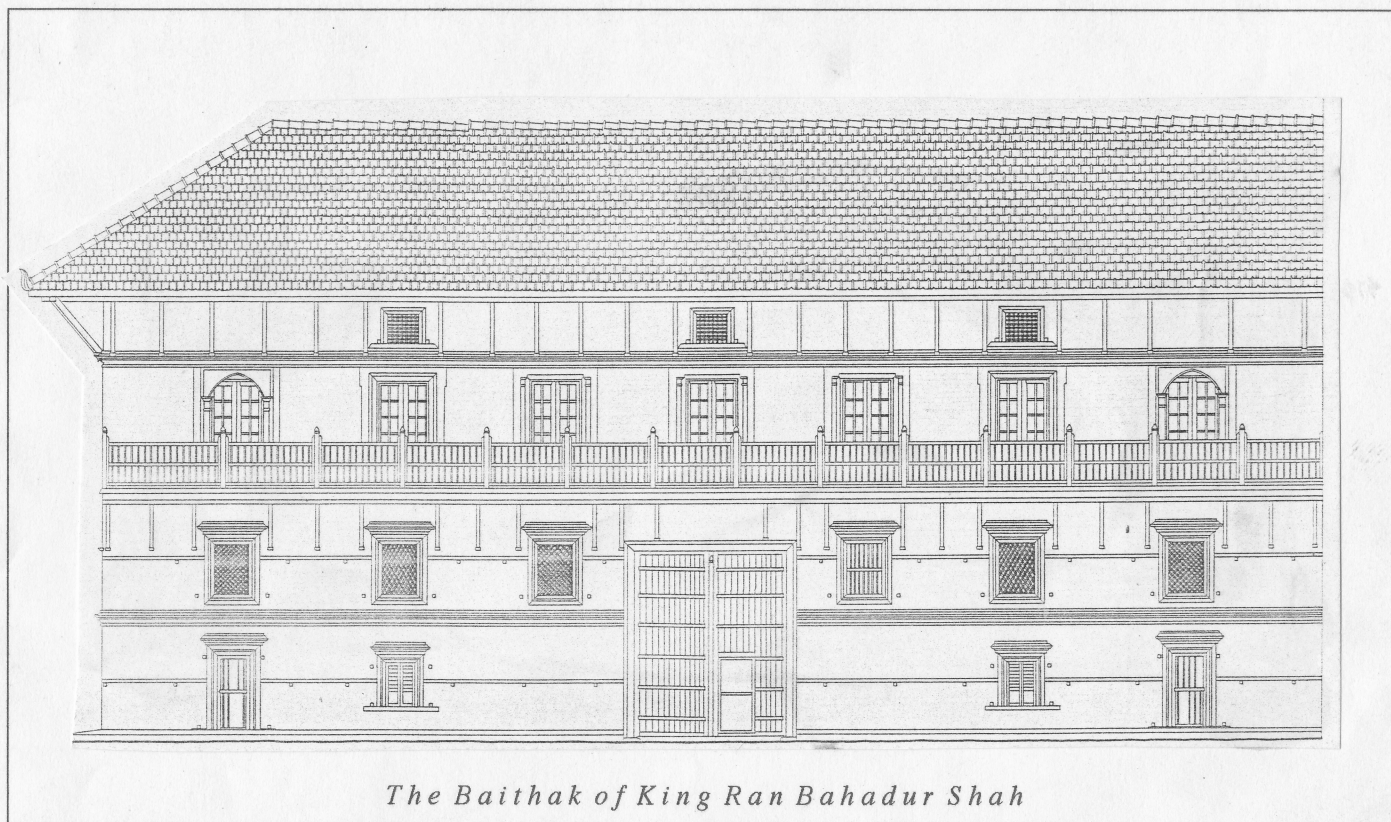


**PATAN CONSERVATION AND DEVELOPMENT
PROGRAMME**



The Baithak of King Ran Bahadur Shah

**CONSERVATION OF
PATAN DARBAR NORTH WING**

His Majesty's Government of Nepal
Ministry of Education, Culture, and Social Welfare
Department of Archaeology

