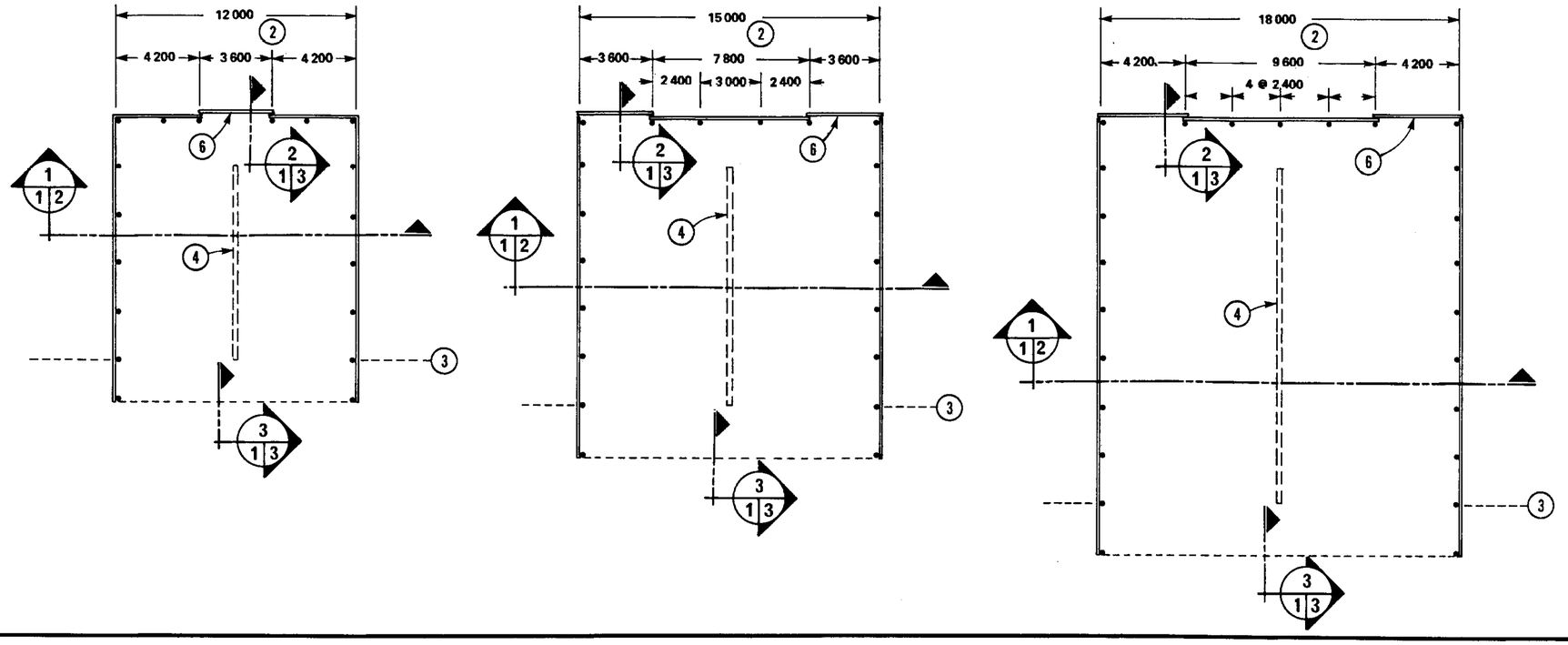
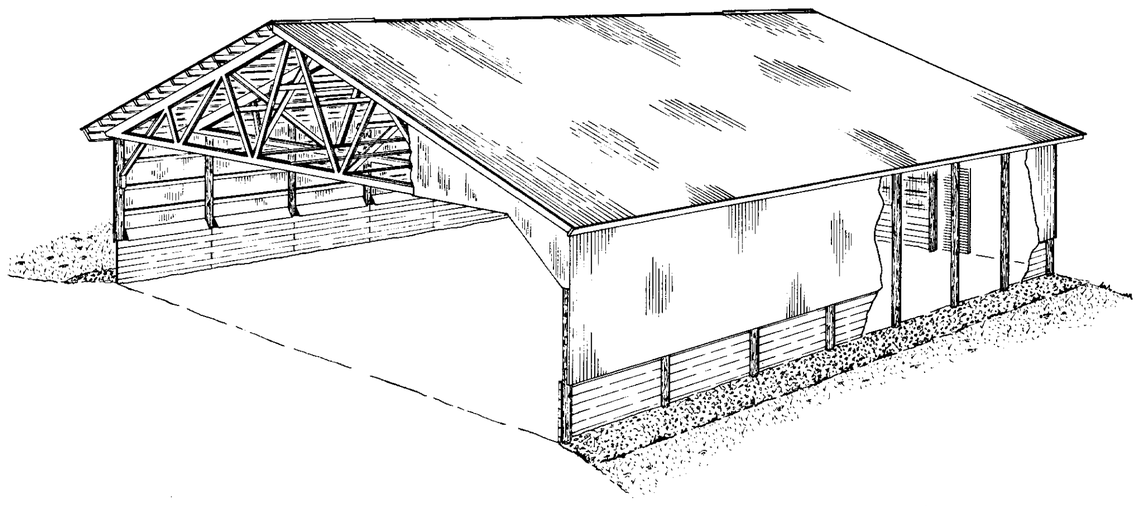




