

LS 113  
1930.6

S P E C I F I C A T I O N

- for -

BUILDING THE BARR SMITH LIBRARY

- for -

THE UNIVERSITY OF ADELAIDE.

WOODS, BAGOT, JORY }  
                          & } FF.S.A.I.A.  
LAYBOURNE-SMITH }

Architects.

Richards Buildings,  
ADELAIDE.

MARCH, 1930.



#### PRIME COST SUMS.

4. All prime cost sums (usually marked P.C. in specification) may be expended by the Architect or Proprietor in goods to the full amount, and the Contractor shall take delivery of such goods when notified to do so, and pay the accounts for the same, rendering vouchers therefor to the Architect. Any profit on such prime cost sums shall be deemed to have been allowed for separately by the Contractor in his tender, and any unexpended portion of such prime cost sums, and also the price of any goods chosen and paid for by the Proprietor, and covered by such prime cost sums, shall be considered a debt due from the Contractor to the Proprietor.

#### PROPERTY IN PLANT AND MATERIALS, &c., BROUGHT ON SITE.

5. All plant and materials brought upon the premises by the Contractor shall, from the time at which they or any of them may be so brought, and during and until the completion of the works, or until the determination of the Contract as provided by Clause 27 hereof, which ever shall first happen, be considered as immediately attached to and belonging to such premises, and become and be the property of the Proprietor and the Contractor shall not be entitled to remove the same without the written consent of the Architect until the completion of the works, or until such determination, as the case may be, but the Proprietor is not in any way answerable for any loss or damage which may happen to or in respect of any such plant or materials, either by the same being lost or stolen or destroyed or injured by weather or any other cause.

#### COPIES OF DRAWINGS, &c.

6. The Architect will provide for use during the progress of the works, two sets of the necessary working drawings and specifications; one set to be at all times available upon the work, and the other to be for use in the Contractor's workshop, or wherever else required for the purposes of the work.

#### CONTRACTOR TO SET OUT WORKS.

7. The Contractor shall, after the Architect has given the starting points, levels, and boundaries, set out accurately at his own expense all the works comprised in this Contract, agreeably to the drawings and specification, and shall be held responsible for their being so set out and executed accordingly, and shall supply correct setting out rods, and leave the same on the building for the use of the Architect and his representative and the foreman of the works.

#### COMPLIANCE WITH LOCAL ACTS AND REGULATIONS.

8. The Contractor shall comply in every particular with the provisions of all Acts of Parliament where applicable, and with all rules, regulations, and by-laws made thereunder respectively, and with all local and municipal regulations and by-laws, and shall give all notices required to be given by such Acts, regulations or by-laws, and shall pay all fees and bear all costs connected therewith.

#### SUPERINTENDENCE OF WORK.

9. The Contractor shall commence, proceed with, and completely finish the whole of the works under the superintendence of the Architect, and shall permit him, and all persons authorized or appointed by him, to visit and inspect the works or any part thereof at all times and places during the progress of the same, and shall provide sufficient safe and proper facilities for such inspection.

#### TIME OF COMPLETION. LIQUIDATED DAMAGES.

10. The works included in the Contract shall be completed and delivered up on or before the day of 192 or within the extended or enlarged time hereinafter mentioned; and if the Contractor fail to complete and deliver them up to the Proprietor by that day or time he shall pay to the Proprietor the sum of (£ ) for each and every during which the work may remain uncompleted or not delivered up beyond the day or time aforesaid (as the case may be), and the Proprietor may deduct such sum from any money due from him to the Contractor, or obtain payment of it in any way he may think fit, and such payment shall be made as and for ascertained liquidated damages for such default and not by way of penalty.

#### COMMENCEMENT OF WORK.

11. Should the Contractor not commence work upon the site within days of the date hereof, the Contract may be determined and re-let at the risk of the Contractor after days' notice in writing from the Architect.

#### REMOVAL AND REPLACEMENT OF OBJECTIONABLE MATERIALS OR WORK.

12. Should any material or workmanship which, in the opinion of the Architect, is of an inferior or different character from that described in the specification, be at any time used in any part of the building,

or be delivered on the premises, the Contractor shall immediately cause the same to be removed and satisfactorily replaced; and if upon the Architect giving a written notice to the Contractor to effect any such removal and replacement, the same be not carried out within the time mentioned in the notice, the Proprietor shall be at liberty to employ other persons to effect the same, and all such expenses, loss, or damage, as in the opinion of the Architect may have been occasioned thereby, shall be borne by the Contractor, and the amount thereof paid by him, or deducted by the Proprietor from any money that may be or become due to the Contractor on account of this Contract.

#### REPARATION OF DEFECTS AND DAMAGES. INSURANCE.

13. The Contractor shall have charge of the works, and shall repair all defects and damages, and shall bear and indemnify the Proprietor against all risks and claims in respect of accidents happening to the works, of injuries to any persons, and of damages to adjoining premises during the carrying out of the Contract from whatever cause, and shall insure the works and keep the same insured until the Contract has been determined, as in clause 27 hereof provided, or until the completion, against loss or damage by fire, in an office to be approved by the Proprietor or the Architect in the joint names of the Proprietor and Contractor for \_\_\_\_\_ per centum of the contract price, and shall lodge the policies and the receipts for the premiums for the renewals of such policies with the Architect. In case the Contractor neglects to lodge the policies or the receipts for the premiums of such policies with the Architect, the Proprietor shall be at liberty to insure and keep the said works insured and deduct the amount of the premiums paid, together with the cost and expenses thereof, from any moneys payable by him to the Contractor, or may sue for and recover the same by process of law. All moneys received under any such policies are to be paid into an account in the joint names of the Proprietor and Contractor, and are to be paid from such account to the Contractor as the work of reinstatement proceeds in such sums as the Architect may certify. The work of reinstatement shall be on the same terms and conditions as the original Contract itself.

#### ATTENDANCE OF CONTRACTOR. SERVICE OF NOTICES.

14. The Contractor, either personally or by a foreman or agent approved of by the Architect and qualified to act for the Contractor in every respect, shall be continually present upon the works during working hours, and shall attend when required either at the office of the Architect or at the works, to receive orders and to give the necessary instructions to the workmen without making any charge for the same. The Contractor will be held personally responsible for the proceedings and acts of his foreman or agent. Any order, request, notice, or other communication given or made by prepaid posted letter addressed to the Contractor or to the Proprietor at the address given by him in the Contract, shall be deemed to be served at the usual time for postal delivery of such letter, or if given to or served upon him, his agent or foreman personally, then at the time of such giving or service.

#### SUB-LETTING.

15. The Contractor shall not sell or assign the execution of the work, or employ a sub-contractor for the execution of the same or any part thereof, without the previous written consent of the Architect.

#### CLEARING PREMISES.

16. The Contractor shall at his own expense, clear away from the premises on completion of the works, or when so desired by the Architect, all scaffolding, hoarding, barricades, machinery, implements, tools, materials, and rubbish which may be thereon, and shall also keep the walls properly protected from the weather during erection.

#### ACCESS TO WORKS AND POSSESSION.

17. The Proprietor is at all times to have free access to the works, and is to have full power to send workmen upon the premises to execute works not included in the Contract, for whose operations the Contractor is to afford every reasonable facility during ordinary working hours, provided that such operations shall be carried on in such a manner as not to impede the progress of the works included in the Contract; but the Contractor is not to be responsible for any damage which may happen to or be occasioned by any such works. Possession of the ground or works shall not be deemed to mean that the Contractor is to have exclusive possession, but only a limited possession in order to enable him to perform the works of the Contract.

#### ALTERATIONS—HOW MADE AND VALUED.

18. The Architect shall have power from time to time to make any alterations <sup>additions or omissions</sup> in the works as set forth in the drawings and specification, whether such alterations involve additions to or deductions from the Contract price, and such alterations shall be performed by the Contractor, and shall not invalidate the Contract; but the amount and value of the work as altered shall, unless previously to the commencement of the work the same has been fixed and agreed upon by the Contractor and Architect by writing under their hands, be fixed by the Architect, and additions or deductions shall be made accordingly to or from the Contract price as the case may require, and such amount and value shall be the limit of the Contractor's claim in respect of the work as altered. In fixing the amount and value aforesaid, the Architect will adopt the rates and prices contained in the schedule of prices, if any, which the Contractor has annexed to his tender, so far as the same can in the opinion of the Architect be applied to the work in question, and if there be no such schedule applicable the valuation shall be made by the Architect according to current rates, and his decision thereon shall in all cases, subject to the provisions of Clause 30 hereof, be final and binding on all parties.



at a time; and when the Contract has been determined as in clause 27 hereof provided, or when in the opinion of the Architect the works are practically completed, the Contractor shall be entitled to receive from the Proprietor upon production of the Architect's certificate to that effect and upon delivering up possession to the Proprietor an amount which with the amounts previously certified to be due shall be equal to per cent. of the value of the work actually done, or of the Contract sum as the case may be; and within weeks of the date of the last-mentioned certificate the balance of the value of the work actually done, or of the contract price as the case may be (subject to any such addition or deduction as aforesaid) will be paid by the Proprietor to the Contractor, upon the production of the Architect's written Certificate stating the amount of such balance, provided that the Contractor has executed or completed the works to the Architect's entire satisfaction. In ascertaining the amount of such balance, the Architect shall determine and decide what, if any, sum is to be paid or deducted for any breach of this Contract which shall have been committed by the Contractor or Proprietor, or for liquidated damages under the provisions of clause 10 hereof, and his certificate specifying the balance due shall, subject to the provisions of clause 30 hereof, be binding and conclusive. Any sum which the Proprietor may be entitled to deduct, whether for forfeitures, expenses of finishing, or on account of the works being over-measured, or on account of inferior material, or otherwise howsoever, may be deducted at any time, either from any progress payment or from the final payment, or may be recovered as a debt at law.

