

- 1 storage option with closed walls
- 2 storage option with short wall skirt
- 3 length any multiple of 8'-0"
- 4 CCA-pressure-treated poles @ 8'-0" oc
- 5 vertical siding
- 6 roof truss 4'-0" oc, or to suit snow + dead load, see leaflet 9102 for truss erecting & bracing
- 7 optional extended eave with open walls

SPECIFICATIONS

Unless otherwise specified, all cast-in-place concrete is to be at least 4000 psi at 28 days, 6% air-entrainment

All exposed steel to be galvanized or painted to resist corrosion

All framing lumber is No. 2 (or better), S-P-F species group, unless otherwise specified

All wood indicated 'pressure-treated' is CCA pressure-treated to a net retention of 0.4 lb/ft³ (ground contact specification, CSA-080 Wood Preservation)

This plan conforms to the requirements of the Canadian Farm Building Code. The user of this plan must ensure that the design criteria indicated herein will meet all local design conditions, building regulations and special requirements.

For notes thus marked, engineer to select structural options to meet local climatic loads, soil bearing capacity and other special requirements

ONE SET OF DRAWINGS AND LEAFLETS SHOULD INCLUDE:

CPS no.	sheet no.	Title
7601	-1-	Hay storage for round or rectangular bales
7601	-2-	wall section and details with closed walls
7601	-3-	wall section and details with short wall skirt
AND	- -	Truss to suit local roof snow + dead loads

