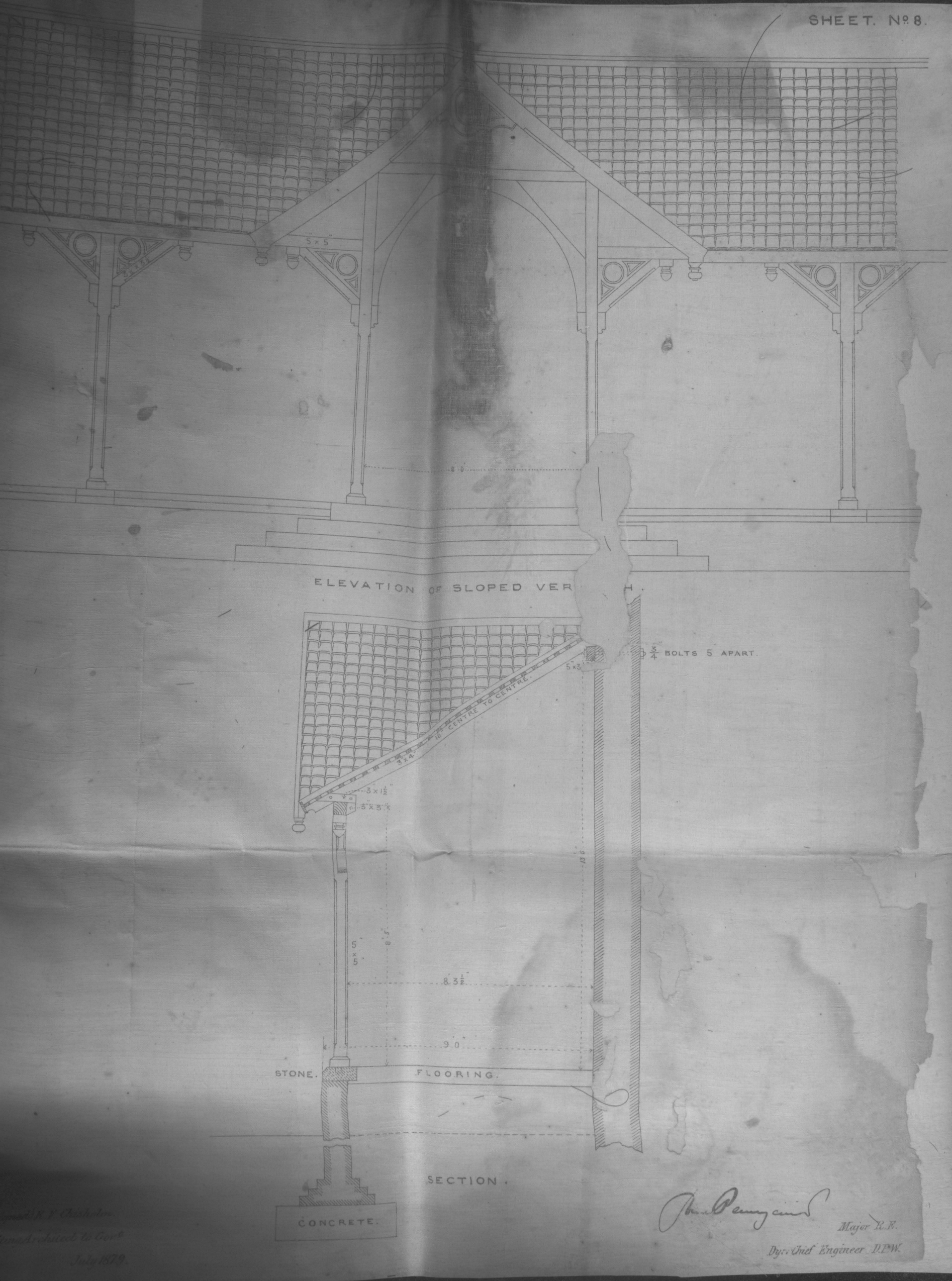






(Signed) R. F. Chisholm
Consulting Architect to Govt
July 1879.

SHEET. Nº 8.



ELEVATION OF SLOPED VER[illegible]H.

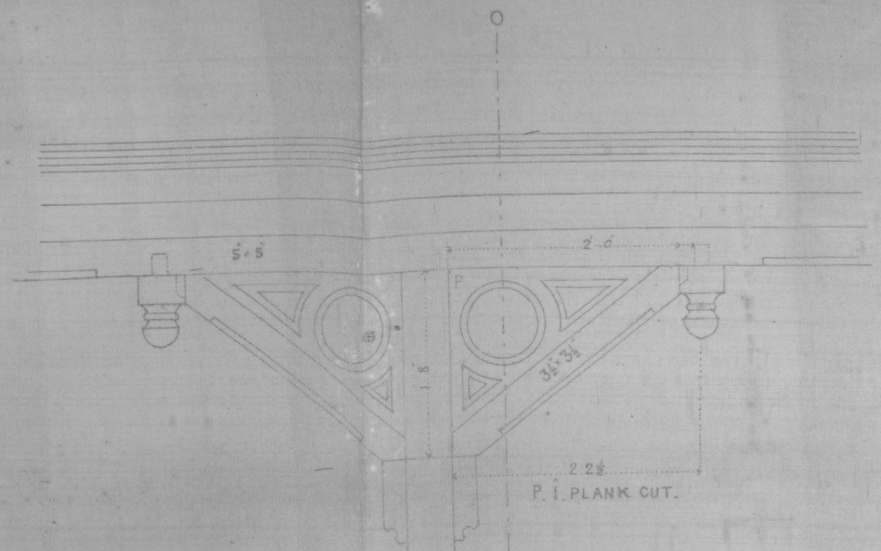
¾ BOLTS 5 APART.

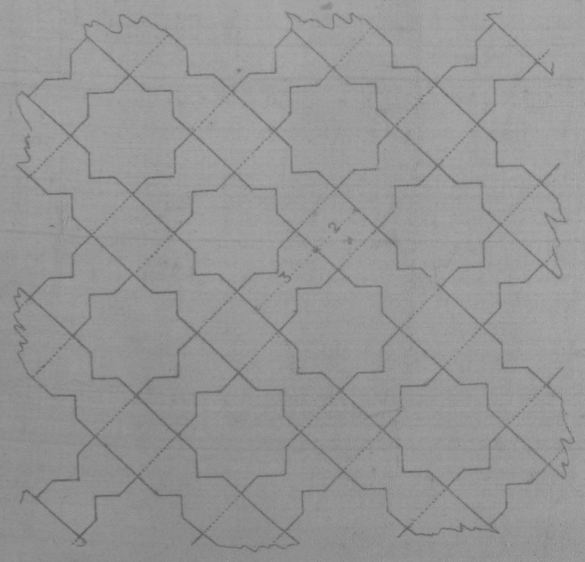
SECTION.