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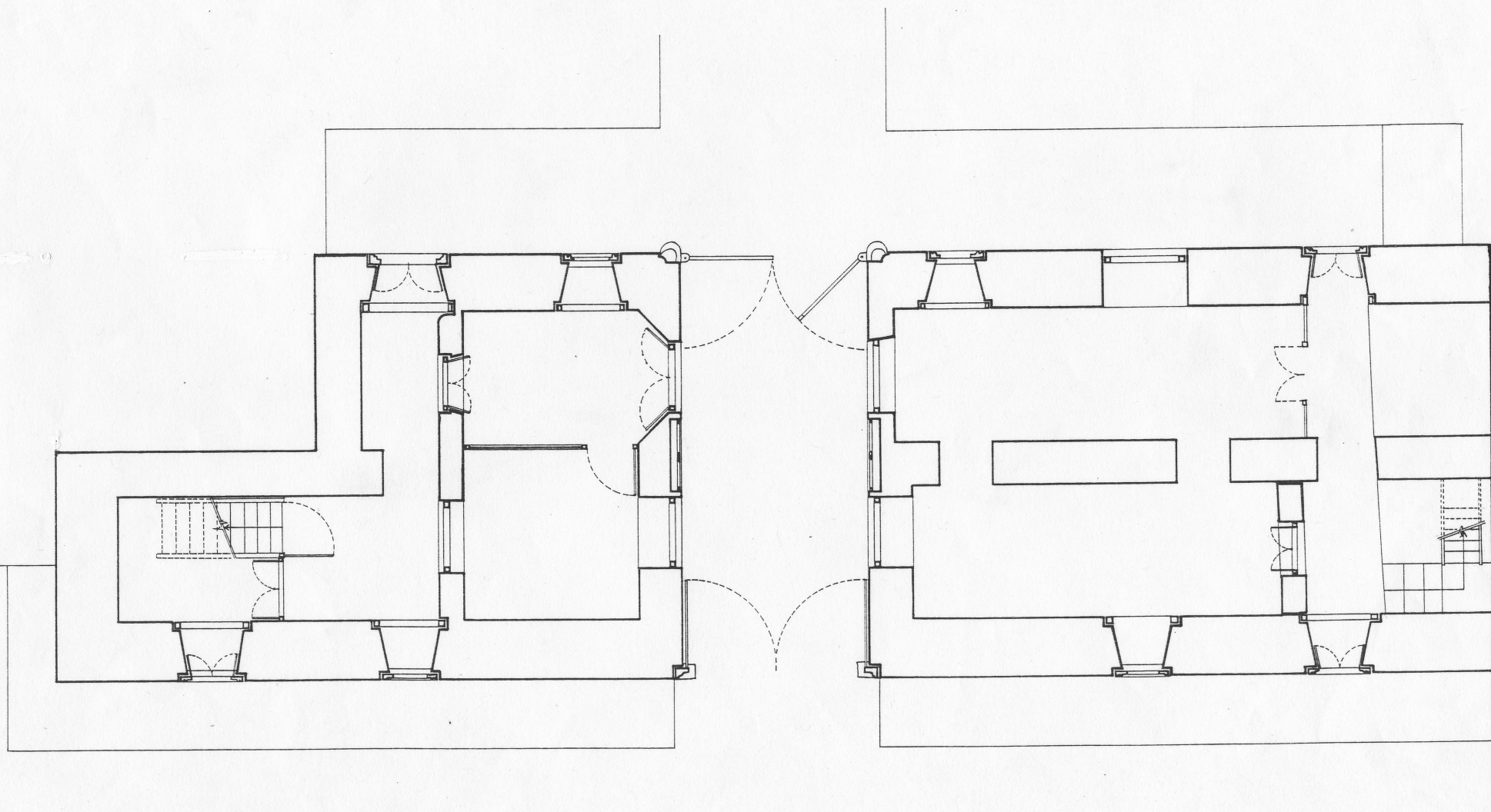
LALITPUR MUNICIPALITY

