

CONTRACT NO. 13626

This Agreement

made the

day of

in the year of our Lord One thousand nine hundred and sixty five

Between^(a)R W BLACK PTY LTD29 KINGS ROADNEW LAMBTON

(a) Insert here the full name, address and occupation of the Contractor, or each of the Contractors if more than one person, and the title of the firm or Company, if any.

hereinafter and in the several annexures hereto called the "Contractor" (which term shall be deemed to include where the context so requires or admits the heirs executors and administrators of the said Contractor) of the first part and THE COMMONWEALTH OF AUSTRALIA of the second part **Whereas** the Minister for Works of the Commonwealth of Australia (hereinafter called the "Minister") recently called for Tenders by Notice published in the *Commonwealth of Australia Gazette* (a copy of which Notice is hereunto annexed marked with the letter "A") for the execution of certain works namely^(b)

(b) Description of the works in general language.

Erection of new Sergeants Mess building

and laundry block at R.A.A.F. Station.

WILLIAMTOWN**Bill of Quantities**

in accordance with the plans specifications/**General Conditions and Special Conditions** (if any) hereunto annexed marked respectively with the letters^(c) B-B48 C D E

And Whereas the Contractor made the Tender hereunto annexed marked with the letter^(c) F to execute and perform the various works required in and about the full and proper construction and erection and completion of the works hereinbefore mentioned agreeably to the said plans specifications/**General and Special Conditions** (if any) and at and for the price or sum in the said Tender mentioned viz. for the sum of £ 127,882. 0. 0 (One hundred and twenty seven thousand, eight hundred and eighty two pounds)

(c) Insert the several letters marked upon the document referred to.

Bill of Quantities

And Whereas the said Tender was accepted by the Minister subject to the terms and conditions set out in the notification of acceptance given to the Contractor on the ^(d) twenty eighth day of June One thousand nine hundred and sixty five (a copy of which notification of acceptance

(d) Insert date of acceptance of Tender.

is hereunto annexed marked with the letter ^(e) G) **And Whereas**

(e) Insert amount of deposit.

the Contractor has deposited the sum of ^(e) Seven thousand, six hundred and seventy threepounds in lawful British money with the Director of Works to be held by him as security so far as the same shall be sufficient for the due performance and fulfilment of this Contract and all other matters and things herein contained and which on the part of the Contractor are to be done and performed

Now this Agreement Witnesseth that in consideration of the premises the Contractor doth hereby for himself his heirs executors and administrators covenant with the said Commonwealth of Australia that he the Contractor shall and will well and faithfully execute perform and finish all and singular the works of whatsoever description required in and about the full and proper construction erection and completion of the works hereinbefore mentioned strictly in accordance with or as the same may reasonably be inferred from the said several annexures hereto within the time set out in the said General Conditions and at or for the price or sum in the said Tender

mentioned **And it is hereby Agreed and Declared**

between and by the said parties hereto that the said several annexures hereto all being marked respectively as aforesaid with the letters ^(e) A B-B48 C D E F G shall be read as incorporated in and forming part and parcel of these presents in like manner as if the same had been herein written and set forth and that the said several annexures and these presents shall together be taken to be the contract between the said parties in respect of the works hereinbefore mentioned

And it is hereby further Agreed and Declared

between and by the said parties hereto that if the party hereto of the first part shall consist of two or more persons the term "Contractor" herein and in the said several annexures hereto shall bind such persons whether male or female jointly and severally and any two or more of them and their respective heirs executors and administrators and such persons shall jointly be entitled to the

benefit of this Contract and these presents and the said several annexures hereto shall be read and construed accordingly **In Witness** whereof the said parties to these presents have hereunto set their hands the day and year first before written.

Signed for and on behalf of

the Commonwealth of Australia by

BERNARD ALWYN BROGAN
in the presence of ACTING DIRECTOR OF WORKS

(g) *B. A. Brogan*
Acting Director of Works

(g) Signatures
of parties here.

And ^(f) ~~by~~ for and on behalf of

the said R W BLACK PTY LTD

by *Harold P. Black*

in the presence of

Jack Barrass

(g) R. W. BLACK PTY. LTD
Harold P. Black
Managing Director

(f) Strike out
one alternative.

(g) Signatures
of parties here.

J. Barrass

NOTE.—Each of the annexures should also be signed by the Contractor.

No. 773

DEPARTMENT OF WORKSTENDERS INVITEDNew South Wales

Tenders returnable to Director of Works, Commonwealth Centre,
Chifley Square, Sydney.

Locality & Description of Work	Tenders Returnable at	Plans, Specifications etc. available from
<u>WILLIAMTOWN:</u> Construction of Sergeants Mess and laundry.	12 Noon on Tuesday, 8th June, 1965	Department of Works, Commonwealth Centre, Elizabeth Street, <u>SYDNEY.</u>

THIS IS THE COPY OF GAZETTE NOTICE MARKED "A" REFERRED TO IN THE
ANNEXED AGREEMENT WITH THE COMMONWEALTH OF AUSTRALIA

DATED THE 2 AUG 1965 DAY OF 19

R. W. BLACK PTY. LTD.

CONTRACTOR W. R. Black Managing Director.WITNESS: J. B. Barras.

R.W. Black PTY. LTD.

TELEPHONE: 57-1576



Building Contractors

29 KINGS ROAD
NEW LAMBTON
(NEWCASTLE)

RWB.RL.

7th June, 1965.

To the Director of Works,
Department of Works,
14th Floor, Contracts Section,
Commonwealth Centre,
Elizabeth Street,
S Y D N E Y. N.S.W.

Dear Sir,

Re Tender No. 579. Sergeants Mess. R.A.A.F. Williamtown.

Please find enclosed our Tender for the above job.

Under Clause (a) 46. "Preliminaries" we have allowed for the use of aluminium sections as submitted by J. Connolly Ltd. in lieu of that which is specified - namely - Wunderlich Limited - and if our tender is successful we would be happy to submit design sections for your approval. Same would be in keeping with that used on the Airmen's Mess and Airmen's Recreation Centre jobs.

We have allowed for the uses of locally manufactured Structural Steel.

The exposed aggregate panels specified have been withdrawn through cessation of production, and we have included in our price for the uses of Fabrostone Exposed Aggregate Panels as manufactured by Fabrostone Pty.Ltd. Caringbah. N.S.W.

Thanking you,

Yours faithfully,

This is part of the tender

marked " **F** " referred to in the annexed Agreement

with the Commonwealth of Australia dated the _____

2 AUG. 1965

A.D. 19

R.W. BLACK PTY. LTD.

Contractor

[Signature]

Managing Director.

Witness

[Signature]

R.W. BLACK. Managing Director.

W.66. (1964)
C.D.O.-2928.

COMMONWEALTH OF AUSTRALIA.

DEPARTMENT OF WORKS.

TENDER.

NOTE. - Tender when in excess of £2,000 MUST be accompanied by a deposit in accordance with Conditions 6 and 7 of the Conditions of Tendering.

TO THE DIRECTOR OF WORKS,
DEPARTMENT OF WORKS.

Commonwealth Centre,

Under and subject to the Conditions of Tendering stated on the other side hereof,
I/We R.W. BLACK. PTY. LTD.
(in BLOCK LETTERS)

the undersigned do hereby tender to execute and perform the several Works and Provisions described in the Plans and Specification for

Sergeants Mess. R.A.A.F. Williamtown.

and under and subject to the General and Special Conditions of the proposed Contract for the sum of

One Hundred Twenty-seven Thousand , Eight Hundred and

Eighty-two Pounds.

(£ 127,882. 0 0.)

(State amount in words and figures.)

and we enclose herewith the sum of £ 100. 0. 0. as a preliminary deposit in the form of a cheque.

WITNESS my hand, this Seventh day of June, 1965

R. W. BLACK PTY. LTD.

Signature of Tenderer [Signature] Managing Director. Phone No.: 57-1576.

Address of Tenderer { 29 Kings Road, New Lambton. NEWCASTLE.

(in BLOCK LETTERS)

Witness to the Signature of the Tenderer R. Lester.

Tenderer's Bank.	Name <u>E.S. & A. Bank Limited</u>	If a firm, the names of the individual members of firm to be stated here.
	Branch <u>NEWCASTLE.</u>	

FOR OFFICE USE ONLY.

This is the Tender marked " F " referred to in annexed Agreement with the Commonwealth of Australia, dated the 2 AUG 1965 day of 2 AUG 1965, A.D. 1965

R. W. BLACK PTY. LTD.

1. Tenders to be in a lump sum for the works as specified in the Specification and/or shown on the Plans and subject to the General and Special Conditions of Contract.
2. Tenders must be on the printed Form of Tender (W.66) shown on the other side hereof. Tenders must be in all cases for the works as specified, and no condition is to be inserted contrary to or differing from those in the Specification and the General and Special Conditions of Contract. Any tender which does not comply with these Conditions of Tendering will be liable to rejection.
3. No tender shall be admitted after the hour fixed on the day named for the receipt of such tender unless there are circumstances which, in the opinion of the Members of the Tender Board render it desirable to do so.
4. Tenderers must state distinctly on the envelopes enclosing their tenders the work for which the tenders are given.
5. The Commonwealth shall not be bound to accept the lowest or any tender. If the Commonwealth decides to accept a tender, Notice of Acceptance of the tender shall be served on the successful tenderer, who shall thereupon enter into a formal contract for the execution of the works, but the written Notice of Acceptance of a tender shall constitute a binding contract between the Commonwealth and the successful tenderer whether such formal contract is or is not subsequently executed.
6. Preliminary Deposit
 - (1) Each tender in excess of £2,000 must, as a guarantee of good faith, be accompanied by a preliminary deposit which shall be calculated at 1 per centum of the amount of the tender but with a maximum deposit of £100.
 - (2) In the event of a tenderer withdrawing his tender within a period of 30 days after the date fixed for the receipt of that tender, or failing, within 14 days after the service on him of the Notice of Acceptance or such longer time, if any, as the Director of Works may allow, to enter into a formal contract with the Commonwealth for the execution of the works, the Director of Works may direct that the preliminary deposit accompanying that tender be forfeited to the Commonwealth, whereupon that preliminary deposit shall become the property of the Commonwealth.
 - (3) On the acceptance of a tender amounting to not more than £20,000 but exceeding £2,000, the preliminary deposit will be used as, or applied towards, as the case may be, the security deposit required in accordance with Condition 9 of the General Conditions of Contract.
 - (4) In the event of the successful tenderer failing, within the time aforesaid, to enter into a formal contract with the Commonwealth in accordance with these Conditions, the Director of Works may revoke the acceptance of the tender.
 - (5) Subject to paragraph (2) of this Condition, the preliminary deposit lodged by an unsuccessful tenderer will be returned to him.

7. The preliminary deposit must be in the form of coin, Australian notes, banker's cheque, bank draft or post office money order payable to the order of the Receiver of Public Moneys, Department of Works, or a deposit in the name of the said Receiver of Public Moneys in a Savings Bank, or a fixed deposit in the name of the said Receiver of Public Moneys, or an undertaking or certificate, in a form approved by the Director of Works, and given by a bank approved by the Director of Works, that the bank is responsible to the Commonwealth of Australia for, or that it holds at the disposal of the Commonwealth of Australia, a sum equal to the amount of the said preliminary deposit. The deposit may be in the form of a not negotiable bank cheque drawn by the tenderer if it is cleared by the tenderer's bank within 7 days of its lodgment with the tender.

8. Security Deposit

On entering into a formal contract for the execution of the works, the successful tenderer shall lodge a security deposit as required by Condition 9 of the General Conditions of Contract.

9. Any notice to be given to or served upon a tenderer shall be deemed to have been duly given or served if signed by or on behalf of the Director of Works, and sent by pre-paid post addressed to the tenderer at the address given in the tender and any such notice shall be deemed to have been given or served at the time when in the ordinary course of post such notice would be delivered.

10. For the purposes of these Conditions of Tendering where the context so admits or required the word "Tenderer" shall if the tender is submitted by two or more persons be deemed to include the said persons and each of them and their each and every one of them and

Tenderer's Name: R.W. BLACK. PTY. LTD.Date: 10th June, 1965.WILLIAMTOWN R.A.A.F. SERGEANTS' MESS AND LAUNDRY BLOCKELECTRICAL INSTALLATIONSCHEDULE OF SELECTED ITEMS

The following items are indicated on the drawing and/or in the Specification by reference to a particular firm manufacture including type and catalogue number.

The tenderer shall indicate in the space provided the make and type of equipment he is offering.

See also Method of "Describing Item 5".

Item	Type listed on Drawing and/or in Specification	Type and make Cat.No. offered
1. 4 x 20W fluorescent fitting	Philips Troffer	NO ALTERNATIVE OFFERED.
2. 2 x 40W " "	" "	
3. 3 x 40W " "	" "	
4. 1 x 40W " "	Prestige Embassy	
5. 1 x 20W " "	Kempthorne Fluorescent Bracket K7200	
6. 1 x 20W " "	Greendale Slimline	
7. 2 x 40W " "	Philips 8109	
8. 4 x 20	" Regal	
9. 2 x 40	Prestige Elizabethan	
10. 3 x 40	Greendale Industrial	
11. 2 x 20	Greendale S892	
12. Incandescent	Kempthorne Cat. K382	
13. "	Leonora Emperor	
14. "	Luminairs Danube	
15. "	Prismatic Bulkhead	
16. Electric Clocks	E.E.A. Slimline	
17. Circuit Breaker	Westinghouse	
18. Contactor	Klockner Mueller	

This is part of the tender

marked " **F** " referred to in the annexed Agreement

with the Commonwealth of Australia dated the

day of 12 AUG 1965 A.D. 19

This is ~~part~~ of the tender marked "G" referred to in the annexed Agreement with the Commonwealth of Australia dated the 2 AUG 1965 A.D. 19

R. W. BLACK PTY. LTD.

Contractor *[Signature]* Managing Director.

Witness *[Signature]*

R W BLACK PTY LTD
29 KINGS ROAD
NEW LAMINGTON

65/1684/41

28th June, 1965.

Dear Sirs,

Your tender for the work described below is hereby accepted.

The work is to be carried out in accordance with the plans, specification and General Conditions of Contract upon which your tender was based.

Your substitution of Connolly's windows for Wunderlich's is approved providing sections shown on shop drawings are acceptable. The use of Fabrestone Exposed Aggregate Panels in lieu of "Pebblestone" is approved.

In accordance with Clause 5 of the Conditions of Tendering you are required to execute a formal contract agreement which should be signed within fourteen days from this date. The agreement has been forwarded to the District Officer at Newcastle on whom you should call and arrange execution.

The security deposit on the contract will be £7,673. 0. 0., and the preliminary deposit of £100. 0. 0., could be applied towards this amount if desired. However, if you wish to cover this security deposit with a Bank Guarantee, the preliminary deposit would be refunded when the guarantee is lodged. For your convenience, a copy of the form of Bank Guarantee and type of Attestation by the bank required by the Department, is attached. In either form the security deposit must be lodged with the Receiver of Public Moneys in this office before or at the time of execution of the documents.

Your priced Bill of Quantities is at present being checked. It will be necessary for the prices contained therein to be approved before signing the documents.

Please address all future correspondence in connection with this contract to the District Officer, Department of Works, Box 794 Post Office, Newcastle and quote reference 65/1684. It would be appreciated if you would submit all future correspondence in duplicate.

Your attention is drawn to Condition 7 (7) and (8) of the General Conditions of Contract concerning progress payments for work executed by nominated sub-contractors. It is suggested that proof of payment could be in the form of a receipt from the particular nominated sub-contractor and arrangements may be made with the Department's representative to sight these receipts on the site of the works.