#### SUSPENSION OF WORKS.

26. The Contractor may suspend the whole of the said works as hereinafter provided, and the Contractor upon receiving a written notice from the Architect shall suspend the whole or any portion of the works for a period not exceeding weeks, shall resume the same when directed, and complete the whole without extra charge for such suspension. The period limited for completion of the original work or any extension of time which may be allowed as aforesaid shall be enlarged for a time equal in length to the period of such suspension; but if in the opinion of the Architect, additional expense shall be actually incurred by the Contractor by reason of any rise in the cost of labour or materials during the time of such suspension, the Architect shall in his final certificate fix the amount of such additional expense, and the same when so fixed shall be added to the amount due and be paid by the Proprietor to the Contractor. In the event of such suspension exceeding thirty days the Contractor shall be entitled to interest at the rate of per cent. per annum on the difference between the value of the work done as determined by the Architect at the time of such suspension and the amount which has been paid to the Contractor at such time. Provided, that in the event of suspension in consequence of the materials or workmanship being of inferior character or different from that described in specification, or on account of any other default on the part of the Contractor, the above limit to the period of suspension and the above conditions as to allowances for suspension shall not apply.

#### NEGLECT OR REFUSAL TO PAY CERTIFICATES.

27. If the Proprietor refuse or neglect to pay the amount of any certificate given by the Architect during the progress of the work for the period of days after the same shall have been presented to him for payment, the Contractor may give the Proprietor notice in writing that if the said amount be not paid within forty-eight hours after the giving of such notice, he will suspend operations on the said works, and if he does give such notice he must at the same time deliver a copy thereof to the Architect. If the said amount be not paid within the said forty-eight hours he may suspend such operations, in which case he shall give the Proprietor immediate notice in writing that the works are so suspended, and that if the amount of such certificate be not paid within thirty days after such notice has been given the Contract will be determined. If the amount of such certificate be not paid within such period of thirty days the Contractor may, at the expiration of such period, determine the said Contract, and the right and lien of the Proprietor, under these conditions, to and on all plant, materials, and property shall be extinguished.

#### PROVISION FOR TAKING POSSESSION OF WORKS.

28. If the Architect, at any time or times during the progress of the work, either before or after the expiration of the Contract time, shall discover or be of opinion that the Contractor is using bad materials or workmanship, or is not proceeding with the works in a satisfactory or sufficiently expeditious manner, the Proprietor by the Architect may give to the Contractor or his foreman notice in writing requiring the work to be proceeded with regularly and effectually, or the causes of complaint rectified; and in case of default (either actually or in the opinion of the Architect) on the part of the Contractor for a period of days, or in case the Contractor shall become insolvent, or compound with his creditors, or make any assignment for the benefit of his creditors, it shall be lawful for the Proprietor by the Architect to determine the Contract and or to enter upon and take possession of the works, and to employ any other person or persons to carry on and complete the same and to authorize him or them to use the plant, materials, and property of the Contractor upon the works or premises, and the costs and charges incurred in any way in carrying on and completing the said works are to be paid to the Proprietor by the Contractor, or may be set off by the Proprietor against any monies due or to become due to the Contractor, and the Proprietor in addition to the rights given him by clause 5 hereof, shall have a lien on the said plant,

arrange-  
ment with  
and/or

Bankrupt

or shall  
commit a  
breach of  
Clause 15  
hereof

materials, and property, unless and until the Architect shall certify in writing that the same are not further required and that there is no sum of money due by the Contractor to the Proprietor in connection with the carrying on or completion of the said works.

ASSESSMENT OF AMOUNT DUE UNDER OPERATION OF CLAUSES 27 AND 28.

29. In the event of the Proprietor taking possession of the works as in clause 28 hereof provided, or in the event of the Contractor determining the Contract as in clause 27 hereof provided, the Architect shall have power to determine what sum, if any, shall be deducted from the amount claimed by the Contractor, for delay in carrying out the work already done, or for the use of bad material or bad workmanship in the same, or for any other breach of this Contract of what kind soever. In estimating the amount of such deduction, the Architect shall decide what period of delay would inevitably occur in the completion of the works if they were thenceforth completed in the most expeditious manner possible, and also the costs of substituting good materials or workmanship for such bad materials or workmanship.

ARBITRATION CLAUSE.

30. If the Contractor or Proprietor shall either actually or in the opinion of the Architect commit any breach of this Contract, the party in default shall pay to the other of them for and in respect of such breach such sum as the Architect shall ascertain and certify to be the amount payable in respect of such breach, and the Contractor and Proprietor hereby respectively agree to pay and accept such sum in full satisfaction for such breach. If either the Contractor or Proprietor be dissatisfied with the decision of the Architect with respect to the quantity or value of the extras and omissions and variations on the Contract or as to questions of delay, and shall have otherwise complied with the requirements of the Contract and of these conditions, such dissatisfied party may within seven days after the decision of the Architect shall have been notified to him, and not otherwise, give to the Architect \_\_\_\_\_ days' notice in writing that he desires the matters in dispute to be referred to arbitration, and thereupon such matters shall be submitted to the arbitration of **Hubert H. Cowell**

or in the event of his death or unwillingness to act, of **Frederick William Hocart** being members of the South Australian Institute of Architects, Incorporated, and the award of the said **Hubert H. Cowell** or the said **Frederick William Hocart**.

(as the case may be) shall be final and binding on both Contractor and Proprietor, and neither party shall be entitled to commence or maintain any action upon any such breach or dispute until such matter shall have been referred or determined as hereinbefore provided, and then only for the amount or relief to which the arbitrator by his award finds either party is entitled. The "Arbitration Act, 1891" shall apply to this submission, and the costs of the submission, reference, and award shall be in the discretion of the arbitrator, and his award shall have the same effect as the certificate of the Architect would have had if no reference to arbitration had been desired.

PROPERTY IN DRAWINGS, &c.

31. The specification and all drawings in connection with this Contract are the absolute property of the Architect, and must remain in his custody; neither the Proprietor nor the Contractor shall have any claim, right, title or interest to or in such specification or drawings, and all copies thereof supplied to the Contractor shall, notwithstanding any payment to him for the same, be returned to the Architect before the Contractor receives or is entitled to receive the final certificate before referred to.

INTERPRETATION.

32. Throughout these general conditions, and throughout the specification and Contract, unless repugnant to the sense or context, words importing the singular number only shall include the plural number, and words importing the plural number only shall include the singular number. The word "Architect" shall mean the Architect for the time being employed by the Proprietor in relation to the works above referred to, and if the Proprietor employ a firm consisting of two or more Architects then any partner in such firm shall be deemed the Architect. The word "works" or "premises" shall mean everything shown and described in the drawings and specification, as agreed to be done, by the Contractor, and shall also include any premises in addition to those belonging to the Proprietor, which may be enclosed or used for the purposes of the said works.

Contractor of the one part and

Proprietor of the other part.

Contractor.

Proprietor.

And as between Proprietor and Architect and Contractor and Architect we agree that we are bound thereby.

WITNESS

Contractor.

WITNESS

Proprietor.

WITNESS

Architect.

**Contract**

made the

day of

192

BETWEEN

of

(who with his executors and administrators is throughout this Contract and the specification and general conditions respectively this day signed by the parties hereto styled "the Contractor") of the one part, and

of

(who with his executors and administrators is throughout this Contract and the said specification and general conditions styled "the Proprietor") of the other part WITNESSETH that in consideration of the sum of

.....  
.....

£

to be paid to the Contractor at the times and in the events mentioned in the said general conditions, the Contractor doth hereby agree with the Proprietor that he, the Contractor, shall and will before the day of 192 erect, do, execute, perform, complete, and deliver up to the Proprietor all and singular the works, matters, and things mentioned and referred to in the said specification and general conditions and in the drawings therein respectively referred to, and in the manner thereby respectively required. And also shall and will observe, abide by, and perform the said general conditions on his part. And this Contract also witnesses that in consideration of the premises the Proprietor doth hereby covenant with the Contractor that he, the Proprietor, will observe, abide by, and perform the said general conditions on his part.

IN WITNESS whereof the said parties to these presents have hereunto set their hands the day and year first above written.

Signed by the Contractor in the presence of

}

Signed by the Proprietor in the presence of

}



S P E C I F I C A T I O N of Works to be done and Materials to  
be supplied in building the BARR SMITH  
LIBRARY for the University of ADELAIDE

Richards Buildings,  
ADELAIDE.

WOODS, BAGOT, JORY }  
& } FF.S.A.I.A.  
LAYBOURNE-SMITH }

MARCH, 1930.

Architects.

PRELIMINARY CLAUSES.

1. THE FOREGOING GENERAL CONDITIONS OF CONTRACT of the S.A. Institute of Architects are to be read as part of this specification.
2. CERTIFICATES FOR PAYMENT - Notwithstanding anything contained in the General Conditions of Contract and so as to incorporate this clause in the General Conditions of Contract, the Contractor agrees that before application to the Architect for any certificate after the first certificate, the Contractor shall satisfy the Architect that all payments in respect of wages and/or material on the site and/or placed in the work and/or for work done by sub-contractors have been made up to the date of the previous certificate.
3. CONTINGENCY SUM - The Contractor is to allow a sum equal to two per cent (2%) of the contract amount for Contingent Works to be expended as directed by the Architects or credited in part or whole if not so expended.  
£456.0.0
4. INSURANCE - The Contractor shall insure all persons employed in executing this contract against all claims arising under The Employers' Liability Act, 1884, The Employers' Liability Amendment Act, 1889; The Workmen's Compensation Acts 1911 to 1926, The accidental Deaths Act 1865 and at Common Law; such insurance to be effected in the office of a Company approved by the Employer and evidence of such insurance lodged with the Architects.
5. LATRINE - The Contractor is to provide a latrine for the use of persons employed and to remove same at completion and cleanse the site.
6. WATER - Refer to "Plumber" Paragraph 89.

7. SITE FENCING AND ACCESS - The area available for the building and for the Contractor's reasonable use is shown on Site Plan. The existing fences dividing it from the land in the present occupation of the University along the South and the West are to be maintained in their present state by the Contractor.

Carting Access is to be from Victoria Drive or from Frome Road if directed by the Architects. Construct and insert to approval in the existing fence along Victoria Drive a substantial pair of framed, braced and iron covered gates 8 ft. high and 11 ft. wide with saw tothing along their tops and provide effective bolts, blocks, stays and padlock for keeping closed after working hours.

8. REMOVAL OF GRAND STAND - On or after the 18th day of May 1930, the timber and iron stand shown on the site plan encroaching upon the building area is to be completely removed by the Contractor down to ground level and its site left clear and safe for the public. The materials are at the disposal of the Contractor who shall cause them to be removed from the site by the day of 1930.