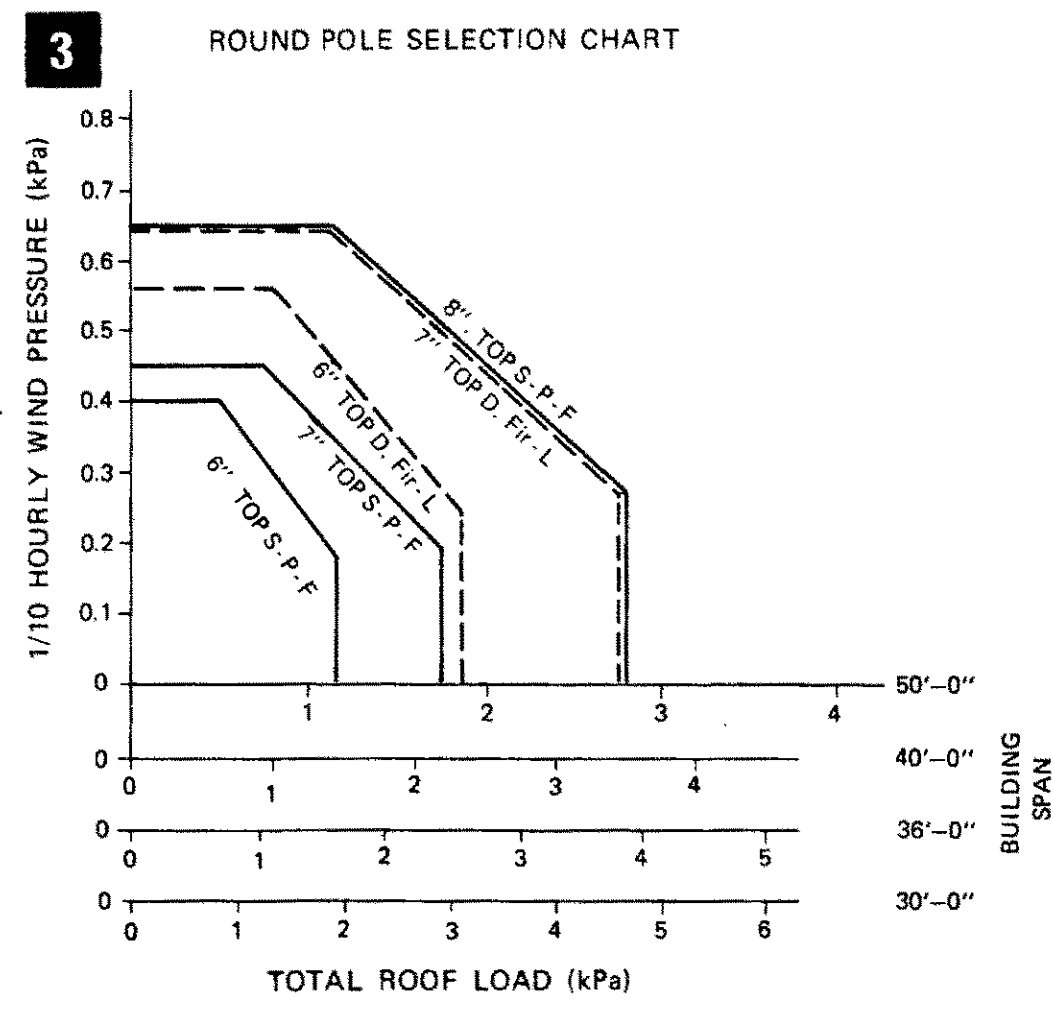
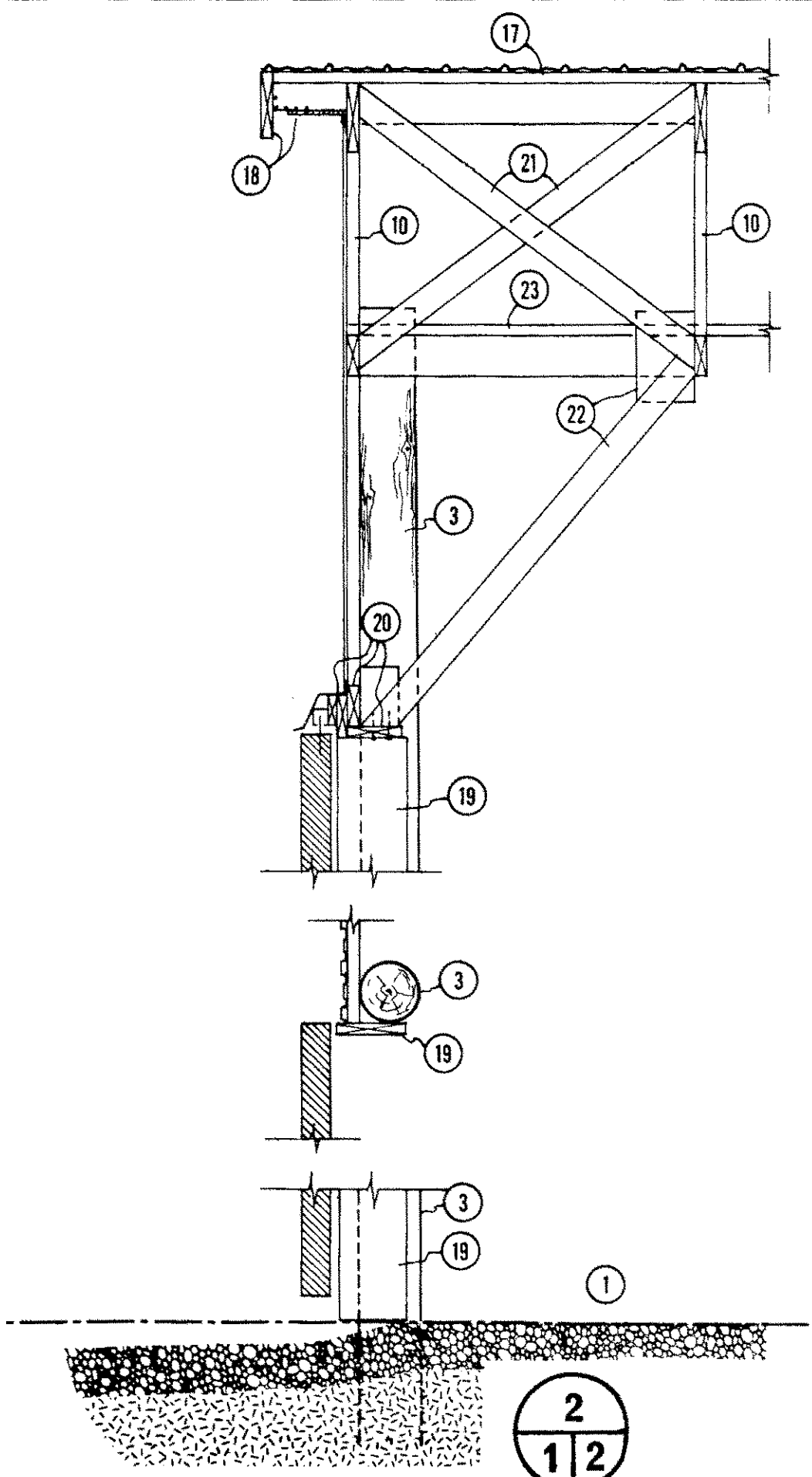