LOCATION:

WILLIAMTOWN.

DESCRIPTION OF WORK:

Erection of new Sergeants Mess building and laundry block at R.A.A.F. Station.

65/1684

AMOUNT OF TENDER: £127,882. 0. 0 (One hundred and twenty seven thousand, eight hundred and eighty two pounds) £255,764.

DATE OF TENDER: 7th June, 1965.

CONTRACT NO.: 13626

DATE DUE FOR COMPLETION: 4th April, 1966 (Forty (40) weeks)

MAINTENANCE PERIOD: Building Work - Thirteen (13) weeks.
Mechanical Equipment - Fifty-two (52) weeks.

SECURITY DEPOSIT: £7,671. 0. 0.

Yours faithfully,

(D.A. BROGAN)
ACTING DIRECTOR OF WORKS

DISTRIBUTION:

Director of Works
Receiver of Public Monies
O.I.C. Expenditure
Job File
A.D.W. (D)
A.D.W. (C)
Principal Architect (2)
Contracts Clerk
District Officer, Newcastle
R.O. (E)
O.I.C. Programme
A.A. (C)
Assets Register
Senior Internal Auditor
S.C.O.S.
S.Q.S.
Superintendent of Stores
O.I.C. Suspense Ledgers

Additional Copies for:

Client Department
Documents
Supervision Papers (3)
Box Office
File Copy

Contract No.: 13626.

AR.5128 760

Req. No.: DWB.1362/64-5

Req. No.: DWB.1382/64-5

Liquidated Damages: £140. per week

GROSS CONTRACT AMOUNT: £127,882.0.0PROVISIONAL SUM ITEMS

Mechanical Services £32,000.
Thermal Alarms £1,140.

MATERIALS TO BE SUPPLIED TO CONTRACTOR FREE OF CHARGE

Plates Indicator Fire Ext.	S/A	No. 4
	Foam	No. 1
	CO ₂	No. 3

MATERIALS TO BE PURCHASED BY CONTRACTOR FROM DEPARTMENT

Fire Hose Cradle and Cover

No. 1

£15. 8. 0

65/1684

AMOUNT OF TENDER:

£127,882. 0. 0 (One hundred and twenty seven thousand, eight hundred and eighty two pounds) £255,764.

DATE OF TENDER:

7th June, 1965.

CONTRACT NO.:

13626

DATE DUE FOR COMPLETION:

4th April, 1966 (Forty (40) weeks)

MAINTENANCE PERIOD:

Building Work = Thirteen (13) weeks.
Mechanical Equipment = Fifty-two (52) weeks.

SECURITY DEPOSIT:

£7,673. 0. 0.

Yours faithfully,

This is ^{whs} ~~part~~ ^{letter of acceptance} of the ~~tender~~
marked " C " referred to in the annexed Agreement
with the Commonwealth of Australia dated the _____

14 AUG 1965

A.D. 19

(B.A. BHOGAN)
ACTING DIRECTOR OF WORKS

MR: W. BLACK PTY. LTD.

Contractor W. Black Managing Director.Witness B. B. B.DISTRIBUTION:

Director of Works
Receiver of Public Monies
O.I.C. Expenditure
Job File
A.D.W. (D)
A.D.W. (C)
Principal Architect (2)
Contracts Clerk
District Officer, Newcastle
R.O. (E)
O.I.C. Programme
A.A. (C)
Assets Register
Senior Internal Auditor
S.C.O.S.
S.Q.S.
Superintendent of Stores
O.I.C. Suspense Ledgers

Additional Copies for:

Client Department
Documents
Supervision Papers (3)
Box Office
File Copy

Contract No.: 13626.

AR.5128 760

Req. No.: DWB.1362/64-5

Req. No.: DWB.1382/64-5

Liquidated Damages: £140. per week

GROSS CONTRACT AMOUNT: £127,882.0.0PROVISIONAL SUM ITEMS

Mechanical Services £32,000.
Thermal Alarms £1,140.

MATERIALS TO BE SUPPLIED TO CONTRACTOR FREE OF CHARGE

Plates Indicator Fire Ext.	S/A	No. 4
	Foam	No. 1
	CO ₂	No. 3

MATERIALS TO BE PURCHASED BY CONTRACTOR FROM DEPARTMENT

Fire Hose Cradle and Cover

No. 1

£15. 8. 0

65/1684/41

28th June, 1965.

R W BLACK PTY LTD
29 KINGS ROAD
NEW LAMBTON

Dear Sirs,

Your tender for the work described below is hereby accepted.

The work is to be carried out in accordance with the plans, specification and General Conditions of Contract upon which your tender was based.

Your substitution of Connolly's windows for Wunderlich's is approved providing sections shown on shop drawings are acceptable. The use of Fabbrostone Exposed Aggregate Panels in lieu of "Pebblestone" is approved.

In accordance with Clause 5 of the Conditions of Tendering you are required to execute a formal contract agreement which should be signed within fourteen days from this date. The agreement has been forwarded to the District Officer at Newcastle on whom you should call and arrange execution.

The security deposit on the contract will be £7,673. 0. 0., and the preliminary deposit of £100. 0. 0., could be applied towards this amount if desired. However, if you wish to cover this security deposit with a Bank Guarantee, the preliminary deposit would be refunded when the guarantee is lodged. For your convenience, a copy of the form of Bank Guarantee and type of Attestation by the bank required by the Department, is attached. In either form the security deposit must be lodged with the Receiver of Public Moneys in this office before or at the time of execution of the documents.

Your priced Bill of Quantities is at present being checked. It will be necessary for the prices contained therein to be approved before signing the documents.

Please address all future correspondence in connection with this contract to the District Officer, Department of Works, Box 794 Post Office, Newcastle and quote reference 65/1684. It would be appreciated if you would submit all future correspondence in duplicate.

Your attention is drawn to Condition 7 (7) and (8) of the General Conditions of Contract concerning progress payments for work executed by nominated sub-contractors. It is suggested that proof of payment could be in the form of a receipt from the particular nominated sub-contractor and arrangements may be made with the Department's representative to sight these receipts on the site of the works.

LOCATION:

WILLIAMTOWN.

DESCRIPTION OF WORK:

Erection of new Sergeants Mess building and laundry block at R.A.A.F. Station.

DOCUMENT**BILL OF QUANTITIES****FOR****ERECTION AND COMPLETION****COPY****Junior Officers Sleeping Block
Building 58****AT****R.A.A.F. Station, Williamtown, N.S.W.****FOR****Commonwealth of Australia
Department of Works
N.S.W. Branch****13770****R. C. LONGLEY** F.I.Q.S. (AUST.)
QUANTITY SURVEYOR
508 Pacific Highway
St. Leonards, N.S.W.
Phone : 43 4789**B. A. BROGAN**
Director of Works

Tenders to close at 12 noon on Tuesday.....



LEG66/59146

BILL OF QUANTITIES FOR ERECTION AND
COMPLETION OF NEW JUNIOR OFFICERS'
SLEEPING BLOCK, BUILDING 58, AT
R.A.A.F. STATION, WILLIAMTOWN, N.S.W.

For the Department of Works,
Commonwealth Centre,
Chifley Square,
SYDNEY, N.S.W.

This is the priced Bill of Quantities marked " " referred to in the Annexed Agreement with the Commonwealth of Australia.

Dated this Intk day of March 1966.

R: W. BLACK PTY. LTD.
Signature: [Signature] Managing Director.

Witness: [Signature]

Time for Completion: 45 Weeks.

Liquidated Damages: £98. per week.

Maintenance: See Maintenance Clause A.13.

D.145	Asphalt membrane to comprise an approved pre-mixed rock asphalt laid by an approved manufacturer and conforming with B.S.S. 1097/1943, the asphalt material to be brought on to the premises in unbroken hexagonal shaped blocks bearing the distinguishing mark or letter "D".	Note		
D.146	The blocks to be heated to a temperature not greater than 450° F. and the asphalt applied over clean and dry screeded concrete slab surfaces to a finished minimum thickness of $\frac{3}{4}$ " in two $\frac{3}{8}$ " thick layers.	Note		
D.147	Each layer to be put down hot to screeds, well rubbed and pressed on to thoroughly work into the concrete surfaces, the joints to be lapped approx. 3" and to be staggered in the layers.	Note		
D.148	Prices to include for all temporary screeds, grounds, rules, etc.	Note		
D.149	Asphalt damp-proof membrane as above described between laminated concrete ground floor slabs, minimum $\frac{3}{4}$ " thick in two $\frac{3}{8}$ " thick layers.	Sup.yds.	452	\$3.03 1369
D.150	Extra labour and material fusing membrane to bituminous felt strips at wall and floor abutments, the angle finished with splayed fillet in two coat work.	Lin.ft.	1454	\$0.25 363
D.151	Allow for well caulking around service pipes, etc. passing through membrane.	Item		incl.
D.152	$\frac{1}{2}$ " thick approved type bituminous impregnated asbestos felt in $7\frac{3}{4}$ " wide strips, set in joint between floor slabs and walls, laid in long straight lengths with and including butt joints and angles made with an approved evergreen type caulking compound compatible with the strip material, the top edge of the felt to finish neatly in line with concrete floor surface.	Lin.ft.	1454	\$0.20 290

Carried to Collection \$

2023

CONCRETOR
Building 58.
Williantown

G.30	Build 8" x 2" ceiling hangers into gable.	No.	4	\$0.25	1	0
G.31	Trim ceiling framing for and form manhole 21" x 30" clear opening size; the opening to have $\frac{7}{8}$ " No.2 Clear Oregon linings all round, projected to finish 1" below ceiling finish and having $\frac{1}{2}$ " beads at junction. Fit cover of 13/16" thick approved solid core hung on two 4" steel butt hinges to open up. Provide and fix selected brass "D" handle and galvanised padbolt.	No.	1	\$40.00	40	0
<u>Eaves and Gable Trims:</u>						
G.32	10" x 1 $\frac{1}{4}$ " D.A.R. Oregon barge boards, mitred at apex, plumb cut at ends and grooved for a.c. linings.	Lin.ft.	96	\$0.70	67	2
G.33	4" x 2" hardwood purlins at 18" centres, at right angles to gable wall, trimmed back to 1st. rafter within gable, spiked to wall plate.	Sup.ft.	136	\$0.35	47	6
G.34	4" x 1" do. packing plate fixed up to last over gable windows.	Sup.ft.	32	\$0.35	1	2
G.35	3" x 2" do. nogging cut between purlins over gables.	Sup.ft.	96	\$0.35	33	6
G.36	10" x 1 $\frac{1}{4}$ " D.A.R. Oregon fascia mitred at joints to barge, grooved for a.c. linings.	Lin.ft.	245	\$0.70	171	5
G.37	Trip-L-Grip or equal framing anchors in joint of 4" x 2" and to 10" x 1 $\frac{1}{4}$ " fascias and barge (2 to each).	No.	448	\$0.15	67	2
G.38	3/16" thick flat asbestos cement sheets lining to gable and eaves soffits, fixed with flat head galv. a.c. nails up to and including 2" x 1" fixing battens spaced to suit. Include in price for "H" section aluminium comes to cross joints and for edge being set in fascia grooves.	Sup.yds.	57	\$3.00	171	6
G.39	3/16" thick do. do. as last but to balcony ceiling. Include fixing battens a.b. and comes to all joints.	Sup.yds.	9 $\frac{1}{2}$	\$3	28	2

Carried to Collection \$628.8

CARPENTER
Building 58.
Williamstown

J.44	3" x 2" shaped hardwood rail, "Ramset" fixed to concrete.	Lin.ft.	25	\$0.35	8	7
J.45	3" x 2" do. do. bolted to false ceiling suspension members (6 bolts).	Lin.ft.	25	\$0.35	8	7
<u>Sprayed Acoustic Plaster:</u>						
J.46	Refer to Specification for detailed descriptions.	Note				
J.47	Prepare concrete soffits and apply $\frac{1}{2}$ " thick sprayed vermiculite in eight coat work, the last four in selected colour and having a min. sound absorption rate of 42% at 512 cycles.	Sup.yds.	616	\$2.30	1416	1
J.48	Do. and apply $\frac{1}{2}$ " do. do. on stair soffits.	Sup.yds.	36	\$2.30	82	1
J.49	Sprayed on vermiculite in eight coat work a.b. finishing $\frac{5}{8}$ " to $\frac{3}{4}$ " thick and having a min. sound absorption rate of 80% at 512 cycles, applied to and include for 13 and 16 gauge galvd. wire mesh with Kraft paper woven in equal to "K-Lath" fixed on and inclusive of 2" x 1" pine battens at 18" centres well spiked to ceiling joists. Turns back edges of "K- Lath" 6" to reinforce at margins between battens.	Sup.yds.	16	\$6.00	96	
J.50	Allow for masking at edges of sprayed areas.	Lin.ft.	2130	incl		
J.51	Allow for forming 60° splay edge at expansion joints.	Lin.ft.	46	incl		
J.52	Caulk expansion joint about $\frac{3}{8}$ " x $\frac{3}{4}$ " with approved elasticised caulking.	Lin.ft.	46	\$0.10	4	
<u>Exposed Aggregate Panels:</u>						
J.53	Submit samples 6" x 6" of proposed finish and execute the work equal to selected sample.	Item			incl	
J.54	Exposed aggregate panels of $\frac{3}{8}$ " thick compressed flat asbestos cement sheet, having $\frac{1}{4}$ " thick ex- posed aggregate facing bonded on, the aggregate of selected crushed glass and stone, similar and equal (over)					
Carried to Collection					\$	1617

PLASTERER
Building 58.
Williamstown

Item No.						
K.46	6" x 6" do. do. but in narrow widths of 0" to 18".	Sup.yds.	74	\$ 9.00	666	
K.47	Extra only for round edged tiles.	Lin.ft.	1570	\$0.10	157	
K.48	Do. for 6" x 3" recessed soap holder to match tiles, include for chasing out for same.	No.	12	\$2.50	30	
K.49	Do. for 6" x 6" recessed tile foot rest do., include do.	No.	9	\$ 3.00	27	
K.50	Do. for 6" x 6" recessed tile soap holder with grip, do., include do.	No.	3	\$ 4.00	12	
K.51	Do. for 6" x 3" tile vents to bath riser, do.	No.	6	\$0.90	5	
K.52	Allow for neatly cutting and fitting all tiles to fittings, floor wastes, etc.	Item		incl.		
	<u>Flexible Vinyl Tiles:</u>					
K.53	Tiles shall conform to British Standard No. B.S. 3261/60 and shall be 12" x 12" x 1/10" thick soft P.V.C. floor tiles in selected colours such as "Hi-Vinyl".	Note				
K.54	12" x 12" x 1/10" P.V.C. floor tiles laid and fixed by skilled tradesmen all to manufacturer's printed instructions. Price to include for cleaning off, applying two coats heavy duty liquid wax polish, machine polishing and protecting finished surfaces with building paper to approval and all as specified.	Sup.yds.	8 1/4	\$ 4.25	35	0
K.55	12" x 12" x 1/10" P.V.C. do. do. cut to width and fixed on stair treads a.b.	Lin.ft.	128	\$0.55	70	4
K.56	12" x 12" x 1/10" P.V.C. do. do. cut to width and fixed on stair risers a.b.	Lin.ft.	144	\$0.30	43	2
K.57	Approved P.V.C. stair nosing fixed to tread edge a.b.	Lin.ft.	152	\$0.48	72	9
K.58	Approved P.V.C. nosing strip of 3/4" x 3/4" angle glued on tread ends, include mitre to similar on riser and for cutting at junction to tread nosing, each about 13" long.	No.	48	\$0.30	14	4

PAVIOR, TILER
AND TERRAZZO WORKER
Building 58.
Williamstown.