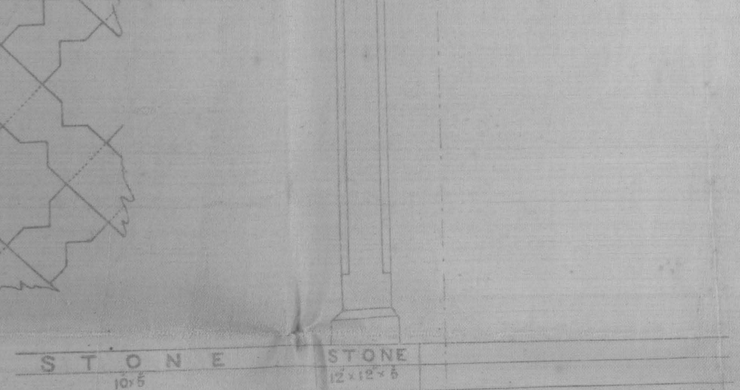
[illegible] R. P. Chisholm
[illegible] Architect to Govt
July 1879.

Major R.E.
Dy:. Chief Engineer D.P.W.

G.O. No. 2294 W. Dated 6th September 1879.

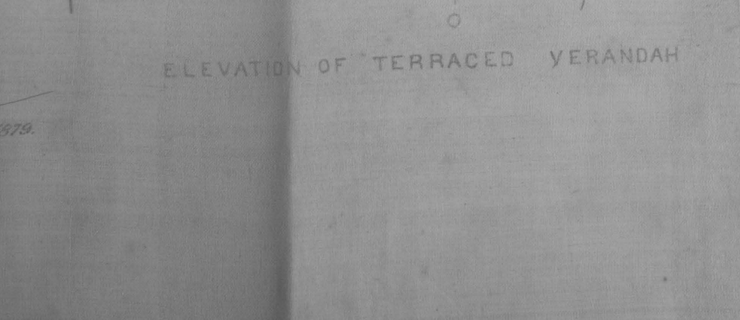




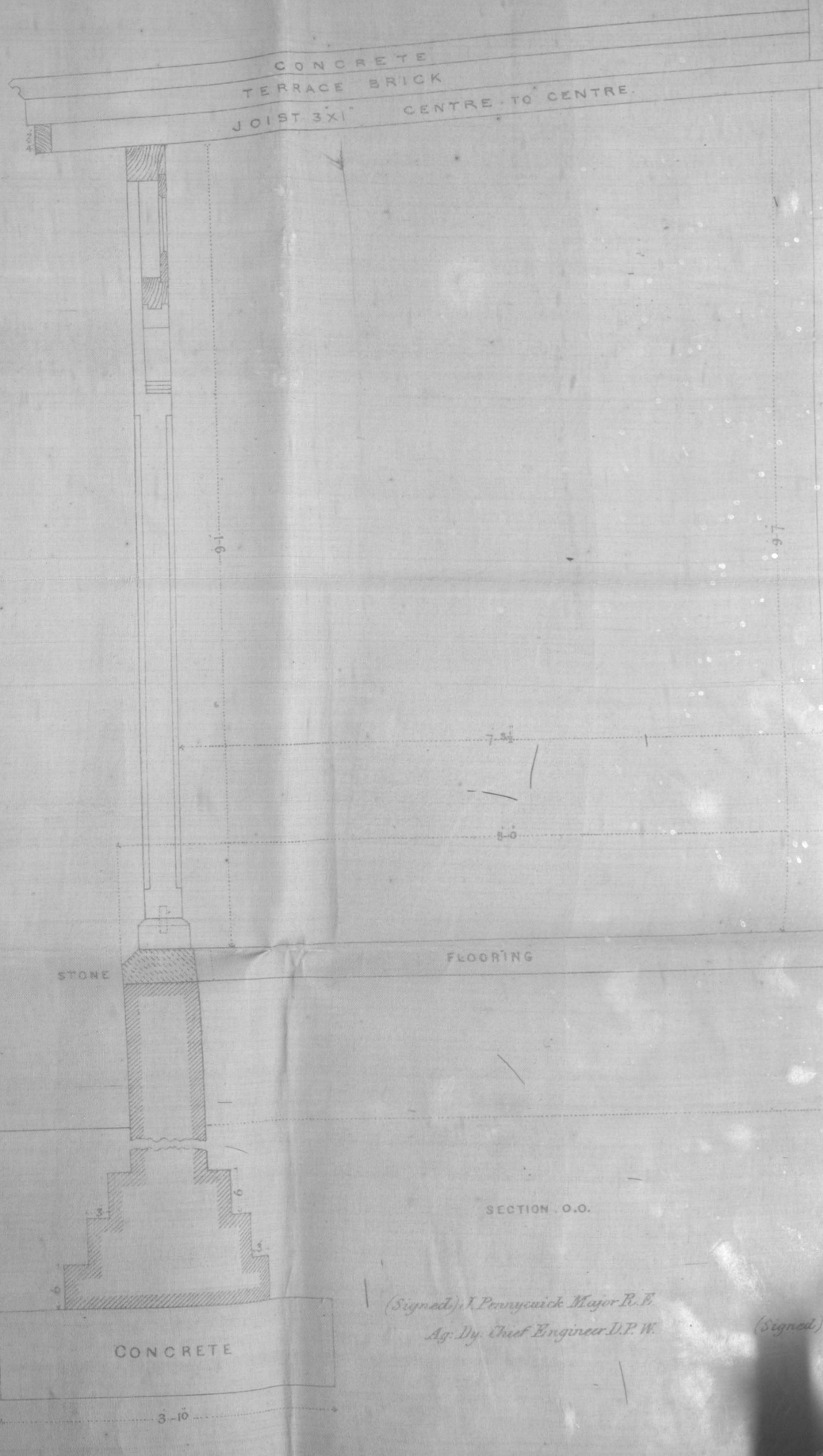


ENLARGEMENT OF WOODWORK IN WINDOWS END GABLES.

¼ REAL SIZE



ELEVATION OF TERRACED VERANDAH



SECTION O.O.

Supt and Manager
Govt Litho Press, Chepauk Madras 1879.

(Signed) J. Pennycuick Major R.E.
Ag: Dy: Chief Engineer U.P.W.

(Signed)

ROADS AND BUILDINGS.

P1 2294/27

No. 226

CONSULTING ARCHITECT'S OFFICE,
Chepauk, 30th July 1879.

FROM

THE CONSULTING ARCHITECT TO GOVERNMENT,

TO

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

SIR,

G.O. No. 3929 W. dt. the 9th October 1879.

I have the honor to forward herewith 9 Drawings & Specification and Estimate of the Designs for Sub Judges and District Munsifs Courthouses.

In elaborating the details I found it necessary to make minor alterations in the General plans.

I shall feel obliged if you will inform me whether the alternative plans for terraced roofed buildings forwarded to you with my No. 201 dated the 10th of August last are to be treated in a similar manner.