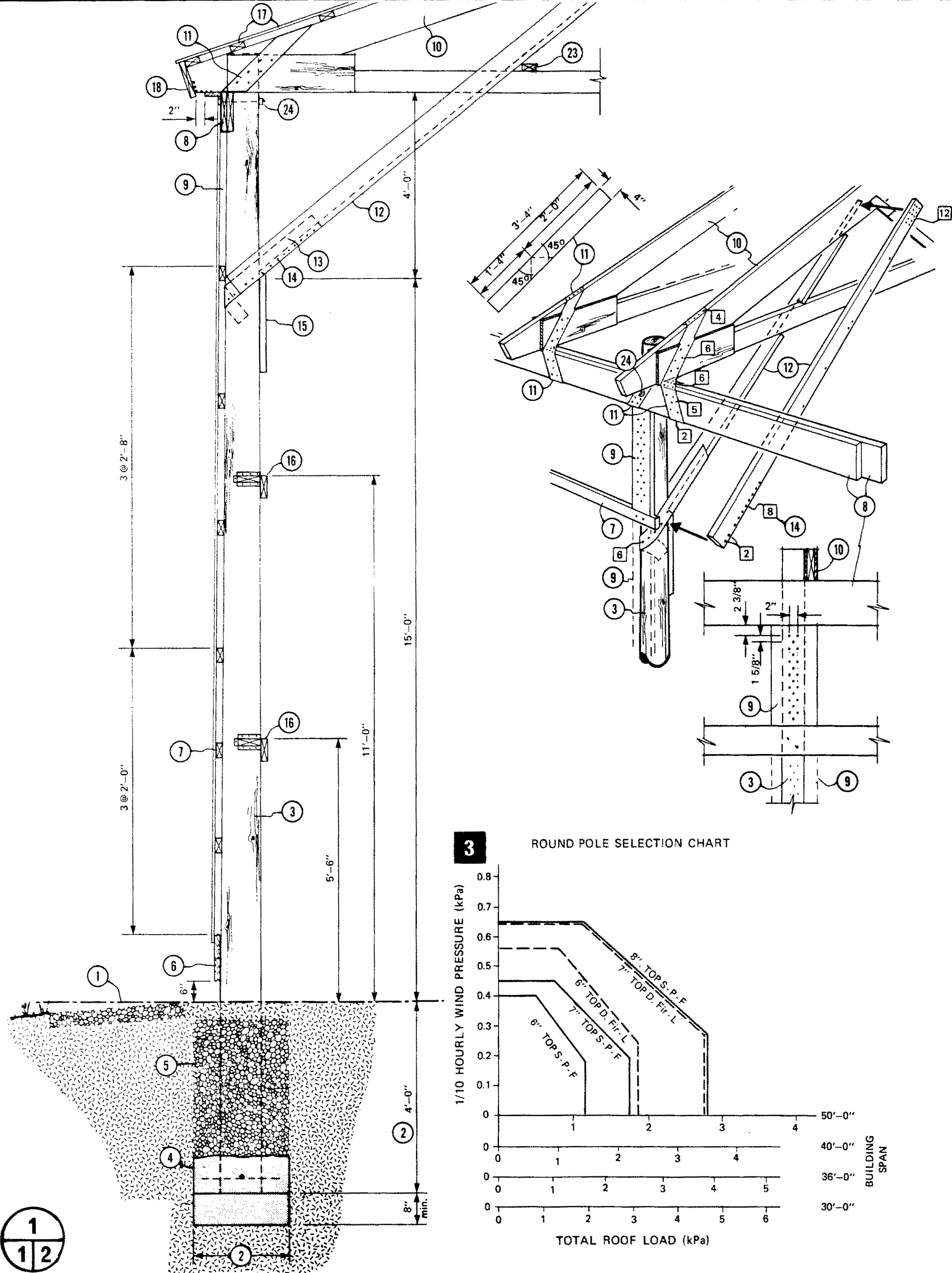
AND LEAFLETS