N. GUTSCHOW & E. G. THEOPHILE, CONSERVATION CONSULTANTS, MARCH 1995

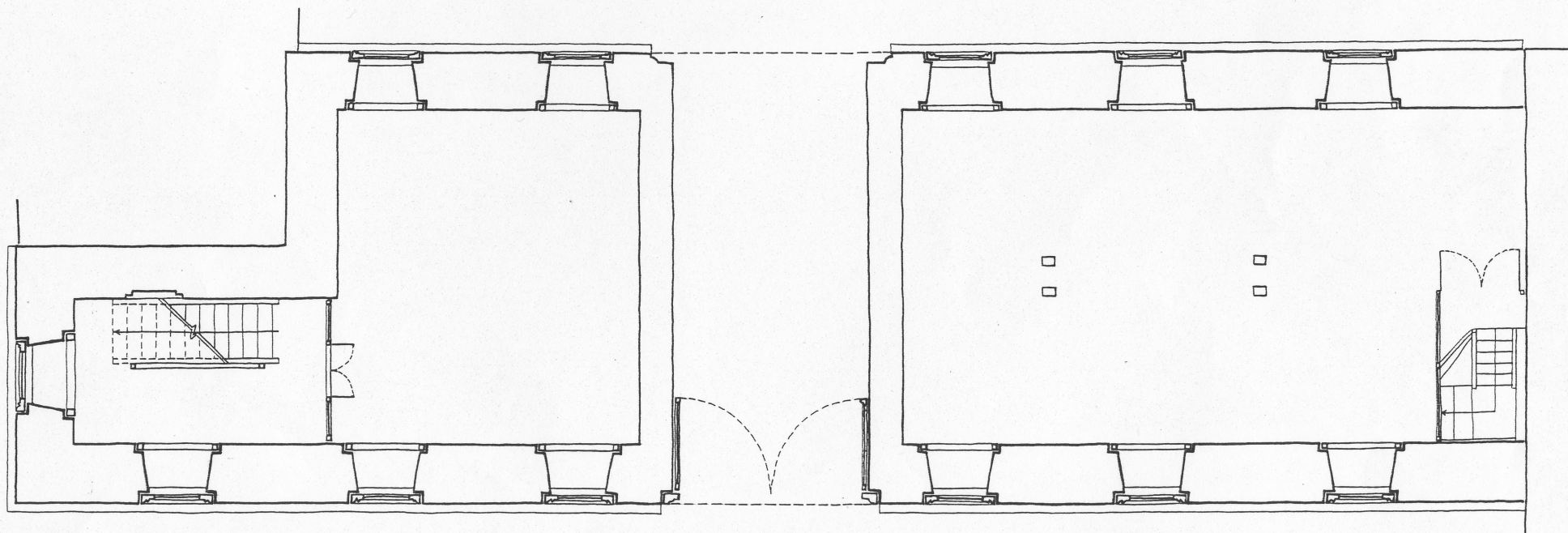


urban development through local efforts