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

R. Chisholm

Consg. Architect to Govt.

G.O. No. 3929 W-9-10-78 Dtd 6-9-79.
Plans Recd 1-9-79.

P.W.D.
31 JUL 79
No. 7

ROADS AND BUILDINGS.

From

The Consulting Architect
to Government,

To

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

G.O. 6th Sept 79 No. 2294 W

No. 226

Dated 30th July 1879

Received

No. of Enclosures. 10 —

Forwards plans, Specification and Estimate for sub Judges and District Munsifs Court houses.

31

Rec'd 4-9-79.
Cir 3-9-79. Dtd 4-9-79.
Copy 28-5-

2294/28

Specification of work to be performed in constructing a Court house for a sub-Judge or District Munsif according to standard Design signed by the Consg. Archt. July 1879

Ordinary Labour.

Excavating — Excavate the trenches to the full depths shown on the drawing or to such depths as the Officer in charge of the work may direct.

Slips — Clear away all slips which may occur during the progress of the work, and, if necessary, shore the sides in a manner to be approved by the Officer in immediate charge of the work.

Baling — In the event of wet foundations, bale the water from an excavation on the exterior of the site of the building. The Officer in charge will fix the number of balers to be employed. They will be paid for extra at a daily rate to be agreed on with the petty Contractor.

Filling in — On receiving an order from the Officer in charge in writing, fill in the sides of the

completed masonry in layers of not greater thickness than 12" of material at a time. Well water and ram with approved beaters each layer until the whole is brought up to the level of the ground.

Flooring foundation — Fill in layers of 6 inches earth or sand to within 4 inches of the floor level, immediately over this and under the floor, ram three inches of broken brick rubbish to form a foundation for the flooring.

Scaffolding — Erect, maintain, and dismantle (under orders) all necessary scaffolding & centring. The scaffolding will consist of vacuarina upright cross braced with pieces of palm tree and bamboo strongly bound together by coir rope.

Clearing away on Completion. On completion of the work, clear away all rubbish which may have accumulated during the progress of the work, and all implements, machinery and materials used during its construction. Remove stains of whitewash or lime from woodwork. Oil and render efficient all door furniture and fastenings, and other moveable fixtures, and deliver the works up in a sound, neat and workmanlike condition.

Stone Mason

Provide and lay on even beds No 30 stones under the posts of verandahs with clean wrought mortice holes for the posts.

Provide and lay on even beds No 18 stones under beams. Dress all bed stones two lines generally. Where stone can be dressed and put in the work at reasonable rates provide and lay a stone curbing to the verandah and along the top of the plinth by quoins and upstarts also protect angles of the building as shown on the Elevation. The capping to the plinth will be splayed.

Provide and lay steps 6" thick as shown on the plan. Each stone to be tailed in not less than 3 inches.

Ironmonger

Provide and fix in the lower openings of the record room No 2 sets of iron barred gratings and fix the same into the wooden frame with countersunk screws.

Provide and fix No 6 sets of iron barred gratings for the property room.

Provide and supply to carpenters all necessary straps bolts nails screws and whatever other Ironwork may be necessary for the due and substantial completion of the building.

Provide all requisite door furniture in (specify whether of brass or iron)

Bricklayer

Concrete.— After the trenches have been opened to the full depths determined by the Officer in charge of the work, well water and ram the bottom to receive the concrete. Lay and ram in two layers twelve inches of Concrete, Composed as follows. Two parts broken brick (broken to pass through a one and a half inch ring) one part gravel, one part sharp river sand, and one part lime.

Footing Courses.— Carry up the foundations according to the detailed drawing.

Superstructure.— Build the walls one and a half brick thick splay all angles of doors and windows, leave openings for doors and windows of the sizes and dimensions shewn on the drawings, fix all nogs and other minor fastenings for the after reception of the door frames &c.

Lay bricks in English bond alternate courses of headers and stretchers, using king or queen closers only where necessary. Keep courses truly level worked to true eighth inch mortar joints, horizontal and vertical.

Segmental Arches.— Build segmental Arches over all openings of rubbed bricks breaking bond, and twelve inches deep on face at crown set flush with face of wall. On the exterior of all

arches lay a 1½" tile projecting 2" as a weather course.

Defects to be made good.— After the roofing & fixtures are completed, make good all defects to the masonry caused by the execution of other works. Plug all putlog holes and remove any bad face bricks marked by the Officer in charge of the work, and reinsert sound bricks in their places.

Pointing.— Rake out the exterior joints of all masonry work to the depth of half an inch; well wash the surface and point with flush pointing. The mortar should be toned to harmonize with the color of the brick by the addition of red ochre.

Plasterer

Plaster the whole of the interior with 2 coats of plaster. In the record tower, lath & plaster under the joists to form a ceiling for the protection of the woodwork in case of fire. It would be advisable to tint the final coat. The following will be found pleasing. Around the openings on the Cornice & toned white composed of

60 parts Chinam

½ " yellow ochre.

and on all blank surfaces either toned buff or Grey

the former composed of

10 parts Chinam

1 " yellow ochre

and the latter of

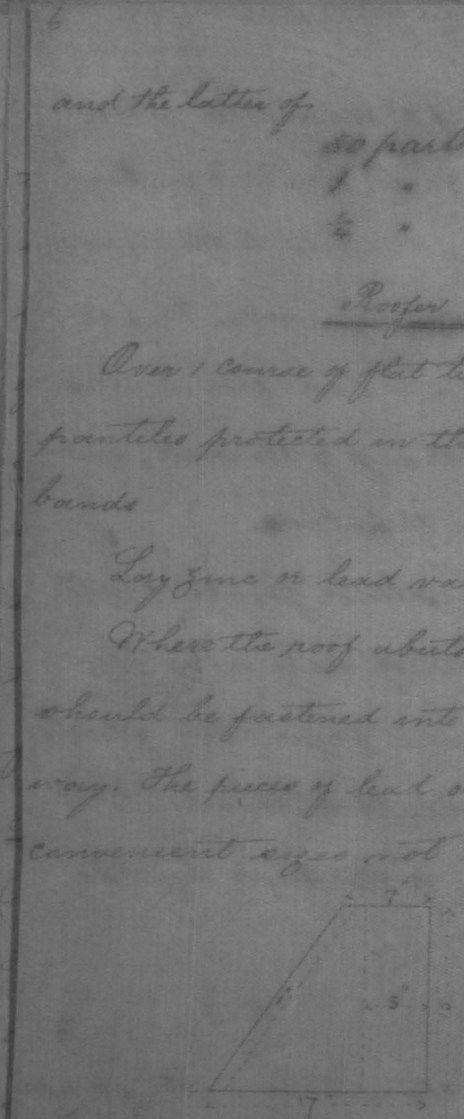
50 parts Chunam
1 " Yellow ochre
½ " black

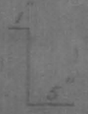
Roofs

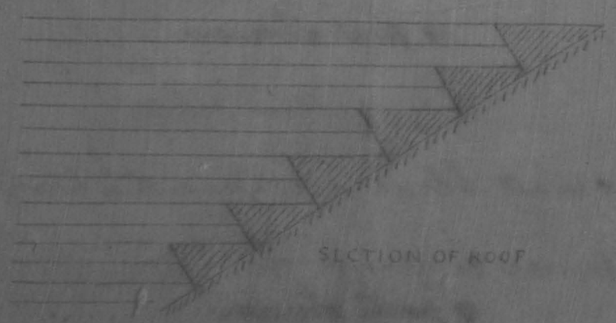
Over 1 course of flat tiles lay a roof of well burnt pantiles protected in the usual way by chunam bands

Lay Zinc or lead valleys.