7601	Hay storage for round or rectangular bales
9101	Building your own roof trusses
M-9102	Truss erection and bracing
M-9341	Sliding doors

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.

REVISED & RE-ISSUED		85 - 12
SYM	REVISIONS	CHECKED DATE APPROVED
		HAY STORAGE FOR ROUND OR RECTANGULAR BALES
DESIGNED <i>D.I.M.</i>	DATE 77-07	PLAN 7601
DRAWN D. BROWN	REVISED 85-12	
TRACED		SHEET 1 OF
CHECKED <i>JET</i>	DETAIL NUMBER A ORIGINATES ON SHEET B DRAWN ON SHEET C	



2 Round footing selection table (for square footings of same width, increase safe roof snow load by 1.27 factor)

soil strength	truss span, ft	safe roof snow load, kPa for round footing diam.	
		18"	24"
soft 100 kPa	30	1.3	2.4
	36	1.0	2.0
	40	---	1.7
	50	---	1.4
firm 150 kPa	30	2.0	3.7
	36	1.6	3.0
	40	1.4	2.7
	50	1.1	2.2
hard 200 kPa	30	2.7	5.0
	36	2.3	4.1
	40	2.0	3.7
	50	1.6	3.0

- 1 datum line at grade
- 2 top of all footings levelled; see Table (2) for footing size
- 3 24'-0" long poles @ 8'-0" o.c., see (3), pole selection chart for size; drill pole, re-treat holes with preservative, insert 2 - #5 rebar anchor pins; pre-notch for (8) before erecting
- 4 concrete anchor plug
- 5 coarse gravel backfill, compacted
- 6 2-2 x 6 tongue-and-groove CCA-treated splash planking, 16'-0" lengths, joints staggered 8'-0" at poles, 3 - 5" galv. spiral nails each plank to pole
- 7 2 x 4 nailing girts, vertical siding
- 8 2-2 x 10 x 16'-0" plate beam (3 in end spans); joints staggered 8'-0" @ poles; see table (7), sht. 3, for size
- 9 scab; nails alternating 2 & 1 per row, see table (8), sht. 3 for number of nails
- 10 trusses 4'-0" o.c., or to suit snow + dead load
- 11 20 ga. x 4" x 3'-4" steel strap, 2 at pole, 1 at truss between poles; pre-bend at 45° angles; 2" concrete nails to beam (8) and truss (10), no. of nails indicated thus (10)
- 12 knee brace @ poles; 2-2 x 6 one laps pole and truss, other butts pole and (15), notched in way of truss upper & lower chords
- 13 20 ga. x 4" x 3'-4" galv. steel strap, sandwiched between 2 parts of knee brace (12), wrap around pole (3)
- 14 4" spiral nails thru (12) and (13)
- 15 2 x 6 scab butts bottom knee brace (12)
- 16 for giant round bales, add joist hangers and 2 x 6 blocking between poles; 2 x 6 guard planks continuous inside of poles
- 17 2 x 4 roof purlins @ 2'-0" o.c. max. or as per roofing manufacturer, joints staggered 8'-0" o.c. at trusses; steel roofing
- 18 3/4" soffit, 2" continuous vent slot c/w bird screen, 1 1/2" face board, 1 1/2" blocking @ 4'-0" o.c. supports soffit at endwalls
- 19 2 x 10 side jamb
- 20 1-2 x 8 head jamb, 2-2 x 6 & filler door track boards to suit sliding door thickness, see 9341
- 21 2 x 4 cross-bracing, see 9102
- 22 2 x 4 brace over center & side of door; use 8" x 12" plywood gusset @ second truss for nailing brace (21)
- 23 2 x 3 truss stiffener, continuous
- 24 1/2" bolt with 3" washers, beam to pole

