Sample metric building drawings

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NATIONAL RESEARCH COUNCIL OF CANADA

DIVISION OF BUILDING RESEARCH

SAMPLE METRIC BUILDING DRAWINGS

Prepared by

C.S. Strelka and K.N. Burn

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FOREWORD

January 1 of 1978 was the date designated for the conversion to the use of SI (metric measurement) by the Canadian construction industry. Many building products are now available in metric sizes and many manufacturers of building materials and components have embarked on their metric production programs.

Over the past few years, in preparation for the metrication of the building industry, several publications have appeared as aids in this conversion. Some of these are listed in the Bibliography which follows the Guidelines for Preparing Building Drawings Using Metric Dimensions.

This set of sample architectural drawings done in metric format is another "metric aid" for the building industry. The drawings should be regarded only as a guide to the correct way of presenting metric dimensioning; they do not represent a model design nor do they indicate the requirements of building regulations.

The building represented in these drawings, a 2-storey apartment building with 11 suites, was conceived solely to provide as many different examples of common features and configurations as could reasonably be included in a building of this size. Practical and economic considerations of design were subordinated to this general aim.

Ottawa
June 1978

C.B. Crawford
Director, DBR/NRC

CONTENTS

GUIDELINES FOR PREPARING BUILDING DRAWINGS USING METRIC DIMENSIONS

Dimensions

Only two metric units should be used for dimensions -- metre (m) and millimetre (mm). It is usually unnecessary to include the unit symbol after each numerical value; the unit or units of measurement used in the drawing should be noted in the title block.

Where both metres and millimetres are used on the same drawing, as for example in Drawing A1, where site dimensions are given in millimetres and elevations in metres, unit symbols can be omitted providing the following conventions are followed:

- whole numbers indicate millimetres, e.g., 2465, 300, 25, etc.

- decimalized numbers expressed to three places indicate metres, e.g., 97.150

- all other dimensions and notations should be followed by the unit symbol, e.g., 24.0 m^2, 3.7 m^3

Two further conventions should be observed for the correct indication of metric dimensions of drawings:

- unit symbols should never be mixed, e.g., "6 m 350 mm" is not acceptable. The dimensions should be expressed either in metres, as 6.350 m, or in millimetres, 6350 mm.

- symbols for metric units, whether singular or plural, never change. The symbol for metre and metres is always m, never ms; the symbol for millimetre and millimetres is always mm, never mms.

Scales

Scales used for *sketch* and *preliminary drawings* are usually determined by convenience. Even at this preliminary stage, however, thought should be given to later reduction of drafting staff effort and therefore the same scales should be chosen for both preliminary drawings and subsequent working drawings.

Scales used for *location drawings* (see Block Plan, Drawing A1) will vary according to the scales of the maps available for reference.

Scales used for *site plans* will depend to some extent on the size of the project and the site but, in general, scales of 1:200 or 1:500 are suitable for this purpose.

The most convenient scales for *floor plans*, *elevations*, and *sections* will depend on the size of the project and the detail of the information to be shown. The metric scales most commonly used give ratios that are very close to the traditional ones so that the conversion represents only a very slight change in drawing size. The following "near equivalents" are useful to keep in mind:

for 1/16"	=	1' 0"	(1:192)	use ... 1:200
for 1/8"	=	1' 0"	(1:96)	use ... 1:100
for 1/4"	=	1' 0"	(1:48)	use ... 1:50

(see Drawings A1 to A9)

For *wall sections*, a scale of 1:20 is most convenient (see Drawings A11 and A12).

The best scales for *details* will depend on the size of the component or junctions to be shown, the

complexity of the construction, and the need to give explicit information. For such purposes, scales of 1:10 and 1:5 are generally most suitable (see Drawing A10).

Lettering

Vertical upper case lettering should be used except for unit symbols where lower case letters are required. A minimum of basic letter sizes should be used. Three basic sizes should be sufficient for most building drawings: the largest size for major headings, the intermediate size for subheadings, and the smallest size for notes.

For drawings that are to be reduced in size, e.g., for microfilming, it is important to use the sizes for letters and numerals suggested in CSA Standard B78.1, Mechanical Engineering Drawing Standards, Drafting Practices - General Principles. For clarity, the minimum height of letters and numerals should be 3.0 mm. (This recommendation was followed in the preparation of this set of drawings which, for publication purposes, has been reduced by 50 per cent.)

Drafting Practice

The recommendations of the Canadian Metric Drawing Practice Standard CAN3-B78.3-M77 "Building Drawings" have been adhered to for the reference grid system, coding of doors, windows and apartments, and symbols for various building materials in the production of this set of sample drawings.

One point must be stressed; this concerns "soft" and "hard" conversion from imperial to metric units. For some time various materials and building components will continue to be produced to traditional dimensions. The actual dimensions of a product will not change but are expressed, in the closest approximation, in SI units. An example of "soft" metric designation of a product, and one that will probably be used for a long time, is softwood lumber. Until now lumber has been described in imperial inches but everyone knew that the so-called 2 × 4 was not actually 2 in. by 4 in. In metric drawings this practice of calling imperial sizes is abandoned and because softwood lumber will not change its actual dimensions for the time being, the metric description of the same piece of lumber is 38 × 89 mm (actual!).

When incorporating these dimensions into full metric drawings, it is essential that designers use judgement based on their knowledge of normal inaccuracies encountered in the building process. Another example, the exact conversion of the length of a bathtub 5 ft long is 1524 mm but it is satisfactory (and simpler), when totaling a string of dimensions, to round it off to 1525 mm. Floor areas calculated to the nearest 0.1 m^2 are another example of the degree of accuracy needed for most purposes (0.01 m^2 is an area covering approximately 1 ceramic tile).

When building products and components are produced *only* in rational metric units (termed "hard" conversion), the new dimensions are slightly different from the products produced in imperial sizes. For example, the dimensions of a plywood sheet, formerly 4 by 8 ft, are 1200 by 2400 mm, i.e., the sheet is slightly smaller in both dimensions.

Available from:

Division of Building Research
National Research Council of Canada
Ottawa, Ontario. K1A 0R6

Manual on metric building drawing practice. C.S. Strelka, L. Loshak, and J.S. Torrance. Nat. Res. Council, Div. Bldg. Res., Ottawa, (revised) June 1977. 99 p. Order No. NRCC 15234; price $3.00

Think metric in construction. (An audio-visual presentation prepared by Nat. Res. Council, Div. Bldg. Res.) 80 slides plus tape; running time: 23 min. Order No. A/V 19A; price $80.00

Available from:

Housing & Urban Development Assoc. of Canada
15 Toronto Street, 10th Floor
Toronto, Ontario. M5C 2E3

HUDAC metric conversion kit. (4 overlays). Dec. 1977. Price $25.00

On-site metric -- a handbook for construction workers. 40 p. Dec. 1977. Price 75¢

Available from:

Reinforcing Steel Inst. of Ontario,
1 Sparks Street
Willowdale, Ontario. M2H 2W1

Metric supplement to manual of standard practice for reinforcing steel. April 1977, 32 p. Price $5.00

Available from:

Methuen Publications
2330 Midland Avenue
Agincourt, Ontario. M1S 1P1

Metric conversion for construction. S.R. Kent. Methuen Publications. Oct. 1976. 96 p. Price $7.95

Available from:

Canadian Wood Council
701 - 170 Laurier Ave. W.
Ottawa, Ontario. K1P 5V5

Metric span tables for wood joists, rafters and beams. Oct. 1977. 53 p. Price $1.50

Available from:

Central Mortgage and Housing Corporation
Montreal Road
Ottawa, Ontario. K1A 0P7

Relevant CMHC publications (no charge, except where noted)

- Use and design of space in the home. Price $2.00
- Modest house designs. Price $1.00
- Site planning criteria.
- Safety in the home.
- Think metric in construction.
- Metric conversion tables.
- Playspaces for pre-schoolers.
- Summary of metric conversion plan.
- Creative playground information kit.
- Administrative requirements, National Housing Act.

Available from:

Canadian Standards Association
178 Rexdale Blvd.
Rexdale, Ontario. M9W 1R3

Canadian metric practice guide. CSA Z234.1-76. Price $6.50

Series of standards for metric dimensional coordination in buildings. CSA A31-M. Price $9.25

Building drawings. CSA B78.3-77M. Price $10.50

Glossary of metric units. CSA Z351-1978. Price $6.00

Available, at prices noted, from:

Associate Committee on the National Building Code
National Research Council of Canada
Ottawa, Ontario. K1A 0R6

National Building Code Documents and Lists of Metric Values

-- National Building Code of Canada 1977
Order No. NRCC 15555; price: $6.50

Metric Values for use with the National Building Code of Canada. Order No. NRCC 15555-M; n.c.

-- *Supplement No. 1, Climatic Information for Building Design in Canada. Order No. NRCC 15556; price: $1.00

-- Supplement No. 2, Fire Performance Ratings.
Order No. NRCC 15557; price: $1.00

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* in metric form only

Available, at prices noted, from:

Associate Committee on the National
Building Code
National Research Council of Canada
Ottawa, Ontario. K1A 0R6

National Building Code Documents and Lists of Metric Values (Cont'd)

-- Supplement No. 4, Commentaries on Part 4 of the National Building Code of Canada. Order No. NRCC 15558; price: $2.50

Metric Values for use with Supplement No. 4 to the National Building Code 1977. Order No. NRCC 15558-M; n.c.

-- Supplement No. 5, Building Standards for the Handicapped. Order No. NRCC 15559; price: $1.00

Metric Values for use with Supplement No. 5 to the National Building Code 1977. Order No. NRCC 15559-M; n.c.

-- Canadian Heating, Ventilating and Air-Conditioning Code. Order No. NRCC 15560; price $1.25

Metric Values for use with the Canadian Heating, Ventilating and Air-Conditioning Code 1977. Order No. NRCC 15560-M; n.c.

-- Canadian Plumbing Code. Order No. NRCC 15561; price: $2.00

Metric Values for use with the Canadian Plumbing Code 1977. Order No. NRCC 15561-M; n.c.

-- Canadian Construction Safety Code. Order No. NRCC 15562; price: $1.50

Metric Values for use with the Canadian Construction Safety Code 1977. Order No. NRCC 15562-M; n.c.

-- Residential Standards. Order No. NRCC 15563; n.c.

Metric Values for use with the Residential Standards 1977. Order No. NRCC 15563-M; n.c.