Where the roof abuts on walls lead flashing should be fastened into the courses in the usual way. The pieces of lead or zinc should be cut in convenient sizes not larger than



these should be bent up  on the lines of the dots. The joints should be parted out to the full depth of one inch and the flashing inserted. Each sheet should lap 2 inches. When finished the flashing should present this appearance



2256 (a)

Flooring.— After the surface has been brought up to the proper level, lay a course of well burnt 6" square tiles.

Terracing.— Terrace the side Varandahs with 1 course tiles on edge, 1 course flat tiles over 6" of Jelly rammed to 4" plastered on the top. Terrace the floors of the record tower with 1 course tiles on edge two courses flat tiles over 9 inches of Jelly beaten to 6"

Carpenter

Frame all the trusses in a sound workmanlike manner and let each truss be weighted to double the Permanent strain by loading with pig iron before being placed in position.

Provide frame and fix all the necessary doors, windows, Verandah posts and external carved work in sound well seasoned timber free from defects.

Provide frame and fit up the necessary benches and drawers in the lost property room.

Painter

Paint all doors and windows & exposed woodwork with three coats of Carson's oak Color, and the woodwork of the roof with 3 coats of wood oil.

Workmanship & Materials

The wood will be teak well seasoned and free from knots or other defects, clean wrought & finished with European tools. All mortices, mitres & joints

of every description will be carefully cut & executed in a clean and workmanlike manner.

The iron will be that known as Swedish, clean wrought and welded hot with an approved lap. All bolts will be provided with washers twice the diameter of the nut or head.

The Concrete will be composed of one part broken brick, one part sand, one part gravel and one part lime well mixed and thrown in a semi fluid state. The bricks will be table moulded cast from moulds ... inches by ... inches by ... inches in age, 5 percent of bats will be allowed. The mortar will be composed of 1 part shell lime and 2 parts river sand well pounded and mixed fresh before using.

R Chisholm.

Comp Asstt to Govt

D2916/18

Estimate for constructing a Court-house for a Sub judge or District Munsif

Detailed quantities

Description of work	No	L	B	D	Contents	Total
Excavation for foundations						
Court walls		130	04	6	4	6
Record tower walls		50	04	6	4	6
Spiral		11	011	04	6	625
Gomastahs & Head Clerks room and passage front, rear & end walls		132	6	4	3	4 - 6
Do partitions	2	15	04	3	4	4 - 6
Retiring room front rear & end walls		50	6	4	3	4 - 6
Property room - rear & end walls		55	6	4	3	4 - 6
Verandah walls		197	53	10	4	6
Steps	2	16	04	02	0	
Do	2	10	04	02	0	
					Cubic feet	13.213
					Cubic yards	490

Concrete 12" thick

Excavation - Cft 12,797 ÷ 9 × 2 =							2844
Steps	2	16	04	00	6		
Do	2	10	04	00	6		104
						Cubic feet	2948

Brickwork on foundations

footings							
Court walls		130	02	1	6		
Record tower		50	6	2	1	6	684

			Brought forward		654
Spiral			7 - 09 - 01 - 6		122
Gomastahs & Head Clerks rooms & passage					
front rear and end walls			135 - 61 - 31 - 6		
partitions	2	17 - 02 - 01 - 6			
Retiring room front rear & end walls			55 - 62 - 31 - 6		966
Property room rear and walls			57 - 62 - 31 - 6		
Verandah walls			205 - 101 - 101 - 6		666
Above footings to ground level					
Court walls			130 - 01 - 62 - 0		
Record tower			53 - 61 - 62 - 0		66
Spiral			8 - 08 - 02 - 0		128
Gomastahs & Head Clerks rooms & passage					
front rear and end walls			135 - 61 - 32 - 0		
partitions	2	18 - 01 - 32 - 0			
Retiring room front rear & end walls			56 - 61 - 32 - 0		716
Property room rear and end walls			58 - 61 - 32 - 0		
Extra thickness for plinth			141 - 90 - 32 - 0		71
Verandah walls			208 - 100 - 102 - 0		348
Steps	2	16 - 04 - 01 - 6			
do	2	11 - 04 - 01 - 6			312
			Cubic ft		4448

Brickwork in basement

Court walls		130 - 01 - 62 - 0		
Record tower		53 - 61 - 62 - 0		301
Spiral		8 - 08 - 02 - 0		128
Gomastahs and Head Clerks rooms & passage				
front, rear and end walls		135 - 61 - 32 - 0		
do do partitions	2	18 - 01 - 32 - 0		570
Retiring room front rear & end walls		56 - 61 - 32 - 0		
Property room rear and end walls		58 - 61 - 31 - 0		73
Extra thickness for plinth		90 - 32 - 32 - 0		30
do do		62 - 62 - 31 - 0		11
Verandah walls		205 - 102 - 102 - 0		348
Carried over cubic ft				1731

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				1731
Steps	2	16 - 04 - 00 - 6		64
do	2	4 - 03 - 00 - 6		42
do	2	12 - 02 - 00 - 6		24
do	2	10 - 01 - 00 - 6		10
do	2	10 - 04 - 00 - 6		40
do	2	8 - 03 - 00 - 6		24
do	2	6 - 02 - 00 - 6		12
do	2	4 - 01 - 00 - 6		4
				1951
Deductions				
Stone under posts and trusses as per details				34
Stone in steps and capping to plinth				248
				282
			Cubic feet	1669

Brickwork in superstructure

Court walls		130 - 01 - 62 0 - 0		3900
do Gables	2	23 - 61 - 63 - 11		276
Record Tower walls		53 - 61 - 62 - 6		2608
do Gables	2	15 - 61 - 62 - 6		113
Spiral Octagonal		53 - 0 area 36 - 6		1935
do upper portion		40 - 7 area 5 - 0		203
Gomastahs & Head Clerks room and passage front, rear, & end walls		135 - 61 - 314 - 0		2371
do do partetions	2	18 - 01 - 314 - 0		630
do Gables	3	19 - 31 - 33 - 2½		232
Retiring room front rear & end walls		56 - 61 - 314 - 0		989
do Gables	1	19 - 31 - 33 - 2½		77
Property room rear and end walls		58 - 61 - 310 - 0		731
do Gable	1	15 - 31 - 32 - 6½		48
do Step	1	4 - 01 - 00 - 6		2
				14.116
Deductions				
Doors in Court room	10	4 - 01 - 68 - 0		480
			Carried over	480 14.115