Carried to Collection £

NO.						
K.59	Do. do. as last but cut to free ends of risers, mitred each end, about 8" long.	No.	48	\$0.30	14	4
	<u>Vinyl Felt Floor Covering:</u>					
K.60	Approved P.V.C. sheet vinyl having a laminated felt backing and equal to "Krommenie Parma" of 3 mm. thickness overall, supplied in sheet form 2 metres wide, and cemented down using "Pabco 83" adhesive, all to manufacturer's instructions and as specified. Include for thoroughly cleaning off on completion.	Sup.yds.	1107	\$3.55		
K.61	4" high "Nylex" Cat. No. 1P.1075 feather edged vinyl skirting, fixed on perimeter of vinyl sheeted floors, all to manufacturer's instructions. Include do. do.	Lin.ft.	3240	\$0.28	907	2
	<u>Lino Wall Tiles:</u>				259	2
K.62	Prices for lino. wall tiles shall include:- (a) Brushing down of rendered surface to remove loose particles and all detrimental matter. (b) Paint one coat of approved clear cement sealer. (c) Paint one priming coat comprising three parts methylated spirits mixed to one part of "404" lino. adhesive. (d) Cleaning down on completion to leave all surfaces free of adhesive marks or other defects. (e) Application of "158" or equal liquid polish.	Note				
K.63	18" x 18" x 1/16" "Nairn Permawall" or equal first quality lino. tiles of selected colours, fixed with "202" or equal adhesive to walls, and in hydrant recesses, laid with bonded joints, all fine, plumb, level and even with all faces flat and all margins to adjoining materials made with fine close joints.	Sup.yds.	740	\$2.05	1517	0
K.64	9" x 1/16" first quality selected colour P.V.C. strip fixed to walls, and including preparatory work a.b. (On Stair landings).	Lin.ft.	35	\$0.30	10	5

PAVIOR, TILER
AND TERRAZZO WORKER
Building 58.
Williamstown

Carried to Collection

77.

~~5730~~ 9
6378-95

No.					
M.49	Clean down, apply one coat zinc rich metal primer, one undercoat and one finishing coat Full Gloss Enamelised House Paint to the following:-				
M.50	5" x 2½" R.H.S. handrail to external stairs.	Lin.ft.	93	\$0.10	9.3
M.51	1" x 1" balusters supporting last. (85 off).	Lin.ft.	255	\$0.10	25.5
M.52	3'0" high pipe balustrade, having 1½" dia. top rail and standards at 3'9" centres, 1½" x ¼" bottom rail set down 30" and having 7/8" dia. balusters at about 7½" centres (overall both faces given).	Sup.yds.	21	\$0.90	18.9
M.53	4" x ½" brass cover plates to expansion joints.	Lin.ft.	189	\$0.05	9.4
M.54	4" dia. G.W.I. service pipes.	Lin.ft.	46	\$0.05	2.3
M.55	2½" dia. do. do.	Lin.ft.	8	\$0.05	.4
M.56	1½" dia. do. do.	Lin.ft.	9	\$0.05	.4
M.57	3" copper do. do.	Lin.ft.	28	\$0.05	1.4
M.58	2" copper do. do.	Lin.ft.	89	\$0.05	4.4
M.59	Copper work in vents above roof not painted.	Note			
	<u>Asbestos Cement:</u>				
M.60	Clean down, paint one coat of pigmented alkali resisting sealer and two finishing coats of Full Gloss Enamelised House Paint on a.c. sheets, price to include for aluminium beads at joints being etched and painted in with the surrounding work. Apply to the following:-				
M.61	Asbestos cement eaves and gable soffits.	Sup.yds.	57	\$1.00	57.0
M.62	Asbestos cement external ceilings.	Sup.yds.	9½	\$1.00	9.5
	<u>Cement Render:</u>				
M.63	Prepare, paint one coat alkali resisting sealer and two coats of flat alkyd paint to the following render:-				
M.64	Balcony soffits.	Sup.yds.	21	\$1.00	21.0
<u>PAINTER</u>		Carried to Collection \$			
Building 58.		\$ 159.6			
Williamstown					

579

COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF WORKS

Q/V 136 26

SERGEANTS' MESS & LAUNDRY

FOR

R. A. A. F.

AT

WILLIAMTOWN, N. S. W.

BILL OF QUANTITIES

CHAS. A. HARDING & SON
QUANTITY SURVEYORS
65 YORK STREET, SYDNEY

A. S. REIHER
DIRECTOR OF WORKS
THE COMMONWEALTH CENTRE
ELIZABETH STREET • SYDNEY

10/30

MAY 1965

COMMONWEALTH OF AUSTRALIAMAY, 1965BILL OF QUANTITIES FOR THE ERECTION AND COMPLETION OF SERGEANT'S MESS
BUILDING AND LAUNDRY AT THE R.A.A.F. STATION, WILLIAMTOWN, N. S. W.

For the Department of Works,
Commonwealth Centre,
Elizabeth Street,
SYDNEY, N.S.W.

This is the Priced Bill of Quantities marked " " referred to in the Annexed Agreement with the Commonwealth of Australia.

* 2 AUG 1965

Dated this.....day of196 .

R. W. BLACK, PTY. LTD.

(Signature)

[Signature]
Managing Director

(Witness)

[Signature]
Barrass.

TIME: Forty (40) weeks.

LIQUIDATED DAMAGES: One Hundred and Forty Pounds (£140) per week.

MAINTENANCE: See "Maintenance" Item A.13.

NOTES

Sergeant's Mess
WILLIAMTOWN.

Item
No.

C.28 (given in "Plasterer and Ceiling Fixer") to be
(cont.) placed on forms before slabs are poured.

Item

C.29 Allow to provide templates to accurately position all holding down bolts.

Item

C.30 Allow for construction joints in concrete work where required.

Item

Miscellaneous:

C.31 Approved membrane placed in bottoms of trench excavations for strip footings to prevent contamination of the concrete and loss of water, cement slurry or fines from the concrete (measured nett area covered).

Sup.yds

C.32 Ditto in bottoms of pier hole excavations for footing pads ditto (ditto).

Sup.yds

C.33 Screed surfaces of footings, etc. level ready to receive brickwork.

Sup.yds

C.34 Finish concrete surface of paths and pavings with type 2 finish as specified to approval as final paving.

Sup.yds

C.35 Ditto but at edges.

Sup.yds

C.36 Ditto but at benchings.

Sup.yds

C.37 Single ply malthoid placed onto rendered walls for bearing of concrete slabs (rendering under is given in "Bricklayer").

Sup.yds

C.38 Bitumen impregnated asbestos felt placed between slabs and walls, etc.

Sup.yds

C.39 Form contraction joint in 5" thick concrete floor slab; include for temporary formwork and for filling joint with bitumen impregnated asbestos felt full depth.

Lin.ft

C.40 Ditto in 6" ditto; ditto.

Lin.ft

C.41 Ditto in 9" thickened edge to slab.

Lin.ft

C.42 Form expansion joint in 3" thick paving slab; include for temporary formwork and for filling joint with bitumen impregnated asbestos felt full depth.

Lin.ft

C.43 Form slightly rounded corner on paving slabs at free edges and expansion joints.

Lin.ft

C.44 Ditto at abutments with kerbs, etc.

Lin.ft

CONCRETOR

Sergeant's Mess
WILLIAMTOWN

To Collection

£

Item No.						
H.227	Ditto in 3" x 2" head plate checked and spiked.	Sup.ft.	13	3/6	2 5 6	
H.228	Ditto in 3" x 2" blockings housed at ends.	Sup.ft.	6	3/6	1 1	
	<u>The following quantities are contained in Internal Wall between Dining Room and Ante Room:-</u>					
H.229	Reduced Hardwood as described in 4" x 2" bottom checked for studs and plug fixed to concrete floor.	Sup.ft.	4	3/6	1/4	
H.230	Ditto in 4" x 2" studs a.b.	Sup.ft.	28	3/6	4 18	
H.231	Ditto in 4" x 2" noggings a.b.	Sup.ft.	7	3/6	1 4 6	
H.232	Ditto in 4" x 2" top plate checked for studs.	Sup.ft.	4	3/6	1/4	
H.233	Ditto in 5" x 3" head packing.	Sup.ft.	10	3/6	1 15	
H.234	Wrot linings, jambs, etc., in conjunction with this wall are given later with Door Frames.	Note				
	<u>External Wall Linings:</u>					
H.235	Flat asbestos cement sheet linings to panels over window walls are given later with Window Walls.	Note				
H.236	Profiled asbestos cement sheet linings to be $\frac{1}{4}$ " thick similar and equal to 'Fibroc' "Coverpanel" having $1\frac{3}{4}$ " wide ribs at $7\frac{1}{2}$ " centres and forming a $\frac{5}{8}$ " overall depth of panel. The whole to be fixed strictly in accordance with the Manufacturer's printed recommendations and instructions with vertical joints having $1\frac{1}{2}$ " side lap and horizontal joints fitted with standard Z section galvd. weatherstripping. Care must be taken in fixing to ensure that the ribs of panels above and below horizontal joints continue in the same straight lines.	Note				
H.237	Profiled asbestos cement sheet linings as above described fixed complete with weatherstripping to timber framed wall at Dining Room (measured nett area covered.)	Sup.yds.	59	45/-	132 15	
H.238	Ditto ditto at Plant Room No.2 (ditto).	Sup.yds.	6	45/-	13 10	
H.239	Ditto ditto at Kitchen Lantern spandril (ditto).	Sup.yds.	7	45/-	15 15	
H.240	Ditto ditto at Verandah spandril (ditto).	Sup.yds.	10	45/-	22 10	
		To Collection		£	199 2	
	CARPENTER & JOINER					
	Sergeant's Mess					
	WILLIAMTOWN					

Item No.									
H.241	Ditto but fixed as facing to solid brick walls (ditto); battens are given hereafter.	Sup.yds.	18	45/-	40	10			
H.242	Raking cutting and waste.	Lin.ft.	70	incl					✓
H.243	Reduced Pine as described in 2" x 2" cleats plug fixed to brickwork.	Sup.ft.	2	3/6		7			✓
H.244	Ditto in 2" x 1" battens ditto.	Sup.ft.	61	3/6	10	13	6		✓
H.245	Aluminium Z section cover mould 1" x 1/4" over-all screw fixed at end of wall linings.	Lin.ft.	6	3/-		18			✓
H.246	24 gauge 'Alcor' aluminium flashing strip approx. 3" girth twice folded and fixed at bottom of linings; Verandah.	Lin.ft.	47	1/-		27			✓
H.247	3" x 1" wrot clear grade Pine nosed cover mould planted on at ends.	Lin.ft.	10	3/3		112	6		✓
H.248	1" x 1" ditto ditto.	Lin.ft.	13	2/6		112	6		✓
H.249	Allow to provide 1" x 3/8" finished thickness packing pieces to foregoing profiled asbestos cement sheet ribs as necessary at window openings or at ends where sheets do not overlap.	Item		£5		5			✓
H.250	3/16" thick autoclaved asbestos cement sheet lining fixed to infill framing above toilet windows (in No.4 panels.)	Sup.yds.	4	25/-		5			✓
H.251	1/2"(f) x 1/2"(f) wrot clear grade Pine cover mould planted on at ends of last.	Lin.ft.	10	1/-		10			✓
	<u>Internal Wall Linings:</u>								
H.252	3/16" thick autoclaved asbestos cement sheet lining fixed to infill framing above toilet windows (in No.4 panels.)	Sup.yds.	4	25/-		5	00		✓
H.253	Ditto fixed to timber framed wall at Plant Room No.2; set out in even sheets and include for extruded aluminium moulds at joints and edges.	Sup.yds.	22	25/-		27	10		✓
H.254	1" x 1" wrot clear grade Pine nosed cover mould planted on at internal corners of room.	Lin.ft.	17	1/6		15	6		✓
H.255	1/2"(f) x 1/2"(f) ditto ditto at ends of panels.	Lin.ft.	10	1/-		10			✓
H.256	3/16" plywood sheet lining Mountain Ash veneered for clear finish fixed to timber framed walls at Dining and Ante Rooms; include for aluminium joint moulds.	Sup.yds.	22	28/-		30	16		✓
H.257	9/32" random grooved plywood in selected veneers fixed to ditto; ditto.	Sup.yds.	36	£2		72			✓
		To Collection		£		203	2		✓
						205	120		✓

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WILLIAMTOWN

No.					
H.258	1" x 1" aluminium angle mould fixed at perimeters of plywood linings.	Lin.ft.	124	4/-	24 16
	<u>Top Hampers, Grille & Shutter Boxes:</u>				
	<u>The following quantities are contained in Top Hampers etc., over Servery to Dining Room as detailed on Drawing No.NA65/651B:-</u>				
H.259	Reduced Pine as described in 6" x 3" beams.	Sup.ft.	36	3/6	6 6
H.260	Ditto in 4" x 3" beam.	Sup.ft.	11	3/6	1 18 6
H.261	Ditto in 4" x 3" bottom frame; include to splay off one (1) corner.	Sup.ft.	10	3/6	1 15
H.262	Ditto in 4" x 2" bearers at bottom.	Sup.ft.	3	3/6	10 6
H.263	Ditto in 3" x 2" ditto.	Sup.ft.	3	3/6	10 6
H.264	Ditto in 3" x 2" top plate.	Sup.ft.	12	3/6	2 2
H.265	Ditto in 3" x 2" studs.	Sup.ft.	46	3/6	8 1
H.266	Ditto in 3" x 2" noggings.	Sup.ft.	26	3/6	4 11
H.267	Ditto in 2" x 2" bracing.	Sup.ft.	3	3/6	10 6
H.268	Ditto in 3" x 2" plate plug fixed to concrete beam casing.	Sup.ft.	6	3/6	1 1
H.269	Ditto in 4" x 2" bearers plug fixed to brick wall.	Sup.ft.	2	3/6	7
H.270	Ditto in 3" x 2" bearers ditto.	Sup.ft.	1	3/6	3 6
H.271	Ditto in 3" x 2" studs ditto.	Sup.ft.	6	3/6	1 1
H.272	Ditto in 2" x 2" bracing ditto.	Sup.ft.	12	3/6	2 2
H.273	3/16" thick autoclaved asbestos cement sheet lining fixed to sides and soffits of fore-going framing; set out in even sheets and include for extruded aluminium moulds at joints.	Sup.yds.	19	29/-	23 15
H.274	Raking cutting and waste on last.	Lin.ft.	23	1/-	1 3
H.275	Extra only for fitting portion of asbestos sheet lining as removable access panel to roller shutter and trim with aluminium moulds; size to be ascertained and the panel secured with C.P. screws into cup washers as indicated.	No.	1	30/-	1 10
H.276	1" x 1" extruded aluminium angle section cover mould fixed at external corner and at shutter entry.	Lin.ft.	38	4/-	7 12
	<u>CARPENTER & JOINER</u>	To Collection		£	89 15 6
	<u>Sergeant's Mess</u>				
	<u>WILLIAMTOWN</u>				

Item
No.

H.353

Panels to have 2" x 1" batten let flush into studs to receive pelmet and internal wall lining. Similarly let in 2" x 1½" batten to receive ceiling edge finish as detailed on section 3 (Drawing No. NA65/643B).

Note

H.354

All framing of panels is to have 2" thick mineral wool insulation blanket well felted and sealed between two (2) layers of special paper and provided with flanges on each side for fixing to the stud framing. All similar and equal to "Insulwool" blanket.