1	include leaflet M-8161 for management information.
2	use single or double trusses to suit local design loads and span of building, 12 000, 15 000 or 18 000 mm
3	optional feed lot fence line
4	ridge vent slot stops at truss, 2 400 mm from each end of building
5	include leaflet M-9102, Truss Erection and Bracing
6	sliding doors, see leaflet M-9341 Sliding Doors
7	ALL DIMENSIONS IN THIS METRIC PLAN ARE IN MILLIMETRES (mm) UNLESS OTHERWISE SPECIFIED

LIST OF DRAWINGS

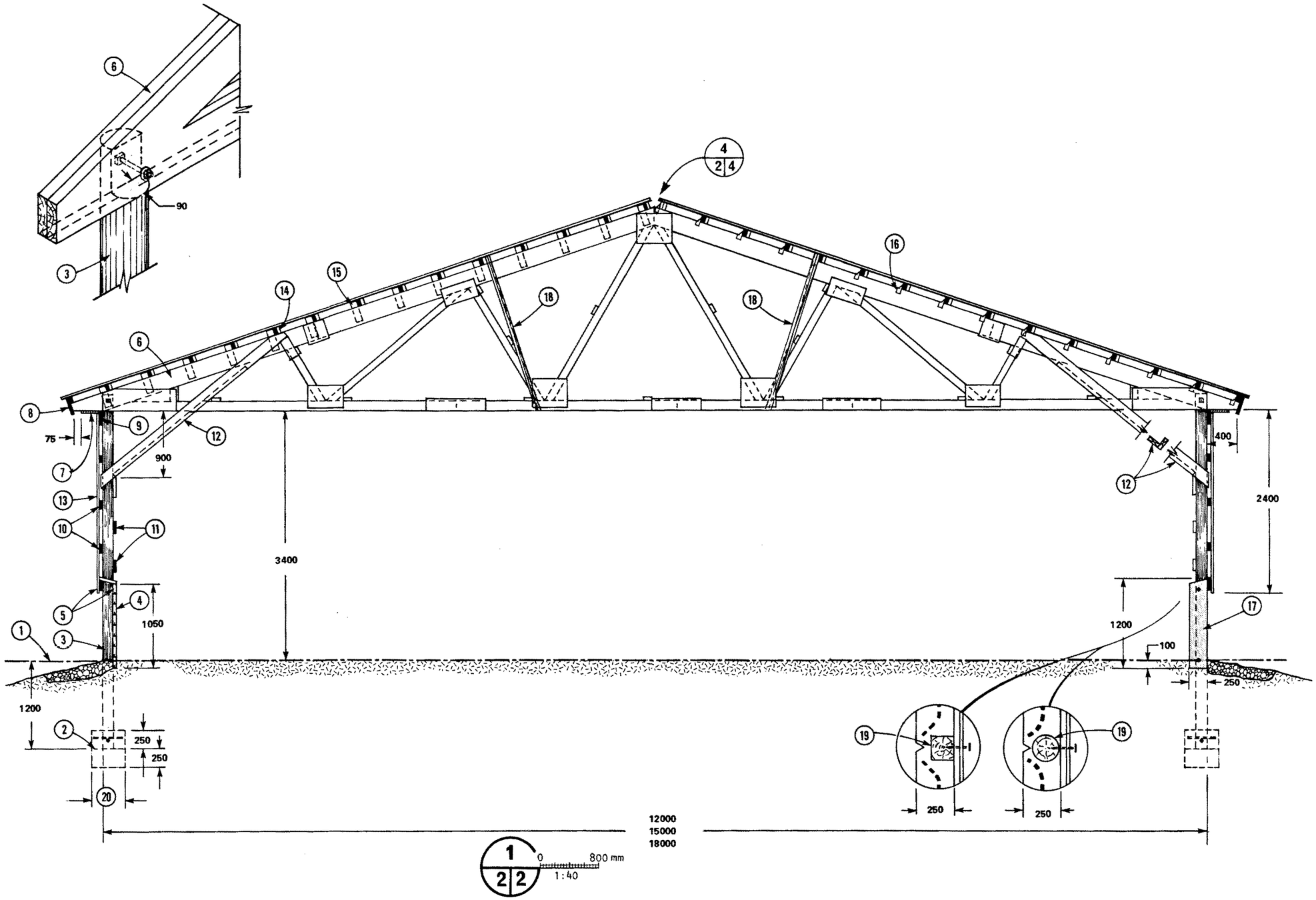
WARNING
This plan may require structural and other changes to meet local site conditions, climatic loads, user requirements and applicable building regulations (such as the Canadian Farm Building Code). Before construction, the user of this plan is responsible to ensure that all required changes are made.