DRAWINGS A1 to A13

A1 Site plan

A2 Parking garage plan

A3 Ground floor plan

A4 Second floor plan

A5 Part ground floor plan

A6 Part ground floor plan

A7 Elevations

A8 Elevations -- kitchens and bathrooms

A9 Cross-section

A10 Stairs

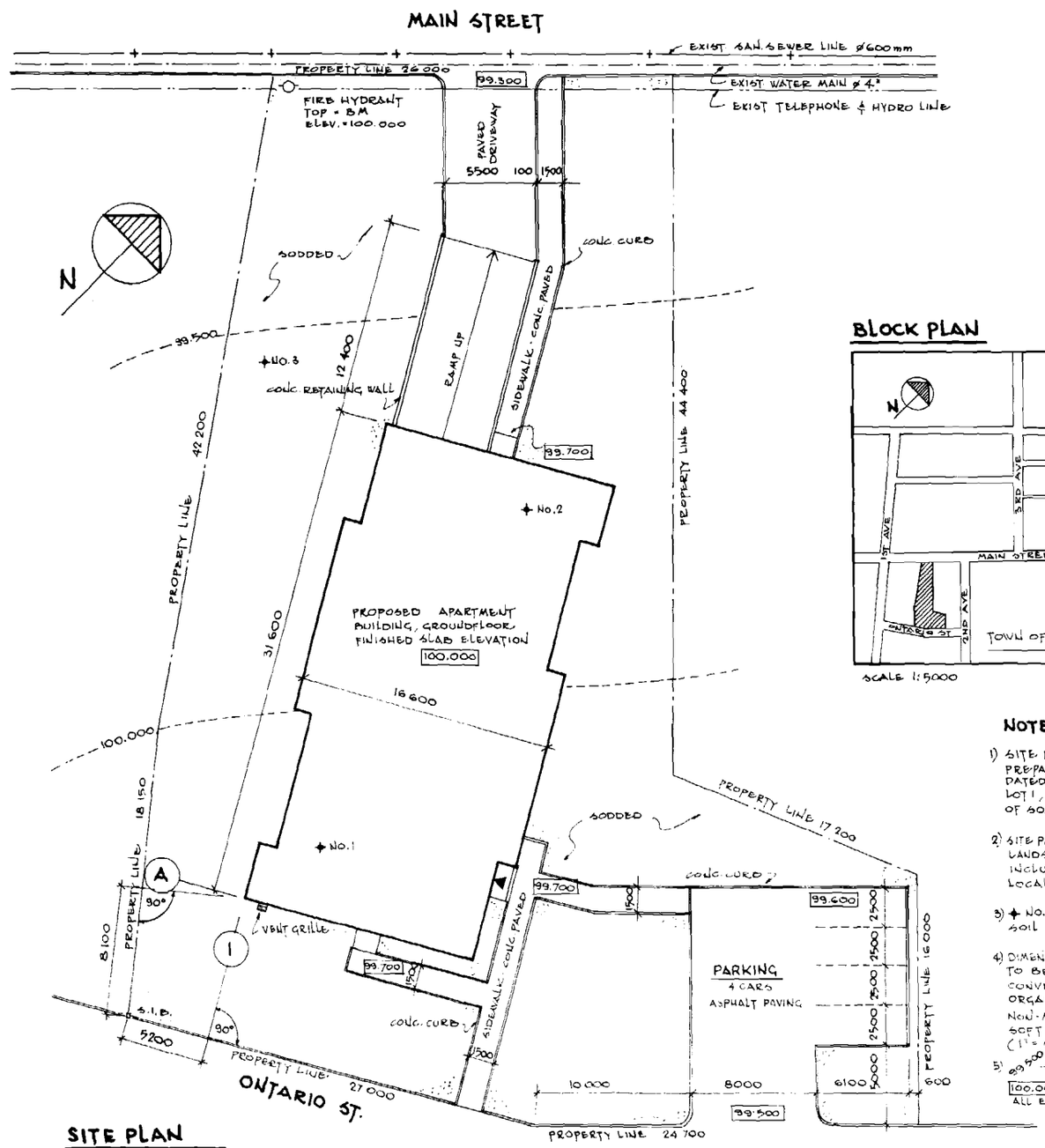
A11 Wall sections

A12 Wall sections

A13 Schedules

N O T E

These drawings have been reduced by 50 per cent for publication purposes



SITE PLAN
SCALE 1:200

BLOCK PLAN

SCALE 1:5000

NOTES :

1) SITE PLAN BASED ON LAND SURVEY PREPARED BY XYZ, REG. LAND SURVEYOR, DATED 78-01-05, SHOWING PART 2 OF LOT 1, REGISTERED PLAN 123, TOWNSHIP OF SOMEWHERE, PROVINCE OF OUT

2) SITE PLAN TO BE COMPLEMENTED BY LANDSCAPING & DRAINAGE PLANS (NOT INCLUDED IN THIS SET) ACCORDING TO LOCAL BY-LAWS AND REQUIREMENTS.

3) ✦ NO. 1, 2, 3 ... BORE HOLES AS PER SOIL REPORT (NOT ATTACHED).

4) DIMENSIONS OF WROUGHT METAL PIPES WILL COUT DUE TO BE EXPRESSED IN INCHES UNTIL CONVERTED BY THE APPROPRIATE STANDARD ORGANISATION (SEE WATER MAIN THIS DWG). FOR NON-METALLIC PIPES & TUBES USE SOFT CONVERSION OF NOMINAL DIAMETER. (1" = 25 mm).

5) 99.500 ... EXISTING ELEVATION
100.000 PROPOSED ELEVATION
ALL ELEVATIONS SHOWN IN METRES

0 10 20 30 40 50 100 mm

General notes

1) THESE DRAWINGS TO BE READ IN CONJUNCTION WITH LANDSCAPING, STRUCTURAL, MECHANICAL & ELECTRICAL DRAWINGS, NOT INCLUDED IN THIS SET.

No.	Revision	Date

section, elevation or detail No.
No. of dwg. where above is drawn

All linear dimensions in millimetres

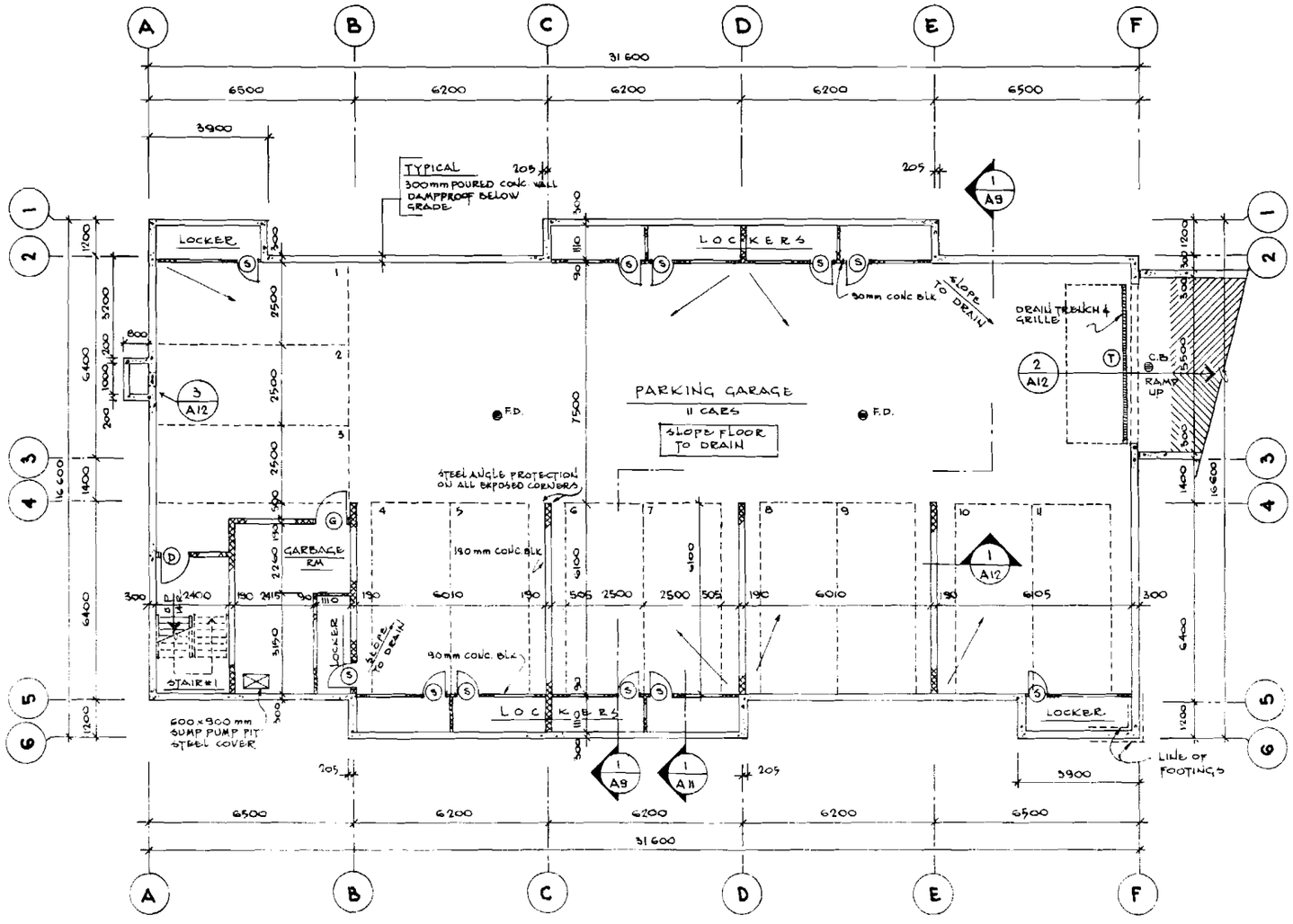
Architect / Engineer / Consultant
Name
Address
Phone number
SEAL

Project title
SAMPLE METRIC WORKING DRAWINGS

Drawing title
SITE PLAN

Scale	1:200	0 2000 4000 6000 8000 10000 mm	
Designed by	C.A.B.	Date	FEB. 78
Drawn by	C.A.B.	Date	FEB. 78
Approved by	K.N.B.	Date	FEB. 78

Project No.	Dwg No.	Rev.
01	A1	



PARKING GARAGE PLAN
SCALE 1:100

0 10 20 30 40 50 100 mm

General notes

1) GARBAGE ROOM, STORAGE ROOM & LOCKERS TO BE SPRINKLERED

No.	Revision	Date

section, elevation or detail No.
No. of dwg. where above is drawn

All linear dimensions in millimetres

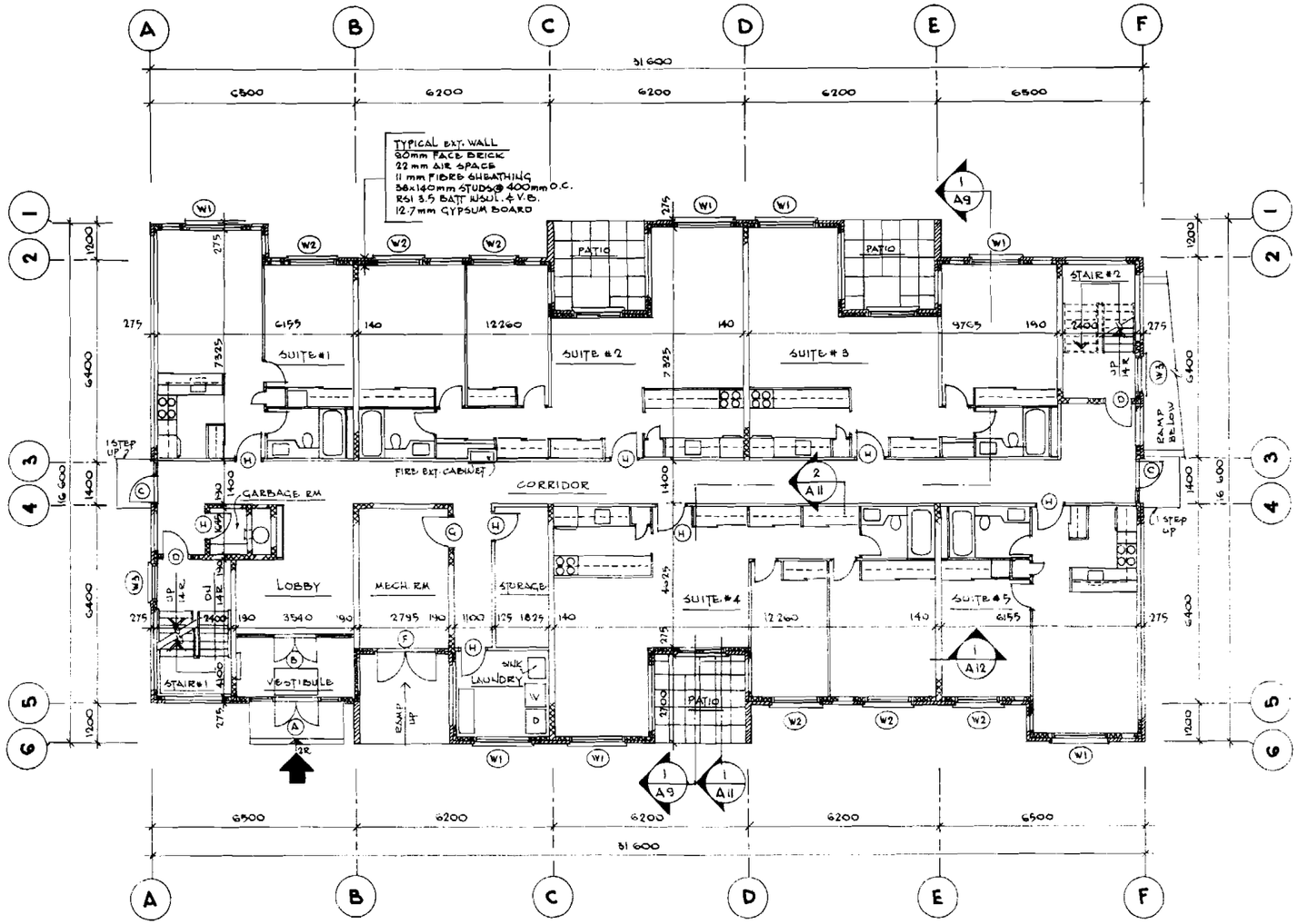
Architect/ Engineer/ Consultant
Name
SEAL
Address
Phone number