Note

H.355

External linings to solid panels to be 3/16" autoclaved asbestos cement sheeting of two (2) sheets per panel; the vertical joint fitted with standard section extruded aluminium joint mould and beaded in elsewhere with 1" x 1" nosed angle mould set in mastic. Sheeting is to finish flush with outer face of head framing and at bottom fitted with 24 gauge aluminium flashing approx. 4" girth folded down to a uniform line over head frame of window wall as detailed. At vertical joint in sheeting "Alcor" flashing 3" wide is to be fixed behind the mould and carried down over bottom flashing.

Note

H.356

Internal linings to solid panels to be 3/16" autoclaved asbestos cement sheeting in two (2) equal sheets per panel and beaded in all round. Lining is not required at bottom where 4½" high pelmet occurs and at top where ceiling occurs (approx. 7½" below top plate.)

Note

H.357

Solid panel as above described above window wall at South wall of Visitors Room, approx. 8'9" long, 2'6" high overall; include for 5" x 2" timber framing jamb, mullion, etc., extensions, M.S. brackets, 2" x 1" and 2" x 1½" battens, 2" mineral wool blanket, external and internal linings with moulds, flashings, bolts, straps, etc. complete. Secure both ends to brickwork and finish at both ends internally with ¾"(f) x ¾"(f) timber mould, externally with 5" x 1½" timber lining.

No.

1

£17

17

I.358

Ditto at North wall of Billiard Room, approx. 9'6" long, 2'6" high overall; ditto. Secure one (1) end as last and at other end to steel box column. Finish at one (1) end as last.

No.

1

£17

17

I.359

Ditto ditto approx. 9'4" long, 2'6" high overall; ditto. Secure and finish as last.

No.

1

£17

17

I.360

Ditto at North wall of Ante Room, approx. 9'4" long, 2'6" high overall; ditto. Secure and finish as last.

No.

1

£17

17

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Sergeant's Mess
WILLIAMTOWN

93.

To Collection

£

68

✓

H.361 Ditto at North wall of Ante Room and Dining Room, approx. 9'8" long, 2'6" high overall; ditto. Secure both ends to steel box column.

No.

10

£17 170

H.362 Ditto all as last but at South wall of Dining Room; ditto.

No.

1

£17 17

H.363 Ditto above external doorway (Ref.2) located adjacent to last, approx. 3'1" long, 2'6" high overall; ditto. Secure one (1) end to brickwork, other end to steel box column. Finish at one (1) end internally with $\frac{3}{4}$ "(f) x $\frac{3}{4}$ "(f) timber mould, externally with 5" x 1 $\frac{1}{4}$ " timber lining.

No.

1

£8 8

H.364 The following panels are required to window wall units in Ante Room and Dining Room at lower portions, but only where wall hung heaters are being installed (by Mechanical Services Sub-Contractor); all as detailed (on Drawing No. NA65/647B). The exposed aggregate panels to external faces are given separately.

Note

H.365 Framing and internal sheet lining at window wall unit (below lower transome) approx. 9'3" long, 2'7" high overall, with the lining in two (2) panels of 3/16" plywood neatly fitted at all edges as indicated to terrazzo plinth, timber transome, end jambs and intermediate mullion; the lining panels planted onto three (3) horizontal rows of 2" x $\frac{1}{2}$ " battens and similar verticals at ends of panels. Framing to be 2" x 2" studs at end jambs and mullion and at 18" centres between, all studs housed and spiked to similar top and bottom plates secured to approval.

No.

5

£9 45

Exposed Aggregate Panels:

H.366 All panels to be accurately sized to suit openings and be similar and equal to "Pebbletex" A.C. Panels, Series 201-1000 as manufactured by Pebbletex Finishes Pty.Ltd.

Note

H.367 The exposed aggregate face must be graded to give 95% (plus or minus 2%) cover of the base resins and bonded homogeneously and with spray resin to the $\frac{1}{4}$ " thick asbestos cement sheets to form completely waterproof units. Sheets to be clear back finished, formed with $\frac{1}{2}$ " wide clean margin on all edges where set in steel framing and on top and each side where into timber framing.

Note

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Sergeant's Mess
WILLIAMTOWN

94.

To Collection

£

240

Item No.					
H.368	Asbestos cement panels having exposed aggregate as above described in selected colours with texture similar to "Pebblecrete Pattern" No.683 and fixed at base of timber window walls (bedding, etc., given separately.)	Sup.ft.	375	16/-	300
H.369	Extra cost for forming $\frac{1}{2}$ " wide clean margin at panel edges.	Lin.ft.	301	1/-	15 1
H.370	Bed panels in mastic.	Lin.ft.	301	1/-	15 1
H.371	Ditto at terrazzo thresholds; include to point as required.	Lin.ft.	136	1/-	6 16
H.372	$\frac{3}{4}$ " x $\frac{1}{2}$ " aluminium beads fixed to secure edges of panels; set in mastic as for panels and neatly point up, mitre at corners and screw fix to timber framing at 12" centres approx. with screws adjacent to each end.	Lin.ft.	301	5/6	82 15 6
	<u>Pelmets:</u>				
H.373	Pelmet formed out of three 1" solid wrot clear grade Pine timbers as detailed (on Drawing No.NA65/647B) and fixed on shaped steel brackets (given hereafter) at window walls, etc.,; the back lining $4\frac{1}{2}$ "(f) high and spiked to timber framing behind, the top lining 5"(f) and the front fascia 7"(f) high with bevelled bottom edge, all members double screwed to the brackets and the back fitted between intervening mullions, etc., as required.	Lin.ft.	191	15/-	143 5
H.374	Extra for free ends with fascia mitred and returned.	No.	3	15/-	2 5
H.375	"U" shaped mild steel brackets of $1\frac{1}{2}$ " x $\frac{3}{16}$ " section approx. 13" girth, twice folded, six (6) times drilled and heavily galvanised; fix inverted to support top and fascia.	No.	70	5/-	17 10
	<u>Sun Screens:</u>				
H.376	The following sun screens are required at North walls of Dining Room, Ante Room and Billiard Room. Details are on Drawing No. NA65/645B, and on Engineers Drawing for steel outrigger brackets; later are given in "Structural Steelworker".	Note			
H.377	Fascias are to line with adjacent roof fascias.	Note			
H.378	All joints and bolt drillings to be sealed with white lead prior to framing and immediately after erection the whole to be prime painted.	Item		well	
	<u>CARPENTER & JOINER</u> Sergeant's Mess WILLIAMTOWN	To Collection		£	582 13 6
	95.				

Item No.					
H.500	$\frac{3}{8}$ " diam. bolts approx. $4\frac{1}{4}$ " long fixed to secure timber plate to steel cap.	No.	2	1/6	3
H.501	$\frac{1}{2}$ " ditto 6" long fixed to secure ditto to brick wall.	No.	10	2/-	1
H.502	$\frac{1}{4}$ " ditto 4" long fixed to secure framing to steel standard; include to check head flush.	No.	10	2/-	1
H.503	2" thick mineral wool insulation as described fitted tightly between timber framing at division and walls (measured overall; intervening timbers not deducted.)	Sup.yds.	11 $\frac{1}{2}$	23/-	13 4 6
H.504	2" ditto ditto at false ceiling (ditto).	Sup.yds.	2 $\frac{1}{2}$	23/-	27 6 17 6
H.505	Paint 2" wide batten or framing with matt black paint where in contact with aluminium sheet lining (given hereafter); to be applied before lining is fixed.	Lin.ft.	159	6	3 19 6
H.506	Paint 1" wide ditto; ditto.	Lin.ft.	39	3	9 9
H.507	20 gauge aluminium sheet lining having satin finish and perforations as indicated; fix in single lengths and widths throughout to timber framing of freestanding division to approval with turnings at edges as detailed.	Sup.ft.	50	5/-	12 10
H.508	Ditto; ditto but fixed to wall battens.	Sup.ft.	87	5/-	21 15
H.509	Ditto; ditto but fixed to ceiling battens.	Sup.ft.	24	5/-	6
H.510	Extra labour only turning aluminium sheeting at edges.	Lin.ft.	108	1/-	5 8
H.511	Small aluminium angle trim screw fixed vertically at internal angles.	Lin.ft.	51	2/-	5 2
H.512	2"(f) x $\frac{3}{4}$ "(f) wrot clear grade Pine cover mould rounded on one (1) edge and planted on.	Lin.ft.	33	2/6	4 2 6
H.513	2"(f) x $\frac{3}{4}$ "(f) ditto ditto rounded on two (2) edges and ditto.	Lin.ft.	11	2/6	1 7 6
H.514	3/16" thick flat asbestos cement sheet lining a.b. but fixed at bulkhead and approx. 16" wide; include for extruded aluminium joint moulds and for full length aluminium edge moulds as detailed.	Lin.ft.	6	12/-	3 12
H.515	Shelf approx. 2'9" long, 1'2" wide with both ends against booth wall linings and having $\frac{3}{4}$ " (f) solid top supported on 2" x 1" framing, a front nosing out of 3" x $1\frac{1}{4}$ " twice rounded and splayed, soffit lining of hardboard and finished with a 2" x $\frac{1}{2}$ " rounded skirting above top.	No.	2	15/-	1 10

CARPENTER & JOINER
Sergeant's Mess
WILLIAMTOWN

111.

To Collection

£

83 13

84 13

CEILING FIXER

K.1 Tenderers are referred to the Specification for detailed descriptions of materials, etc. The whole of the work shall be faithfully executed to the requirements of the Specification which forms part of the Contract.

Note

K.2 Refer to "Plasterer" for rendered ceilings and to "Carpenter and Joiner" for asbestos cement ceilings to Verandah, Covered Ways and Garbage Room.

Note

Sprayed Acoustic Ceilings:

K.3 All the following sprayed acoustic ceiling work is to be carried out by skilled and experienced operatives.

Note

K.4 There will be no cornices to acoustic ceilings, the treatment being butt finished up to aluminium angle trim.

Note

K.4a Sprayed acoustic ceiling finish to be fixed to battens (given in "Carpenter and Joiner") all nogged and trimmed around perimeters, light fittings and other openings, Inspect to ensure all are levelled to within $\frac{1}{8}$ " on underside.

Note

K.5 Vermiculite and gypsum acoustic ceiling finish equal to Pyrock Acoustic Mix J spray applied with a minimum of twelve (12) coats to a $\frac{5}{8}$ " - $\frac{3}{4}$ " thickness having the last $\frac{1}{4}$ " integrally pigmented with a selected colour and finished to an approved texture and uniform surface. Ceilings are at approx. 8'6" above floor level with the acoustic mix applied to and include for a paper backed welded wire fabric, equal to "K-Lath" and fabricated of cold drawn galvd. steel wires electrically welded at all intersections and backed with a heavy kraft backing paper, slotted to provide key for mix and to ensure complete embedment of reinforcement, the fabric fixed in long lengths with the long dimensions and back wires at right angles to the ceiling battens, side laps at least 2" (one mesh) end laps at least $1\frac{1}{2}$ " (one mesh), the side laps being wire tied with 18 gauge galvd. tie wire once between battens, laps staggered and the whole secured to end supporting battens, etc., with nails clouts or staples spaced at not more than 6" apart in each support (measured nett area covered).

Sup.yds. 209

46/- 480/14 -

K.6 Ditto all as last but at soffit of dropped panels in T.V.Room (ditto).

Sup.yds. 16

46/- 36/6 -

CEILING FIXER
Sergeant's Mess
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136.

To Collection

£

517/10

Item
No.

- K.24 Refer to "Carpenter and Joiner" for timber cornices to fibrous plaster ceilings.
- K.25 $\frac{3}{8}$ " thick fibrous plaster ceilings fixed complete as above described; include for 2" x 1" Pine battens, stopping, jointing, etc.
- K.26 $\frac{3}{8}$ " ditto fixed as facing to 16" x 16" manhole cover.
- K.27 $\frac{3}{8}$ " ditto to 22" x 16" ditto.
- K.28 Allow to trim fibrous plaster ceilings for manholes, light fittings, etc., as required with all requisite additional battens as directed and the sheets neatly cut and fitted around drop points.

Note

Sup.yds.

81

25/- 10/ 5

No.

2

10/- 1

No.

2

10/- 1

Item

incl

Asbestos Cement Ceilings:

- K.29 $\frac{3}{16}$ " thick standard asbestos cement sheet ceiling linings fixed to flat ceilings in large size sheets generally, set out to a symmetrical pattern as directed, secured with galvd. hollow pointed nails and finished with and include for extruded aluminium moulds at joints to body of ceiling. (Battens and cornices are given in "Carpenter & Joiner".)
- K.30 $\frac{3}{16}$ " ditto fixed to sloping ceilings over Kitchen as last; ditto (ditto).
- K.31 $\frac{3}{16}$ " ditto fixed as facing to 22" x 16" manhole cover.
- K.32 Allow to trim asbestos cement ceilings for manhole, light fittings, etc., as required.

Sup.yds.

117

22/- 128 14

Sup.yds.

123

22/- 135 6

No.

1

30/- 1 10

Item

5 5

To Collection

£ 373 15

COLLECTION

Page 136

Page 137

Page 138

Page 139

CEILING FIXER to Summary (Page 2):

£ 3612 4

Item
No.

L.31 Cont. fine sanded finish with a clean face through-out, then apply two (2) coats "Bourne" or similar approved sealer and finish with "Spartan" or similar approved clear liquid spirit wax; all applied in strict accordance with the Manufacturer's recommendations.

Sup.yds. 483 incl

L.32 Form $\frac{1}{2}$ " wide expansion joint between parquet flooring and wall perimeters and fill to approval.

Lin.ft. 307 4/6 69 1 6

L.33 Form expansion joint in parquet flooring and finish both sides of joint with and include for 1" x 1" x $\frac{1}{8}$ " aluminium angles set back to back to finish flush with floor surface and suitably anchored to sub-floor with lugs or screws.

Lin.ft. 40 4/6 9 - -

L.34 1" x 1" x $\frac{1}{8}$ " aluminium angle trim fixed at wall perimeter to parquet floored areas with close butted joints having stainless steel screw fixings into lead plugs at each side and elsewhere at 18" centres; adjacent to terrazzo plinths.

Lin.ft. 122 4/6 27 9 -

L.35 Ditto all as last but adjacent to concrete plinths.

Lin.ft. 6 4/6 17 -

L.36 Ditto ditto but adjacent to brick walls.

Lin.ft. 87 4/9 20 13 3

L.37 Ditto ditto but adjacent to timber framed walls, etc.

Lin.ft. 92 4/6 20 14 -

Vinyl Floor Tiles:

L.38 All vinyl floor tiles throughout are to be laid only by tradesmen skilled and experienced in this work.

Note

L.39 Adhesives and finishes are to be the product of, or of a make and quality recommended by the Manufacturer of the floor tiles and all are to be used and the tiles laid in accordance with the Manufacturer's instructions.

Note

.40 The patterns of floor coverings are to be set out so that equal margins will occur on sides of rooms unless otherwise detailed or directed.

Note

.41 All cuttings to walls, columns, openings and other parts to be accurately done and all tiles to be laid true of line in each direction.

Note

.42 Screeds for vinyl tile pavings are given previously. Any uneven or damaged surfaces (over)

PAVIOR, WALL and
FLOOR TILER
Sergeant's Mess
WILLIAMTOWN

143.

To Collection

£ 148 4 9 ✓

Item
No.

L.42 in same are to be repaired and finished to a
Cont. true and uniform surface with "Cemstick" or
similar approved underlayment as directed
and allowed to thoroughly dry and cure before
vinyl tiles are laid. The Contractor will
be responsible to check that the paved areas
are dry and clean.

L.43 12" x 12" x .080" C.S.R. Hi-Vinyl tiles manu-
factured with pure flexible vinyl resins, or
similar tiles of approved manufacture, laid
in selected colour tones and patterns; include
to clean free of all discolouration and sur-
plus adhesives on completion ready for polish-
ing (given hereafter.)