SYM	REVISIONS	CHECKED	DATE	APPROVED

CANADA PLAN SERVICE

OPEN – END POLE BARN

DESIGNED J.E.T.	DATE MAY / 81	PLAN M-8161
DRAWN Al Morden	REVISED	
TRACED	DETAIL NUMBER A, ORIGINATES ON SHEET B, DRAWN ON SHEET C	
CHECKED D.J.M.		SHEET 1 OF 4



1	datum line
2	top of footing to be levelled at 1200 mm below datum line (1), drill pole for 2 - 10 M x 400 mm rebar pins through pole, retreat holes with wood preservative before driving pins through holes, concrete anchor prevents wind uplift.
3	ACA or CCA-treated round or rectangular poles; use the following table to determine the pole size required for the local wind pressure:

1/10 hourly wind pressure (kN/m²)

	rectangular poles		round poles
	140x140 mm	140x184 mm	150 mm top dia
Jack pine	0.40	0.74	0.80
D fir	0.57	1.0	0.90

4	8 courses of 38 x 140 x 4800 T & G planking; at least 2 bottom planks factory pressure-treated with ACA or CCA wood preservative, or see (17)
5	bevel planking and wall girt for plywood or plank baffle
6	single or double truss to notched poles with M16 bolt, 50 mm washers
7	19 mm soffit, vent opening continuous
8	38 x 235 mm face board
9	38 x 184 mm plate
10	38 x 89 mm girts @ 600 mm oc
11	if sheet metal siding, add guard planks 38 x 140 @ 600 mm oc; space midway between ext. girts (10)
12	38 x 140 mm knee brace stiffener butts on 38 x 140 x 300 mm scab at pole, notched 75 mm in way of truss lower chord; 38 x 140 mm laps pole and truss, one side
13	exterior siding 2400 mm long
14	roof purlins, see sheet 4 note (8)
15	tie block, see sheet 4 note (9)
16	framing anchor, see sheet 4 note (10)
17	concrete infill panel between poles, 10 M x 2200 mm rebars, bend ends as shown, or see (4)
18	38 x 140 mm permanent cross-bracing at both ends of building and not over 19 200 mm oc, see leaflet M-9102
19	wrap pole with polyethylene (concrete infill panel must be free to slide up and down, for frost heave)