1
1/2

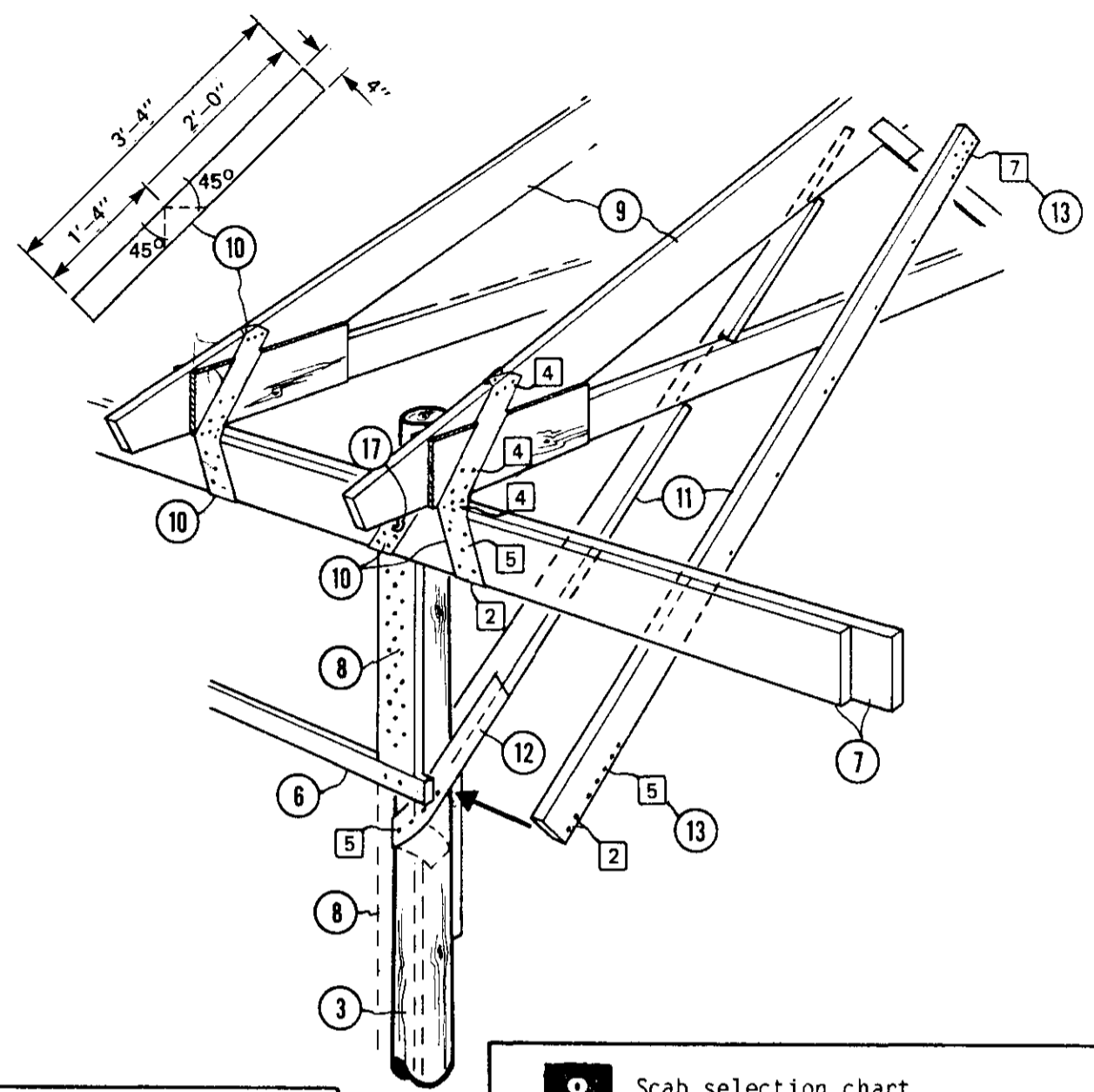
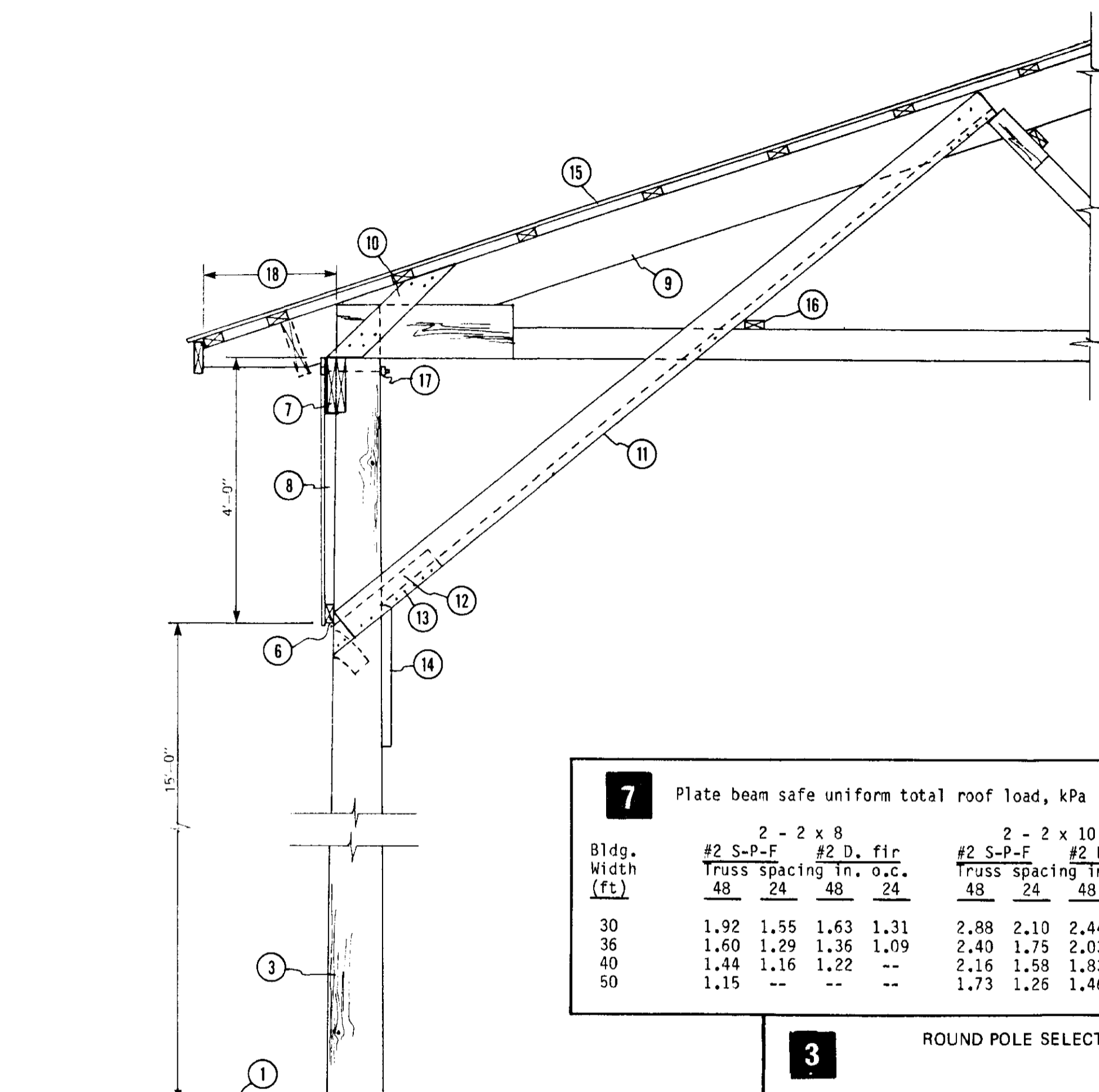
2
1/2