		Brought forward			14112
Hd Clerk Gymastahs room 2½ Doors	11	4 - 01	- 3 8 - 0	440	
Archways in passage	2	7 - 01	- 3 8 - 0	140	
Record tower door	1	2 - 9	1 - 6 6 - 6	27	
Spiral doors	3	2 - 01	- 1 5 - 6	32	
do semi circular portion	1½	3 - 1 area	1 - 0	5	
Windows for Hd Clerks & reading room	4	2 - 01	- 3 6 - 6	65	
do for Record Tower	4	3 - 01	- 6 4 - 0	72	
do upper Do	4	1 - 6	1 - 6 3 - 6	32	
do do semi cir: portion	2	1 - 9 area	1 - 6	5	
do for property room	6	2 - 01	- 3 5 - 0	75	
Court upper lights	14	2 - 01	- 6 5 - 0	210	
Gymastahs and Clerks room do	8	5 - 01	- 3 2 - ½	106	
Spiral void - 6ft diar		28 - 3 area	36 - 6	1031	
do upper portion		15 - 10 area	5 - 0	79	
Segmental archwork as per details				236	
Semi: cir: do do				63	
				3099	
			Cubic feet	11,016	

Stone under posts and trusses

under posts	30	1 - 01	- 0 0 - 5	13
under trusses	6	2 - 01	- 6 0 - 5	7
do	12	2½ - 01	- 3 0 - 5	13
			Cubic feet	34

Stonework (if easily procurable)

steps	2	65 - 6	1 - 0 0 - 6	136
do	2	41 - 6	1 - 0 0 - 6	
do	1	4 - 2	1 - 3 0 - 6	
Capping to plinth		322 - 0 0	- 1 0 0 - 5	112
			Cubic feet	248

N.B. Stone grooves not included.

Segmental archwork

Over Court doors	10	6 - 01	- 6 1 - 0	75
			Carried over	75

		Brought forward	Cft	75
Hd Clerk Gymastahs room 2½ do	11	6 - 01	- 3 1 - 0	69
Archways in passage	2	9 - 01	- 3 1 - 0	23
Record Tower door	1	3 - 9	1 - 6 1 - 0	6
Over windows for Head Clerks and reading room	4	3 - 01	- 3 1 - 0	15
do Record tower	4	4 - 3 0	- 1 3 1 - 0	13
do property room	2	3 - 01	- 3 1 - 0	5
Court upper lights	6	3 - 01	- 6 1 - 0	27
			Cub: feet	236

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Same cir: Archwork

Spiral doors	3	4 - 9	1 - 0 1 - 0	14
Record tower upper windows	4	4 - 3 0	- 1 0 1 - 0	13
do above do front	1	14 - 3	1 - 6 1 - 0	21
do do side	1	10 - 3	1 - 6 1 - 0	15
			Cub: ft.	63

Court Filling in basement

Court	1	40 - 0	22 - 0 1 - 6	1320
Hd Clerk Gymastahs room 2½		73 - 0	18 - 0 1 - 6	1971
Court	1	10 - 6	13 - 6 1 - 6	273
Property room	1	21 - 0	14 - 0 0 - 6	147
Verandahs		121 - 4	0 - 2 1 - 6	1486
do		86 - 1	7 - 2 1 - 6	925
			Cubic ft.	6122
			Cubic yds	227

Teakwood

Court

3 trusses 22ft span	Tie beams	3	25 - 0 0 - 6 0 - 8	25
	Principal rafters	6	14 - 6 0 - 5 0 - 6	18
	Struts	6	7 - 0 0 - 4 0 - 5	6
	Purlins	2	47 - 0 0 - 6 0 - 7	27
			Carried over Cub: ft	76

		Brought forward Cub. ft				76
Purlins over wall	2	47	00	40	4	10
Ridge	1	47	00	30	8	5
Common rafters	64	16	8½	30	4	90
Barge boards	4	12	6	20	9¾	10
do	4	2	0	2	9¾	
do	2	13	6	20	7	3
do	4	5	30	21	6	5
do carved	4	2	6	11	9	1
Finial	2	7	00	40	4	2
do upper portion	2	1	31	01	0	3
do lower do	2	1	1½	6	6	1
Eaves boarding	2	47	00	¾	0	2
Clerk Gymnasium & rooms						
Tie beam	4	20	6	40	6	14
4 Trusses 15 ft span Principal rafters	8	11	90	40	5	13
Struts	8	5	6	40	4	5
Purlins	2	84	00	50	6	35
do over wall	2	84	00	40	4	19
Ridge	1	84	00	30	8	14
Common rafters	114	4	00	30	4	33
Barge boards	4	¼	6	20	9	8
do	4	2	00	20	9	
do	2	10	90	20	6	2
do	4	4	00	21	3	3
do	4	1	30	20	3	1
do	4	0	10½	20	3	
Finials	2	6	00	3½	0	1
do upper portion	2	2	30	10½	0	3
do lower portion	2	2	00	10	0	3
Eaves boarding	2	81	30	¾	0	4
Property room						
Tie beams	2	16	6	40	5	5
2 trusses 14 ft span Principal rafters	4	9	30	40	4	4
Struts	4	2	6	30	4	2
Purlins	2	25	00	40	5	7
do over wall	2	25	00	40	4	6
Ridge	1	25	00	30	7	4
Carried over Cub. feet						498

		Brought forward Cub. ft				498
Common rafters	34	11	80	30	3	25
Barge boards	2	12	00	20	8	3
do	4	0	40	20	8	
do	1	8	00	20	4	1
do	2	2	00	20	7½	1
do	1	2	60	20	3	1
Eaves boarding		28	00	¾	0	1
Record tower						
Joists	27	10	16	60	40	7 60
Rafters		28	11	60	30	5 41
Collar pieces		10	8	60	30	5 42
Ridge		1	19	60	30	7 3
Wall plates		2	19	60	30	3 2
Barge boards		4	12	30	20	7 5
do		2	1	20	20	1
do		4	4	00	22	½ 6
Finials		2	4	00	40	4 1
do upper portion		2	3	1½	0	9 0 4
do lower do		2	1	1½	0	7½ 1
Eaves boards		2	19	60	¾	0 5 1
Verandahs						
Posts		4	10	30	50	5
do		14	7	100	50	5 44
do		12	8	60	50	5
do		30	0	70	70	6 5
Bases to do			206	00	50	5 36
Breastsummers		47	2	90	3½	0 3½ 11
Struts		57	0	90	30	3½ 3
Cleats		57	0	50	50	10 7
Knobs						6
plank	½	47	2	01	60	1
Rafters		47	11	30	30	4
small rafters		88	6	50	30	4 91
Hip rafters		8	14	00	40	5 16
Ridge over entrances		2	11	00	30	5 2
Wall plates			96	00	3½	0 5 12
Pieces to secure rafters to Breastsum		132	1	30	20	1½ 5
do do uprights		66	0	100	30	3 3
do		62	9	60	30	4
posts		7	6	00	30	4 53
do						
Carried over Cubic feet						949