20

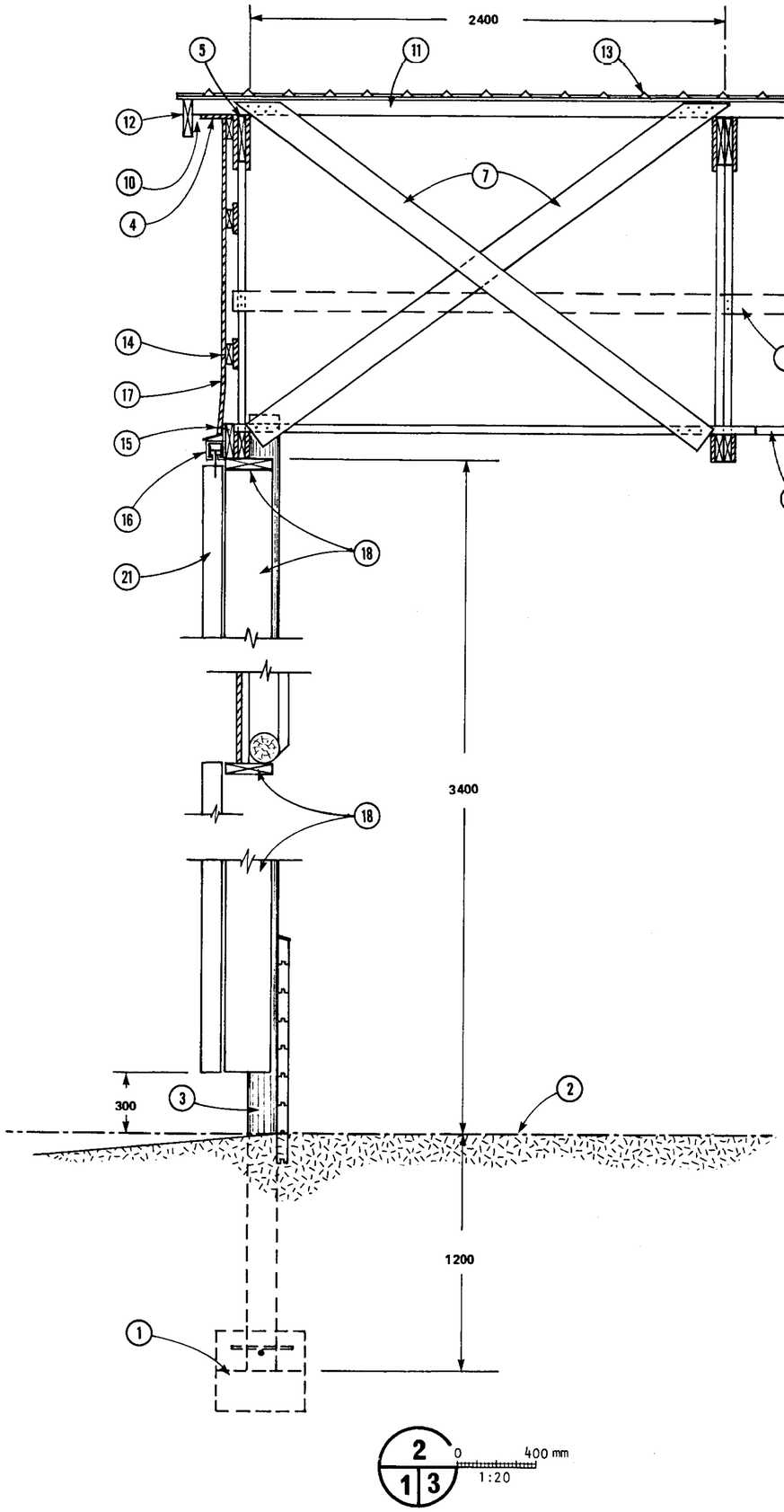
SOIL BEARING (kN/m²)	FOOTING DIA. (mm) (20)	ROOF LOAD (kN/m²) AT TRUSS SPANS OF 12m	15m	18m
100	450	1.10	0.88	.073
	600	1.96	1.57	1.31
200	450	2.21	1.77	1.47
	600	3.93	3.14	2.62