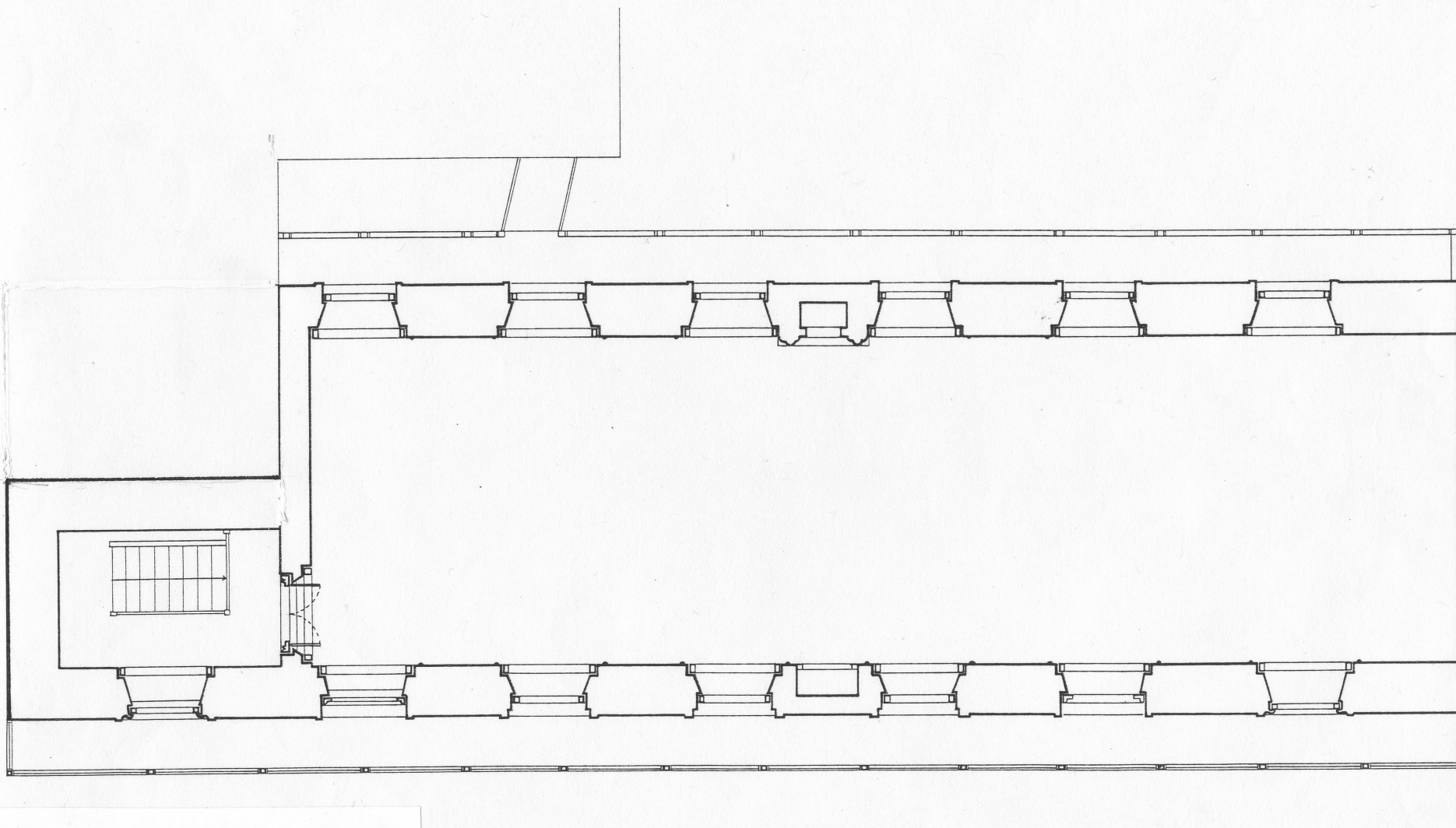




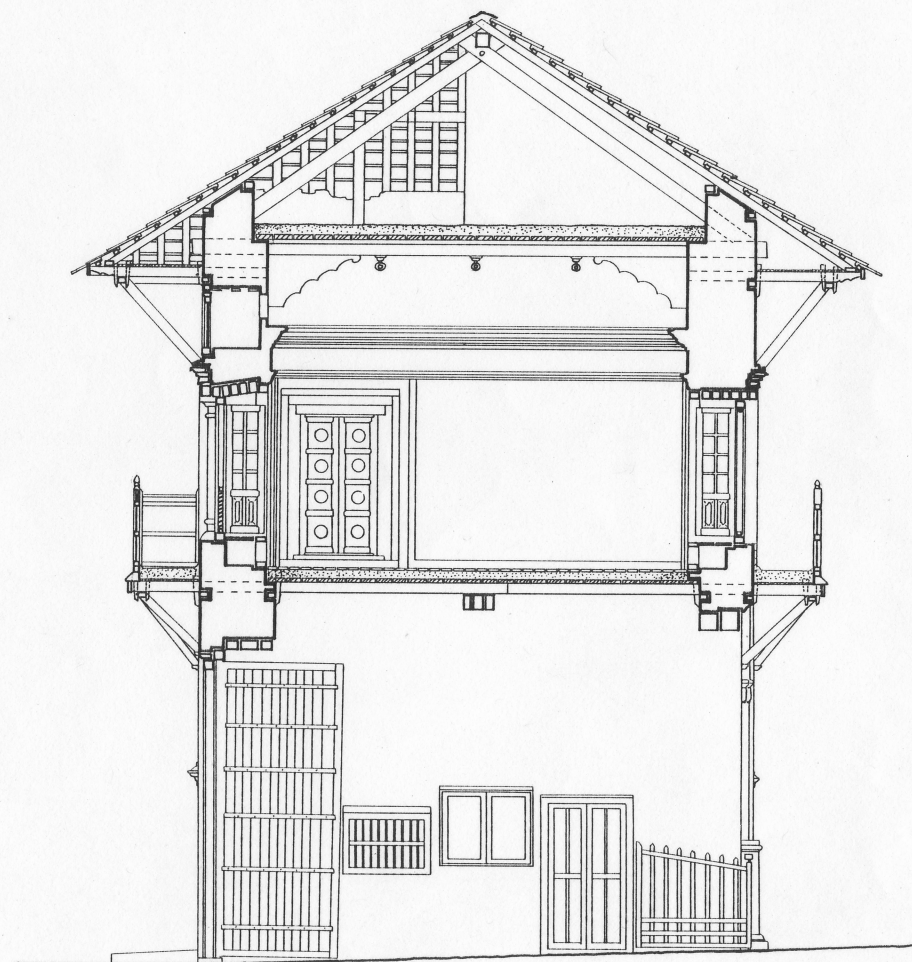
Patan Darbār - North Wing
First Floor Plan, Scale 1:100