Remove the existing picket fence, gates and pay box from the point where they cross the boundary dotted on plan and re-erect in good order along the new alignment.

9. STORM WATERS - At all times protect the excavations and the building from the inrush or collection of storm waters and provide means of removal should any such occur. An existing 9" underground pipe carrying water from the upper levels and crossing the building site is to be maintained in effective condition at all times until diverted.

Schedule price to be included per ft. for excavation and laying 9" E.W. pipe to even gradient with wiped joints in cement 1 to 1 at an average depth of 3 ft.

Form two new inspection pits 3' x 2' x 3'6" in 9" hard shale brick built in cement with 4" concrete bottom all rendered in cement internally and provided with compressed concrete block covers.

10. TENDERS are to be lodged on the forms supplied by the Architects with -
1. The names of sub-contractors.
  2. The time required for completion
  3. The Schedule of prices properly stated.

11. SEPARATE CONTRACTS may be arranged by the Architects for *Hot Water System* Electric Light and Power Wiring, Electric Elevator Book Cases and other Fittings and for Floor Covering, under Clause 17 of the printed Conditions, during the currency of this Contract. The Contractor is to allow these sub-contractors the requisite facilities and shall build or set in sleeves supplied by *Hot Water Engineer, etc.* Electrician with accurate particulars at the proper time for so doing. Tenderers should note Clauses 38, 44 and 79 referring to nett sums provided under Clause 4 of the General Conditions of Contract.
12. PLANS OFFICE - The Contractor shall provide for the use of his Agents and those of the Architects an office capable of displaying the drawings conveniently with sufficient light and table shelving. It is to be suitably lined and fitted with lock and key.
13. LIME for all purposes shall be of approved brand brought frequently and used fresh.
- CEMENT shall be of approved South Australian manufacture capable of sustaining the Government standard tests.
- SAND shall be clean sharp grit, free from vegetable matter and to the Architect's approval.
14. LIME MORTAR shall be composed of one part lime to three parts sand as directed.
15. CEMENT MORTAR shall be composed of one part cement to three parts of sand, mixed only as required for immediate use.
16. CEMENT CONCRETE - Two grades are to be used -
- (a) Composed one part cement, two parts sand and four parts  $\frac{3}{4}$ " hard metal screenings (1 : 2 : 4)
  - (b) One part cement, three parts sand, three parts of "Bulldog" and two parts  $\frac{3}{4}$ " screenings (1 : 3 : 5)
17. MIXING - If mixed by hand, concrete is to be gauged and mixed dry on a timber platform, the mixture turned over twice dry and twice after wetting without excess of water. If machine mixers are used methods of gauging satisfactory to the Architects are to be adopted.

Ram the concrete in large masses as directed.

MASON, CONCRETOR & LABOURER.

(See Preceding Clauses)

20. EXCAVATE for the foundation piers, beams, lift over-run pit and for the adjustment of levels to the extent shown or figured on drawings. Spread any surplus material on the University site after filling and grading has been completed. Excavate for storm water pipe drains shown.

Trenches and pits are to be taken out level and square and free from loose earth. The excavation of all pier bottoms shall be completed and passed by the Architect before any concrete is tipped in.

21. FILLING - Fill in and ram round piers to level of beams or present ground line.

Fill in under solid floors shown on Ground Floor Plan and thoroughly consolidate without excess of water to the level required.

Provide and lay under these solid floors a 4" layer of hard stone spalls to approved sample or of 2" road-metal. Similarly pack under floor and round sides of Elevator Pit.

Collect and bury well below surface, all brick bats, broken tile etc.

Provide suitable clean filling for grading round the outer walls and ramping to Carting Entrance, as shown, trimmed off to even falls and raked and rolled.

22. CLEAR THE SITE at completion of all debris and waste building material to the satisfaction of the Architects, clearing existing water runs and filling ruts caused by carting.

23. SCHEDULE OF PRICES to be applied to extras or omissions of the following works when variation of the quantities shown is ordered by the Architects.

Excavation of Piers - and spreading spoil at per cub. yard.

Cement Concrete - 1 : 3 : 5 mixture " " " "

Cement Concrete - 1 : 2 : 4 " " " "

Pipe Drain - 4" E.W. with wiped joints laid in 12" trench at per foot run.

Pipe Drain - 9" E.W. as specified, Paragraph 10, laid in 3 ft. trench at per foot run.

24. FORMS for concrete are to remain in position as required by the Building Act and removal shall not take place until sanctioned by the Architects.

They are to be fixed level, plumb and parallel, particularly where concrete is to be left as stripped.

Provide sufficient forms to execute the whole of the floor slab of Reading Room at one time.

Stair forms are to have accurately cut strings so that the pitch and going are maintained.

Pier forms are to be full height of storey, to be angle filleted and set back for capitals.

Beam forms angle filleted where exposed.

25. REINFORCEMENT - All steel specified shown or implied on drawings for use in this contract shall be mild steel, uniform in section, free from rust, of ultimate tensile strength not less than 56,000 lbs. per sq. inch and of approved ductility. All steel rods are to be hooked at ends as shown to scale. Laps where permitted by the Architects are to be 40 diameters of rods in length, in beams and slabs, and 30 diameters in columns, such laps in column steel to occur only at floor levels. All welding will be prohibited except with the written sanction of the Architects. Rods are to be correctly placed in position and maintained therein, by wiring if required, while concrete is being filled in.

Concrete surrounding the rods shall be agitated during deposition with rammers or suitable tools so that there shall be no air space left between steel and concrete.

Allow excess water means of escape as directed.

26. GYPHUM TILES - The floor slabs above ground are designed for the use of Innes Bell tiles as shown on Sheets Nos. 4, 8 & 9. Provide these to the extent and sizes indicated and set in position accurately.

27. CEMENT CONCRETE where coloured is indicated by Grey in elevation and Green in section.

Execute the whole of the reinforced concrete construction as generally shown or implied on drawings and detailed on Sheets No. 4, 8 & 9 providing the steel shown therein fabricated to approval.

The concrete is to be 1 : 2 : 4 mixture in all cases except the foundation piers exceeding 2 ft. square in section between the top level of spread footings and the underside of ground beams where 1 : 3 : 5 mixture may be used.

Stoppage of concreting - Precautions shall be taken to give continuity of concreting as far as possible, beams or slabs may be stopped only at centre of span and the face shall in every case be vertical.

Resumption of concreting - The face of concrete at joints is to be thoroughly cleaned, wetted and scored and a thick grout of cement and sand 1 : 1, poured over it before new concrete is placed.

28. SET IN all bolts, wire ties, timbers, pipes, sleeves etc. when supplied by other trades, including Electrician with directions for accurate fixing.

29. BEAMS AND BANDS AND LINTOLS - Execute the following shown to  $\frac{1}{8}$ " or  $\frac{3}{8}$ " scale on drawings not elsewhere described.

K. Along walls of Front, North and South Elevation.

Set forms to section shown on Sheet No. 7. Provide and set timber or metal sleeve for 9" x 6" galvd. cast iron air grid one over each window. Reinforce with seven  $\frac{1}{2}$ " rods, continuous with lap and cross lap at angles.

L. Sundry window and other lintols.

Twenty-two Reading room windows.

13 $\frac{1}{2}$ " x 9" section with 13 $\frac{1}{2}$ " bearings.

Two  $\frac{1}{2}$ " rods turned up 2" at ends.

Six - Administration windows and entrance.

18" x 9" section with 13 $\frac{1}{2}$ " bearings.

Three  $\frac{1}{2}$ " rods carried continuously through piers.

One - Administration entrance.

18" x 13 $\frac{1}{2}$ " section with 13 $\frac{1}{2}$ " bearings.

Four  $\frac{1}{2}$ " rods, two bent up at each end.

Six - Second Floor windows.

13 $\frac{1}{2}$ " x 9" continuous bearing over piers.

Two  $\frac{1}{2}$ " rods turned at ends.

M. Continuous top slab.

On Pediment of Portico including the rakes of same, all walls of Reading Room and North and South external walls of Administration 6 $\frac{1}{2}$ " deep by varied widths shown.

Form for projection.

Reinforce with  $\frac{3}{8}$ " rods three, five and six, according to width continuous and crossed at angles.  $\frac{3}{8}$ " cantilever rods in projecting portions at 9" pitch bent up and hooked at each end.

N. One Main Door Lintel, Sheet No. 7 -

$13\frac{1}{2}$ " bearing,  $13\frac{1}{2}$ " deep.

Five  $\frac{1}{2}$ " rods turned up at ends.

O. Large Door Lintols - Sheet No. 7.

Cored out for architraves and prepared to receive running gear for sliding doors.

Construct five of varying widths with equal span over doors to Reading Room. One  $\frac{1}{2}$ " rod for each  $4\frac{1}{2}$ " of width.

\* P. North and South Elevation of Reading Room - Sheet No. 6

To corbel out between pilasters,  $13\frac{1}{2}$ " x  $6\frac{1}{2}$ " continuous with two  $\frac{1}{2}$ " rods.

Q. Three Corings for Door Cornices - Sheet No. 7

$\frac{3}{8}$ " bent rods at 9" pitch and  $\frac{3}{8}$ " continuous rods.

R. Continuous beam surrounding Light Well of Section shown.

Three  $\frac{1}{2}$ " rods crossed at angles.

S. Continuous beam surrounding Elevator Tower -

Three  $\frac{1}{2}$ " rods crossed at angles.

T. Clerestorey over Reading Room - Sheet No. 6

Tie band  $6\frac{1}{2}$ " x  $4\frac{1}{2}$ " enclosing two  $\frac{1}{2}$ " rods turned 3 ft. at ends in similar concrete.

V. Four openings to stair landings 4'6" span and twenty-two door and window openings of about 3 ft. span are to have lintols  $13\frac{1}{2}$ " deep,  $13\frac{1}{2}$ " bearing reinforced with one  $\frac{1}{2}$ " rod for each  $4\frac{1}{2}$ " of width.

Any lintols not elsewhere specified are to conform to this type.

29. a. REINFORCED CONCRETE ground floors, is specified under Plasterer with floor finish.