Project title
SAMPLE METRIC WORKING DRAWINGS

Drawing title
PARKING GARAGE PLAN

Scale 1:100	0 1000 2000 3000 4000 5000
Designed by C.S.S.	Date FEB. 78
Drawn by C.S.S.	Date FEB. 78
Approved by K.N.B.	Date FEB. 78

Project No.	Dwg No.	Rev.
01	A2	



GROUND FLOOR PLAN

SCALE 1:100

0 10 20 30 40 50 100 mm

General notes

No.	Revision	Date

section, elevation or detail No.

No. of dwg. where above is drawn

All linear dimensions in millimetres

Architect / Engineer / Consultant

Name

SEAL

Address

Phone number

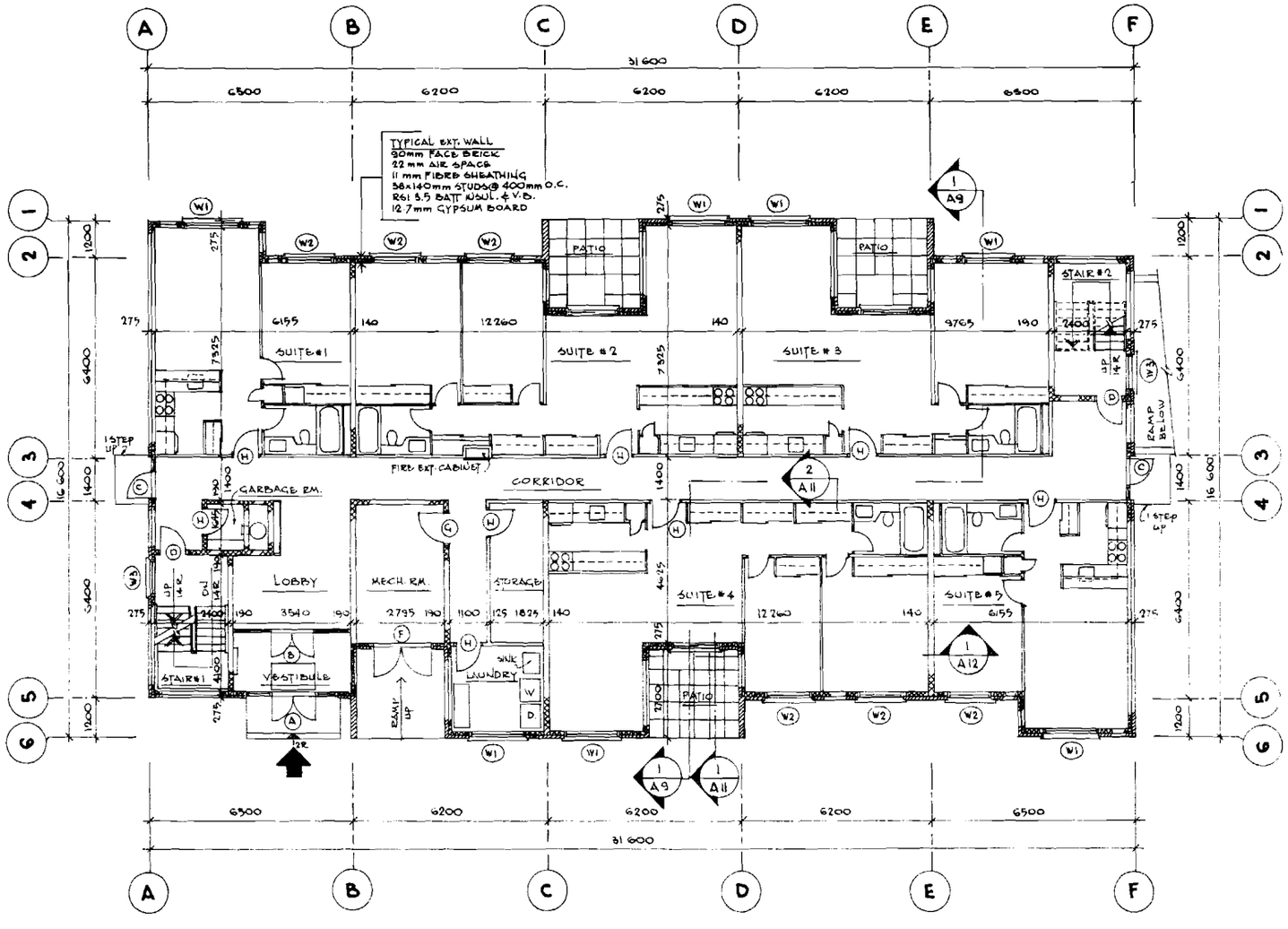
Project title

SAMPLE METRIC WORKING DRAWINGS

Drawing title

GROUND FLOOR PLAN

Scale	1:100	0 1000 2000 3000 4000 5000	
Designed by	C.S.S.	Date	FEB. 78
Drawn by	C.S.S.	Date	FEB. 78
Approved by	K.W.B.	Date	FEB. 78
Project No.	01	Dwg No.	A3
Rev.			



GROUND FLOOR PLAN
SCALE 1:100

0 10 20 30 40 50 100mm

General notes

No.	Revision	Date

section, elevation or detail No.
No. of dwg. where above is drawn

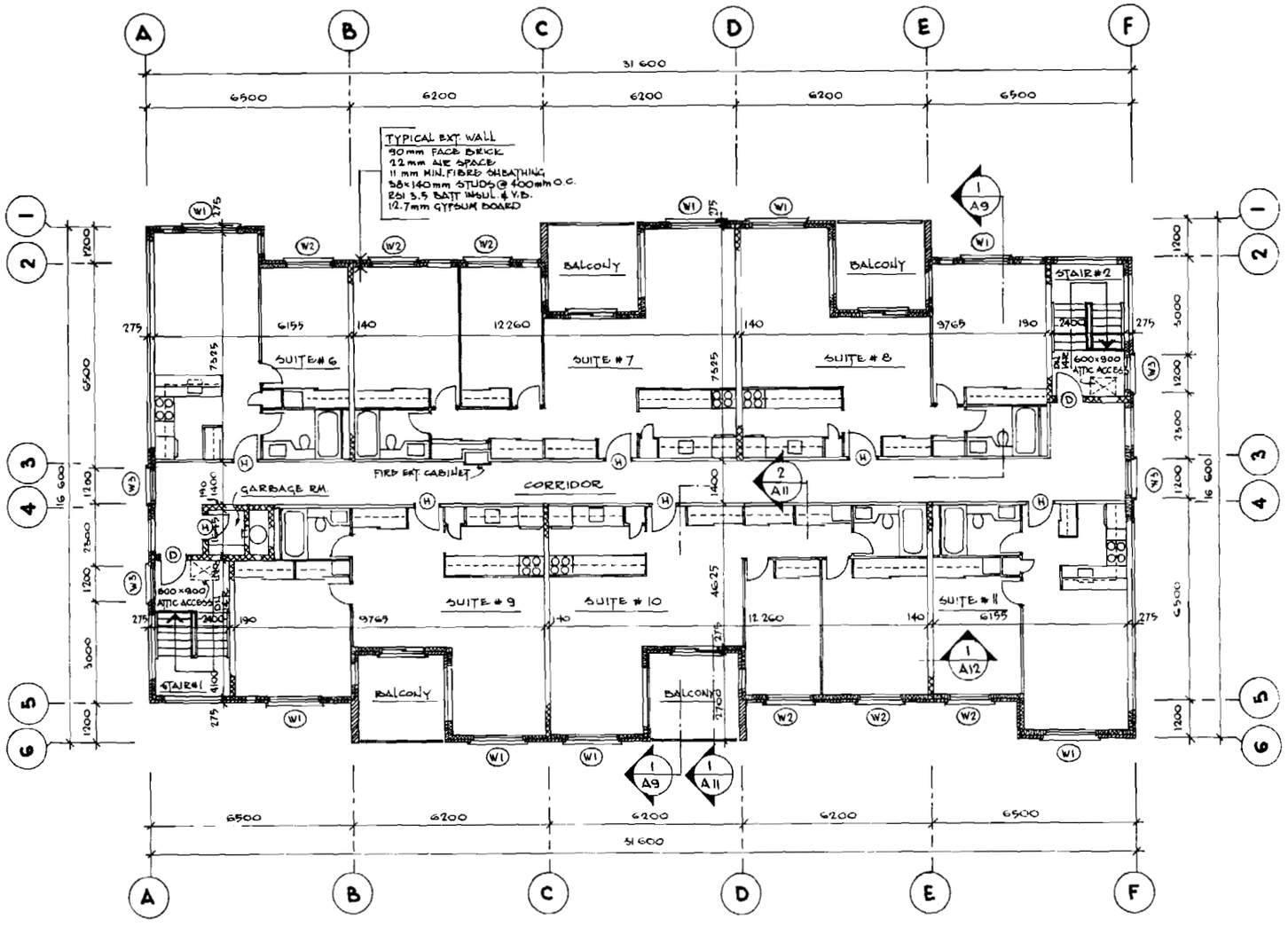
All linear dimensions in millimetres

Architect / Engineer / Consultant
Name
SEAL
Address
Phone number

Project title
SAMPLE METRIC WORKING DRAWINGS

Drawing title
GROUND FLOOR PLAN

Scale 1:100	0 1000 2000 3000 4000 5000	
Designed by C.O.S.	Date FEB. 78	
Drawn by C.O.S.	Date FEB. 78	
Approved by K.N.B.	Date FEB. 78	
Project No. 01	Dwg No. A3	Rev.



2ND FLOOR PLAN

SCALE: 1:100

General notes

No.	Revision	Date

section, elevation or detail No.