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	Brought forward C. ft			949	
Eaves bounding for joists	2	33	00 - 20 - 4		4
Do for rafters		107	00 - 3/40 - 5		3
Barge board for entrances	4	10	00 - 1/20 - 7		21
Do	2	4	00 - 22 - 0		3
Do Collar pieces	2	8	60 - 30 - 4		14
Do strut	4	6	00 - 31 - 6		9
Turret					
Sill	8	2	60 - 11 - 0		15
uprights	8	0	80 - 94 - 6		15
Breastsummers	8	2	30 - 80 - 6		6
Do above	8	3	31 - 61 - 0		39
Brackets	16	0	80 - 60 - 9		43
Venetians	40	1	30 - 11 - 6		6
do	32	0	40 - 3/4 1 - 3		1
Bay windows					
Brackets	8	3	00 - 30 - 7		4
Knobs	8	0	7/20 - 40 - 4		1
Joists	8	3	00 - 30 - 3	}	
Longl pieces	4	8	00 - 30 - 3	}	4
Uprights	8	0	30 - 37 - 2	}	
do	4	0	30 - 38 - 9	}	6
Breastsummers	4	3	00 - 30 - 3		
do	2	8	00 - 30 - 3	}	
do	11	2	00 - 30 - 3	}	3
do	2	8	00 - 30 - 3	}	
Brackets	20	0	60 - 31 - 3		3
Rail	2	8	00 - 30 - 3	}	
Do	8	2	00 - 30 - 3	}	2
Battens for panel		100	00 - 1 0 - 2		1
Frame	4	4	00 - 1/2 0 - 2/2	}	
do	12	1	60 - 1/2 0 - 2/2	}	2
do	20	1	10/2 0 - 1/2 0 - 2/2	}	
Rafters	6	4	00 - 20 - 2		1
Hip rafters	4	5	00 - 20 - 2/2		1
small rafters	8	2	6/8 - 20 - 2		1
Planking floor	2	8	02 - 02 - 1		3
Do for roof	28	10	60 - 120 - 6		6
Carried over Cub. ft				1102	

Brought forward Cubic ft				1102
Roll cap	4	4 - 6	1 - 2 - 2/2	1
Cubic feet				1103

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Venetian and panel doors with frames

	21	4 - 0	8 - 0	672 Sq ft

Batten door to record room with frames

	1	2 - 9	6 - 6	18 Sq ft

Venetian windows with frames

Clerks and petering room	4	2 - 0	6 - 6	52 Sq ft

Windows with iron bars and glazed shutters including frames

Record room	lower windows	2	3 - 0	4 - 0	24
Property room	windows	6	2 - 0	5 - 0	60
					84 Sq ft

Windows with frames & glazed shutters

Record room	upper windows	2	3 - 0	4 - 0	24
do	do	4	1 - 6	4 - 3	26
					50 Sq ft

Upper lights with glazed shutters & frames

Court	14	2 - 0	5 - 0	140
Clerks, Gamastahs room &c	6	5 - 0	2 - 1/2	85
				225 Sq ft

Wrought Ironwork in trusses &c

1/2" diaz King rods for 22 ft trusses	3	9 - 9	29.34 × 4.09	119.63
1/2" hexnuts and bolt heads for do		9	4 × 2.14	19.26
3" × 3" × 1/2" washers for do		9	1 × 1.32	2.88
1 1/2 × 3/8" straps for do	6	3 - 0	18 × 1.87	33.66
1 1/2 × 1/2" bearing plates do	6	0 - 7 3/4	3 - 10 1/2 × 2.52	9.68
5/8" hexnuts for do		12	× 2.67	32.04
Carried over				217.15

	Brought forward				217·15
1" diar king rods for 18 ft trusses	4	8	1232	1×2·62	93·84
1" hex nuts & bolt heads for do	12			1×1·10	13·20
3"×3"×⅞" washers for do	12			1×0·32	3·84
1½"×⅝" straps for do	8	2	7·20	8×1·87	38·64
1½"×½" bearing plates for do	8	1	1½·4	8×2·53	11·26
⅝" hex nuts for do	16			1×·267	4·27
⅞" diar king rods for 4 ft trusses	2	6	3·12	6×2·11	25·12
⅞" hex nuts and bolt heads for do	6			1×·73	4·38
3"×3"×⅞" washers for do	6			1×0·32	1·92
1½"×⅜" straps for do	4	2	3·9	8×1·07	16·05
1½"×½" bearing plates for do	4	0	1½·3	8×2·50	5·62
⅝" hex nuts for do	8			1×·267	2·13
⅝" bolts for verandah wall plates	22	2	0·44	6×1·47	64·68
⅝" hex nuts and bolt heads for do	44			1×·43	18·92
1" bolts for securing bay windows upright to wall	4	1	6·6	8×2·62	69·72
1" hex nuts and bolt heads for do	16			1×1·10	17·60
⅝" bolts to secure verandah rafters to breadsummers	32	9	6·66	8×1·64	10·82
⅝" hex nut and bolt head	26			1×·17	4·28
					£ 36041
				Say £	561

Flooring with square pavement tiles

Court	48·0	22·0	1056
Hd Clerks Gomastahs room &c	73·0	18·0	1314
Property room	21·0	14·0	294
Record do	15·6	12·6	192
Verandahs	107·6	2·0	215
do	29·6	4·0	118
do	72·0	4·0	288
Door pieces	2 4·0	1·6	6
		Carried into sq ft	4532

	Brought forward Sq ft			4532
Door pieces	11	4·0	1·3	55
do	1	2·9	1·6	4
do	1	2·0	1·0	2
Archway	2	7·0	1·3	18
				4611
Deduct spiral	53·0 area			53
			Square ft	4558
			squares	45·58

Tiling with flat and part tiles including peepers, nails and Chunam bands complete

Court	46·6	34·6	1604
Hd Clerks Gomastahs room &c	81·0	29·0	2349
Property room	23·9	24·0	570
Record tower	19·6	24·0	468
Verandahs	120·3	11·6	1417
		Square ft	6408
		squares	64

