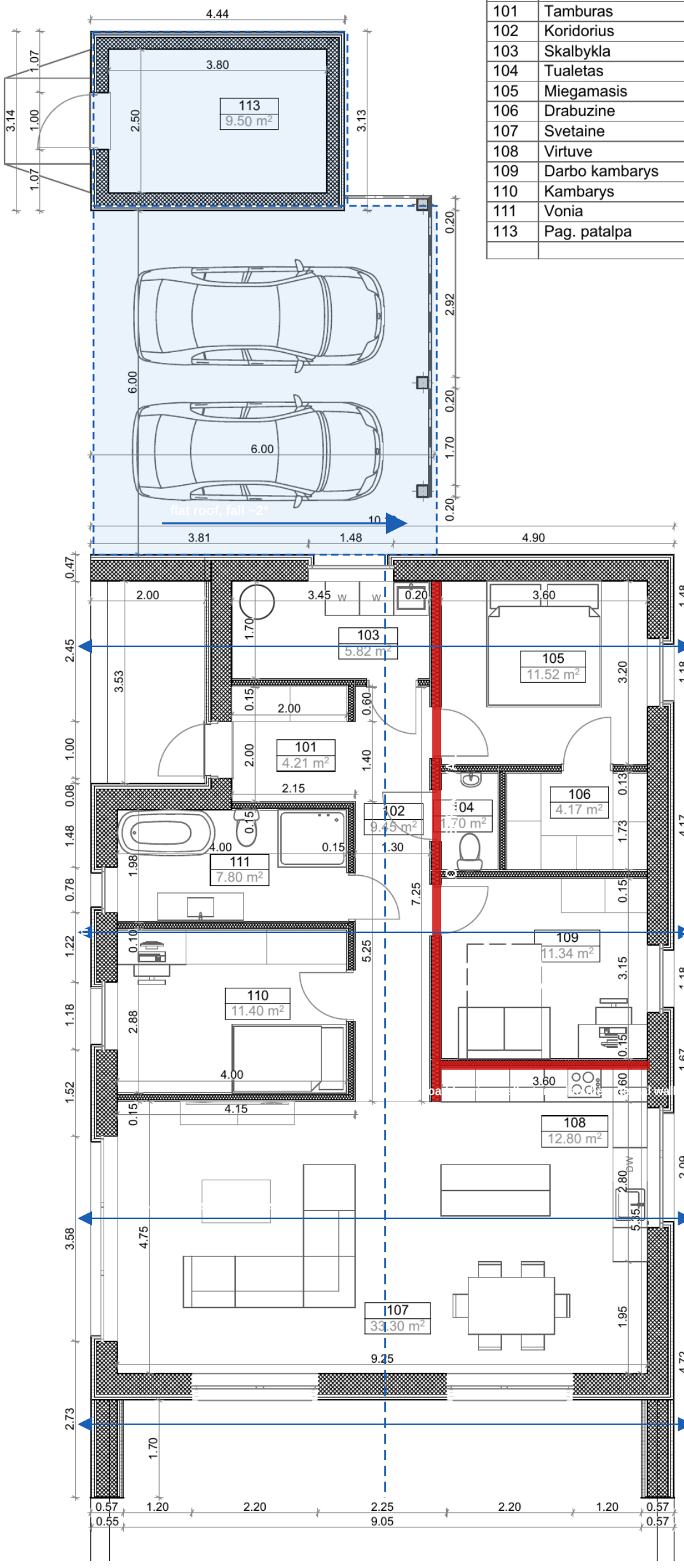
PLAN WITH LOAD-BEARING WALL

House 123 m² + carport and utility room
2026-11-05



Patalpu eksplikacija		
Nr.	Patalpa	m2
101	Tamburas	4.21
102	Koridorius	9.45
103	Skalbykla	5.82
104	Tualetas	1.70
105	Miegamasis	11.52
106	Drabuzine	4.17
107	Svetaine	33.30
108	Virtuve	12.80
109	Darbo kambarys	11.34
110	Kambarys	11.40
111	Vonia	7.80
113	Pag. patalpa	9.50
		123.0

Structural concept

Load-bearing wall – the only internal load-bearing wall: the right-hand corridor wall (~6.0 m from the outside of the west wall), from the north external wall straight to the kitchen units; at the south wall of room 109 it **turns** to the east external wall.

Roof – V-shaped roof trusses across the house (east–west), bearing on the side external walls and the load-bearing wall; **no ceiling** – ceilings open to the ridge, following the roof pitch.

Side (long) external walls – height 3.0 m; end walls – up to the roof (gables, large triangular windows on the south).

Other internal walls – non-load-bearing partitions, timber frame 45×95.