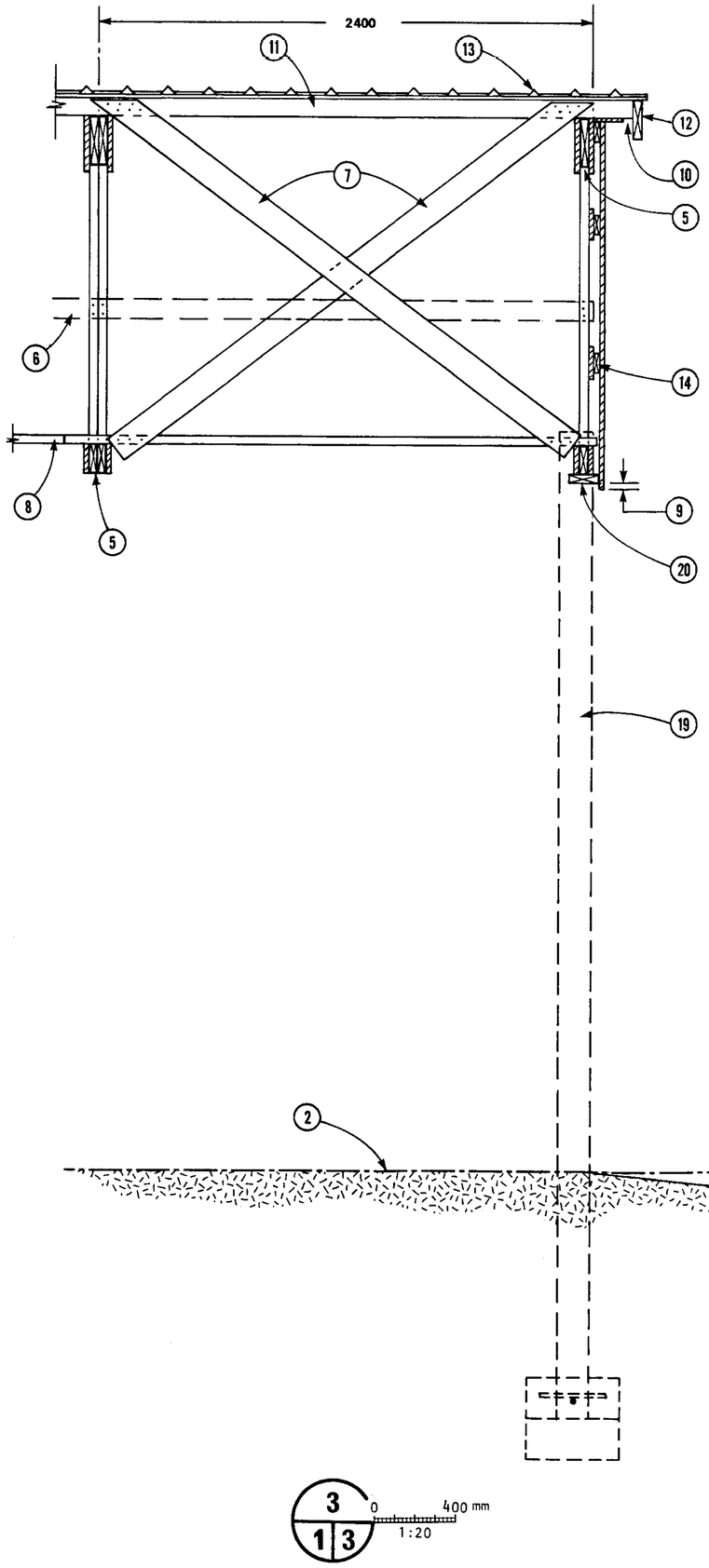
SYM	REVISIONS	CHECKED	DATE	APPROVED

CANADA PLAN SERVICE

SECTION & DETAILS

DESIGNED J.E.T.	DATE MAY/81	PLAN M-8161
DRAWN Al Morden	REVISED	
TRACED	DETAIL NUMBER A, ORIGINATES ON SHEET B, DRAWN ON SHEET C	SHEET 2 OF 4
CHECKED D.d.M.		