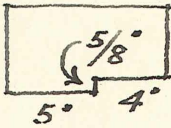
30. BRICKS for all purposes are to be thoroughly hard burnt and evenly shaped machine pressed. Up to damp proof course levels all bricks used are to be double pressed shale brick using "Bests" where exposed.

For exposed elevational work all bricks used are to be dome kiln or superior Hoffman Kiln "Bests" machine pressed sound on edges and "specially picked" for colour and size to suit stretcher bond without cutting or disturbance of bond. Refer to figuring Sheet No. 6.

The successful tenderer is to deposit with the Architects a sample of each kind of brick proposed for use.

The remainder of the bricks are to be not less than "seconds" in quality.

Moulded bricks for necking, bases, panels, sills and architraves are to be from stock patterns selected, straight and of quality and texture uniform with the surrounding work. For the architrave surrounding the twenty-two Reading Room windows a special brick shaped as in sketch is to be made to approval.

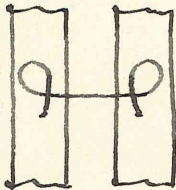


Execute six panels on North and South Elevations in moulded brick.

Wet all bricks immediately before use.

31. BUILD the walling coloured red on drawings in brickwork, using stretcher bond on external faces of front, North and South elevations. Build the pilasters without closers or as directed, elsewhere use English bond.

Coring for cement - Set back the face brickwork for pressed cement capitals, ornament and bases. Cut coring out-sailing for cornices, bases and other mouldings and for sunk jointing of ground storey.



Cavity Wallings - Stiffen with No. 8 galvd. wire ties spaced not more than 2 ft. apart and staggered in every fifth course.

Jointing and Mortar - Exposed brickwork of Front, North and South elevations and Readers' Entrance is to be pointed in the cement with joints flushed and slightly sunk and polished with a jointer as the work proceeds.

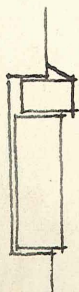
The Western Elevation cut and struck in the mortar used for building.

Internal faces of Ground Floor and Elevator Shaft are to be accurately set flushed up and bagged off as the work proceeds and whitened towards completion with binding lime wash.

Except the two Lavatories raked out for Plasterer.

Rake out the joints for Plasterer on First and Second Floors.

Build soldier courses as shown to be withdrawn for future floors of extension - Sheet No. 4.



32. WORK IN CEMENT - Build the following work in cement mortar.

(a) The Damp Proof Course and brickwork up to it.



- (b) All arches and relieving arches and casings of concrete lintols.
- (c) All 4½" walling and the piers of Second Floor.
- (d) Chimneys above roof line.
- (e) All sills, outsailing cored courses and parapets above roof flashings and the three top courses of all other walls.
- (f) The tothing at four angles for junctioning to future work.
- (g) The Elevational brickwork of Front, North and South Elevations at least 4½" on the bed.

Note that a 4½" cavity may be left in all 14" walling of Reading Room.

- (h) The walling of Strongroom.

33. DAMP PROOF COURSE - Provide and lay on all walls on the concrete or near ground line as directed an intercepting course of Adelaide Pottery Co's 9" x 6" x 3" perforated glazed tiles. Set with clean open joints glazed side outwards and arrange to exclude mice.

34. GLAZED EARTHENWARE DOWNPIPES - Supply sound tested 4" pipe with bends and build in to the walls ten stacks of pipe with joints set with pitch and surrounded with cement. Keep covered to exclude droppings as the work rises. Two stacks rise to box gutter of Attic Storey.

At the foot of the five stacks delivering in a Northernly direction build hard brick cemented catchpits large enough to take 10" square cast gratings and supply same dipped in tar thinned with kerosene. Connect these pits as shown on Ground Plan with 4" and 6" E.W. pipe drain to previously specified pit. Lay to proper falls with carefully wiped joints bedded on cement concrete.

Carry away from the other five with 18" cement concrete spoon drain averaging 6" thick fined off with 1 to 1 cement and cast with clean edges between boards.

Form two cemented catchpits with cast gratings and connect to storm water drain.

Connect the feet of two R.W. pipes from Light Court at Ground Floor level to the above drain with 4" and 6" pipe with wiped joints and sockets completely surrounded externally with 1 : 3 : 5 concrete.

Inspections: Provide and set flush with floor two I.P. bends with cemented covers. Externally provide three other I.Ps. with upcasts and cemented covers.

25.

AIR PASSAGE AND GRIDS - Under the sill of every window and elsewhere in Ground Storey near ground line form a rising air passage at least 9" x 4½" connecting with the cavity where such occurs.

Provide and build in 36 Simpson's galvd. wrought iron grids 9" x 9" square and plumb and flush with finished face and internally 36 heavy cast "Hit and Miss" vent fronts at least 12" x 9" over all.

Provide 36 galvd. cast iron 9" x 6" air grids referred to under Paragraph 29 K. and set in connection with concrete band with rising passage, Sheet No. 7 or as directed elsewhere. Provide and set 14 Wunderlich 9" x 6" Terra Cotta vent fronts.

In internal walls of Ground Storey form where directed 12 rising passages. Provide and build in 24 galvd. cast 9" x 6" air grids.

Provide and build into Strongroom walls two 4" E.W. pipe quarter bends, one near floor and one near ceiling.

Reading Room - Just above Bookcase on either side of each pier leave two inlet openings, 13½" x 9" or as directed connected with rising passages from external vents (Plasterer) 56 in all.

In upper cornice form 32 rising passages leading to cross passages. Provide and build in under roof and in Light Well 36 wrought galvd. 9" x 9" Simpson's grids.

Light Well of Administration - In connection with the cavity wall form twelve double openings 9" x 6", provide and build in 12 Wunderlich T.C. grids externally.

In Western wall near ceiling levels of First and Second Floors form 24 rising passages 9" x 4½", provide and build in 24 Wunderlich T.C. grids.

36.

CHIMNEYS FLUES ETC. - Corbel out from two points on Ground Floor and carry up 14" x 9" and 9" x 9" flues surrounded in 9" brickwork and parged with hair mortar for their full height. Build the breast and jambs shown on First Floor one side forming raised hearth, back hearth, tiled back, splayed jambs, straight arch and bull nosed margins to detail all in 2" brown glazed brick, Adelaide Pottery Co. set with flushed joints pressed in coloured mortar or cement.

Provide and build in a 2" x ½" bar over the arch with ends turned down 6".

Carry up the stacks gathering in 9" x 9" air flues as directed from Reading Room and Second Floor ceiling, and form cross passages with double outlets for Plasterer to finish.

37. ARCHES - Turn eighteen segmental and the semi arch of Reading Room in two  $4\frac{1}{2}$ " rings upon stout braced and battened centring. Core out for Plaster archivolt; also the two oval rings of Attic and the eye of Pediment.

Set upon strutted forms straight soldier arches in brickwork to all external openings shown in finished brickwork in connection with concrete lintols with  $4\frac{1}{2}$ " reveal.

Encase the two lintols over Reader's Entrance to detail, in brickwork set on forms before the lintol is cast with slightly panelled soffit with moulded brick pilaster caps continued as a cornice as shown.

38. MURRAY BRIDGE FREESTONE - Provide the sum, P.C. of Twelve Hundred Pounds (£1200.0.0)<sup>net</sup> to be expended by the Architects under a separate contract for working and setting the Four Columns of Portico with their caps and bases, and the steps, wing wall, capings and facings of same.

Provide the P.C. sum of Twenty Pounds (£20.0.0) in addition for a Foundation Stone and Inscription, and clear the surrounding area for the ceremony of laying same, with suitable tackle etc.

Protect the freestone during the performance of this Contract with angle boards, and cover battens and exclude the public from access to same.

39. MINTARO SLATE is to hold the full dimensions specified, to be rubbed on all faces and edges sawn square and parallel and set level in lime mortar.

Twenty window sills 21" x 78" x 2" with front upper edge slightly chamfered. Set in lime mortar into pockets of jambs and under steel window frames. Two similar 26" x 78" x 2".

Four thresholds to doors of Ground Floor are to be 2" with single splay nosing returned at ends and holes for stubs of frames.

Five steps for Elevator Shaft Doors are to be  $1\frac{1}{2}$ " square holed for stubs of frame and for centre bolt.

Twenty templates 24" x 12" x 2" with sawn beds for bearing of Principals.

40. ANGASTON MARBLE - The steps of Readers' Entrance with threshold of doors and slips surrounding recesses for scrapers and mat as shown, are to be 2" rubbed Angaston, splayed on upper edge of nosings and returned in some cases. The risers are to be 1" secured at top and bottom with  $\frac{3}{8}$ " copper dowels. Set accurately in mortar to slight weathering in single lengths. Joint etc. to perfect finish.

Clean off all slate and marble at completion with Spirits of Salts.

41. COLUMN SKIRTINGS - Sheets Nos. 5 & 7. - Provide and fix marble skirtings as shown to detail, all round 20 columns, 28 wall piers on one side and two angles, and 4 corner piers one angle only. Subject to slight modification near three entrances and central Platform. The marble is to be polished Pink Macclesfield 10" x  $\frac{7}{8}$ " finished with bull nosed angles and upper edges, close jointed and bedded in tinted plaster of Paris with 2 brass dowels to each joint. Each column base is to be formed from matched pieces. Extend to form skirting blocks on each side of Portico entrance.
42. STRONG ROOM DOOR - Provide the P.C. sum of Thirty-four Pounds four shillings (£34.4.0) for the purchase of a No. 2 door, 74" x 31" opening, and have built in by experienced artisans with approved holding lugs, as the work proceeds, keeping locked until thoroughly set.
43. WROT IRON STAIR HANDRAILS - From Ground Floor to top landing junctioning with Elevator Shaft, and 14 ft. of Landing Rail. Small stair from Ground to First Floor with return on two sides of top landing.
- Provide and fix a wrot. iron balustrade for flights and landings with  $2\frac{1}{2}$ " tyre iron continuous rail tapped and countersunk to receive screws, to the top of a baluster every second tread and slotted below in other cases. Form and set up for approval in position with the curved sets and ramps at angle accurately arranged. Halve and rivet at junctions and secure at wall ends rigidly and neatly.
- Balusters are to be  $\frac{5}{8}$ " square with shouldered tops prepared to receive small cast moulded stock pattern blocks. The lower ends of balusters are to be forged with eyes for attachment by bolts to the sides of concrete string.
- Supply a pitch rod and bolts to Concretor. Finish the handrail at open ends (three) upon a special stock pattern 2" cast iron, shaped newel with footplate rigidly bolted to tread. Form a ramp in handrail and a scroll end, or otherwise fit over the newel with a polished cast ball top, threaded on. Attach one open end of landing rail to fixed Wooden book case.
- Paint one coat at the foundry after removing any rust.
44. STEEL WINDOW FRAMES. - Provide the P.C. sum of One Thousand One Hundred and Fifty Pounds Nett (£1150.0.0) to be expended by the Architects in the supply of 105 steel frames, and build in accurately. Protect from injury.
45. TERRAZZO PAVING. - Provide the P.C. Sum of Thirty Pounds (£30.0.0) to be expended by the Architects in laying floor finish to Portico.
46. SUNDRIES. - Provide and set in jambs of Stack Room openings three pairs of wrot. iron swallow tail gudgeons with  $\frac{3}{8}$ " pins for future doors.