L.44 Apply two (2) coats heavy duty liquid wax
polish to vinyl tile pavings and power machine
polish.

Linoleum Flooring:

L.45 The linoleum tiles throughout are to be laid
only by tradesmen skilled and experienced in
this work.

L.46 Adhesives for cementing underlay and linoleum
are to be spirit soluble, of a make and qual-
ity recommended by the supplier or Manufact-
urer of the linoleum, and all are to be used
and the covering laid in accordance with the
Manufacturer's instructions and recommendat-
ions.

L.47 The underlay shall be laid in 3'0" wide leng-
ths and in as long lengths as possible with
close butted joints cross joints staggered,
cut to fit against all vertical surfaces,
into doorways, etc., and solidly cemented
and thoroughly rolled into the adhesive.

L.48 Linoleum shall be accurately cut to fit walls,
doorways, etc., and evenly cemented all over
to the underlay, rolled free from bubbles and
weighted until set.

L.49 Screeds for linoleum tile pavings are given
previously. The Contractor will be responsible
to check and ensure that the paved areas are
dry and all damaged surfaces repaired and
made good before laying floor coverings.

L.50 12" x 12" x $\frac{1}{8}$ " linoleum floor tiles, "Nairn"
or similar approved A gauge standard grade
of approved manufacture, laid in selected
color tones and patterns on and include for
(over)

Item

incl.

Sup.yds.

325

£ 1/18/- 6/7 10/-

Sup.yds.

325

2/- 32 10/-

Note

Note

Note

Note

Item

incl.

PAVING, WALL and
FLOOR TILER

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WILLIAMTOWN

144.

To Collection

£

650

✓

Item No.					
L.50 Cont.	underlay of first quality 120 lb. paper felt as above described; include to clean tiles on completion to remove all adhesive spots ready for sealer and polishing (both given hereafter.)	Sup.yds.	46	36/-	82 16 -
L.51	Seal linoleum floor tile pavings with dressing and apply two (2) coats of heavy duty liquid wax polish and power machine polish.	Sup.yds.	46	3/-	6 18 -
	<u>Vinyl Skirtings:</u>				
L.52	4" black vinyl skirting having rounded top edge and chamfered coved base to fit over edge of flooring; fix in long lengths at walls, counters, plinths, etc. formed around internal and external corners as required and in strict accordance with the Manufacturers instructions using adhesive recommended by the Manufacturers for use with their products.	Lin.ft.	692	2/9	95 3 -
L.53	4" ditto but in lengths not exceeding 12" at columns, piers, etc.	Lin.ft.	22	3/-	3 6 -
L.54	4" ditto as Item L.52 but without chamfered cove at base.	Lin.ft.	150	1/8	12 10 -
L.55	4" ditto as last but in lengths not exceeding 12".	Lin.ft.	8	1/9	14 -
	<u>Ceramic & Glazed Tiles Generally:</u>				
L.56	All tiles to be of first quality, free from winding, square on face and edges, of even size and equal in all respects to approved samples.	Note			
L.57	All tiles are to be soaked in water for two (2) hours before laying and to be laid on scratch bed of three (3) parts sand to one (1) part cement; set with fine joints and pointed in white cement. On completion all tiles are to be cleaned to remove all discolouration without scratching.	Note			
L.58	Allow to submit samples from bulk of proposed ceramic and glazed tiles for approval by the Director of Works.	Item		incl.	
	<u>Ceramic Floor Tiles:</u>				
L.59	1" hexagon or $\frac{3}{4}$ " square unglazed ceramic floor tiles of selected colours and pattern laid in rooms where scheduled to true uniform surfaces and graded to outlets where shown or directed; include for graded scratch bed, pointing and cleaning down as above described.	Sup.yds.	103	£3/6/6	342 9 6
	<u>PAVIOR, WALL and FLOOR TILER</u> Sergeant's Mess WILLIAMTOWN	To Collection	£	543 16 6	✓

Item No.					
R.63 Cont.	full gloss surface Type 1, Class A; on counter nosings and moulds at bar.	Sup.yds.	7	10/6	3 13 6
	<u>Metalwork:</u>				
R.64	Prepare, brush free of scale, degrease and apply two (2) coats of undercoating and one (1) coat of enamelled full gloss; on metalwork general surfaces.	Sup.yds.	14	8/-	5 12 -
R.65	Ditto; on frames.	Sup.yds.	5	8/-	2 - -
R.66	Ditto; on pipe framed balustrade (measured both sides flat overall).	Sup.yds.	7	8/-	2 16 -
R.67	Ditto; ditto ladder (ditto).	Sup.yds.	3	8/-	1 4 -
R.68	Ditto; on mesh filled pipe framed shelving racks (ditto).	Sup.yds.	13	8/-	5 4 -
R.69	Ditto; on plate or angle supports not exceeding 6" girth.	Lin.ft.	495	1/-	24 15 -
R.70	Ditto; on pipe supports, racks, etc., not exceeding 2" diam.	Lin.ft.	961	6	24 - 6
R.71	Touch up previously painted structural steelwork (given in "Structural Steelworker") and apply one (1) coat alkyd enamel semi-gloss; on rafters, etc.	Sup.yds.	26	4/-	5 4 -
	<u>Walls, Ceilings, Etc.:</u>				
R.72	Clean down, apply sealer then one (1) coat of undercoat and one (1) coat eggshell flat finishing paint; on flat asbestos cement ceilings.	Sup.yds.	138	9/3	63 16 6 65 11
R.73	Ditto; ditto walls and bulkheads.	Sup.yds.	20	9/6	9 10 -
R.74	Ditto; ditto panels at window walls.	Sup.yds.	18	9/6	8 11 -
R.75	Ditto; hardboard wall linings.	Sup.yds.	6	9/3	2 17 - 2 15 6
R.76	Clean down, apply sealer then one (1) coat of undercoat and one (1) coat alkyd semi-gloss enamel; on cement rendered walls.	Sup.yds.	660	10/-	330 - -
R.77	Clean down, apply sealer then one (1) coat of undercoat and one (1) coat semi-gloss enamel finishing paint as above described in toilets, etc.; on fibrous plaster ceilings.	Sup.yds.	80	10/-	40 - -
R.78	Ditto; on flat asbestos cement ceilings.	Sup.yds.	102	10/-	51 - -
R.79	Ditto; ditto walls.	Sup.yds.	22	10/-	11 - -

PAINTER
Sergeant's Mess
WILLIAMTOWN

164.

To Collection

£

~~692 18~~

WP. 591 2 -

V.148	$\frac{1}{2}$ " diam. bolts approx. $3\frac{3}{4}$ " long having tapered washer and fixed to secure plate to R.S.J.	No.	9	1/6	13
	<u>Fascias, Barge Boards, Etc.:</u>				
V.149	9" x $1\frac{1}{4}$ " wrot clear grade Pine fascia board rounded on bottom edge and fixed in long lengths with splay cut joinings and mitred angles.	Lin.ft	108	5/6	29 14
V.150	9" x $1\frac{1}{4}$ " ditto but fixed as barges.	Lin.ft	52	5/6	14 6
V.151	Extra for groove in back for soffit lining.	Lin.ft	160	incl	
V.152	Wrot timber fillet (say) 3" x 1" planted on at gables and scribed to roof tiles.	Lin.ft	52	2/-	5 4
V.153	3/16" flat asbestos cement eaves and gable soffit linings; include for extruded aluminium moulds at butt joints (measured nett area covered).	Sup.yds	28	25/-	35
V.154	1" x 1" wrot clear grade Pine nosed cover mould fixed at walls.	Lin.ft	105	2/-	10 10
V.155	2" x 1" ditto ditto scribed and fixed adjacent to heads of openings.	Lin.ft	3	2/6	7 1
V.156	3" x 1" ditto ditto ditto.	Lin.ft	8	3/-	1 4
	<u>Cat Walks:</u>				
V.157	6" x 1" boarding as Item H.170.	Lin.ft	150	3/-	22 10
	<u>Manhole:</u>				
V.158	Manhole access as Item H.175; to be located where directed.	No.	1	£2	2
	<u>Tank Platform:</u>				
	<u>The following quantities are contained in Tank Platform size 4'-6" x 3'-6" over Drying Room and including enclosing wall, etc.:</u>				
V.159	Reduced Hardwood as described in 4" x 2" joists spiked.	Sup.ft	10	3/3	1 12
V.160	Ditto in 4" x 2" plates bolt fixed.	Sup.ft	6	3/3	19
V.161	Ditto in 4" x 2" stud framing at end, housed and spiked.	Sup.ft	7	3/3	1 2
V.162	Reduced Pine as described in 2" x 1" battens, spiked.	Sup.ft	6	3/3	19 8
		To Collection	£	126	3

LAUNDRY BLOCK
WILLIAMTOWN

V.163	4" x 1" T. & G. flooring to approval fixed to joists.	SQRS	$\frac{1}{8}$	L22	2 15
V.164	3/16" flat asbestos cement sheet lining having aluminium cover moulds a.b. fixed at soffit of platform.	Sup.yds	2	25/-	2 10
V.165	Ditto fixed at wall.	Sup.yds	1	25/-	1 5
V.166	Approved aluminium cover mould at external corner.	Lin.ft	4	2/-	8
V.167	1" x 1" wrot clear grade Pine nosed angle mould fixed at abutting walls.	Lin.ft	17	2/-	1 14
V.168	Bolts fixed to secure 3" x 2" plate to brick wall.	No.	6	1/6	9
<u>Cornices:</u>					
V.169	3" x 1" wrot clear grade Pine cornice as Item H.427.	Lin.ft	254	3/-	38 2
<u>Vent Casing:</u>					
V.170	6" x 1" wrot clear grade Pine lining as Item H.432.	Lin.ft	5	4/-	1
V.171	6" x 1" ditto ditto as Item H.433.	Lin.ft	5	4/-	1
V.172	2" x 1" battens as Item H.434.	Lin.ft	15	2/6	1 17 6
<u>Windows:</u>					
V.172a	Window to detail 4'-9" wide, 4'-9 $\frac{3}{8}$ " high overall having four (4) lights with central mullion and transome at approx. 2'-9" level. Sill, 7" x 3" Tallowwood twice rebated, sunk, weathered, nosed, throated and grooved. All other timbers of clear grade Pine. Head 5" x 2" plain section; jambs 5" x 2" once rebated; mullion 5" x 2" twice rebated; transome 5" x 3" three times rebated, weathered, nosed and throated. Both bottom lights fitted with 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " splayed beads for fixed glazing. At both upper lights include to provide 'Naco' or similar louvre frames as described in Item H.395, but for four (4) 6" horizontal blades to each. Fix complete in brick wall and include for finishing externally with 3" x 1" nosed cover mould at head and 1" x 1" nosed stormmoulds at jambs, also internally with 2 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " plain lining at head and with 1" x 1" nosed angle moulds at jambs (Ironing Room).	No.	4	L15	60
V.172b	Window all as last but the internal 1" x 1" angle moulds 4'-3" long only and scribed to tiled reveal. (Laundry).	No.	4	L15	60

LAUNDRY BLOCK
WILLIAMTOWN

To Collection

£

171 - 6

Downpipes:

V.199	4" x 3" aluminium downpipes as Item I.56 but in No. 4 stacks.	Lin.ft	44	8/-	17 12 -
V.200	Extra only for bends as Item I.62.	No.	4	15/-	3 - -
V.201	Ditto ditto as Item I.63.	No.	8	15/-	6 - -
V.202	Ditto connecting to drain as Item I.66.	No.	4	17/-	3 8 -
V.203	Guard plate 4'-0" long as Item I.69.	No.	4	54/-	10 16 -

Generally:

V.204	Allow for attending on other Trades "a.b.d".	Item		incl	
V.275	Allow for protecting all work "a.b.d".	Item		incl	

PLASTERERInternal Cement Render:

V.206	Cement render as Item J.12 on brick walls.	Sup.yds	168	10/6	88 4 .
V.207	Ditto as Item J.13.	Lin.ft	5	3/-	15
V.208	Ditto as Item J.14.	Lin.ft	182	3/-	27 6 -
V.209	Labour salient angle as Item J.15.	Lin.ft	148	2/-	14 16 .
V.210	Ditto forming V-joint at granolithic skirt- ing.	Lin.ft	162	6	4 1 -
V.211	9" x 6" plaster vent as Item J.44.	No.	28	5/-	7 . -
V.212	Allow to attend on other trades "a.b.d".	Item		incl	
V.213	Allow to leave all work perfect "a.b.d".	Item		incl	
V.214	Allow to protect all rendering from damage and hand over perfect.	Item		incl	

CEILING FIXERCeiling Linings:

V.215	3/16" thick asbestos cement flat linings fixed to battens (given previously) at in- ternal ceilings with sheets set out in a symetrical pattern as directed; include for extruded aluminium moulds at butt joints (measured nett area covered).	Sup.yds	96	25/-	120 . .
V.216	3/16" ditto as facing to 22" x 16" manhole cover.	No.	1	30/-	1 10 -

To Collection

£

304 8 -

LAUNDRY BLOCK
WILLIAMTOWN

220.

V.217	Allow to trim asbestos cement ceilings for manhole, light fittings, etc. as required.	Item		£5	5
<u>PAVIOR, WALL and FLOOR</u> <u>TILER</u>					
<u>Preparation for Pavings:</u>					
V.218	Sweep and prepare for pavings as Item L.3.	Sup.yds	97	incl	
<u>Granolithic Pavings:</u>					
V.219	Granolithic screed 1" thick "a.b.d" to internal floors and at threshold.	Sup.yds	95	14/-	66 10
V.220	Ditto to top of benching.	Sup.yds	1½	14/-	1 1
V.221	Ditto ½" thick to edge of benching and at external doorway.	Sup.yds	½	14/-	7
V.222	Extra only for non slip treatment as Item L.15.	Sup.yds	38	5/-	9 10
V.223	Coved skirting of granolithic composed "a.b.d" formed to 2" radius at floor carried up wall face to a height of 3" and finished at junction of wall render or tiling with a neat ruled joint; include for angles, etc.	Lin.ft	228	3/6	39 18
V.224	Labour nosing granolithic as Item L.20.	Lin.ft	9	5	4 6
V.225	Labour forming through joint as Item L.23.	Lin.ft	9	3/6	1 11 6
<u>Wall Tiles:</u>					
V.226	Allow to submit samples "a.b.d".	Item		incl	
V.227	6" x 6" wall tiles as Item L.79.	Sup.yds	28	£4 7/-	121 16 1
V.228	Ditto as Item L.80.	Sup.yds	8	£4 7/-	34 16
V.229	Extra only for round edge tiles.	Lin.ft	144	9	5 8
V.230	Ditto round edge return tiles.	No.	22	1/6	1 13
V.231	6" x 3" recessed soap holder to match tiles; build in where directed.	No.	4	23/-	4 12
<u>Generally:</u>					
V.232	Allow for "Pavior" to attend on other Trades "a.b.d".	Item		incl	
V.233	Allow for "Tiler" ditto "a.b.d".	Item		incl	
V.234	Allow to protect pavings "a.b.d".	Item		incl	
To Collection				£	292 7
<u>LAUNDRY BLOCK</u> <u>WILLIAMTOWN</u>					

No.