No. of dwg. where above is drawn

All linear dimensions in millimetres

Architect / Engineer / Consultant

Name

SEAL

Address

Phone number

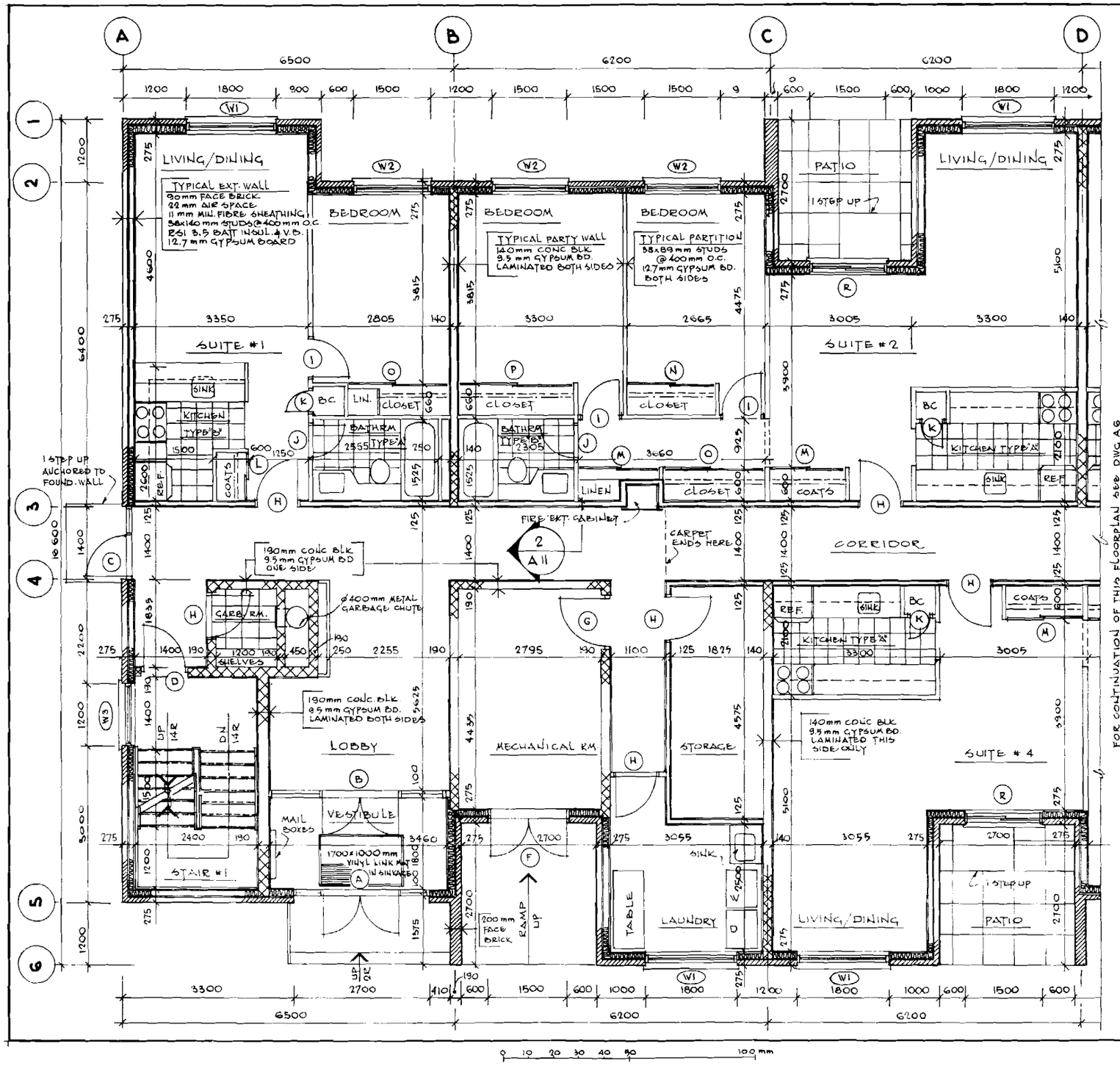
Project title

SAMPLE METRIC WORKING DRAWINGS

Drawing title

2ND FLOOR PLAN

Scale	1:100	0 1000 2000 3000 4000 5000	
Designed by	C.S.S.	Date	FEB. 78
Drawn by	C.S.S.	Date	FEB. 78
Approved by	K.N.B.	Date	FEB. 78
Project No.	01	Dwg No.	A4
Rev.			



General notes

1) ALL CLOSETS TO HAVE A HANGING ROD & 275 mm WIDE SHELF.
2) ALL LINEN CLOSETS TO BE MIN. 500mm DEEP AND TO BE EQUIPPED WITH MIN. 4 ADJUSTABLE SHELVES.
3) ALL KITCHENS, BATHROOMS & THE COMMON LAUNDRY TO BE MECHANICALLY VENTILATED (REFER TO MECH. & ELECT. DWGS.)
4) ALL DUCTS TO BE ENCLOSED BY ONE HOUR FIRERATED PARTITION (SEE DET. 2/A9).
5) ALL PUBLIC CORRIDORS & STAIRWELLS TO HAVE AN AUXILIARY LIGHTING SYSTEM IN CASE OF POWER FAILURE (REFER TO ELECTRICAL DWGS).

No.	Revision	Date

section, elevation or detail No.
No. of dwg. where above is drawn

All linear dimensions in millimetres

Architect / Engineer / Consultant
Name
Address
Phone number

SEAL

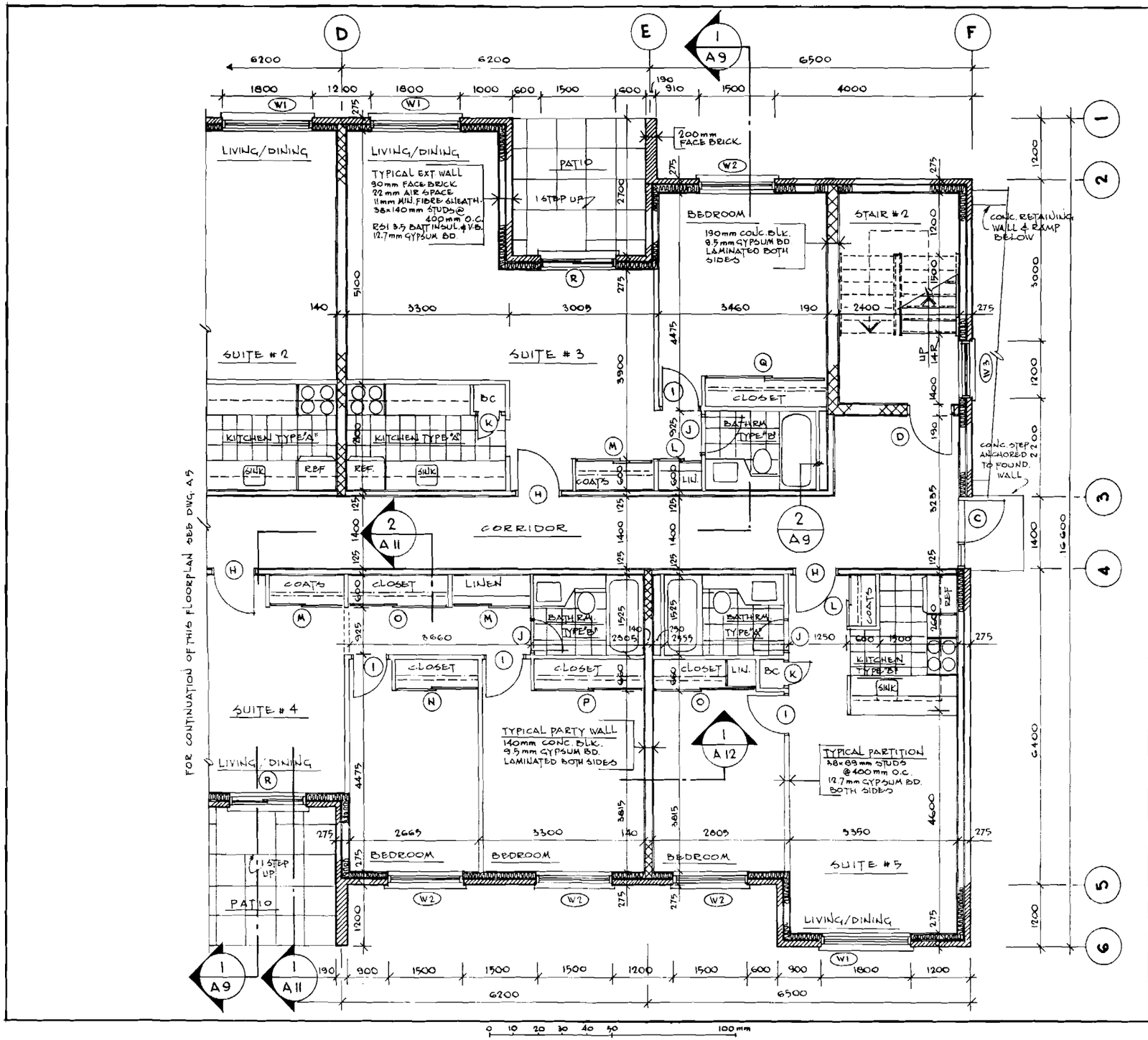
Project title

SAMPLE METRIC WORKING DRAWINGS

Drawing title

PART GROUND FLOOR PLAN

Scale 1:50	0 500 1000 1500 2000 2500		
Designed by C.S.S.		Date FEB. 78	
Drawn by C.S.S.		Date FEB. 78	
Approved by K.N.B.		Date FEB. 78	
Project No. 01	Dwg No. A5	Rev.	



General notes

No.	Revision	Date

section, elevation or detail No.