REVISED & RE-ISSUED	H.A.J.	88 - 10	JAM
REVISED & RE-ISSUED	H.A.J.	88 - 01	JET
SYM	REVISIONS	CHECKED	DATE APPROVED

CANADA PLAN SERVICE

WALL SECTION AND DETAILS WITH CLOSED WALLS (not to scale)

DESIGNED D.I.M.	DATE 85-12	PLAN
DRAWN D. BROWN	REVISED	7601
TRACED	DETAIL NUMBER A	ORIGINATES ON SHEET B
CHECKED JET	DRAWN ON SHEET C	SHEET 2 OF

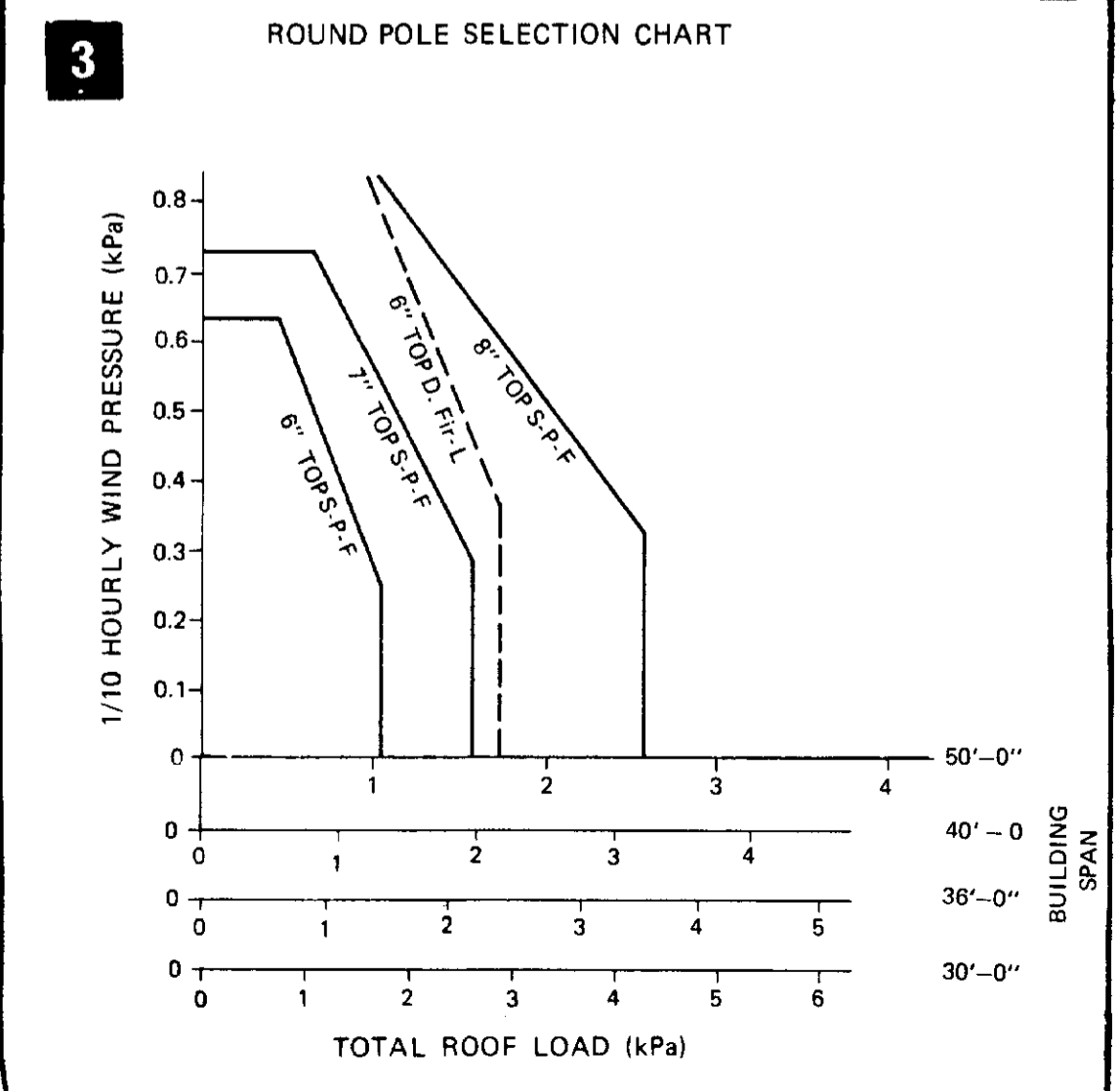


7 Plate beam safe uniform total roof load, kPa

Bldg. Width (ft)	2 - 2 x 8				2 - 2 x 10				2 - 2 x 12			
	#2 S-P-F		#2 D. fir		#2 S-P-F		#2 D. fir		#2 S-P-F		#2 D. fir	