V.252	Allow for testing of paints "a.b.d".	Item			
	<u>External Painting:</u>				
V.252	Paint four (4) coats as Item R.30; on wood-work general surfaces.	Sup.yds	4	10/6	2 2
V.253	Ditto; on frames and moulds.	Sup.yds	5	10/6	2 12 6
V.254	Ditto; on woodwork of doors having glass panels "a.b.d".	Sup.yds	6	10/6	3 3
V.255	Ditto; ditto windows "a.b.d".	Sup.yds	20	10/6	10 10
V.256	Ditto; fascias, etc. "a.b.d".	Sup.yds	17	10/6	8 18
V.257	Paint two (2) coats as Item R.42; on metal-work general surfaces.	Sup.yds	2	8/-	16
V.258	Ditto; on grilles "a.b.d".	Sup.yds	2	8/-	16
V.259	Paint sealer and two (2) coats as Item R.47 on flat asbestos cement soffit linings at eaves and gables.	Sup.yds	28	9/6	13 6
	<u>Internal Painting:</u>				
V.260	Paint three (3) coats as Item R.52; on woodwork general surfaces.	Sup.yds	18	9/6	8 11
V.261	Ditto; on frames and moulds.	Sup.yds	17	9/6	8 11 6
V.262	Ditto; on woodwork of doors having glass panels "a.b.d".	Sup.yds	6	9/6	2 11
V.263	Ditto; on windows "a.b.d".	Sup.yds	20	9/6	9 10
V.264	Prepare timber surfaces of benches and table and apply two (2) coats shellac.	Sup.yds	23	9/6	10 8
V.265	Paint as Item R.64; on metalwork general surfaces.	Sup.yds	2	8/-	16
V.266	Ditto; on frames.	Sup.yds	5	8/-	2
V.267	Ditto; on pipe supports, etc. as Item R.70.	Lin.ft	151	6	3 15
V.268	Paint sealer and two (2) coats as Item R.78; on flat asbestos cement ceilings.	Sup.yds	32	10/-	16
V.269	Paint sealer and two (2) coats as Item R.82; on cement rendered walls.	Sup.yds	76	10/-	38
V.270	"Seculate" compound and finishes as Item R.86 on cement rendered walls.	Sup.yds	99	35/-	173 5
V.271	Ditto on asbestos cement wall.	Sup.yds	1	35/-	1 15
		To Collection		£	317 13

LAUNDRY BLOCK
WILLIAMTOWN

COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF WORKS

C/N 13626

SERGEANTS' MESS & LAUNDRY

FOR

R. A. A. F.

AT

WILLIAMTOWN, N. S. W.

BILL OF QUANTITIES

FOR

ADDENDUM 1. & No 2

CHAS. A. HARDING & SON
QUANTITY SURVEYORS
65 YORK STREET, SYDNEY

Attached in back
of this cover.

A. S. REIHER
DIRECTOR OF WORKS
THE COMMONWEALTH CENTRE
ELIZABETH STREET • SYDNEY

Item No.					
W.122	$\frac{1}{2}$ " thick bitumen impregnated asbestos felt jointing material 7" wide placed between edges of slabs at corbelled contraction joint.	Lin.ft	77	1/6	5 15
W.123	$\frac{1}{2}$ " ditto 6" wide ditto.	Lin.ft	102	1/6	7 13
W.124	Contraction joint in 5" floor slab as Item C.39.	Lin.ft	9	1/-	9
W.125	Ditto in 9" edge as Item C.41.	Lin.ft	1	2/-	2
W.126	Ditto in slab and corbel approx. 14" x 13" overall; include as last.	No.	1	2 2	2 -
<u>Formwork:</u>					
W.127	Formwork to side of pad footing as Item C.53.	SQRS	WD $\frac{3}{8}$	2 4	1 10
W.128	Ditto to pedestals as Item C.55.	SQRS	$\frac{3}{8}$	2 4	1 10
W.129	Ditto to encasing as Item C.56.	SQRS	$\frac{1}{8}$	2 4	10
W.130	Ditto to soffit of floor slabs as Item C.57.	SQRS	7 $\frac{1}{2}$	2 15	1 12 10
W.131	Ditto to thickened edge as Item C.62.	Lin.ft	24	4/-	4 10
W.132	Ditto to ditto 8" high.	Lin.ft	14	4/-	2 16
W.133	Ditto to edge 7" high as Item C.63.	Lin.ft	144	3/-	2 1 12
W.134	Ditto to ditto 6" high as Item C.64.	Lin.ft	587	3/-	8 8 1 -
W.135	Ditto to edge of slab and thickening 13" high; at corbelled contraction joints.	Lin.ft	182	5/-	4 5 10
W.136	Ditto to edge of thickening 7" high; ditto.	Lin.ft	78	3/-	1 1 14
W.137	Ditto to ditto 6" high; ditto.	Lin.ft	281	3/-	4 2 3
W.138	Ditto to $4\frac{1}{2}$ " wide soffit of thickening; ditto.	Lin.ft	150	WD 2/9	20 12 6
W.139	Ditto to 3" wide ditto; ditto.	Lin.ft	27	2/-	2 14
W.140	Ditto to form $4\frac{1}{2}$ " wide, 7" deep rebate; ditto.	Lin.ft	77	2/9	10 11 9
W.141	Ditto to form $4\frac{1}{2}$ " wide, 6" deep rebate; ditto.	Lin.ft	102	3/-	1 5 6
W.142	Ditto to 9" wide soffit of slab or corbel; over foundation openings.	Lin.ft	68	4/-	1 3 12
<u>Reinforcement:</u>					
W.143	Mild grade plain steel round bars "a.b.d" in footing pads and pedestals; $\frac{3}{4}$ ".	Cwts	14 $\frac{1}{8}$	2 5	7 0 12 6

ADDENDUM ADDITIONSSergeant's Mess and
Laundry Block

WILLIAMTOWN

To Collection

£ 66 2 9

WD 1102 - 2

Item No.					
W.186	Grout under 13" x 6" ditto as last.	No.	1	10/-	10
	<u>Metal Coating:</u>				
W.187	Clean and zinc spray on box column as Item E.118.	Cwts	2½	32/-	3 15
W.188	Ditto on attached plates as Item E.120.	Cwts	¾	30/-	1 2
W.189	Ditto on holding down bolts, etc. as Item E.122.	No.	2	6 9	1
W.190	Ditto on ditto as Item E.123 but 27" long.	No.	2	6 9	1
W.191	Ditto on ditto as Item E.124.	No.	4	6 9	2
W.192	Ditto on ditto as Item E.125.	No.	6	6 9	3
W.193	Ditto on connection bolts, etc. as Item E.127.	No.	3	6 9	3
W.194	Ditto ditto as Item E.128.	No.	234	6 9	5 17
	<u>Painting:</u>				
W.195	Paint three (3) coats on plates, etc. as Item E.137.	Sup.yds	1	2 1	1 -
W.196	Ditto on ditto as Item E.138.	Sup.yds	1	2 1	1 -
W.197	Ditto on ties as Item E.141.	Sup.yds	2	2 1	2 -
W.198	Ditto on column as Item E.142.	Sup.yds	2	2 1	2 -
W.199	Ditto on plates, etc. as Item E.143.	Sup.yds	1	2 1	1 -
W.200	Ditto on sundry bolts, etc. as Item E.147.	Item		ind	
	<u>Carpenter and Joiner</u>				
	<u>Verandah Extension:</u>				
W.201	5/8" bolts as Item H.33.	No.	4	1/-	4 -
W.202	8" x 1¼" fascia as Item H.105.	Lin.ft	9	5/-	2 5
W.203	Groove as Item H.108.	Lin.ft	9	ind	
W.204	3/16" asbestos cement sheet lining as Item H.112.	Sup.yds	13	25/-	16 5
W.205	Notch and fit at column as Item H.116.	No.	1	10/-	10 -
W.206	1" x 1" cover mould as Item H.117.	Lin.ft	12	2/-	1 4
W.207	7" x 3" beams as Item H.132.	Sup.ft	25	3/6	4 7 6

ADDENDUM ADDITIONS

Sergeant's Mess and
Laundry Block
WILLIAMTOWN

To Collection

£ 43 10 -

Item No.					
W.208	6" x 2" joists as Item H.133.	Sup.ft	63	3/6	11 -
W.209	4" x 3" wall plate as Item H.135.	Sup.ft	9	3/6	1 11 -
W.210	3" x 1 1/2" battens as Item H.136.	Sup.ft	50	3/6	8 15
W.211	Framing anchor as Item H.137.	No.	42	1/6	3 3
W.212	5/8" bolt as Item H.138.	No.	2	2/-	4
W.213	4" x 2" plates as Item H.222.	Sup.ft	12	3/6	2 2
W.214	4" x 2" studs as Item H.223.	Sup.ft	8	3/6	1 8
W.215	4" x 2" trimmers as Item H.224.	Sup.ft	6	3/6	1 1 -
W.216	2" mineral wool as Item H.225.	Sup.yds	2	23/-	2 6
W.217	Profiled asbestos cement lining as Item H.240.	Sup.yds	2	45/-	4 10
W.218	Flashing as Item H.246.	Lin.ft	9	1/-	9
<u>Doors, Frames, Etc.:</u>					
W.219	5'-0" x 6'-8" x 1 3/4" door as Item H.534.	No.	1	290/-	14 10
W.220	2'-8" x 6'-8" x 1 3/4" door as Item H.546.	No.	1	220/-	11 -
W.221	Framed sidelight panel as Item H.548 but approx. 1'-2" wide.	No.	2	160/-	16
W.222	Frame for external door as Item H.555.	No.	1	27.10	7 10
W.223	Frame for external door and sidelights as Item H.557 but approx. 8'-0" wide.	No.	1	£22	20 -
W.224	6" x 1 1/2" linings as Item H.565.	Lin.ft	3	4/6	13 1
W.225	4" L.P. butts as Item H.597.	Pairs	1	8/-	8
W.226	Kick plate as Item H.626 but approx. 11" x 8".	No.	4	£1	4 -
W.227	6" barrel bolt as Item H.637.	No.	2	10/-	1 -

Roofer and Roof PlumberDownpipes:

W.228	4" x 3" downpipe as Item I.59.	Lin.ft	14	8/-	5 12 -
W.229	Extra for bend as Item I.62.	No.	2	15/-	1 10
W.230	4'-0" long guard as Item I.70.	No.	1	£7.8	3 8 -

ADDENDUM ADDITIONS

Sergeant's Mess and
Laundry Block
WILLIAMTOWN

To Collection

£ 122 1 6

No.					
83.	8" x 1 $\frac{1}{2}$ " linings as Item H.564.	Lin.ft	17	6/-	52 -
84.	2" x $\frac{3}{4}$ " stops as Item H.568.	Lin.ft	14	2/6	115
85.	1" x 1" cover mould as Item H.569.	Lin.ft	31	2/6	3176

Roofer and Roof Plumber

86.	4" x 3" downpipe as Item I.56.	Lin.ft	12	8/-	416
87.	4'-0" long guard as Item I.69.	No.	1	54/-	214 -

Plasterer

88.	Cement render on walls as Item J.7.	Sup.yds	15	10/6	7176
89.	Ditto in narrow widths as Item J.9.	Lin.ft	19	3/-	217 -
90.	Salient angle as Item J.15.	Lin.ft	19	2/-	118 -
91.	Vee line as Item J.17.	Lin.ft	14	6 ^d .	7 -

Ceiling Fixer

92.	Vermiculite ceiling finish as Item K.5.	Sup.yds	12	46/-	2712 -
93.	1" x 1" aluminium angle as Item K.9.	Lin.ft	14	3/-	22 -

Pavior, Wall and Floor Tiler

94.	Screed for vinyl tiles as Item L.26.	Sup.yds	11	14/-	744 -
95.	12" x 12" vinyl floor tiles as Item L.43.	Sup.yds	11	£1/18/-	2018 -
96.	Polish ditto as Item L.44.	Sup.yds	11	2/-	12 -
97.	4" vinyl skirting as Item L.52.	Lin.ft	17	2/9	269
98.	Ditto as Item L.53.	Lin.ft	1	3/-	3 -

Terrazzo Worker

99.	Terrazzo threshold as Item M.34.	Lin.ft	14	21/-	1414 -
100.	Drillings for dowels as Item M.35.	No.	8	Incl. -	-
101.	Polished free end as Item M.36.	No.	1	Incl. -	-

To Collection

£ 107 15 9

SECOND ADDENDUM ADDITIONS
 Sergeant's Mess
 WILLIAMTOWN

Item
No.Carpenter and JoinerVerandah and Corridor
Alteration:

143.	3/16" asbestos cement sheet lining; Item H.112.	Sup.yds	13	25/-	165
144.	Notch and fit; Item H.116.	No.	1	10/-	10
145.	1" x 1" cover mould; Item H.117.	Lin.ft	9	2/-	18
146.	6" x 2" joists; Item H.133.	Sup.ft	48	3/6	88
147.	Ditto; Item H.134.	Sup.ft	14	3/6	29
148.	3" x 1 1/2" battens; Item H.136.	Sup.ft	42	3/6	77
149.	Framing anchor; Item H.137.	No.	6	1/6	9
150.	Bolt or power fastener; Item H.139.	No.	7	2/-	14

Doors, Frames, Etc.:

151.	5'-0" x 6'-8" x 1 3/4" door; Item W.219.	No.	1	290/-	141
152.	2'-8" x 6'-8" x 1 3/4" door; Item W.220.	No.	1	220/-	11
153.	Framed sidelight panel; Item W.221.	No.	2	160/-	16
154.	Frame for external door; Item W.222.	No.	1	71/10/-	71
155.	Frame for external door and sidelights; Item W.223.	No.	1	220/-	20
156.	6" x 1 1/2" linings; Item W.224.	Lin.ft	3	4/6	1
157.	4" L.P. butts; Item H.597.	Pairs	1	8/6	2
158.	Kickplate; Item W.226.	No.	4	11/-	4
159.	6" barrel bolt; Item H.637.	No.	2	13/-	1

Roofer and Roof Plumber

160.	4" x 3" downpipe; Item I.59.	Lin.ft	14	8/-	5
161.	Extra for bend; Item I.62.	No.	2	15/-	1
162.	4'-0" long guard; Item I.70.	No.	1	54/-	2

Pavior, Wall and Floor Tiler

163.	Prepare concrete for pavings; Item L.3.	Sup.yds	2	1/-	
164.	Granolithic pavings; Item L.7.	Sup.yds	12	14/-	8
To Collection				£	130

SECOND ADDENDUM DEDUCTIONS
Sergeant's Mess
WILLIAMTOWN

SPECIFICATION

T 579

FOR NEW SERGEANTS' MESS BUILDING AND
LAUNDRY BLOCK.

AT R.A.A.F. STATION
WILLIAMTOWN. N.S.W.

DOCUMENT 109

Tenders/Quotations close with the Director of Works,
14th Floor, The Commonwealth Centre,
Elizabeth Street, Sydney.

at 12 noon on / /19

8 JUN 1965

Please quote Item No. 579.

Specification (and plans) must be returned.


SEE DRAWINGS.

DEPARTMENT OF WORKS
COMMONWEALTH OF AUSTRALIA


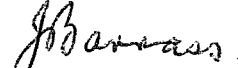
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or used without the authority of the Commonwealth.

COMMONWEALTH OF AUSTRALIADATE: May, 1965.

Specification No. NA65/121

SPECIFICATION FOR THE ERECTION AND COMPLETION
OF SERGEANT'S MESS BUILDING AND LAUNDRY
AT THE R.A.A.F. STATION, WILLIAMTOWN, NEW SOUTH WALESFor the Department of Works,
Commonwealth Centre,
Elizabeth Street,
SYDNEY. N.S.W.This is the specification marked "  " referred to in the
Annexed Agreement with the Commonwealth of Australia.

Dated this 2 AUG 1965 day of 19 .