Chases. Cut or leave chases, checks and openings for pipes where required.

Point over flashings in cement.

Hair Mortar. Supply coloured hair mortar for Roof Tiler.

Solid Frames. Build in with  $1\frac{1}{2}$ " x 2" galvd. hoop iron ties every eighth course.

Build in bolts, ties, straps, etc. supplied by other trades with directions for accurate fixing.

CARPENTER & JOINER.

(See Preliminary. Clauses)

50. TIMBERS. All timbers for use in this contract are to be of the best procurable seasoned, free from sap, shakes, gum veins or loose knots. It is to hold the specified dimensions less the trade allowance for working, unless otherwise stated.

Roofing timbers are to be of Oregon, and Internal Joinery of Yellow Pine, unless otherwise specified.

51. WROUGHT WORK. All timbers exposed to view are to be wrought and finished by hand, and timber intended for paint is to be primed before being fixed.

Solid frames are to be machined and primed on faces out of sight.

52. ROOFS. Construct as shown figured or implied on drawings, and as follows. Work shown on drawings is to be included whether specified herein or not.

Reading Room. Ten Principal Trusses, two of lower pitch at ends are to be framed in the best manner, and fitted with the following Smith's work.

$\frac{7}{8}$ " King Bolt with 4" x 4" x  $\frac{3}{8}$ " plate washer and 3" x  $\frac{3}{8}$ " forged headstrap secured with four  $\frac{1}{2}$ " bolts, and four 5" coach screws.

Two  $\frac{3}{4}$ " Queen Bolts, Two  $\frac{3}{4}$ " Princess Bolts, Two  $\frac{7}{8}$ " Heel Bolts each with  $\frac{3}{8}$ " plate washer and cast papered washers cogged in, but without otherwise cutting the timbers. Supply Standard nuts throughout.

Ridge. 9" x 1 $\frac{1}{2}$ " bracketted up from trusses.

Purlins. 8" x 3" angle blocked, the lowest row twice strutted in each bay with 6" x 3" from wall plates.

Common Rafters. 4 $\frac{1}{2}$ " x 2" at 2 ft. centres with similar vertical struss at wall line, and seating pieces, all spiked together and clinched.

Three Plates each 4 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " with similar gutter plate on edge, treated all over with Creosote before fixing.

Supply to Mason, with template for building in, 18" x  $\frac{1}{4}$ " bolts with nuts and plate washers at 5' 10 $\frac{1}{2}$ " centres, 2 to each bay to hold plate.

Hips 11" x 2" framed at foot to dragon ties back strutted.

Valleys 11" x 2" framed to seating pieces and blocked off principals with 7" x 1" valley boards, housed to rafters.

Trough Gutters. Block up from the feet of rafter and line with 1" boardings working an  $1\frac{1}{2}$ " fall to outlet and trim for hopper.

Eaves - Section A.A. Sheet No. 6. Form triangles of 3" x  $1\frac{1}{2}$ " at 2 ft. centres with gutter plate creosoted as before. Anchor by means of a plate secured with twelve 9" x  $\frac{1}{2}$ " bolts about 6 ft. centres. Trim for piers and form hips.

Pediment Gutter. Provide and fix gutter plate with twelve  $\frac{1}{2}$ " bolts somewhat as shown, Sheet 7. Build in ridge and purlins supplying 2" x  $\frac{3}{8}$ " anchor irons 3 ft. long turned up at ends and fixed to each timber with three 4" coach screws.

Trim for five roof lights using 3" timbers. Line with 6" x  $1\frac{1}{8}$ " tonglear tiles and put 7" x  $1\frac{1}{2}$ " gutter board at back. Form light well through the roof as specified for Dormers.

Dormers. Trim for six dormers and for eighteen vent gablets and construct the former as shown to  $\frac{1}{2}$ " scale with solid frame and 9" x 2" double grooved and canted jarrah sill and fix steel frames supplied under Mason, with back stops. Surround with moulded architraves and put cornice with bed moulds, fascia and soffit all of Red Pine continued to pitch of pediment. Enclose the raking bottom, the sides and back roof and ceil with 4" x 2" timbers at 18" centres. Provide and line the raking bottom with 6" x  $\frac{7}{8}$ " wrot. T & G boarding and fix creeping cleats. Trim for and hang  $1\frac{1}{2}$ " framed trap door filled with 3 ply and provide butts and barrel bolt.

Trim for air outlet in ceiling and fill with  $\frac{3}{8}$ " galvd. mesh soldered to galvd. wire frame.

Line the two spandril sides of studs above roof line with  $\frac{7}{8}$ " T. & G. boarding to carry iron. The inside is to be lined by Fibrous Plasterer.

Fascia. Soffit and mould (Sheet 6) about 40 ft. run of this.

53. CEILINGS. Aisles of Reading Room -  $4\frac{1}{2}$ " x 2" joists at 18" centres hung to 9" x  $1\frac{1}{2}$ " binder with 2" diagonal fillets.

Three 6" x  $\frac{7}{8}$ " boards for walking way, canted pieces and plate 3" x 2" (Section Sheet 7) over every cross beam.

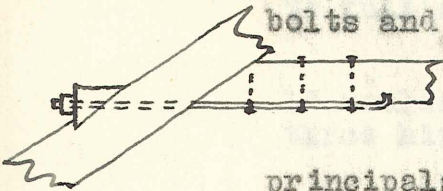
Centre of Reading Room - Between each principal put 8 pairs of  $4\frac{1}{2}$ " x 2" joists pitched and skew nailed to 7" x  $1\frac{1}{2}$ " ridge and checked at foot over a  $4\frac{1}{2}$ " x 2" plate. Supply to Concretor 66 bolts 9" x  $\frac{1}{2}$ " with template for building in to secure same. Leave passage for central vent tube.

Hang each joist with 3" x 3" angle fillets from six rows of 11" x  $1\frac{1}{2}$ " binders and block as shown on Sheet 6, extending the angle fillets to carry  $4\frac{1}{2}$ " x 2" cross joists, four rows in all.

Between each groin of plaster ceiling put one  $4\frac{1}{2}$ " x 2" canted joist spiked to tie beam and seated in pocket left in brickwork. Arrange with Mason to leave pockets for timbers.

54. ROOF OF ADMINISTRATION - Sheet No. 1 - Ends partly for iron and tiles. Rafters for tiles as before with similar external eaves construction. Valleys as before. For each of these pitches provide three trussed principals with 6" x 3" rafters and collars framed together with  $\frac{3}{4}$ " King bolt with 2" x  $\frac{3}{8}$ " forged head strap 28" long secured with two  $\frac{1}{2}$ " bolts and two 5" coach screws, nuts and plate washers. Unite the collars to rafters with 2" x  $\frac{3}{8}$ " cogged strap ties with long forged  $\frac{3}{4}$ " bolt ends bored through rafter and fitted with cast tapered washers and nuts.

Prepare each strap and fix to collar with two  $\frac{1}{2}$ " bolts and one 5" coach screw.



Purlins 6" x 3" angle blocked.

Ridge 11" x  $1\frac{1}{2}$ " built in at ends and blocked from principals with 2" brackets.

Feet of rafters to seat upon cross timber as elsewhere shown for eaves and upon  $4\frac{1}{2}$ " x 2" plates on internal walls blocked up as shown.

Ceil these roofs with 4" x 2" joists at 2 ft. centres pitched against a 4" x 2" ridge resting on the tie beams and spiked to eaves timbers. Hang with 2" diagonal fillets to 11" x  $1\frac{1}{2}$ " binders.

The remainder of the roof shown for iron is to be of collar tie construction where possible and the lean to rafters strutted (Sheet 5) Timbers are to be as follows:- Ridges 9" x  $1\frac{1}{2}$ ", Hip and valleys 11" x 2" with 7" x 1" valley boards and stiffening battens. Rafters and collars, ceiling joists  $5\frac{1}{2}$ " x  $1\frac{1}{2}$ " spiked together, Battens for iron 3" x 2". Binders 11" x  $1\frac{1}{2}$ " with 2" angle fillets at every crossing.

Wall plates and pitching pieces  $4\frac{1}{2}$ " x 2".

Fascias 9" x  $1\frac{1}{2}$ " or red pine.

Trim for chimneys and form intersections with tiled pitches.

Form rising trough gutters of V section with  $1\frac{1}{2}$ " boarding seated on the rafters and blocked between at 2 ft. centres.

Provide and supply to Mason for building in Forty 12" x  $\frac{1}{2}$ " bolts for attachment of plates etc.

Arrange ceiling joists to suit Plasterer's battens.

55. ELEVATOR SHAFT ROOF -  $4\frac{1}{2}$ " x 2" rafters for tiles at 2 ft. centres with shaped but unwrot. ends, 9" x 2" hips framed to a 4" x 4" upright and secured with two  $\frac{1}{2}$ " bolts to




6" x 2" collars also bolted to upright, 4 $\frac{1}{2}$ " x 2" wall plate secured with fourteen 12" x  $\frac{1}{2}$ " bolts supplied to Concretor to set in. Provide seating for hips from a diagonal plate or as arranged. Outer fascia 7" x 1 $\frac{1}{2}$ " unwrot, Red Pine. Inner fascia 9" x 1 $\frac{1}{2}$ " cut round feet of timbers.