	Truss spacing in. o.c.		Truss spacing in. o.c.		Truss spacing in. o.c.		Truss spacing in. o.c.		Truss spacing in. o.c.		Truss spacing in. o.c.	
30	1.92	1.55	1.63	1.31	2.88	2.10	2.44	1.96	3.67	2.56	3.28	2.64
36	1.60	1.29	1.36	1.09	2.40	1.75	2.03	1.63	3.06	2.13	2.73	2.20
40	1.44	1.16	1.22	--	2.16	1.58	1.83	1.47	2.75	1.92	2.46	1.98
50	1.15	--	--	--	1.73	1.26	1.46	1.17	2.20	1.54	1.97	1.58

8 Scab selection chart

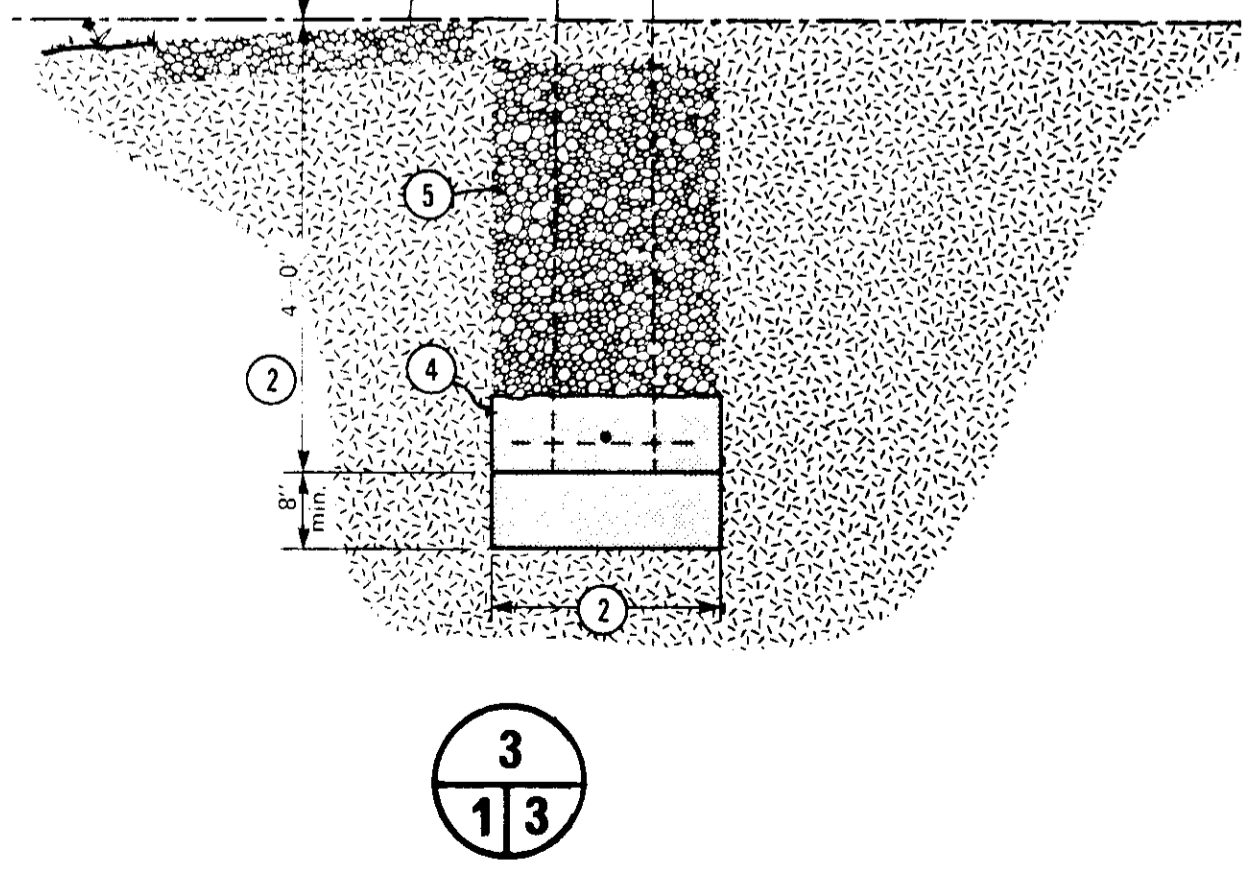
	Beam size	5" spiral nails in beam & scab	Scab size
S-P-F	2 x 8	15	2 x 8
	2 x 10	23	2 x 10
	2 x 12	29	2 x 12
D. fir	2 x 8	9	2 x 6
	2 x 10	13	2 x 6
	2 x 12	18	2 x 8