R. W. BLACK PTY. LTD.

(Signature) Managing Director
(Witness)TIME: Forty (40) weeks.LIQUIDATED DAMAGES: £140 per week.MAINTENANCE: See "Maintenance" Clause (A13)

H.7 INSULATION AND CONDENSATION BARRIER

To underside of roofs throughout, including to Covered Ways, provide and fix 3" thickness of loose mineral wool supported on 1" galvanised wire mesh and foil lined building paper (see also "ROOFER AND ROOF PLUMBER" Clause J.4).

Excepting to Covered Ways, mesh to be stretched taut over purlins, overlaid with Sisalation 450 foiled lined building paper and secured with continuous battens fixed to top of same. Where jack rafters occur 2" x 1½" battens to be fixed over 2" x 2" members.

To Covered Way roofs, wire mesh to be set 1" below top of joists and retained on each side with 2" x 1" cleats on side.

Insulation to be 2" thick loose wool as above fixed in conjunction with roofing sheets and compressed into ribs.

H.8 EAVES & GABLE FINISH

Refer to Drawing No. NA65/643 B. The eaves to the pitched roofs throughout are to project to the extent indicated and constructed as detailed.

The eaves to flat roofs over Kitchen Lantern and Covered Ways are to project to the extent shown and constructed as detailed.

Fascias and barge boards to be of the sections noted rounded on bottom face fixed in long lengths with splay cut at joints and mitred at angles. Where eaves linings occur back of fascia to be grooved.

Eaves and gable soffits to be lined with standard 3/16" thick sealed and primed perforated hardboard (pegboard) in 6'0" lengths with equal margins at ends fitted with extruded aluminium moulds at butt joints, timber mould at wall angles and set into groove at back of fascia unless otherwise specified.

At Entrance Porch, trim around wall faces and out to back of fascia with 1" lining boards moulded on lower edge as for fascias and prepare ceiling for external Pyrok finish.

H.9 COVERED WAY CEILINGS

To be lined with 3/16" thick asbestos cement generally in 3'0" wide sheets fixed to 3" x 1½" pine battens spaced at not more than 18" centres and at sheet edges and joints.

Sheeting to be set out in a symmetrical pattern; allow for forming longitudinal joint coinciding with column centres and for trimming sheets around same.

Fit sheeting throughout with extruded aluminium moulds at butt joints, set into grooves in back of fascia and with 1" x 1" nosed angle mould at wall junctions.

Ceiling to Garbage Room to be as above.

H.13 EXTERNAL WALL LINING (CONTD.)

- a. East Wall of Dining Room from sill to underside of gable soffit.
- b. East and West walls of Plant Room No. 2 above roofing line to eaves soffit.
- c. Spandril panel to North face of Kitchen lantern above ridged roofing and up to soffit of eaves to Lantern roof.
- d. Spandril panels between skillion roof and eaves soffit of main roof over Furniture Store, Crate Room and Bar.
- e. Spandril panels above ceiling to Open Court Verandah and eaves soffit as in (d).
- f. Spandril panels all as in (d) above roof over T.V. Room, Library, Lobby and Office.

The whole of the sheeting to be fixed strictly in accordance with the manufacturers printed recommendations and instructions with vertical joints having $1\frac{1}{2}$ " side lap and horizontal joints fitted with standard section galvanised weatherstripping. (Note: Nogging to be fitted in framing to suit sheet length). Care must be taken in fixing to ensure that the ribs of panels above and below horizontal joints continue in the same straight lines.

The direction of fixing sheets in (b) is to be adjusted to ensure that fixing commences at North end to join with lantern highlights as detailed with fixing to 2" x 2" cleat, fixed to brickwork at side of window frame.

In areas (d) and (f) the sheeting is to be fixed to 2" x 1" vertical battens at 18" centres and one horizontal row to take roof flashing; in (f) the sheeting is to return at each end and finish up to face of window frame.

Provide and fix 1" x $\frac{3}{8}$ " finished thickness packing pieces to ribs as necessary at window openings or at ends where sheets do not overlap. Insulating blanket to be fixed as previously specified to framing in (a) and (c).

1. The following areas are to be lined with $\frac{3}{16}$ " thick autoclaved asbestos cement sheeting of two sheets per panel, the vertical joint fitted with standard section extruded aluminium joint mould and sealed in elsewhere with 1" x 1" nosed angle mould set in mastic.

Sheeting to finish flush with outer face of head framing and fitted with 24 gauge aluminium flashing folded down $\frac{3}{4}$ " to a uniform line over head frame. At vertical joint in sheeting fix "Alcor" vertical flashing behind joint mould 3" wide and carried down over bottom flashing:

- a. To panels over window walling in North and South walls of Dining Room and North Wall of Ante Room.
- b. To panels over window walling in Visitors Room and Billiard Room.

H.19 CEILING VENT

Vent duct in Cleaners Room adjacent to Games Store to be formed with 6" square opening, trimmed in ceiling framing and finished all round over asbestos cement sheeting with 2" x 1" x 24 gauge aluminium angles, mitred at corners and clout fixed to trimmers.

Fit 14" square, 3/8" thick plywood baffle over opening blocked down 15" from ceiling and screwed to trimming framing through 1" diameter timber distance pieces. Baffle to have all corners and edges rounded.

Form similar vent in Air Lock to Staff Female Toilet.

Trim ceiling and framing in Kitchen and Plant Room No. 2 for exhaust ducts to be installed by Mechanical Services Sub-Contractor and finish up to ducts with aluminium angles as above.

H.20 PAN & MOTOR PLATFORMS
TANK STANDS

To be provided and erected by Mechanical Services Sub-Contractor as required.

H.21 VENT CASING

Back vents in Staff Room and Furniture Store to be encased with 6" x 1" linings fixed to 2" x 1" vertical wall battens and with one lining screw fixed to allow for removal.

H.22 INTERNAL WALL LININGS

a. The exposed internal faces of stud framing in the following positions are to be lined with 3/16" thick autoclaved asbestos cement sheeting:

1. Panels above windows in Dining Room, Ante Room, Billiard Room and Visitors Room.
2. Panels above window in Cloak Room, Male and Female Toilets.
3. Top hamper framing above Kitchen Servery.
4. Plant Room No. 2.

In 1, above sheeting to be in two equal panels and beaded in all round. Elsewhere the sheeting is to be set out in even or single length panels with matching end margins and having extruded aluminium joint moulds at butt joints and edges with timber angle moulds at wall faces and cornice moulds at ceilings.

b. The exposed internal faces of stud wall to East wall of Dining Room are to be lined with 3/16" plywood up to sill line and from sill to ceiling level with random grooved plywood 9/32" thick in selected veneers and fitted and finished with angle moulds and joint moulds as detailed on Drawing No. NA65/645 B.

c. To Dining Room and Ante Room only where wall hung heaters are

H.22 INTERNAL WALL LININGS
(CONTD.)

Lining to framed walling adjacent to Accordion Door between Dining Room and Ante Room to be 3/16" plywood for clear finish.

Lining to top hamper framing over Bar Servery openings to be carried out in rebated boarding and acoustic plaster tiles fixed to battens on timber framing all as detailed on Drawing No. NA65/646 B lined with rebated boarding externally, fitted with removable panel internally and the soffit prepared for light trough as shown.

H.23 EXPOSED AGGREGATE PANELS

to be provided where on the drawings and beaded into rebated timber framing as shown on Drawings NA65/647 B.

panels are to be sized to suit openings, similar and equal to Pebbletex A.C. Panels, Series 201-1000 as manufactured by Pebbletex Finishes Pty. Ltd.

The exposed aggregate face must be graded to give 95% + or - 2% cover of the base resins and bonded homogeneously and with spray resin to the 1/4" thick asbestos cement sheets to form completely waterproof units. Sheets to be clear back finished, formed with 1/2" wide clean margin on top and each side where into timber framing.

Panels to be bedded in mastic and secured with 3/4" x 1/2" aluminium beads mitred at corners and screw fixed to framing at 12" centres approx. with screws adjacent to each end. Beading to be set in mastic as for panels and neatly pointed up. Set in mastic and point up at terrazzo thresholds.

Exposed aggregate to be similar in texture to Pebblecrete Pattern No. 683; colours to be selected.

H.24 SUN SCREENS

Refer to Drawing No. NA65/645 B for detail and Engineers Drawing for detail of structural steel outrigger bracket.

To be provided and fixed above window openings in North wall of Dining and Ante Rooms and Billiard Room to the extent shown on the drawings. Screen to be framed up with 9" x 1 1/2" nosed fascia and 6" x 1 1/2" rear plate bolted to outrigger brackets, the fascia to line up with roof fascia at junction of low roofed section with main building.

Louvre frames to be formed with 6" x 1 1/2" side rails stopped grooved 3/8" deep and fitted with 6" x 1" louvre blades. Side rails to be housed into fascia and rear plate and jointed with Type C Trip-L-Grip framing anchors, one to each joint.

At free ends and at wall faces the screen is to be returned and bracketed as detailed.

All joints in screen framing and bolt drillings to be sealed with white lead prior to framing and immediately after erection the whole

(3) Dry Store

To be constructed in two banks to full length of walls, with shelves of the widths and spacing as shown on Drawing No. NA65/642 B. On wall adjacent to Staff Room, concrete plinth to be omitted, standards to be taken down to floor level with provision for mobile bins. Shelf immediately above bins to be 9" wide.

(4) Games Store

18" and 12" wide as shown on plan, in four (4) tiers approx. 18" apart above concrete plinth.

B. CLEANERS

- (1) Provide and erect one (1) shelf 12" wide on wall adjacent to Games Store, 5'6" above floor fixed to wall cleats at each end; cleats to be screw fixed into lead plugs.

Provide and erect Broom Rack, below shelf, 4'6" above floor consisting of 6" wide particle board as before with No.4 3" deep by 1½" wide check outs formed on front edge as cradles for broom handles and fixed to walls with continuous cleat along back and returned at each end for width of shelf.

- (2) Provide and erect similar shelf and Broom Rack on external wall of Cleaners Room in Kitchen.

H.30 CORNICES

Acoustic plaster and acoustic tile ceilings to be finished up to angle trims specified with ceilings under "Ceiling Fixer".

Where fibrous plaster and asbestos cement ceilings are specified provide and fix 2" x 1" and 1" x 1" cornice moulds and as noted having pencil rounded free edges.

H.31 SKIRTINGS

To be as specified under "PAVING WALL & FLOOR TILER".

H.32 DOOR FRAMES

See also under "METALWORKER" for steel door frames. Refer to Drawing NA65/648 B.

The door frames to be square headed and unless otherwise specified to be solid rebated and where shown, to have moulded and rebated transom framed in; to be dowelled to threshold with 3" long 3/8" diam. brass dowel pins and each frame secured in position as specified hereafter:-

- a. 5" x 3" solid rebated frames to be secured in position with three (3) M.S. anchors on each side, each anchor being formed out of a 12" length of 1½" x 3/16" flat, and split, turned 3" up against the frame, checked into same and twice countersunk screw fixed.
- b. 3" x 2" solid rebated frames to be set in reveals as shown single dowelled to floor with dowel pins and secured to wall.

trimmed all round with 2" x 1" nosed margin strips.

Counter rail to be formed with 3" x 2" core covered on top and each side with 1" thick foamed rubber and lined with fabric as for front in selected colour, beaded at corners tapped and secured with studs on underside. Rail to be returned to wall front at each end and supported with brackets as detailed bolted to stud framing.

Form foot rest and "ash" tray as indicated with framing and lining sheeted with satin finished stainless steel 24 gauge to ash tray and flashing and 18 gauge to foot rail, returned at ends with all joints welded and buffed off to a clean matching finish.

Back of counter framing to be lined with 7/32" thick autoclaved asbestos cement sheeting in selected colour, similar and equal to "Colourboard" and fitted with extruded aluminium joint moulds at intermediate joints and up to rendered or panelled faces at ends with screw fixed aluminium angle mould.

Nosings to counter tops to be as detailed.

Excepting to area for bottle cabinet lower portion of fitments to have 13/16" solid core end and side framing with bottom shelf on plinth, intermediate shelf, ladder framed divisions and wall lining fixed to battens all as indicated with sliding or hinged 13/16" solid core doors where noted; sliding doors to be fitted with "Bangor" or similar approved cupboard door sets consisting of extruded aluminium overhead track, nylon slides and bottom guides. All other door hardware to be as scheduled with doors generally.

Counter top, lino inlay, inner and outer nosings to be as for counters previously specified and where over bottle cabinet suitably blocked off same to approval.

Upper section of fitment to have display boxes constructed as detailed, fitted with adjustable plate glass shelving and mirror backed. Mirrors to be fixed with U.R.I. or similar slotted aluminium stripping No. S108 and shelves supported with No. B139 glass brackets to suit width of shelving.

Above display boxes construct light boxes as indicated and fit for full length with glazed diffuser panels as for counter top hampers.

H.45 WALL PANELLING

Walls of Bar Servery to be battened throughout as indicated, lined with 3/8" particle board sheeted with timber veneered laminate similar and equal to "Prewood" and in veneer finishes as detailed or as otherwise selected. Where counter tops occur panelling to finish on to "Marviplate" or similar approved plastic fabric lined steel sheeting as skirting trim fitted flush below lino and turned up behind wall sheeting. Joints in panelling to be close buffed and lightly 'v' jointed.

H.46 ENQUIRY COUNTER TO OFFICE

Counter and window to Secretary's Office to have sliding sash with head pelmet, counter top, two intermediate shelves under and false

FLOORING (CONTD.)

Under external door openings a 1/8" thick brass angle a.b.s. shall be embedded finishing level with the flooring.

Around wall perimeters a 1/2" wide expansion joint shall be maintained.

A period of at least 24 hours shall be allowed before traffic is permitted on the floor.

On completion, the flooring shall be cleaned off with an approved power sanding machine fitted with a vacuum cleaning device to provide a fine sanded finish with a clean face throughout, given two coats of Bourne or similar approved sealer and finished with "Spartan" or similar approved, clear liquid spirit wax, all to be applied in strict accordance with the manufacturer's recommendations.

Around all wall perimeters to parquetry floored areas provide and fix 1" x 1" x 1/8" aluminium angle trim screw fixed to walls or terrazzo plinth at 18" centres. Joints to be closed butted with screw fixings at each side; screws to be stainless steel and fixed into lead plugs.

L.8 VINYL FLOOR TILES

a. Flexible Vinyl

The following floor areas are to be laid with C.S.R. Hi-Vinyl tiles manufactured with pure flexible vinyl resins, or similar tiles of approved manufacture in selected colour tones and patterns 12" x 12" x .080" in size:

1. Visitors Room
2. Billiard Room
3. T.V. Room
4. Library
5. Foyer
6. Corridors including Phone Booths
7. Powder Room
8. Games Store.

b. All vinyl floor tiles throughout are to be laid only by Tradesmen skilled and experienced in this work.

Any uneven or damaged surfaces in cement screed previously specified to be repaired and finished to a true and uniform surface with "Cemstick" or similar approved underlayment as directed and allowed to thoroughly dry and cure before laying tiles.

The Contractor will be responsible to check that the paved areas are dry and clean.

Adhesives and finishes are to be the product of, or a make and quality recommended by the manufacturer of the floor tiles and all are to be used and the tiles laid in accordance with the manufacturer's instructions.

The pattern of the floor covering is to be set out so that equal margins will occur on sides of rooms unless otherwise detailed or directed.

All cutting to walls, columns, openings and other parts to be accurately done and all tiles to be laid true of line in each direction.

On completion the areas are to be cleaned free of all discolouration and surplus adhesives, given two (2) coats heavy duty liquid wax polish and power machine polished.

L.9 LINOLEUM FLOORING

a. Linoleum Tiles

The following floor areas are to be laid with Nairn or similar approved A gauge standard grade tiles of approved manufacture in selected colour tones and patterns, size 12" x 12" x 1/8".