56. OAK JOINERY for doors frames and skirtings of Reading Room and Corridor including Entrances on First Floor Plan, is to be selected Seasoned European or Manchurian Oak. It is to be ordered within one month of signature of contract, cut to sizes, stacked and stripped.

It is to be finished with the scraper for wax polish and all surface fixings and tenons and wedges concealed with plugs let in to suit grain and cleaned off. Moulds and finish to full size details.

Solid frames of jarrah may be built in and lined with 1" moulded stops of Oak by arrangement. Hang all doors with three hinges with loose pin.

57. PORTICO ENTRANCE DOORS - The outer sliding doors are to be out of 2" with 9" bottom rail and 7 $\frac{1}{2}$ " styles and head all sunk as shown to line with rails out of 4 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ ". Rebate and bead the meeting styles.



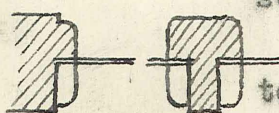
Provide the sum of Fifty-three Pounds (£53.0.0) P.C. for hammered metal panels and fix with screws supplied. Groove for and fit back panels of  $\frac{5}{8}$ " Oak Plywood. Hang with Wilcox hangers and track so as to allow of removal if required and carry the track upon 4 $\frac{1}{2}$ " x 3" hardwood lintel supplied to Concretor with six 12" x  $\frac{1}{2}$ " bolts for building in. Frame to 4 $\frac{1}{2}$ " x 3" uprights built into the cavity with sole plates fitted with 1 $\frac{1}{4}$ " x  $\frac{1}{4}$ " bar guides. The reveal frame to be 4 $\frac{1}{2}$ " x 3" jarrah built in with galvd. stubs to stone sill and cover with 5" x 1" ovolo moulded oak linings scribed to doors and fixed with round headed screws at 9" centres.

Put similar back linings tongued to inner door frame and fixed to plugs so as to be removeable for access to running gear.

Groove the bottom rails for bar guides and line the groove with 24 gauge galvd. iron.

Lock each door from the inside lining with a padbolt and staple with metal socket let into door style. Fix sunk ring pulls let in flush.

The inner pair doors are to be 2" finished with 6" rounded styles and 11" bottom rail rebated and ovolo moulded on the solid and with 2" glazing bars and quadrant beads for glass. Provide similar hinged sashes over with beaded meeting styles and hang both sets to 4 $\frac{1}{2}$ " x 3" oak frame fitted with galvd. stubs to sill and with double moulded built up transome 6" x 4" rebated and sunk.



Fix pulls, plates and vacuum closers. Conceal the tenons on meeting styles with inset pieces of matched grain.

58. FOUR OPENINGS TO READING ROOM AND CORRIDOR are to be similar to the last in general, with the following additional items -

Frames are to be 5" and set flush with cement or plaster. Surround on one side with 7" x 2" moulded architrave on 2½" shaped blocks.

One pair of doors is to have transome fixed so as to hinge with upper sashes to allow passage for ladder. Bevel joint.

In three cases fix hardware as before including stays and fastenings of upper sashes.

One pair of doors is intended to cover Electric Switchboard and to be hung on corridor side blocked out to suit. Include 3" back linings behind architraves.

59. LIBRARIAN'S DOOR - 3 ft. wide with moulded transome and hinged transome light is to be surrounded on corridor side with 1½" panelled and 7/8" solid double jamb linings to meet architraves of size similar to the foregoing.

Surround internally with 7" x 2" architraves on blocks. Rebate and tongue the jamb and face linings and work a bullnose on salient angles. Estimate for 13 panels.

Fix mortice lock and furniture, night latch, fan opener and 3 hinges.

60. READERS' ENTRANCE - Pair 2½" doors (Sheet No. 1) with rounded meeting styles to open outwards with Vacuum closers otherwise to correspond with preceding. Hang to double frame 5" x 4" with double transome built up with similar mouldings. Rebate, bead and mould on all angles with hand worked stops to detail and fitted with galvd. or brass stubs to marble sill.

Provide fixed side and top sashes for glass and hang fanlight with panes as shown.

Fix pulls, plates, closers, four bolts and fanlight opener. Let plates of bolts into marble sill to approval.

61. SKIRT the Corridor with 9" x 1½" Oak moulded to detail accurately mitred and tongued at angles secured to soldiers and plugs at 18" centres and grooved against curl. House to door blocks and frames.

62. SCREENS A & B - First Floor - Sheet No. 2 - Doors to be 7" x 3" x 2" double moulded and with beads for glass panel. Provide 4" butts and hang 3 to each door. Fix mortice locks and furniture.

The underframings are to be  $1\frac{3}{4}$ " double moulded. Fix to  $4\frac{1}{2}$ " x 3" rebated and moulded framing with beads for glazing, long stubs for fixing to concrete and  $\frac{3}{8}$ " bolts supplied to Concretor to set into piers. Surround against floor walls and piers with small quadrant stops. Round off the edges of transomes.

63. FOUR EXTERNAL DOORS - Sheet No. 1 - Two with double style to frame and sidelights.

These are to be 2" bead and butt and moulded out of Baltic Deal with panels of Red Pine hung with three 4" butts to  $4\frac{1}{2}$ " x 3" rebated ovolo jarrah frames fitted with stubs to slate sills. Surround internally with 3" x  $\frac{2}{8}$ " bullnosed stops. Fix mortice locks and furniture and holding back hooks to wall plugs.

Provide  $1\frac{1}{2}$ " rebated glazing bars to three doors and three side lights.

Buffer Plates - Provide and fix with six 18" x  $\frac{5}{8}$ " bolts supplied to Mason for building in, two  $4\frac{1}{2}$ " x 3" wrot chamfered jarrah plates, counter sunk for the nuts.

64. FIVE INTERNAL DOORS - Ground Floor - Three to be  $1\frac{3}{4}$ ",  $2'10" \times 6'6"$  (about)

Two  $1\frac{1}{2}$ " x 2" x  $6'6"$  square panelled but with arrises removed. Provide and hang with three 4" butts to  $1\frac{1}{2}$ " solid linings with  $\frac{5}{8}$ " stops or skeleton lining where applicable. Surround both sides with 3" bullnosed stops.

Fix locks and furniture or plates, pulls and latches.

65. TRAP DOORS - One to space below Portico. Two from stair well into and above roof and one to Reading Room Ceiling, Sheet 1.

Provide and hang to open as directed with 4" butts from  $4\frac{1}{2}$ " x 3" rebated frames with 6" x 2" jarrah sills, rounded, grooved and in one case fitted with  $1\frac{1}{4}$ " iron drift stop. Fix rimlocks.

The three former are to be  $2\frac{1}{4}$ " framed and braced as directed, reduced for and filled with  $3\frac{1}{2}$ " x  $\frac{2}{8}$ " T & G and V jointed Red Pine boarding. Joint the frame to match. The latter  $1\frac{1}{2}$ " two panel moulded and square surrounded with bullnosed stops.

66. TWO DOORS - Second Floor -  $7'0" \times 3'3" \times 1\frac{3}{4}"$  six panelled selected seasoned Pacific Maple double moulded hung with three 4" butts to  $1\frac{1}{2}$ " skeleton linings with  $\frac{5}{8}$ " stops and surrounded both sides, 7" x 2" moulded architraves on tapered blocks. Fix mortice locks, plates and furniture.

67. HARDWARE for doors and sashes - Provide the P.C. sum of Ninety Pounds (£90.0.0) for the purchase by the Architects of locks, fastenings, openers, closers and stays.

68. JOINERY, ROOM NO. 3 - Sheet No. 3 - Pacific Maple. Surround with 9" x 1" moulded skirting to plugs at 18" centres and mitred and tongued in the best manner. House to blocks.

Windows - Surround three with 7" x 2" moulded architrave with  $\frac{3}{8}$ " square joint linings fixed to plugs at 18" centres and tenoned to 1 $\frac{3}{4}$ " rounded window board. Fix latter to cleats secured to expanding plugs at 18" centres and fit 2" bed mould below returned at ends.

Mantel and Jamb Lining - Line the returns of jambs above skirting with 1 $\frac{1}{4}$ " panelling chamfered on the solid and fixed to plugs. Finish on top with an 1 $\frac{1}{4}$ " moulded capping with 1 $\frac{1}{2}$ " bed moulding. Rebate tongue and mould the angles with breast and extend the panelling as shown. Surround the fireplace with 7" x 2" architrave on tapered blocks. Put 8" x 1 $\frac{1}{4}$ " moulded shelf with returns and bed mould to detail.

Further panelling indicated is not included.

69. LADDER AND MANHOLES - Sheet No. 5 - Provide two 4" x 2" jarrah manhole frames 4 ft. x 2 ft. and supply to Concretor with four bolts for setting in. Line with  $\frac{7}{8}$ " and surround at ceiling line with chamfered stops.

Provide and hang with japanned T hinges a ledged and boarded cover to one of these and fix a ring pull.

Construct a wrot ladder with 1 $\frac{1}{2}$ " rounded hardwood rungs and ditto styles about 3 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ " finished. Fix with plate to floor and to manhole framing.

70. DELIVERY PLATFORM - Sheet 2 - 12" high. Construct with 3 $\frac{1}{2}$ " x 2" Oregon joists at 18" centres trimmed round piers and to angles supported on three rows of cross bearers and line with 6" x  $\frac{7}{8}$ " Baltic T & G flooring dogged up and twice nailed.

Trim for and fix three sets of 1 $\frac{1}{4}$ " tread and two 1" risers with top nosing, all of imported Oak with rounded nosings and scotia properly tongued, glued, blocked and bracketted in the best manner.

Finish with boarded riser and similar nosing and scotia on the delivery side only, the Reading Room risers to be completed in connection with Fittings Contract.

71. HAT RAILS - In each Lavatory provide and fix 6 ft. run of 4" x 1" chamfered rail together with one dozen hangers of P.C. value Twenty shillings (20/-).

72. TOWEL ROLLERS - Provide and fix two of superior finish with back boards.

73. TOILET FIXTURES - Provide and fix to wall plugs, two of P.C. value Ten shillings (10/-).

74. DRIP BOARD - Fit up beside one sink an  $1\frac{1}{2}$ " Kauri top housed over flange of sink and packed with white lead and oil. Groove eight times from nothing to half inch. Support upon  $3" \times 1\frac{1}{2}"$  chamfered well rails on two sides and scribe  $4" \times \frac{7}{8}"$  chamfered skirting over all fixed to plugs.