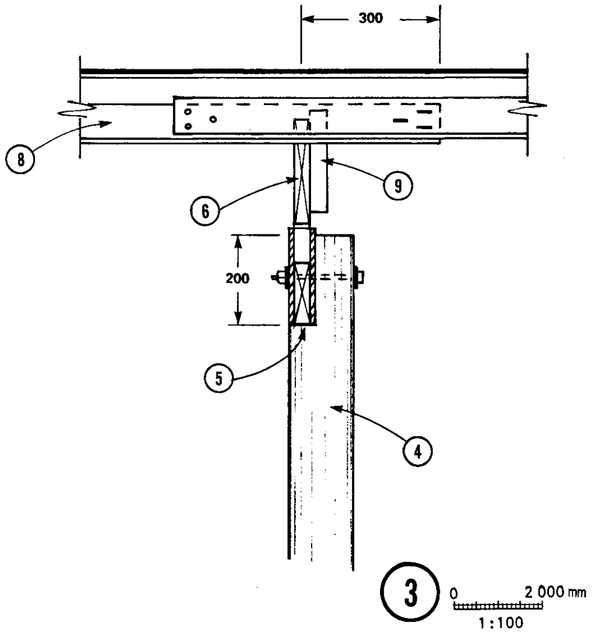
1	concrete footing, butt of pole (3) levelled at 1200 mm below datum (2)
2	floor datum line
3	4800 mm round or sawn pole, same size as side wall, see sheet 2, note (3)
4	19 mm lumber soffit
5	single truss at end of building, single or double trusses @ other poles to suit local snow load
6	38 x 89 mm continuous lateral bracing for truss web members where specified on truss plan
7	19 x 140 mm diagonal bracing required to support (6) at each end of building and internally if required, max. spacing 21600 mm oc, brace (6) sandwiched between diagonals; if web members do not require lateral bracing, install diagonal braces on web members at two locations minimum at each end of building
8	bottom chord lateral brace max. spacing 2400 mm oc
9	13 mm drip
10	50 mm continuous vent
11	roof purlins @ 600 mm oc max. on edge, see sheet 4 note (8)
12	38 mm face board
13	galv. steel roofing, see manufacturer for gage & profile to suit local snow load
14	38 x 89 mm endwall nailing girts with 12.5 mm plywood spacers as required where girts cross truss members
15	38 x 184 mm track board
16	sliding door hardware
17	vertical siding
18	89 x 235 mm door header & side jambs
19	structural corner pole beyond open face
20	38 x 140 mm for 12000 & 15000 mm spans, 38 x 184 mm 18000 mm span
21	sliding door, see M-9341