No. of dwg. where above is drawn

All linear dimensions in millimetres

Architect / Engineer / Consultant

Name

SEAL

Address

Phone number

Project title

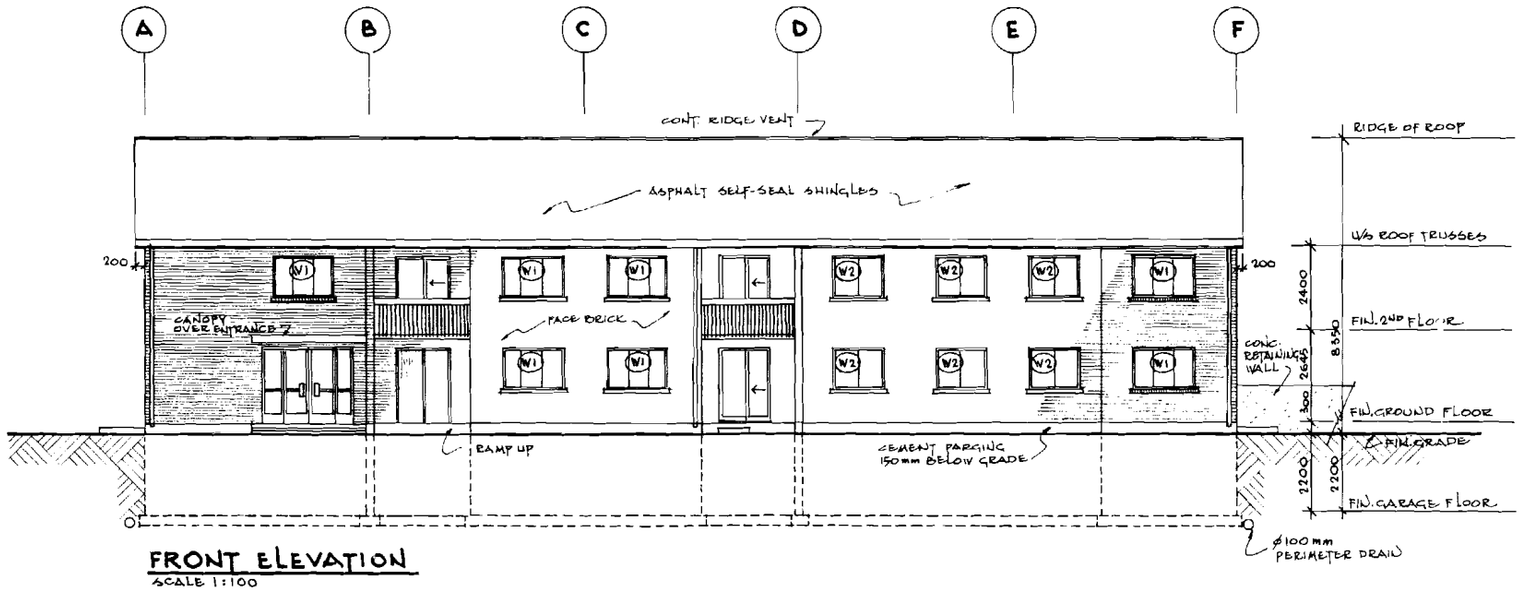
SAMPLE METRIC WORKING DRAWINGS

Drawing title

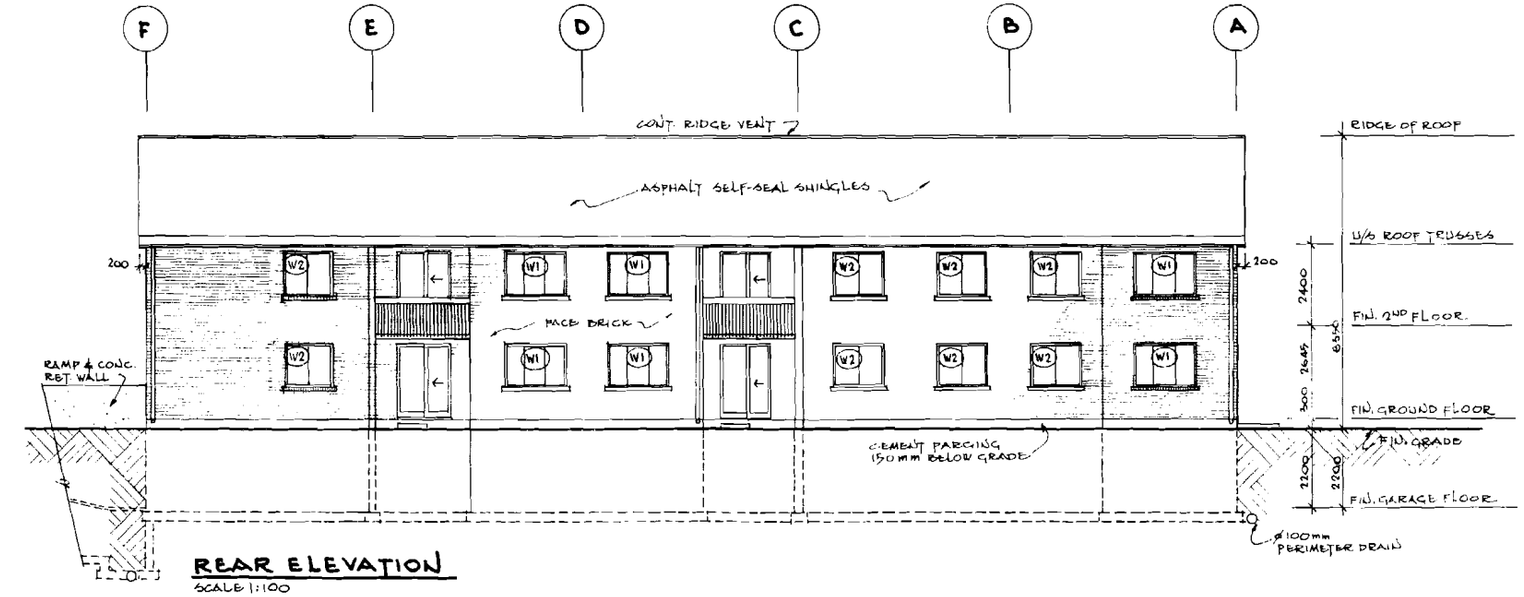
PART GROUND FLOOR PLAN

Scale	1:50	0 500 1000 1500 2000 2500 mm	
Designed by	C. S. S.	Date	FEB. 78
Drawn by	C. S. S.	Date	FEB. 78
Approved by	K.W. B.	Date	FEB. 78

Project No.	Dwg No.	Rev.
01	A6	



FRONT ELEVATION
SCALE 1:100



REAR ELEVATION
SCALE 1:100

0 10 20 30 40 50 100mm

General notes

1) FOR LOCATIONS & SIZES OF LOUVERS AND/OR OPENINGS FOR FANS ETC IN WALLS OR ROOF REFER TO MECH. DWG's.

No.	Revision	Date

section, elevation or detail No.

No. of dwg. where above is drawn

All linear dimensions in millimetres

Architect/Engineer/Consultant

Name

SEAL

Address

Phone number

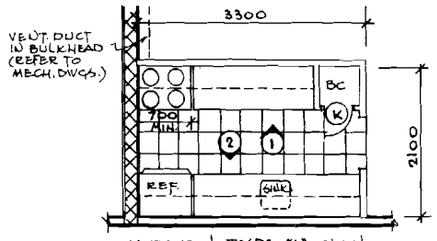
Project title

SAMPLE METRIC WORKING DRAWINGS

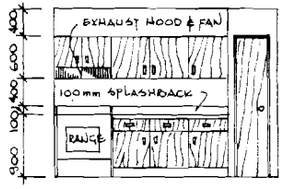
Drawing title

ELEVATIONS

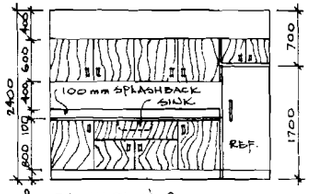
Scale	1:100	0 1000 2000 3000 4000 5000	
Designed by	C.S.S.	Date	FEB. 78
Drawn by	C.S.S.	Date	FEB. 78
Approved by	K.N.D.	Date	FEB. 78
Project No.	01	Dwg No.	A7
Rev.			



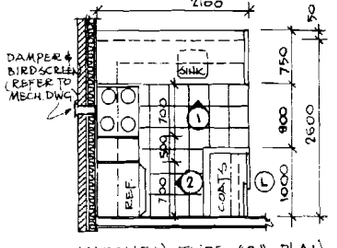
KITCHEN TYPE "A"-PLAN
SCALE 1:50



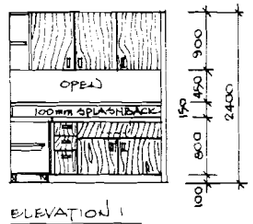
ELEVATION 1
SCALE 1:50



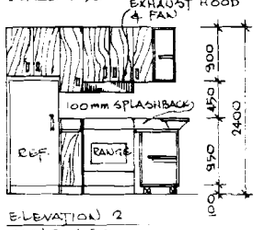
ELEVATION 2
SCALE 1:50



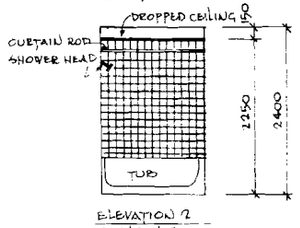
KITCHEN TYPE "B"-PLAN
SCALE 1:50



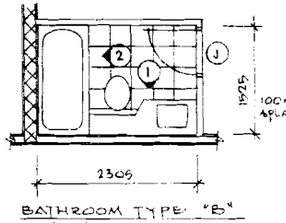
ELEVATION 1
SCALE 1:50



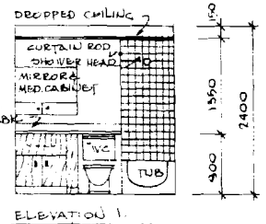
ELEVATION 2
SCALE 1:50



ELEVATION 2
SCALE 1:50



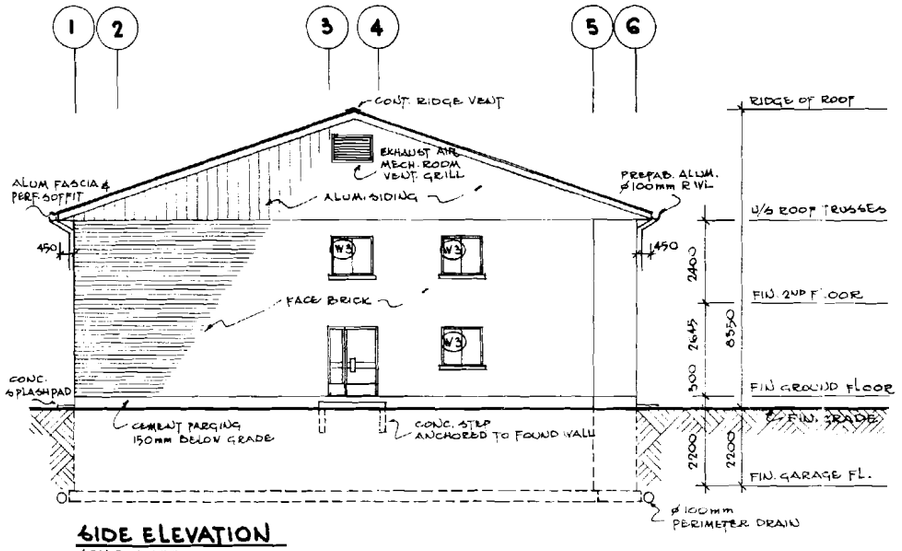
BATHROOM TYPE "B"
SCALE 1:50



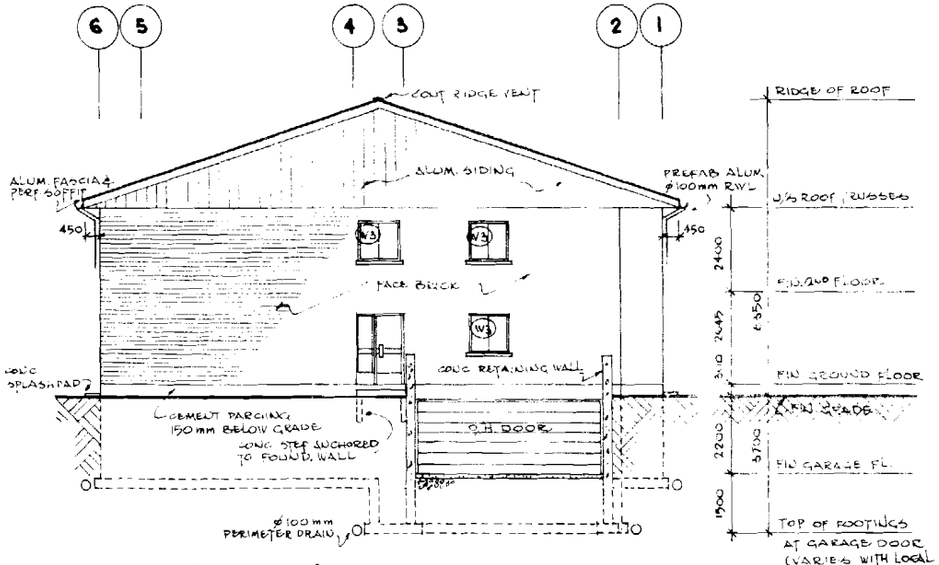
ELEVATION 1
SCALE 1:50

NOTE: TYPE "A" BATHROOM LENGTH 2559mm
ADJUST CABINET SIZE TO FIT

KITCHENS & BATHROOMS



SIDE ELEVATION
SCALE 1:100



SIDE ELEVATION
SCALE 1:100

0 10 20 30 40 50 100mm

General notes

No.	Revision	Date

section, elevation or detail No.
No. of dwg. where above is drawn

All linear dimensions in millimetres

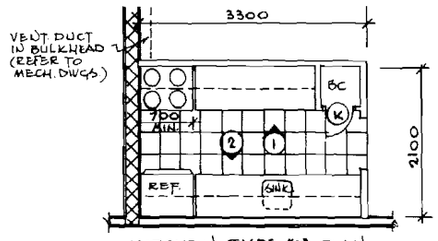
Architect/ Engineer/ Consultant
Name
SEAL
Address
Phone number