Terracing

Verandahs	89·6	9·0	806
Record tower	2 4·0	4·0	392
		Square ft	1198
		squares	12

Terracing roof of turret

	12·0	9·6	114 sq ft
		squares	1·14

Plastering interior

Court		124 - 0	20 - 0	2480
Do Gables	2	23 - 6	3 - 11	184
Hd Clerks Gamastahs room &c		290 - 0	14 - 0	4060
do do Gables	8	19 - 3	3 - 2½	494
Property room		70 - 0	10 - 0	700
Do Gables	2	15 - 3	2 - 6½	78
Record Tower		54 - 0	31 - 0	1674
Gables	2	15 - 3	2 - 6	75
Spirab		18 - 10	41 - 6	782
Door jamb	10	20 - 0	1 - 6	300
do	11	20 - 0	1 - 3	275
do	1	15 - 9	1 - 6	24
do	3	14 - 0	1 - 0	42
Window jamb	4	17 - 0	1 - 3	85
do	2	14 - 0	1 - 6	42
do	2	14 - 0	0 - 10	23
do	4	11 - 3	2 - 10	37
do	4	12 - 0	1 - 2	67
do	2	14 - 0	1 - 3	35
Upper light jamb	6	14 - 3	1 - 6	126
do	5	12 - 0	1 - 6	240
do	8	7 - 3	2 - 0	
do	3	24 - 6	1 - 3	1237
Archways do				1187 3

Deductions

Doors	26	4 - 0	8 - 0	832
do	1	2 - 9	6 - 6	18
do	6	2 - 0	5 - 6	66
do	3	3 - 1 area		9
do	4	2 - 0	6 - 6	52
Windows	4	3 - 0	4 - 0	48
do	4	1 - 6	3 - 6	21
do	2	1 - 9 area		4
do	6	2 - 0	5 - 0	60
do				

Carried over Square ft 1110 1187 3

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Brought forward Sq. ft 1110 1187 3

Upper lights	14	2 - 0	5 - 0	140
do	8	5 - 0	2 - 1½	85
Archways on passage	2	7 - 0	8 - 0	112
				1447
			Square ft	1042 6
			Squares	104.26

Pointing exterior

Court		95 - 0	20 - 0	1900
do sides of end Gables	4	7 - 0	2 - 6	70
Gables	2	25 - 0	4 - 2	208
Head Clerk Gamastahs room &c		180 - 6	14 - 0	2527
Do Gables	2	20 - 6	3 - 5	140
Do sides of Gable	2	6 - 0	3 - 0	36
Property room	1	61 - 0	10 - 0	610
Gable	1	16 - 6	2 - 9	45
Record tower		58 - 0	32 - 0	1856
Do Gable	2	16 - 6	2 - 9	91
Turret		19 - 10	35 - 0	694
Do upper portion		26 - 6	2 - 0	53
Do Do		24 - 0	4 - 6	108
Basement all round		308 - 0	2 - 0	616
Do for property room		43 - 0	1 - 0	43
				8997

Deductions

Doors	16	4 - 0	8 - 0	512
do	1	2 - 9	6 - 6	18
do	4	2 - 0	6 - 6	52
Windows	4	3 - 0	4 - 0	48
do	4	1 - 6	3 - 6	21
do	2	1 - 9 area		4
do				

Carried over 655 8997

	Brought forward		sq. ft.	655	2997
Windows	6	2 - 0	5 - 0	60	
upper lights	14	2 - 0	5 - 0	140	
do	8	5 - 0	2 - 1½	85	
Archways in passage	2	7 - 0	8 - 0	112	
				1052	
			Square feet	7945	
			squares	79.45	

Lath and plaster

Ricord tower below joists	2	13 - 6	13 - 6	365	
do Couples	1	13 - 6	14 - 9	199	
			Square feet	564	
			squares	5.64	

Painting doors and windows & exposed wood work of roof &c with 3 coats of Carson's oak color.

Venetian and panel doors	3	21	4 - 0	8 - 0	2016
Batten door	2	1	2 - 9	6 - 6	36
Venetian windows	3	4	2 - 0	6 - 6	156
Windows with iron bars and glazed shutters	3	2	3 - 0	4 - 0	72
do	3	6	2 - 0	5 - 0	180
Windows with glazed shutters	2	2	3 - 0	4 - 0	48
do	2	4	1 - 6	4 - 3	51
Upper lights	2	4	2 - 0	5 - 0	280
do	3	4	5 - 0	2 - 1½	170
Barge boards		4	17 - 6	1 - 0	70
do		4	2 - 0	0 - 9	6
do		2	15 - 6	1 - 6	
do		4	9 - 3	1 - 6½	79
			Carried over	6ft	3157

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Brought forward		sq ft	3157	
Barge boards	4	2 - 6	1 - 9	18
Finials	2	1 - 6	10 - 6	32
Eaves boarding	2	47 - 0	0 - 6	47
Barge boards	4	14 - 6	1 - 0	58
do	4	2 - 0	0 - 9	6
do	2	10 - 9	1 - 4	29
do	4	4 - 0	1 - 3	20
do	4	1 - 3	0 - 7	
do	4	0 - 10½	0 - 7	5
Finials	2	1 - 4	9 - 6	25
Eaves boarding	2	31 - 0	0 - 6	31
Barge boards	2	12 - 0	0 - 10	20
do	8	0 - 8	0 - 4	2
do	1	8 - 0	0 - 8	6
do	2	2 - 6	0 - 7	
do	1	2 - 6	0 - 7	4
Eaves boarding	1	28 - 0	0 - 5	12
Barge boards	4	12 - 3	0 - 9	37
do	4	1 - 2	0 - 7	3
do	4	4 - 0	2 - 0	32
Finials	2	1 - 6	8 - 0	24
Eaves boarding	2	19 - 6	0 - 6	20
Posts	4	10 - 1	1 - 8	
do	14	7 - 8	1 - 8	413
do	12	8 - 4	1 - 8	
Bases & do	30	2 - 4	0 - 6	35
Breastsummers.		216 - 0	1 - 3	258
Struts	47	2 - 9	1 - 2	151
Cleats	51	0 - 9½	0 - 9	30
Knobs	51	1 - 8	0 - 6	43
planks	47	2 - 0	1 - 6	141
pieces to secure rafters	132	1 - 3	0 - 6	83
do uprights	66	0 - 10	0 - 9	41
Eaves boarding	2	32 - 0	0 - 6	32
do		107 - 0	0 - 6	54
Barge board	4	10 - 0	0 - 8½	29
do	2	4 - 0	2 - 0	16
do	2	8 - 6	1 - 2	20
		Carried over		4982