Stiffen the board from below with two  $3" \times 1\frac{1}{2}"$  cleat rails rebated for small drawer on hardwood runners with dove tailed Kauri front and shaped wood pull.

75. CORRIDOR CEILING JOISTS - Provide and fix for Plasterer's battens  $4" \times 2"$  Oregon joists at 2 ft. centres over Corridor. Support at each end upon  $4" \times 2"$  plates secured at 4 ft. centres with  $12" \times \frac{1}{2}"$  bolts, and hang each joist with  $1\frac{1}{2}"$  galvd. hoop iron from a  $4" \times 2"$  plate secured with similar bolts to concrete slab.

Supply to Concretor and Mason with template for building in 27 bolts.

76. CORNICE PLATE - Reading Room - round central space. Provide  $3" \times 2"$  plate and fix to  $9" \times 2"$  bolts at  $5'9"$  centres. Supply 56 bolts to Mason to build in at this level.

77. FOUR OVAL FRAMED LIGHTS shown for timber are intended for steel under Mason.

79. TILE ROOF - Provide the P.C. sum of Five Hundred and Fifty Pounds (£550.0.0) for tiling the roofing coloured red on drawings with tiles of Marseilles pattern, equal in quality to a sample approved by Architects. This price includes providing and fixing 2" x 1" full cut battens and wiring every tile with No. 18 gauge copper wire where possible; elsewhere they are to be screwed. In addition to hip and ridge tiles with apex and terminal tiles, include the Elevator Shaft roof with four stock pattern tile vents and the cornice tilint, shown on Sheet No. 6.

Provide and wire as before 80 glass tiles for skylights. Coloured hair mortar is provided under Mason.

80. EAVES GUTTERS - Provide and line the Main eaves of tiled roof and the rakes of Portico with Simpson's pattern 6" O.G. gutter 4" high at back of 1½ lb. copper. Fix with 1" straps rivetted and sweated with soft solder to front roll at 3 ft. centres and turned over fascia secured with copper nails.

Rivet and double solder the junctions, and form the mitres with the rake of pediment as directed.

Form outlets of the same copper to deliver into eight earthenware downpipes with 4" circular sleeves and 4" x 3" rectangular cross tubes rivetted and sweated with 4" brass inspection screwed cap and socket.

To each gutter outlet put a swinging bird gate of heavy copper wires. Allow play for contraction.

The Elevator roof gutters of copper as above are to be connected to one 4" copper downpipe delivering with shoe over leanto clear of the iron, with copper straps and swinging gate.

The eaves gutters of Iron Roof round Light Well are to be 6" O.G. of 24 gauge galvd. iron with straps at 3 ft. centres, fixed to back of fascia. All joints to have 3 tinned rivets and to be well soldered both sides. Gussset strap angles, allow play for contraction and put 24 gauge shaped splash plates.

Connect the four angles with 24 gauge 4" circular piping with approved straps. Two of these carried raking along walls to junction with the other clear of the concrete gutter. Joints and seams carefully soldered.

Supply to Concretor to set into forms 4" No. 20 gauge galvd. iron pipe with joints and seams carefully soldered, and connect at Ground Floor slab level in a water-tight manner to the 4" E.W.P. laid by Mason under floor. The upper end of these pipes to be connected in water tight manner to a 6" x 6" box with sleeve and sides carried up the wall faces as a flashing. Fix domed guards of ½" mesh galvd. netting.

81. SIX DORMER GUTTERS, ETC. - Line the side eaves and raking fronts of these with 4" O.G. gutter of 24 gauge galvd. iron with joints and straps as before and connect from back of gutter with two 3" spreaders with set shoe and strap to deliver over tiles.

Line the two spandril sides of Dormers with Wunderlich fish scale Zinc sheets, 2 ft. sheets lapped and cut to suit the scales and turned round angle of front and under timbers. Fill the gable end with 24 gauge sheet, perforated as shown and filled with stamped Zinc grating to approved pattern, rivetted and soldered between the sheet and a blocked roll edging.

Secure behind timbers and dress forward in one piece to flash cornice with edge turned over and close nailed.

Flash over the jarrah sills and under steel frame with 5 lb. lead, dress up and tack behind architrave and zinc linings. One wide flashing dressing over tiles. Flash the raking sides with 5 lb. lead about 10" wide dressed onto tiles. Lap the flashings at angles 4".

82. VALLEYS - in Iron and Tile Roofs are to be of 24 gauge galvd. iron 18" wide, with edges turned up. Joints double soldered and rivetted 5 times. Leave as free as possible, hanging near the top and covering with a saddle flashing.

The valleys of dormers to be 12" metal.

83. BOX OR TROUGH GUTTERS are to be lined with 24 gauge galvd. iron jointed etc. as for valleys, but with rivets more numerous in proportion. Form 4" circular outlets with hoppers leading to two E.W.P. downpipes built in to Attic walls.

Attic gutter is to have 3" effective depth at the highest levels.

The troughs in iron roofing are to be of V section increasing in width as they rise to obtain fall, averaging 24 inches.

84. FLASHINGS - Flash and step flash against chimneys and parapets of rear wall and two Attic walls over gutters and on to tiles in 5 lb. lead turned up in the chase and packed with rolled lead wedges. It is to dress down over tiles at least 5 inches - Sheet No. 6.

85. CORRUGATED IRON - Line the slopes coloured blue with 24 gauge galvd. of approved brand such as "Orb" with 6" end lap and a flute and a half side lap. Secure with 2" cup headed screws or approved galvd. nails every other flute. Trim for trough gutters on the rake.

Line the ridges and hips with 18" roll ridging scribed to flutes and secure with screws.

86. VENT TUBES AND GABLETS - Provide nine vertical and cross tubes of 24 gauge g.i. with rivetted and soldered joints to sizes shown.

Form fourteen 12" square cones to fit ceiling panel and provide condensation drip above same and connect two to every other vertical tube.

Stay in position with 2" galvd. hoop iron straps. The eighteen gablets are to be formed to detail of 24 gauge with wide aprons, louvres 2" on slope with edges turned up and down  $\frac{1}{8}$ " and  $\frac{3}{8}$ " netting soldered on inside.

Form a blocked cyma mould along sides and front. All soldered and rivetted securely.

87. PROVIDE the sum of Ninety-four pounds (£94.0.0) subject to Builder's 10% commission for the purchase and delivery of a wrought steel hipped Lantern Light for Well. Estimate for assembling from cases and supply of bolts or holdfasts to Contractor with a template for building in to raised curb of well.

88. FIVE SKYLIGHTS - shown with gutters and flashings are provided for with glass tiles in Tiling amount.

89. WATER SERVICE - Existing service on the site is shown on Ground Plan. Cut off and remove the surface pipe crossing the site of the new building. At the point where present large service crosses the Eastern boundary of the building site, arrange with the Waterworks Department for a 3" meter, and have same connected with a wheel valve set in a brick cemented pit with cover of boiler plate or slate.

Water for use in this contract is to be registered from this meter.

Extend in 3" pipe under Ground Floor to the nearest Hydrant shown on West Wall of Stack Room, thence in 2 $\frac{1}{2}$ " pipe exposed on walls and ceiling of Ground Storey and Administration to Hydrants as follows:-

8 on Ground Floor

4 on First Floor

2 on Second Floor

Provide and fit ~~twelve~~ <sup>these up with</sup> 2 $\frac{1}{2}$ " wheel valves with couplings for hose of Fire Brigade Pattern, the exact track and fixing of same to be studied to suit requirements of Concretor, Electrician and other trades.



Supply six sets of approved canvas hose at least 36 ft. long each, with union and nozzle complete and support in six approved carriers neatly constructed and strong.

Take an 1" branch to supply Lavatories on Ground Floor with  $\frac{3}{4}$ " extension to 2 basins on First and Second Floors.

Take a  $\frac{3}{4}$ " branch to supply two similar basins from Southern rising main, each of these branches controlled by a stop cock and chased into walls of First Floor.

90. PIPING is to be approved galvd., Lloyds or National and fittings approved Malleable galvd.

The tracks of all piping to be approved.

91. COCKS are to be branded, tested and nickel plated, connected without blemish or tool marks, and jointed without exposed threads, tow etc. Supply and fix  $\frac{3}{4}$ " Easy Clean pillar cocks for six basins,  $\frac{3}{4}$ " bibcocks for three sinks and  $\frac{1}{2}$ " for two cisterns.

92. SEWER CONNECTION AND FITTINGS - Provide the P.C. sum of Sixty Pounds (£60.0.0) for the purchase of -

Six basins p & w. and cast enamelled brackets.

Three sinks, p & w.

Two Federal pans, seats and cast cisterns

and fix to approval to wall plugs and with stout T iron brackets shaped at end and built in to carry sinks and cisterns.

Provide for and execute the connection to the sewer and venting same as required by the Hydraulic Engineer's Dept., supplying wrot iron wastes. All vents carried up internally in wall checks or through concrete forms, capped and flashed through roof.

Satisfy the Architects as to positions and layout of all pipes and fittings.

Supply copper flash pipes,  $1\frac{1}{2}$ " wrot. iron sleeves built in for floor drainage and delivering over catch pits.

Dip all gratings in thinned tar. Any glazed earthenware pipe where laid on disturbed ground is to be specially jointed with cement concrete.

93. EMERGENCY FLOOR WASTES - Supply to Mason to build in with outward fall from the level of Ground Floor, six lengths of 2" galvd. wrot iron pipe, the full width of wall with brass caps and hinged drop flap externally.

94. METAL RUNGS - Light Well. Provide  $\frac{3}{4}$ " galvd. pipe rungs with ends turned 12" and supply to Mason to build in as the work proceeds.

P L A S T E R E R .

(See Preliminary Clauses)

96. ALL WORK shall be done in the best manner, evenly floated and pricked up, setting well trowelled off plumb and accurate. Use angle floats and form curved angles on all piers and salient angles.

Pressed work and fibrous plaster work requiring modelling is to be executed and set by approved tradesmen to the satisfaction of the Architects. See Clause 15 of Conditions of Contract.