Project title
SAMPLE METRIC WORKING DRAWINGS

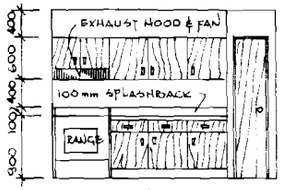
Drawing title
ELEVATIONS KITCHENS & BATHRMS

Scale	AS SHOWN		
Designed by	C.S.S.	Date	FEB.78
Drawn by	C.S.S.	Date	FEB.78
Approved by	K.N.B.	Date	FEB.78

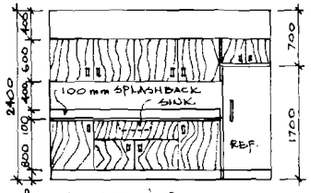
Project No.	Dwg No.	Rev.
01	A8	



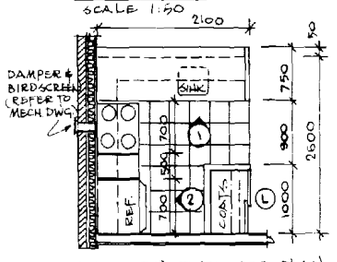
KITCHEN TYPE "A" - PLAN
SCALE 1:50



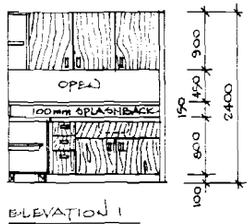
ELEVATION 1
SCALE 1:50



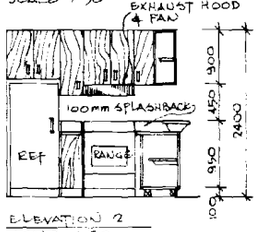
ELEVATION 2
SCALE 1:50



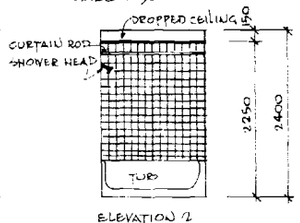
KITCHEN TYPE "B" - PLAN
SCALE 1:50



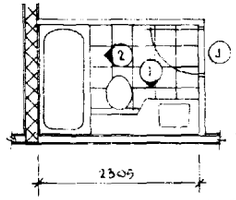
ELEVATION 1
SCALE 1:50



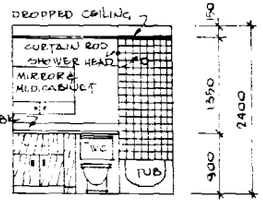
ELEVATION 2
SCALE 1:50



ELEVATION 2
SCALE 1:50



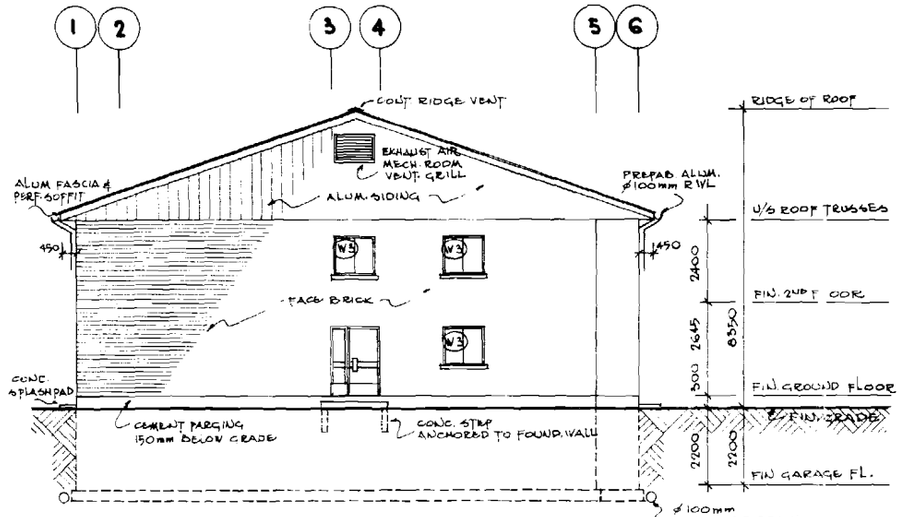
BATHROOM TYPE "B"
SCALE 1:50



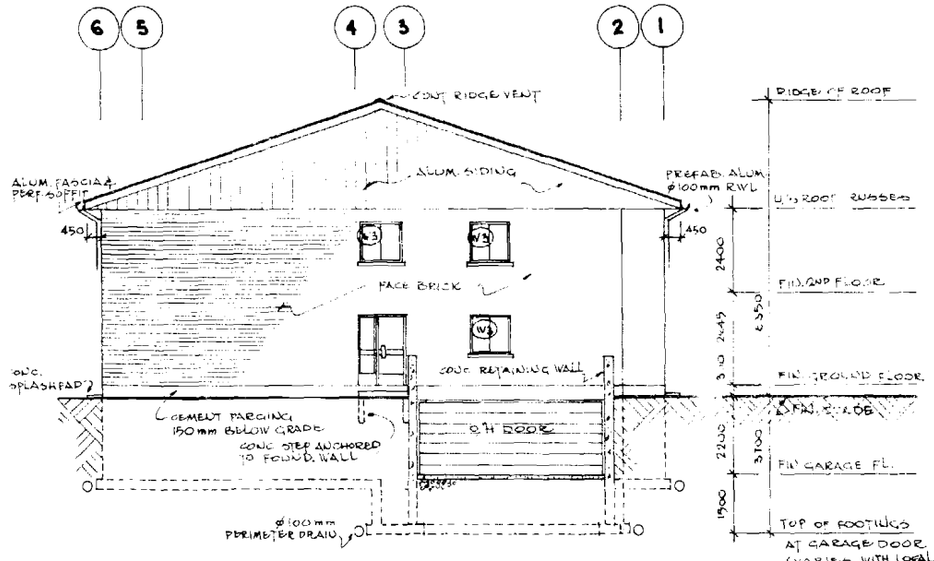
ELEVATION 1
SCALE 1:50

NOTE: TYPE "A" BATHROOM LENGTH... 2555 mm
ADJUST CABINET SIZE TO FIT

KITCHENS & BATHROOMS



SIDE ELEVATION
SCALE 1:100



SIDE ELEVATION
SCALE 1:100

0 10 20 30 40 50 100mm

General notes

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Project title

SAMPLE METRIC WORKING DRAWINGS

Drawing title

ELEVATIONS KITCHENS & BATHR'MS

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Designed by	C.S.S.	Date	FEB. 78
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Project No.	Dwg No.	Rev.	
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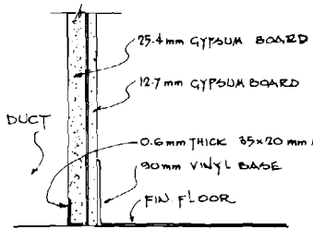
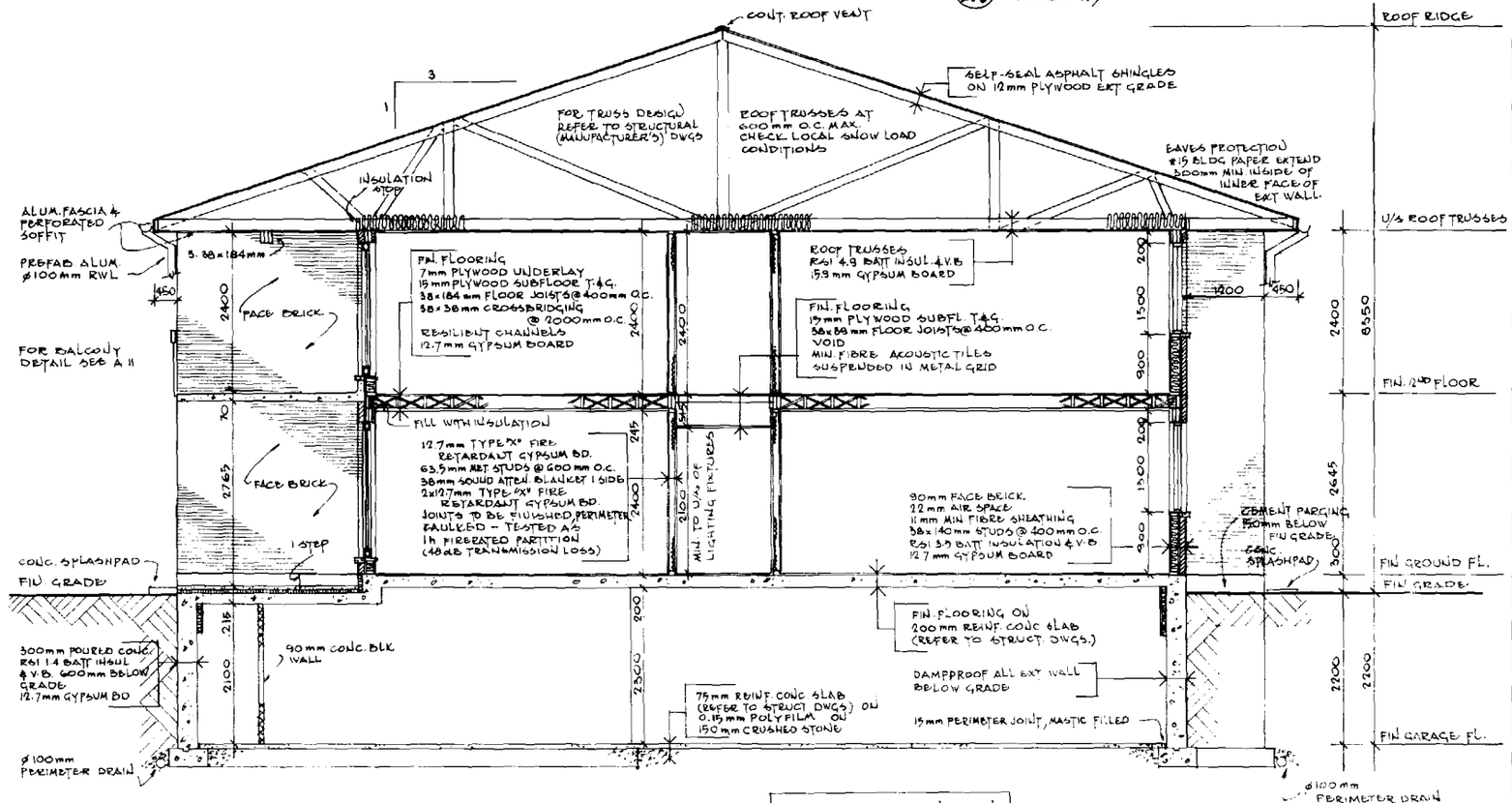
WHERE ATTIC SPACE INSULATION BLANKET EXTENDS TO THE EXT. WALL PROVIDE PLYWOOD BAFFLE TO OBTAIN 50mm MIN. SPACE BETWEEN INSULATION & U/S OF ROOF SHEATHING (FOR FREE AIR CIRCULATION).