	Brought forward				49	62
Struts	4	6 - 0	1 - 6		36	
Turret sill		18 - 0	2 - 6		45	
uprights	8	4 - 4	2 - 4		81	
Breastsummers		18 - 0	1 - 4		24	
do above		24 - 0	1 - 9		42	
Brackets	16	9 - 0	0 - 8		96	
Venetians	40	1 - 3	3 - 0		150	
do	32	1 - 3	0 - 7		23	
Brackets	8	3 - 0	1 - 3		30	
Knobs	8	0 - 6	1 - 3		5	
Joists	8	2 - 0	0 - 9		12	
Longitudinal pieces	4	8 - 0	0 - 9		24	
uprights	8	1 - 0	7 - 3		58	
do	4	0 - 9	8 - 9		26	
Breastsummers	4	2 - 0	0 - 9		6	
do	2	8 - 0	0 - 9		12	
do	4	2 - 0	1 - 0		8	
do	2	8 - 0	1 - 0		16	
Brackets	20	0 - 8	1 - 3		17	
Rail	2	8 - 0				
do	1	2 - 0	0 - 8		21	
Panels	2 x	2 3 - 9	1 - 6			
do	2 x	7 1 - 6	1 - 6		59	
Roof	2 x	2 10 - 9	8 - 0		344	
			Squarefeet		6117	
			Squares		61.17	

Painting wood work of roof with 3 coats of wood oil

Tie beams	3	25 - 0	2 - 4	175	
Principal rafters	6	14 - 6	1 - 10	160	
Struts	6	7 - 0	1 - 6	63	
Purlins	2	46 - 0	1 - 8	153	
do	2	46 - 0	1 - 0	92	
Ridge	1	46 - 0	1 - 7	73	
		Carried over sft		716	

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	Brought forward sqyare ft			716
Common rafters	64	16 - 10½	0 - 11	990
Tie beams	4	20 - 6	1 - 8	137
Principal rafters	8	11 - 9	1 - 2	110
Struts	8	5 - 6	1 - 4	59
Purlins	2	81 - 0	1 - 5	230
do	2	81 - 0	1 - 0	162
Ridge	1	81 - 0	1 - 7	128
Common rafters	114	4 - 0	0 - 11	1463
Tie beams	2	16 - 6	1 - 6	60
Principal rafters	4	9 - 3	1 - 0	37
Struts	4	4 - 6	1 - 2	21
Purlins	2	23 - 9	1 - 2	55
do	2	23 - 9	1 - 0	48
Ridge	1	23 - 9	1 - 5	34
Common rafters	34	11 - 8	0 - 9	298
Joists	10	13 - 6	1 - 6	405
Rafters	28	11 - 6	1 - 1	329
Collar pieces	10	8 - 6	1 - 4	113
Ridge	1	19 - 6	1 - 6	28
Verandah rafters	47	11 - 3	0 - 11	1002
Small do	38	6 - 5	0 - 11	
Dip do	8	14 - 0	1 - 2	131
Ridge	2	11 - 0	1 - 1	24
wall plate		96 - 0	1 - 0	96
Verandah joists	62	9 - 6	0 - 11	578
do	7	6 - 0	0 - 11	
		Squarefeet		7264
		squares		72.64

Laying Zinc sheets & the valleys flashing-

Verandah over entrance	4	4 - 0		56
Do near spiral	1	10 - 0		10
Over property room	1	11 - 0		11
Do Record tower	1	8 - 0		8
flashing over sloped verandah	95	- 0		95
		Lfeet		180

Exterior Ornamental Mouldings
for record Tower — 48 Lft

Exterior mouldings for turret — 30 Lft

Mouldings over windows & upper lights

Property rooms Gable windows	6	
Tower windows	16	
Do upper	44	
Count upper lights	18	
Lineal ft	84	

Interior dental Cornice

Court	124	
Head Clerks room	68	
Gamastahs room	96	
Passage	64	
Retiring room	72	
Lineal ft	414	

Interior plain Cornice — Lineal ft 414

Circular Ornaments
In Court Gables — 6 in Number

Spiral stairs — 88 steps

Stone finial for turret — 1 in Number

Abstract

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Item	Rate Per	Amount
Excavation for foundation		
Concrete		
Brickwork in foundations		
Do in basement		
Do in Superstructure		
Stonework under posts and trusses		
Do in steps 42 if rarely procurable		
Segmental Archwork		
Semi-circular Do		
Earthfilling in basement		
Teakwood wrought and put up		
Venetian and panel doors with frames complete		
Batten doors Do Do		
Venetian windows with frames		
Windows with Iron bars and Glazed shutters including frames		
Windows with frames & glazed shutters		
Upper lights with frames Do		
Straight cramps trusses Do		
Flooring with 6" square pavement tiles		
Tiling with flat and pantiles teak reepers and Chunam bands		
Terracing		
Do roof of turret		
Plastering interior walls		
Pointing exterior walls		
Lath and plaster Do		

Carried over Rs

Brought forward Rs

6117	sqrs	Painting doors and windows &c with 3 coats of Carson's oak color	
7264	-	Painting woodwork of roof with 3 coats of wood-oil	
180	Lft	Laying Zinc sheets to the valleys of roof and flashing	
48	-	Exterior ornamental mouldings for Record tower	
30	-	Do for turret	
84	-	Do over windows & upper lights	
414	-	Interior dental cornice	
414	-	Do plain Do	
6	Nr	Circular ornaments over lights in Court Gables	
28	steps	Spiral stairs	
		Allow extra for finishing turret	
1	Nr	Stone finial for Do	
2	-	Allow extra for finishing Court Gables	
2	-	Do Record tower Do	
2	-	Do end Gables	
1	-	Do property room Do	
2	-	Do Court verandah Gables	
47		Do for finishing brackets for Verandah posts	
2		Do Do Bay windows	
		Fittings for property room	
		Contingencies at 5 percent	
		Total Rupees	

Consg Archt Office
Bombay 30th July 1879. Public Office
23-8-79

V. Chisholm
Consg Archt to Govt

D. P. W.

Consulting Architects Office.

G.O. 6 Septr 77 No 2294 W

Court house for a Sub Judge or District Munsiff -

Estimate.

V. Kistnaswamy.

Public Works Department

No. 2294 W

Proceedings of the Madras Government

Under date the 6th Septr 1877

Read the following -

Letter from the Consulting Architect to Govt - - - } (G.O. No. 226 d/30th July 1879)

The papers now submitted by the Consulting Architect comprise 9 drawings, Specification and Detail & Abstract Estimates for Sub Judges and District Munsiffs Court houses for which standard designs were sanctioned per G.O. No. 3929 W dated 9th October 1878.

2. The papers will be printed and circulated for the information of the Department.

3. The Consulting Architect

2296/45

to be informed that the alternative plans for terrace roofed buildings should be treated in a similar manner.

2

2nd

3/5/43

Plans

Drgs to accompany Architect's letter dated 27th ult. Third Section

Q

Asst. Sec'y

Asst Sec'y

To Insp. Engineer

Consulting Architect

Industrial Section

Asst Sec'y

Dated 24-A-39

23-8-15

No 3847

Govt. of Madras.

PUBLIC WORKS.

To

Dated

Recd

Rect.

G. O. 6 Sept 1915 No 2294

Nos. 31 - 32

Lib Judges & District
Municipal Courts
Professors, Director
Educational Journ
Asst Engineers
Sole Printers & Publ
for the information of
Dept