2 Round footing selection table (for square footings of same width, increase safe roof snow load by 1.27 factor)

soil strength	truss span, ft	safe roof snow load, kPa for round footing diam.	
		18"	24"
soft 100 kPa	30	1.3	2.4
	36	1.0	2.0
	40	---	1.7
	50	---	1.4
firm 150 kPa	30	2.0	3.7
	36	1.6	3.0
	40	1.4	2.7
	50	1.1	2.2
hard 200 kPa	30	2.7	5.0
	36	2.3	4.1
	40	2.0	3.7
	50	1.6	3.0

- 1 datum line at grade
- 2 top of all footings levelled; footing depth 4'-0" min. or to below frost; see Table 2
- 3 24'-0" long poles @ 8'-0" o.c., see 3, pole selection chart for size; drill pole, re-treat holes with preservative, insert 2-#5 rebar anchor pins; pre-notch for 7 before erecting
- 4 concrete anchor plug
- 5 coarse gravel backfill, compacted
- 6 2 x 4 nailing girt, vertical siding
- 7 2-2 x 10 x 16'-0" plate beam (3 in end spans); joints staggered 8'-0" @ poles; see table 7, for size
- 8 scab; 5" nails alternating 2 and 1 nails per row, see table 8 for number
- 9 trusses 4'-0" o.c., or to suit snow + dead load
- 10 20 ga. x 4" x 3'-4" steel strap, 2 at pole, 1 at truss between poles; pre-bend at 45° angles; 2" concrete nails to beam 7 and truss 9, no. of nails indicated thus 10
- 11 knee brace @ poles, 2-2 x 6 (one laps pole and truss, other butts pole and notched in way of truss upper & lower chords)
- 12 20 ga. x 4" x 3'-4" galv. steel strap sandwiched between 2 parts of knee brace 11, wrap around pole 3
- 13 4" spiral nails thru 11 and 12
- 14 2 x 6 scab butts bottom knee brace 11
- 15 2 x 4 roof purlins @ 2'-0" o.c. max. or as per roofing manufacturer, joints staggered 8'-0" o.c. at trusses; steel roofing
- 16 1 1/2" truss stiffener
- 17 1/2" bolt with 3" washers, beam to pole
- 18 optional extended roof for added rain protection



3
1/3

DESIGNED	D.I.M.	DATE	85-12	PLAN	7601
DRAWN	D. BROWN	REVISOR			
TRACED		DETAIL NUMBER	A		
CHECKED	J.E.T.	ORIGINATES ON SHEET	B		
		DRAWN ON SHEET	C		

REVISOR: H.A.J. 88-10 J.A.M.
 REVISOR: H.A.J. 88-01 J.E.T.

WALL SECTION AND DETAILS WITH SHORT WALL SKIRT (not to scale)

SHEET 3 OF 3