2 / A9 1h FIRERATED DUCT PARTITION
SCALE 1:5



FOR FOOTINGS & FOUNDATION DESIGN & DIMENSIONS REFER TO STRUCTURAL DRAWINGS

1 / A9 CROSS SECTION
SCALE 1:50

0 10 20 30 40 50 100mm

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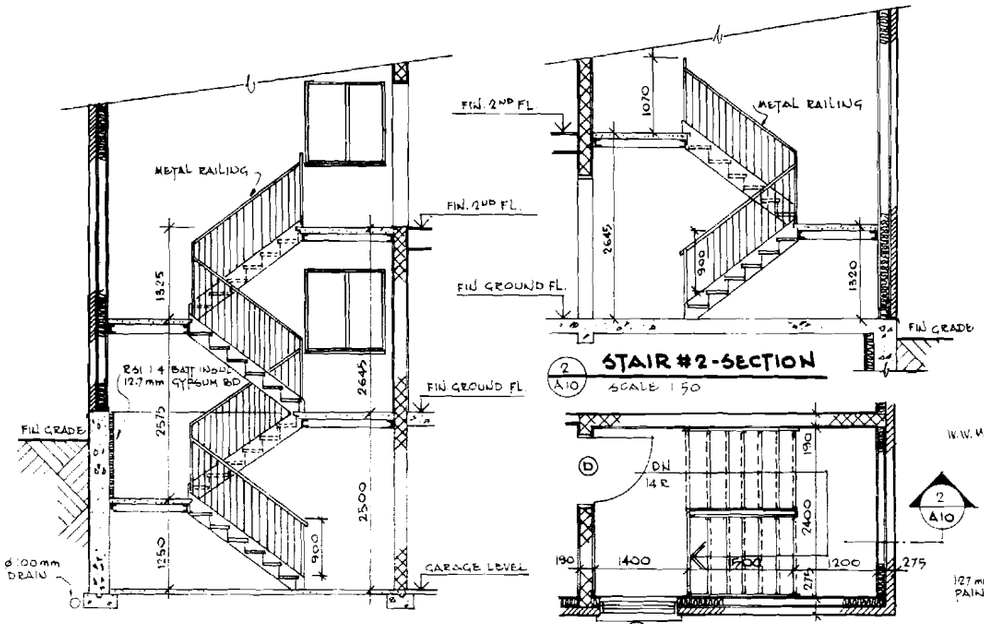
SAMPLE METRIC WORKING DRAWINGS

Drawing title

CROSS SECTION

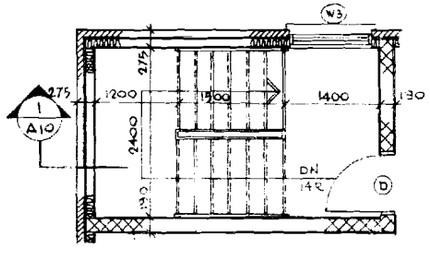
Scale 1:50		0 500 1000 1500 2000 2500	
Designed by	C.S.S.	Date	FEB. 78
Drawn by	C.S.S.	Date	FEB. 78
Approved by	K.N.B.	Date	FEB. 78
Project No. 01	Dwg No. A9		Rev.



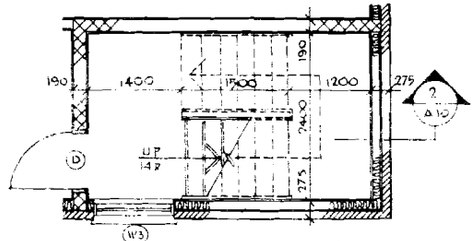
1 A10 **STAIR #1 - SECTION**
SCALE 1:50

2 A10 **STAIR #2-SECTION**
SCALE 1:50

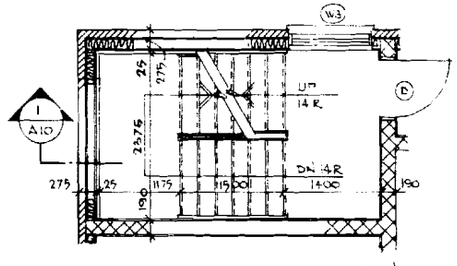
W3 **STAIR #2 - 2ND FLOOR PLAN**
SCALE 1:50



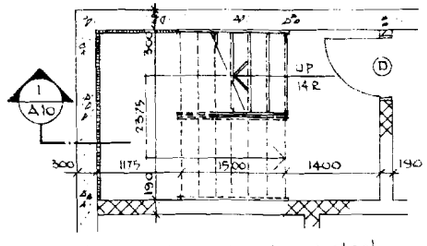
STAIR #1 - 2ND FLOOR PLAN
SCALE 1:50



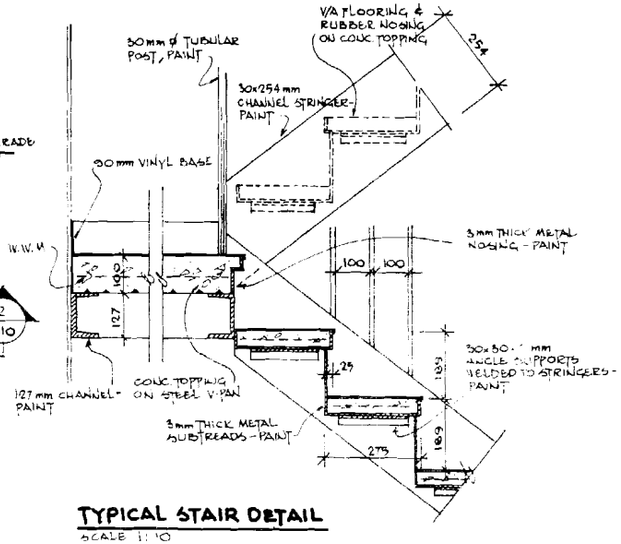
STAIR #2 - GROUND FLOOR PLAN
SCALE 1:50



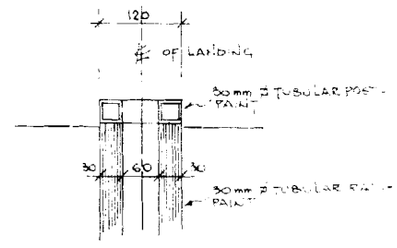
STAIR #1 - GROUND FLOOR PLAN
SCALE 1:50



STAIR #1 - GARAGE LEVEL PLAN
SCALE 1:50



TYPICAL STAIR DETAIL
SCALE 1:10



HANDRAIL DETAIL
SCALE 1:5

0 10 20 30 40 50 100 mm

General notes

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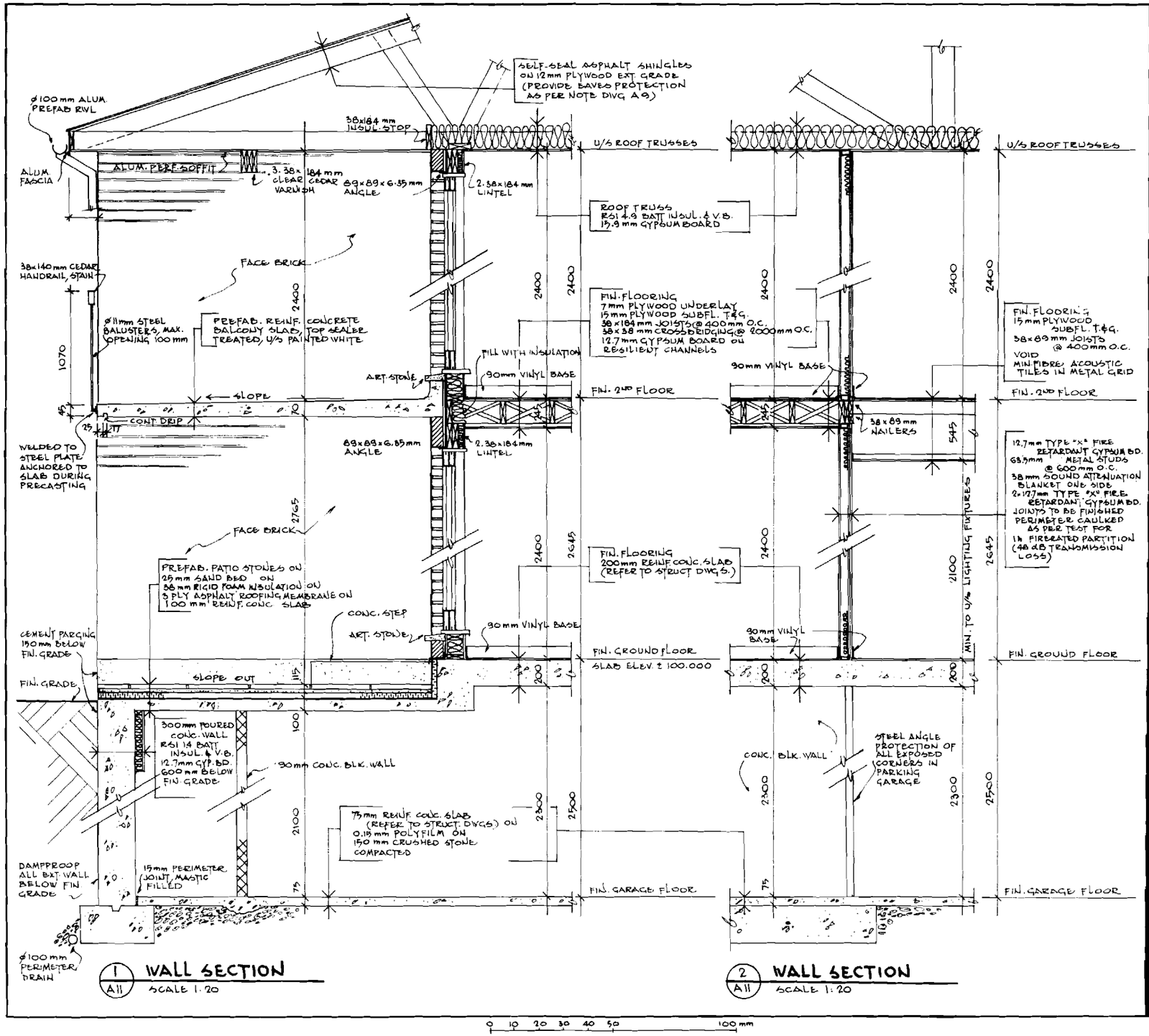
Project title
SAMPLE METRIC WORKING DRAWINGS

Drawing title
STAIRS

Scale	AS SHOWN		
Designed by	G.S.S.	Date	FEB.78
Drawn by	G.S.S.	Date	FEB.78
Approved by	K.J.B.	Date	FEB.78

Project No.	Dwg No.	Rev.
01	A10	



General notes

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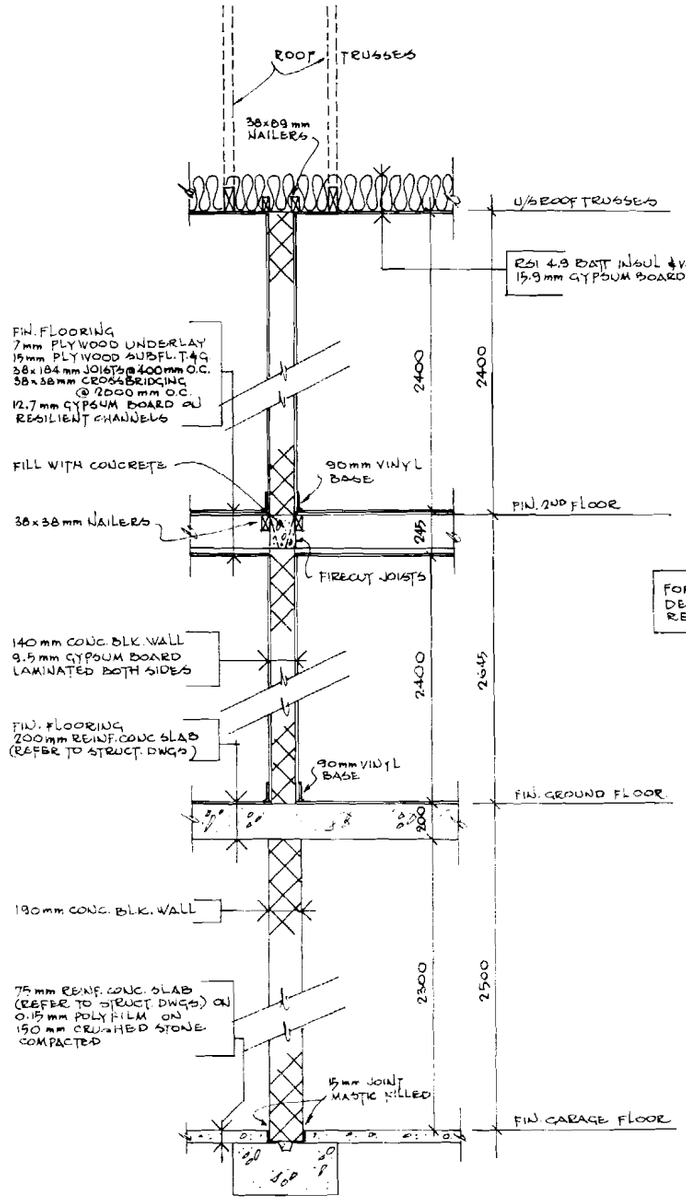
SAMPLE METRIC WORKING DRAWINGS