SYM	REVISIONS	CHECKED	DATE	APPROVED

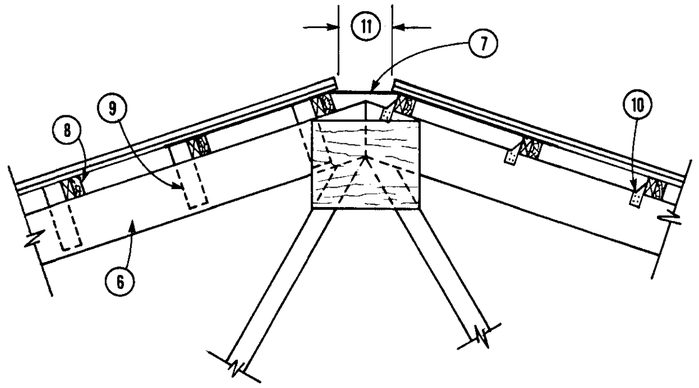
CANADA PLAN SERVICE

ENDWALL SECTIONS AND TRUSS DIAGONAL BRACING

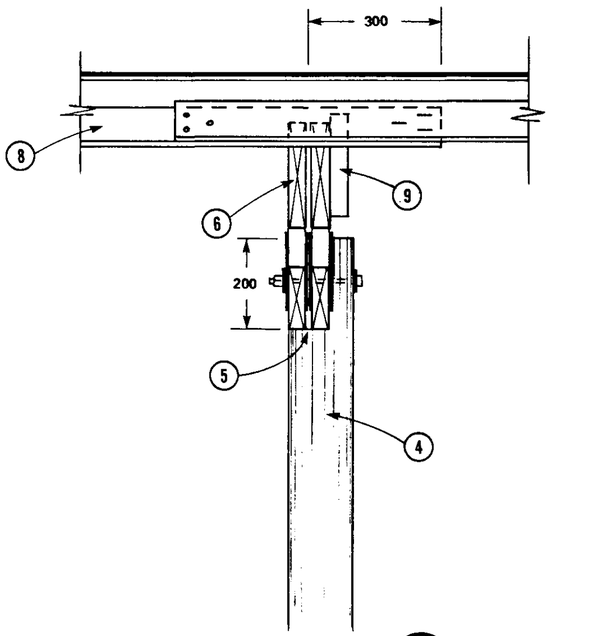
DESIGNED J.E.T.	DATE MAY / 81	PLAN M-8161
DRAWN Al Morden	REVISED	
TRACED	DETAIL NUMBER A, ORIGINATES ON SHEET B, DRAWN ON SHEET C	SHEET 3 OF 4
CHECKED D.J.M.		



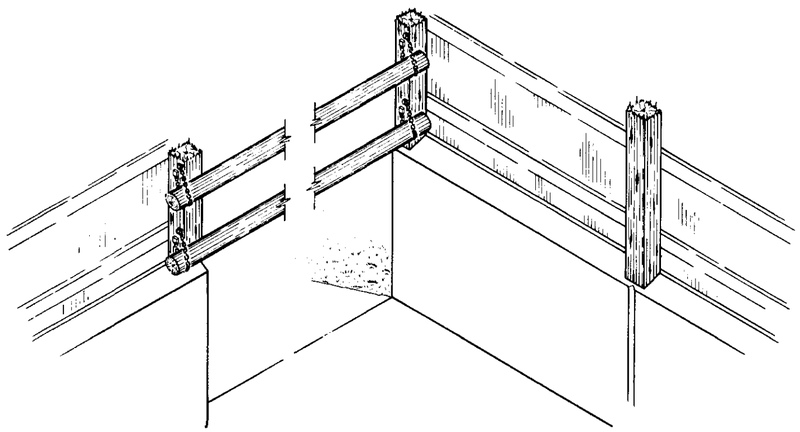
3 0 2 000 mm 1:100



4/2/4 0 400 mm 1:20



2 0 2 000 mm 1:100



1

1.	Cattle bars, hung on chain loops at door posts to prevent cattle and manure build-up from applying pressure on door
2	optional doubled press-plate trusses, or doubled heavy-duty nailed truss, M16 bolt to pole with 75 mm round or square washers
3	optional detail at single truss-to-pole connection
4	sawn or round pressure treated pole, see sheet 2, note (3)
5	notch poles for bearing truss(es) at 3400 mm above datum line before erecting poles
6	single or double truss at poles, 2400 mm oc, based on local roof load
7	1.0 x 50 mm galv. steel strap cross-tie @ 2400 mm oc midway between roof trusses, 8 roofing nails thru roofing and straps to roof purlins
8	38 x 89 x 3000 mm roof purlins on edge doubled over each truss, @ 2400 mm oc, 3-4x 102 mm spiral nails (clinched) each end of purlin,

Allowable roof snow loads, kN/m² at purlin spacing, mm

	400	600
No. 2 spruce (s-p-f)	2.65	1.77
No. 2 Douglas fir	3.84	2.56

9	38 x 89 x 300 mm tie block at each purlin, or see note (10)
10	galvanized steel framing anchor at each purlin, 4 - 38 mm galv. roofing nails each anchor to framing, or see note (9)
11	open ridge slot at least 100 mm, plus 25 mm per 3 m of building span

SYM	REVISIONS	CHECKED	DATE	APPROVED

CANADA PLAN SERVICE

STRUCTURAL DETAILS

DESIGNED J.E.T.	DATE MAY / 81	PLAN
DRAWN AL MORDEN	REVISED	**M-8161**
TRACED	DETAIL NUMBER A, ORIGINATES ON SHEET B, DRAWN ON SHEET C	
CHECKED D.d.M.		SHEET 4 OF 4