97. FLOATING is to be composed by measure immediately before use.

4 parts of lime mortar separately mixed 3 to 1.  
1 part of cement mortar separately mixed 3 to 1.

Setting for Reading Room, plain walling is to be of well run lime and fine sand 1 to 1 with admixture of Ochre to approved sample. For use elsewhere it is to be mixed one part "Victor" Hard finish and one part lime and fine white sand.

Piers etc. - Render all angles, nibs, piers in Portland cement mortar setting those left white on First and Second Floors above cement dados in the "Victor" setting. Finish Corridor with external work in "Atlas" cement.

Float and set the internal walling of First and Second Floors the Lavatories, W.Cs. and the Stair well as on Section A.B. - Sheet 5.

Vent Fronts - Provide the P.C. sum of Thirty Pounds (£30.0.0) for purchase of 56 large and 12 small japanned metal gratings.

Special Items in Reading Room - Set the bricks of blind window recesses, other reveals of these and all windows with splayed jambs in "Victor" setting.

Set the moulded jambs of 3 doorways up to head in Victor on Portland and insert running ornament in Plaster to agree with fibrous plaster detail.

Run the impost cap and base mouldings and the archivolt and lintol of central archway to "Delivery" to detail in plaster. Run the small bases of columns and pilasters.

98. CEMENT DADOES - The walls and piers of Administration on <sup>First</sup> Floor and both stair wells to top landing are to be rendered in Portland 4 ft. high and finished trowelled in fine stuff 1 to 1 with small V sinking on top. Junction with floor finish to approval. Include cills of stair windows.

99. CEMENT SKIRTINGS, ETC. - Render and fine trowel and finish with sinking as for dados the following skirtings junctioned with floor finish.

Second Floor and top landing 9" except in Room No. 3.

First Floor - Reading Room - 9" in recesses between piers including sides of piers.

Ground Floor - 2 Lavatories and W.Cs.

The internal sills of Ground Floor windows in similar finish setting the Hit and Miss vents provided under Mason.

The concrete band below First Floor slab on the inside of external walls of Ground Floor rendered only, setting the bar gratings provided under Mason.

100. FLOOR FINISH - Thoroughly cleanse, treat with acid water, slurry with 1 to 1 grout and lay at least  $\frac{5}{8}$ " thickness of cement trowelled up to level hard surface with 1 to 1 finish, the whole of *First* and *Second* Floors and the stairs including strings and soffits of flights and landings.

Work rounded nosings on treads and risers set back  $\frac{3}{4}$ ".

101. CEMENT CONCRETE FLOORS AND FINISH - Lay over the whole area of Ground Floor upon the broken metal filled in by Mason 1 : 2 : 4 concrete 4" thick reinforced with B.R.C. fabric No. 655 mesh, free from rust and wired as required to keep its position.

Trowel up to hard and smooth surface 1 to 1 finish in one operation working to level screeds in sections. Finish the bottom and sides of Elevator Over-run Pit as specified Paragraph 25, adding "Colmanoid" Liquid Waterproofing (F.H. Snow & Co. Agents) in the proportion directed and forming angle roundings with especial care.

102. EXTERNAL PORTLAND FINISH - Render the coping of Rear Parapet including the  $4\frac{1}{2}$ " oversail on both sides, weathering the level surface.

Weather sills of all windows and set offs of openings and other projections in brickwork.

Form spoon gutter round Light Well about 18" wide with falls to two outlets and skirtings at sides 4" under light and 9" round walls. Cleanse and slurry the concrete as before and render with 2 to 1 and trowel up in 1 to 1 finish with proper admixture of "Colmanoid".

Render the external concrete of lintols and band in Light Well.

103.

EXTERNAL ATLAS CEMENT FINISH - Execute in cement and finish with Atlas cement and sands admixed to approved colour and texture, the work shown on drawings or enumerated below. Accurately run mouldings to detail submitting zinc templates of same. See the Mason as to accurate coring out.

Supply pressed cement enrichment of approved quality to match in finish. Modillions and running ornament may be of stock pattern if of exact size, other ornament modelled to detail. Moulded bases are to be pressed in one piece or else run, no jointing will be accepted.

The work comprises -

- (a) Moulded chimney caps with pediment and necking.
- (b) Attic cornice mould parapets and bases.
- (c) The enriched entablature with paterae, including Portico with pediment and the inside faces of frieze, architrave and panelled soffit, Sheet 7. The cornice bed mould to be finished with the fibrous plaster.
- (d) The high relief enrichment of Tympanum and two Oval Attic windows. Similar detail internally in Fibrous Plaster.

This is to be jointed in blocks and set into pockets in the brickwork after hardening.

- (e) The pilaster Capitals and bases and the rendered shafts of four pilasters of Portico.
- (f) The doorway of Portico.
- (g) The pressed openwork vent panels under Reading Room windows including three for Readers' Entrance and Corridor.
- (h) The Ground Storey rendering with sunk joint and run base. Joint as directed cut out to rendering.
- (j) The walls panelled pilasters and caps of Corridor jointed as directed.

104.

CEILINGS - Setting - Slurry for key if required by the Architects and set the ceilings of Ground and First Floors and stair soffits on the concrete and Gypsum Block slabs. Finish an even white. Similarly set the top slab over stair well. Include beams with angle splay finish.

105.

FIBROUS PLASTER - Upon the ceiling timbers shown on drawings batten and cross batten and cradle for cornices and fix wall grounds in a substantial manner to approval. Supply bolts, ties or grounds to Concretor with templates for setting in.

Execute in the best manner from models to full size details the whole of the coffered, coved and groined ceilings and cornices of Reading Room as shown on drawings. Also the Portico and Corridor to the same detail.

Prepare to detail and insert vent gratings for ceiling and wall outlets, two to each compartment of Reading Room.

Execute to detail enriched foliated brackets with plain frieze in Corridor.

In Portico include the bed mould of cornice to same detail as external work.

The frieze of Reading Room is to carry an Inscription of 250 raised letters to full size detail, together with 12 open Paterae of same detail as external frieze.

Execute the enriched architrave of windows and blind recesses finished on tapered blocks.

The overdoors, cornices and foliated consoles and the architraves of three entrances in Fibrous Plaster.

Door jambs within ten feet from the floor are to be run by Plasterer on the solid in Victor on Portland with the same enrichment set in.

Execute the high relief foliated decoration of two oval windows modelled to same detail as external pressed work.

Execute the square column and Pilaster Capitals modelled to detail with necking and fixed to set off in concrete.

Execute the coved ceilings of Section C.D. Second Floor in fibrous plaster sheets divided symmetrically into straight panels to form the curve. Cover the junctions with 3" x 1 $\frac{1}{2}$ " cover moulds intersecting accurately and surround at wall line on the two springing levels with a dentilled cornice of six inch girth.

Line the balance of Second Floor ceilings with fibrous plaster and cover mould set out symmetrically in panels not more than 4 ft. square.

Line the sides, tops and backs of 12 roof light wells over Reading Room with fibrous plaster.

All the jointing of the above fibrous plaster is to be accurately finished and strengthened with additional fibre set with plaster from on top. All stopping and surface finishing to be without blemish and left uniformly white.

Fibrous Plaster sheets to be not less than  $\frac{1}{2}$ " in thickness and to be manufactured from first quality Plaster of Paris and Sisal and to contain not less than 12 ozs. of Sisal to each square yard and the finished sheet to weigh not less than 24 lbs. per square yard when thoroughly dry. It must be firm and rigid and must ring when tapped and must be hard to scratch with the finger nail.

PAINTER AND GLAZIER.

107. MATERIALS - All materials, paints, varnishes, oils and spirits of turpentine shall be of brands approved by the Architects and shall be used free from adulterants. Mixed paints of special brands shall be used for finishing if required.
108. WOODWORK - Inside and out, knot, stop, prime and paint three coats all wrot woodwork not otherwise specified. Allow each coat to harden and then rub down, stop and face up with putty.
109. IRONWORK - Inside and out, paint two coats all metalwork usually painted, Principal items are steel frames, gutters, vents, flashings, valleys and gablet linings, Plumber's pipes, water service and stair handrailings.
110. OAK JOINERY of six principal openings and skirting specified is to be twice oiled with raw linseed, stopped and finished internally with two thin coats of Johnson's wax polish well rubbed in. Externally finish with two coats of hardwood oil rubbing down between coats.
111. UNWROT EAVES of Elevator roof are to be treated with two coats of Cabot's Cresote stain.
112. KALSOMINE Ivory White the ceilings and decorative plaster of Reading Room except the doorways, the shafts of columns and pilasters which are to receive three coats of Mattone to same shade. Similarly kalsomine the fibrous plaster ceiling and cornice of Portico and of Corridor.
113. ANAGLYPTA DADO - Provide and line the lower shafts of Reading Room columns and the exposed faces of pilasters previous to painting with Anaglypta of P.C. value  $1/6$  per yd. 21" wide, and 3 ft. high. Finish off at top and bottom with bands of Linerusta of P.C. value  $2/3$  per yard.
114. ROOM 3 - SECOND FLOORS - Stain the Joinery specified under this heading with Cleartone to approved shade, oil and flat varnish or polish without fillers.
115. GLAZING - All glass is to be properly puttied and back puttied with metal springs in the case of steel frames. Glass fixed with beads is to be back puttied. Glass is to be free from blotches or defects.

Glaze all lights, not otherwise specified, and the screens of Administration with Flemish glass, white or pale amber as directed after trial.

Glaze the lights of Second Floors and  $\frac{2}{3}$  of the area of lights of Administration on First Floor with 21 oz. British sheet.

Glaze the semi-circular light over Delivery Platform with Flemish leaded as shown with  $\frac{1}{8}$ " came stiffened with steel core.

Glaze the panes of Readers' Entrance, Portico Entrance and two pair doors to Reading Room (doors only) with  $\frac{3}{16}$ " British polished plate. The remaining panes of Joinery in Flemish.

Glaze the light well framing with wired rolled plate.

Note the inner and outer lights to the clerestory of Reading Room. The five skylights shown are covered by Tiler with glass tiles. Include side cheeks of hoppers in metal frames of Ground Floor. Inspect blue print in Office.

116. LEAVE all glass clean and perfect and all floors clean at completion. Remove paint and oil stains.

- finis -