Drawing title

WALL SECTIONS

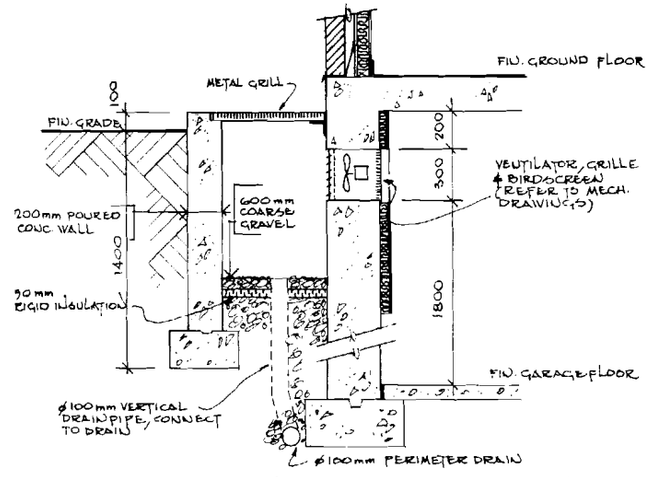
Scale	1:20	0 200 400 600 800 1000	
Designed by	C.S.S.	Date	FEB.78
Drawn by	C.S.S.	Date	FEB.78
Approved by	K.N.B.	Date	FEB.78

Project No.	Dwg No.	Rev.
01	A11	

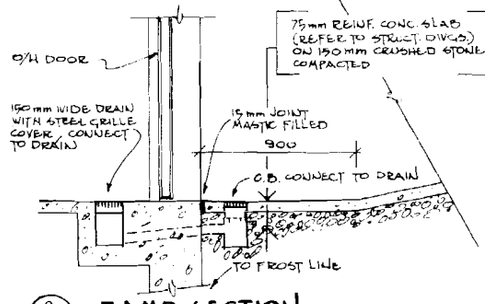


1 / A12 **WALL SECTION**
SCALE 1:20

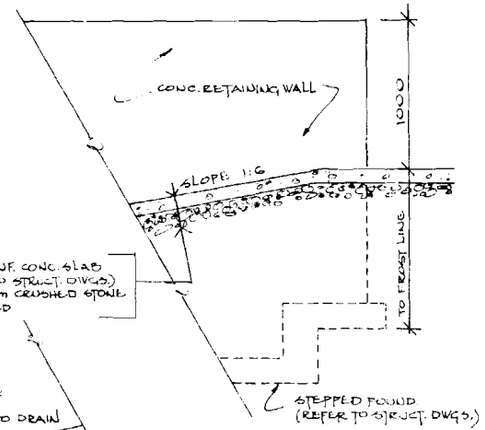
FOR FOOTINGS & FOUNDATIONS DESIGN & DIMENSIONS REFER TO STRUCTURAL DWGS.



3 / A12 **EXT. VENTILATION SHAFT - SECTION**
SCALE 1:20



2 / A12 **RAMP SECTION**
SCALE 1:20



0 10 20 30 40 50 100 mm

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WALL SECTIONS

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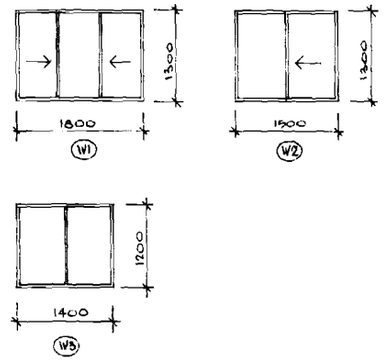
Approved by	K.W.B.	Date	FEB. 78
Project No. 01	Dwg No. A12		Rev.

ROOM SCHEDULE

ROOM	BASE		FLOOR		WALL		CEILING		REMARKS
	MATERIAL	FIN.	MATERIAL	FIN.	MATERIAL	FIN.	MATERIAL	FIN.	
GARAGE	-	-	CONCRETE	HARD. & SEALER	CONC. BLK, CONCR.	-	CONCRETE	-	
LOCKERS	-	-	DO	DO	DO	-	DO	-	
GARBAGE ROOM	-	-	DO	DO	DO	-	DO	-	
VESTIBULE	QUARRY TILE	-	QUARRY TILE	NO. SLIP	9.5mm GYPSUM BD.	PAINT	MIN. FIBRE AC. TILE	-	
LOBBY	DO	-	DO	DO	DO	DO	DO	-	
GARBAGE RM (GR FL., 2ND FL.)	30mm VINYL	WAX	V/A TILE	WAX	CONC. BLK.	PAINT	12.7mm GYPSUM BD	PAINT	
MECHANICAL ROOM	DO	DO	CONCRETE	HARD & SEALER	DO	DO	DO	DO	
STORAGE	DO	DO	DO	DO	12.7mm GYPSUM BD.	PAINT	DO	DO	
CORRIDOR, GROUND FL.	DO	DO	CARPET	-	DO	DO	MIN. FIBRE AC. TILE	-	
CORRIDOR 2ND FLOOR	DO	DO	DO	-	DO	DO	15.9mm GYPSUM BD	STIPPLE	
KITCHEN	DO	DO	V/A TILE	WAX	GYPSUM BD. AS SHOWN	DO	12.7mm GYPSUM BD	DO	2ND FL. CEILING 15.9mm GYPSUM BD
BATHROOM	DO	DO	DO	DO	DO	DO	DO	DO	DO 1) 2)
APARTMENT CORRIDOR	DO	DO	CARPET	-	DO	DO	DO	DO	DO
LIVING / DINING	DO	DO	DO	-	DO	DO	DO	DO	DO
BEDROOM	DO	DO	DO	-	DO	DO	DO	DO	DO
LAUNDRY	QUARRY TILE	-	QUARRY TILE	-	DO	DO	DO	PAINT	1)

NOTES: 1) ALL GYPSUM BD IN BATHROOMS & LAUNDRY TO BE MOISTURE RESISTANT TYPE
2) 1200mm HIGH CERAMIC TILE DADO 3 SIDES BATHTUB

WINDOW SCHEDULE



NOTES: 1) ALL WINDOW DIMENSIONS AS SHOWN ARE ROUGH MASONRY OPENINGS. WINDOW MANUFACTURER TO TAKE DIMENSIONS ON SITE BEFORE MANUFACTURING UNITS

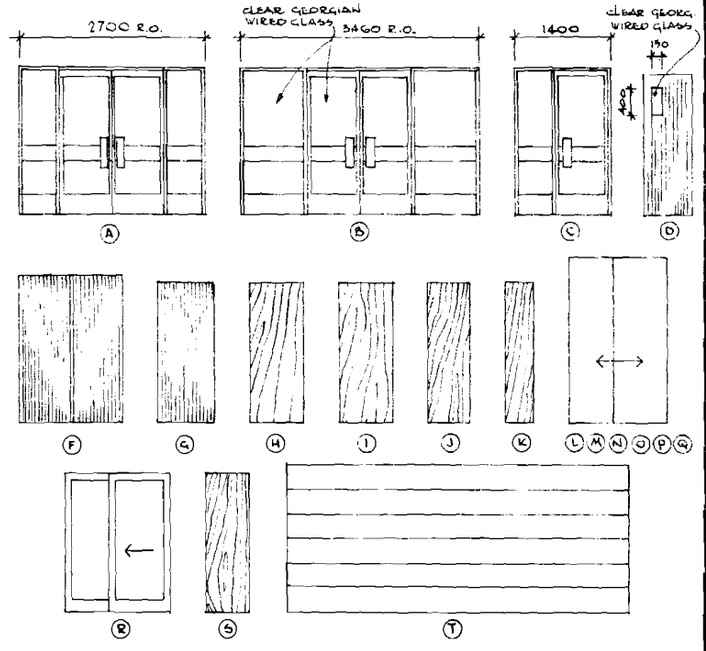
2) ALL WINDOWS TO BE DOUBLE-GLAZED, OPENABLE PARTS TO BE EQUIPPED WITH INSECT SCREENS.

3) ALL WINDOWS TO BE MANUFACTURED IN ACCORDANCE WITH CSA STANDARD 0132.1-M1977-WOOD WINDOWS.

DOOR SCHEDULE

	DOOR					FRAME		THRESHOLD	WEATHERST.	REMARKS
	SIZE mm	MAT.	CORE	FIN.	CLOSER	MATERIAL	FIN.			
A	1PR 750×2100×45	ALUM.	HOLLOW	ANOD.	ALTOM.	ALUMINUM	ANOD.	YES	YES	DOUBLE-GLAZED
B	1PR 750×2100×45	DO	DO	DO	DO	DO	DO	DO	DO	LOCK & KEY
C	810×2100×45	DO	DO	DO	DO	DO	DO	DO	DO	DOUBLE-GLAZED PANIC HARDW.
D	810×2030×45	METAL	DO	PAINT	DO	STEEL	PAINT	-	-	3/4 h FIRERATED
E	1PR 750×2100×45	DO	DO	DO	-	DO	DO	-	YES	LOCK & KEY
G	810×2030×45	DO	DO	DO	ALTOM.	DO	DO	-	-	3/4 h FIRERATED, LOCK & KEY
H	810×2030×45	WOOD	SOLID	DO	-	DO	DO	YES	-	LOCK & KEY
I	760×2030×35	DO	HOLLOW	DO	-	DO	DO	-	-	-
J	610×2030×35	DO	DO	DO	-	DO	DO	-	-	-
K	455×2030×35	DO	DO	DO	-	DO	DO	-	-	-
L	900×2400	HARDB.	-	DO	-	ALUM.	ANOD.	-	-	SLIDING DOOR
M	1500×2400	DO	-	DO	-	DO	DO	-	-	DO
N	1700×2400	DO	-	DO	-	DO	DO	-	-	DO
O	2000×2400	DO	-	DO	-	DO	DO	-	-	DO
P	2200×2400	DO	-	DO	-	DO	DO	-	-	DO
Q	2400×2400	DO	-	DO	-	DO	DO	-	-	DO
R	1500×2030×45	ALUM.	HOLLOW	ANOD.	-	ALUM.	ANOD.	-	YES	DOUBLE-GLAZED, LOCK & KEY
S	610×2030×45	WOOD	SOLID	PAINT	-	STEEL	PAINT	-	-	LOCK & KEY
T	5000×2100×45	METAL	HOLLOW	DO	-	DO	DO	-	-	G/H GARAGE

NOTE: ALL INTERIOR WOOD DOORS TO BE MANUFACTURED IN ACCORDANCE WITH CSA STANDARD 0132.2-M1977, WOOD DOORS.



0 10 20 30 40 50 100mm

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SCHEDULES

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Designed by	C.S.G.	Date FEB. 78
Drawn by	C.S.S.	Date FEB. 78
Approved by	K.N.B.	Date FEB. 78

Project No.	Dwg No.	Rev.
01	A 13	