1. Secretary's Office
2. Furniture Store
3. Dry Store
4. Staff Room

The linoleum tiles throughout are to be laid only by Tradesmen skilled and experienced in this work.

The Contractor will be responsible to check and ensure that the paved areas are dry, and all damaged surfaces repaired and made good before laying floor covering.

All floor areas above are to be first prepared and covered with first quality 120 lb. paper felt underlay in three (3) feet wide lengths.

Adhesives for cementing underlay and linoleum are to be spirit soluble, of a make and quality recommended by the supplier or manufacturer of the linoleum, and all are to be used and the covering laid in accordance with the manufacturer's instructions and recommendations. The underlay shall be laid in as long lengths as possible with close butted joints cross joints staggered and cut to fit against all vertical surfaces, into doorways etc. The underlay shall be solidly cemented and thoroughly rolled into the adhesive. Linoleum shall be accurately cut to fit the walls, door recesses etc. and seams must not coincide with seams of underlay. The linoleum shall be evenly cemented all over to the underlay, rolled free from bubbles, seams cut and edges embedded into the adhesive, rolled and weighted until set.

Upon completion remove all adhesive spots sealed with dressing and given two (2) coats heavy duty liquid wax polish and power machine polished.

L.10 VINYL SKIRTING

To all areas specified to have vinyl or lino floor coverings, excepting to Powder Room, finish at angles with walls, columns, plinths etc. with 4" black vinyl skirtings having rounded top edge, and chamfered coved base to fit over edge of flooring. Skirtings to be fixed in long lengths, formed around internal and external corners and applied throughout in strict accordance with the manufacturers' instructions and using adhesive recommended by the manufacturers for use with their products. Skirting to counter fronts to be as specified previously under "Counters" in "CARPENTER AND JOINER" and as detailed.

L5.

L.10 VINYL SKIRTING (CONTD.)

to areas specified to have timber parquetry flooring and excepting where terrazzo sills occur finish with skirtings as above but without chamfered cove at base.

L.11 STEEL FLOOR TILES

The following areas are to be laid with 12" x 12" x $\frac{1}{2}$ " thick normal hardness "Ansa" cast iron grid flooring tiles as supplied by Ansa Industrial Flooring Products Co. or similar approved tiles.

1. Panel at Kitchen entrance where indicated
2. Crate Room and adjacent Passage
3. Bar Store.

Tiles are to be laid using full and half tiles to cover the above areas; tiles are not to be cut and margins as necessary are to be formed uniform in width with granolithic screed.

The tiles are to be laid in granolithic floor screed, the initial screed finishing $\frac{1}{4}$ " below required finish level. Tiles shall be immediately placed on this surface, checked for alignment tapped $\frac{1}{4}$ " into bed, checked for grade after which granolithic topping mix is grouted in between ribs and finishing up to the level of the top of the tiles.

Tiled areas are to be protected from traffic for at least four (4) days.

L.12 THRESHOLDS

See under "METALWORKER" for chequer plate thresholds to doors from Covered Way to Bar Store and Crate Room.

See under "TERRAZZO WORKER" for terrazzo thresholds and sills to other openings.

L.13 TILES & TILING GENERALLY

All tiles to be first quality, free from winding, square on face and edges, of even size and equal in all respects to samples from bulk previously submitted to and approved by the Director of Works.

All tiles to be soaked in water for two (2) hours before laying and to be laid on scratch bed of three (3) to one (1) sand and cement, to be set with fine joints and pointed in white cement.

On completion, all tiles to be cleaned to remove all discolouration without scratching.

L.14 CERAMIC FLOOR TILING

B. The whole of the floors to the following areas are to be tiled with $\frac{3}{4}$ " square glazed tiles.

N3.

N.3 FIBROUS PLASTER CEILINGS
(CONTD.)

The fibrous plaster to be manufactured and fixed in accordance with S.A.A. Specification A44-1950 and CA20-1950 respectively.

The sheets to be 3/8" thick of approved manufacture and fixed to and including 2" x 1" pine battens spaced to suit the sheets, but at not more than 18" centres and doubled at the intersections, trimmed for manholes etc. The battens all to be packed out to provide a true, level soffit before nails are driven home. Additional battens are to be provided for electric light fittings as directed and the sheets cut and fitted around drop points.

The sheets to be secured with 1" galvanised clouts on each bearing at not more than 9" spacings, the heads punched 1/8" below the surface and the holes stopped with plaster of paris.

At the joints, the back arrises of the sheets to be ragged and the jointing done with plaster of paris and fibre from above. Neatly set the joints from the face using pure plaster of paris only for setting. Butt joints must not be more than 1" apart. See under "CARPENTER & JOINER" for timber cornices.

N.4 ASBESTOS CEMENT CEILINGS

Excepting where specified to have sprayed acoustic ceilings, plaster acoustic tiles or fibrous plaster ceilings all other internal areas are to be lined with 3/16" thick standard asbestos cement sheets fixed to pine battens spaced at not more than 18" centres and as required for edge fixings and trimming. Large asbestos cement sheets are to be generally used throughout and set to a symmetrical pattern as directed. The sheets are to be fixed with galvanised hollow pointed nails, and joints finished with extruded aluminium moulds to body of ceilings and timber angle moulds or cornices as detailed at wall faces and window openings. Battens to be size 2" x 1" where the sheets are fixed for false ceilings but size 2" x 2" where the sheets are fixed to sloping roof soffits. See also "CARPENTER AND JOINER", Clause H.15. Asbestos cement linings are not required to Dry Store off Kitchen which will be cement rendered but are to include Lobby off Kitchen, Plant Room No.2 over Dry Store and Garbage enclosure off Kitchen Verandah.

N.5 RENDERED CEILINGS

See under "PLASTERER" for rendered ceiling to Dry Store.

N.6 VERANDAH & COVERED WAYS

See under "CARPENTER" for asbestos cement ceilings to Verandahs and Covered Ways.

1. Woodwork

- (a) Doors where specified to have clear finish to be prepared as previously specified and given (2) coats clear varnish, lightly scuffed between coats and to finish with a hard full gloss surface, Type 1, Class A.
- (b) All other woodwork to be prepared as previously specified for paint finish internally and given two (2) coats of Undercoating and one (1) coat Finishing Paint.

2. Metalwork

All bare and metal surfaces excepting aluminium roof cladding, accessories, aluminium gutters, downpipes and spreaders, but including mild steel framing, arch bars, angle guards, security grilles, balustrading etc. are to be brushed free of scale, degreased and painted one (1) coat undercoat and one (1) coat enamelled full gloss.

3. Asbestos Cement

All asbestos soffit linings, ceilings etc. to be cleaned down, sealed, then painted one (1) coat undercoat and one (1) coat enamelled semi-gloss.

4. Cement Render

All cement rendered surfaces shall be rubbed down, sealed, then painted as for 3.

P.12 INTERNAL PAINTING

1. Cool Room No. 1

Floor	-	3 coats "Formrock" 201 preparation
Walls	-	3 coats "Formrock" resin
Ceiling	-	2 coats "Gundec" colour, 2 coats "Ten-Star Moisture Seal".

The whole of the surfaces to be prepared and the materials applied strictly in accordance with the manufacturers instructions.

2. Anti-Condensation Compound

The following surfaces all to be treated with "Seculate" finishes as supplied by George Ward Pty. Ltd., Gladstone St., Sth. Melbourne. Vic.

Walls in Kitchen above tiling
Ceiling in Garbage Room
Ceiling in Male Staff Shower Recess.

The surfaces to be treated are to be sealed with Al0 Sealer, coated with Anti-Condensation Compound to a minimum thickness of 1/20 inch then finished with one (1) coat Decorative finish.

All surfaces are to be prepared and the coatings applied in strict accordance with the manufacturers printed recommendations and instructions.

R.9 CARPENTER & JOINER (CONTD.)

ceiling joists to be 5" x 2" at 18" centres spiked to rafters and over Laundry supported from strutting beam with 2" x 2" cleats on alternate sides; joists to be wedged under strutting beam.

fascia to be 9" x 1½" grooved at back for eaves soffit lining and nosed on outer edge, fitted to eaves and gables.

Ceilings

to be 3/16" asbestos cement sheeting fixed to 2" x 1" battens, fitted with aluminium joint moulds and with 3" x 1" cornice. See also under "Ceiling Fixer".

Manhole

Form manhole in ceiling of Ironing Room where directed and provide cat walk for full length of roof space.

Eaves and Gable Soffits

To be as for ceiling, fitted into grooved fascia and with 1" x 1" angle mould at wall faces. At window and door reveals carry soffit lining into opening and trim with scribed cover mould as detailed.

Tank Platform

To be constructed in Drying Room where indicated 4'6" x 3'6" with 4" x 2" joists at 18" centres, decked with 4" x 1" T. & G. flooring. Enclose open end above joists with 4" x 2" stud frame and line, together with false ceiling with 3/16" asbestos cement all as for ceilings and finish at wall faces with 1" x 1" angle mould.

Hanging Beams

To be 6" x 2" H.W. positioned above Drying Room ceiling for supporting Heater Units to be installed by Mechanical Services Sub-Contractor.

Pipe Duct

Encase steam line in Laundry with ducting formed with 6" x 1" linings fixed to 2" x 1" vertical wall battens and extending from top of plinth to ceiling; one lining to be screw fixed to allow for removal.

Windows

To be framed with 7" x 3" moulded sills, 5" x 3" moulded transom and 5" x 2" frames and mullions rebated and stop rebated to the profiles detailed fitted with loose splayed beads for fixed glazing in lower panels and fitted with louvre frames above transom.

Frames to have plates, head linings, angle moulds and storm moulds as detailed.

Fixed glazing to lower panels to be 1/8" Spotswood.

R.12 PAVOR & WALL TILER

To be all as before specified in Section L.

Granolithic Screed

Floors throughout to be topped with granolithic screed 1" thick with 2" radiussed cove formed at wall junctions and carried up wall face to a height of 3 inches and finished at junction with wall render or tiling with a ruled 'V' joint.

Topping to Opening No.4 to be carried through as threshold, nosed and carried down face of concrete slab to pavement level.

Laundry floor to be made non-slip with carborundum grains.

Wall Tiling

Walls in Laundry only to be tiled to the height indicated with 6" x 6" x $\frac{1}{4}$ " glazed wall tiles of selected colour.

Above each set of wash troughs provide and build in 6" x 3" recessed soap holder to match tiles and placed where directed by the Supervising Officer.

R.13 TERRAZZO WORKER

To be all as before specified in Section M.

Thresholds

To be provided and fitted to openings Nos. 1, 2 and 3.

Sills

To be fitted to window in Ironing Room as detailed.

R.14 CEILING FIXER

All ceilings throughout to be lined with 3/16" thick asbestos cement sheets fixed all as before specified in Section N.

R.15 GLAZIER

To be all as before specified in Section O.

R.16 PAINTER

To be all as before specified in Section P.

Internal surfaces not otherwise specified to be finished with Exterior Finishing Enamel Type 1 excepting to ceilings and Type 2 to ceilings.

The following surfaces are to be treated with "Seculate" anti-condensation compound and finishes:

Walls above tiling in Laundry
Walls in Drying Room

WILLIAMTOWN
HECT
SERVICES.

13626.

TENDER

T613.

TENDERS CLOSE AT

12 NOON ON

13/7/65

with

DIRECTOR OF WORKS
DEPARTMENT OF WORKS
ROOM 16 - 14TH FLOOR
COMMONWEALTH CENTRE
ELIZABETH STREET
SYDNEY

DOCUMENT COPY

SPECIFICATION.

SEP DRAWINGS

DEPARTMENT OF WORKS
COMMONWEALTH OF AUSTRALIA.

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The tender documents must be returned in good order and condition on or before the specified closing date. Failure to return the documents by this date will result in the forfeiture of any deposit which may have been lodged.

Specification No. MM65/52 Copy No. 1

COMMONWEALTH OF AUSTRALIA

Specification No. NM65/52

SPECIFICATION FOR PROVISION OF MECHANICAL SERVICES AND EQUIPMENT COMPRISING
KITCHEN AND REFRIGERATION EQUIPMENT, VENTILATION, HOT WATER, STEAM AND GAS
INSTALLATIONS FOR SERGEANTS' MESS AND LAUNDRY BLOCK AT R.A.A.F. STATION
WILLIAMTOWN, N.S.W.

For the Commonwealth of Australia
Department of Works
Commonwealth Centre
Chifley Square
(Cnr. Phillip and Hunter Sts.)
SYDNEY.

JUNE, 1965

The works included in this specification will comprise a subcontract within the Main Contract for the following project:-

ERECTION AND COMPLETION OF SERGEANTS' MESS BUILDING AND
LAUNDRY AT THE R.A.A.F. STATION, WILLIAMTOWN, N.S.W.

tenders for which have been invited.

The Director of Works may nominate a person whose tender for the proposed subcontract is acceptable to him as a Nominated Subcontractor under Condition 7 of the Department's General Conditions of Contract.

The Contractor for the Main Contract will accept the nominated tender subject to the provisions of Condition 7 of the General Conditions of Contract, provided, however, that the nominated tenderer shall not be bound to enter into an agreement in accordance with this tender with a contractor against whom he may make reasonable objection.

This specification is to be read in conjunction with the Specification (No. NA65/121), Drawings for the Main Contract and the General and Special Conditions of Contract. A copy of these documents may be inspected at:-

- (a) The Contracts Section, Department of Works,
Room 16, 14th Floor, The Commonwealth Centre,
Chifley Square (Cnr. Phillip and Hunter Sts.),
Sydney.
- (b) The Divisional Office, Commonwealth Department
of Works, Customs House, Newcastle.

Drawing Numbers NM65/111B, NM65/112B, NM65/113B, NM65/114B, NM65/115B, NM65/116B and NM64/14B shall be read in conjunction with the specification for this proposed subcontract.

15.

COOL ROOM PLANT (CONT'D)Valves

Provide all valves for the correct operation of the system.

Valves shall be of the packless type, of forged brass construction and mounted in accessible positions for easy operation and maintenance.

Controls

Automatic controls shall be provided to control room temperatures, defrost cycle, protect the equipment against overload and maintain the specified conditions.

Supply and install on the wall in the plant room a rough-cast "Zelemite" control board with aluminium trim.

On this board, supply and install the following:

1. Main "start" switch for whole system.
2. Contactor for compressor motor.
3. Twin-bulb type thermostat equal to "Ranco" set at 35°F with a range of 0 to 70°F and differential not exceeding 2°F. One bulb shall be located in the air stream behind the evaporator, and the other (defrost) bulb on the evaporator fins. The thermostat shall control the solenoid valve on the liquid line to the evaporator, the defrost bulb preventing the solenoid valve from opening until the coil temperature has reached 33°F to ensure that all frost has melted before starting up. The fan shall run continuously and not stop for the defrost cycle.
4. Low pressure cut-out for the compressor.
5. "Traffolyte" type labels for each item on the board.

Above cool room door, supply and install a rough-cast "Zelemite" panel with aluminium trim and mount -

1. 4" dia. "Dobbie" type dial. thermometer, the tinned finish indicating bulb located inside room.
2. Isolating switch with neon light for the evaporator fan.

Insulation

Insulate liquid and suction lines in an approved manner to prevent sweating.

Testing

The tests shall be carried out in the presence of and to the satisfaction of the Director of Works.

The refrigeration system shall be given a pressure test at 200 P.s.i. before any lagging is applied.

The pressure test shall be made by filling the system with anhydrous carbon dioxide or other inert anhydrous gas, to the required test pressure and all joints shall be inspected after the soap film has been applied. The pressure shall be maintained with all valves shut for 24 hours without further