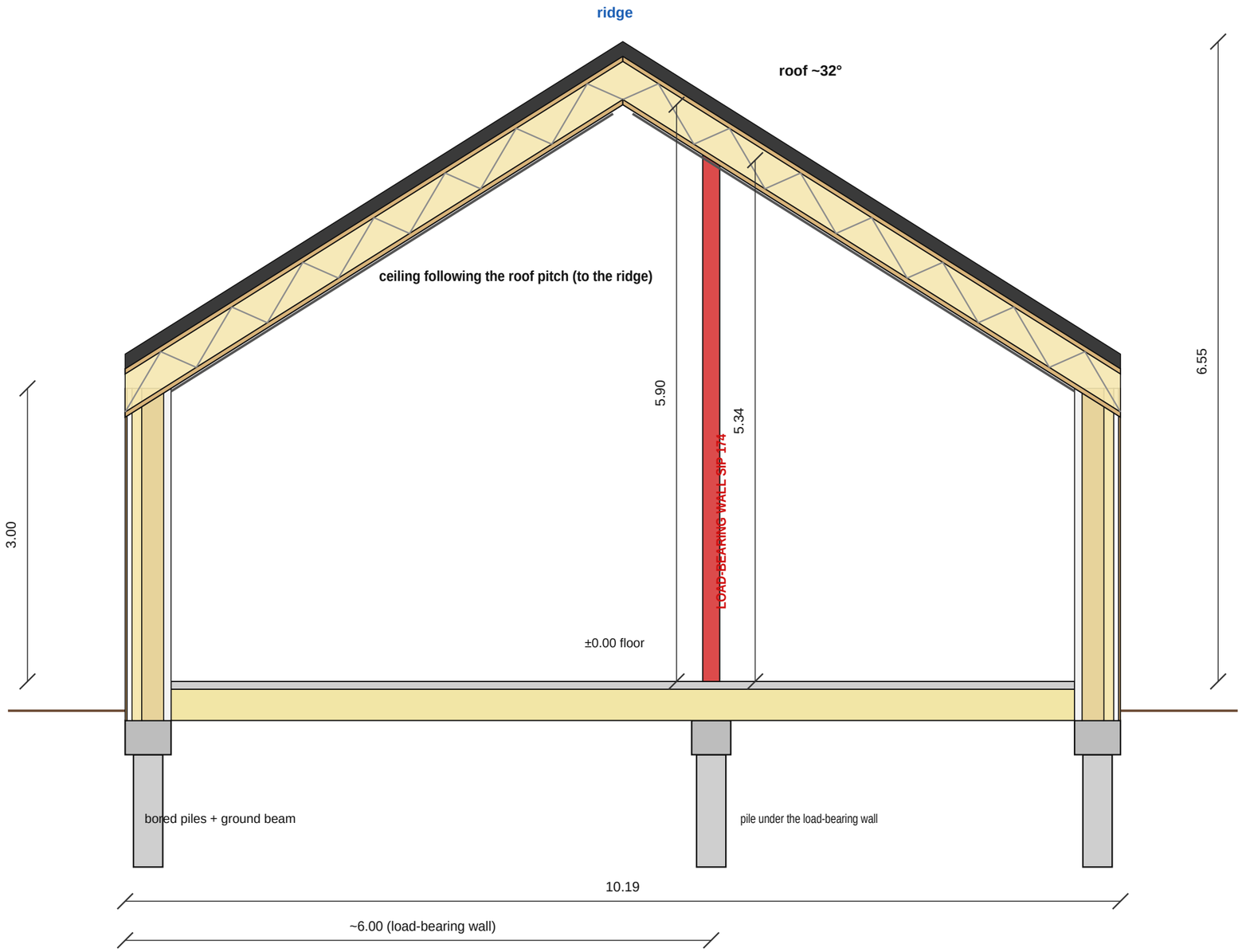
Double carport and utility room 113 – shared flat roof with a minimal fall (~2°), included in the estimate.

Notes:

– SIP 174 for the load-bearing wall, SIP 224 for the external walls (A++); – carport roof falls to the east, gutter on the east side; – truss spacing ~600 mm, final – per the truss manufacturer's calculation; – no structural design yet – solutions are indicative.

Based on the architect's plan (1:100); dimensions as in the architect's plan.

CROSS-SECTION (1:50)



Roof	standing seam sheet, counter-battens and battens (ventilated gap), breather membrane; V-shaped roof trusses without ceiling (~420 mm) at ~600 mm, bearing on the wall tops, joined at the ridge (manufacturer's detail); pitch ~32° (ridge +6.55 as per the architect)
Ceiling	open to the ridge, following the underside of the trusses (roof pitch): insulation within the truss depth ~400 mm (A++), vapour control, metal frame + plasterboard; no ceiling joists or horizontal ties
External walls	SIP 224 + frame 45×95 with insulation 100 + ventilated cavity (battens 25×45 in two directions) + vertical boards; inside – service frame + plasterboard; height 3.00 m
Load-bearing wall	SIP 174, from the floor to the underside of the trusses (~5.3 m), supports the right-slope trusses, on a pile-supported ground beam
Partitions	frame 45×95 with insulation, plasterboard on both sides
Floor	concrete ~80 mm with underfloor heating, EPS100 ~350 mm, damp-proofing, compacted sand
Foundations	bored concrete piles and ground beam, insulated Finnfoam

Notes: wall height 3.00 m measured from ±0.00 (floor); ridge +6.55 as on the architect's elevation, so the roof pitch is ~32°; intermediate support – the load-bearing wall; truss type, ridge detail and spacing – per the truss manufacturer. No structural design yet.