Patan Darbār – North Wing
Second Floor Plan, Scale 1:100

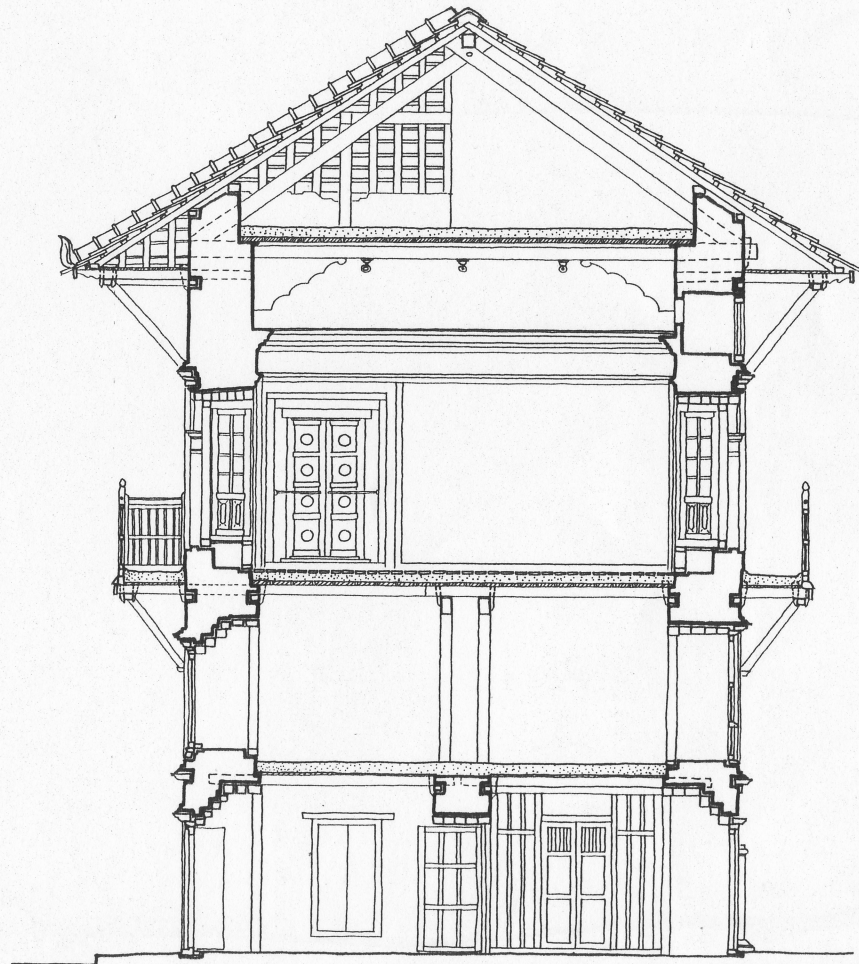


Patan Darbār – North Wing
Third Floor Plan, Scale 1:100



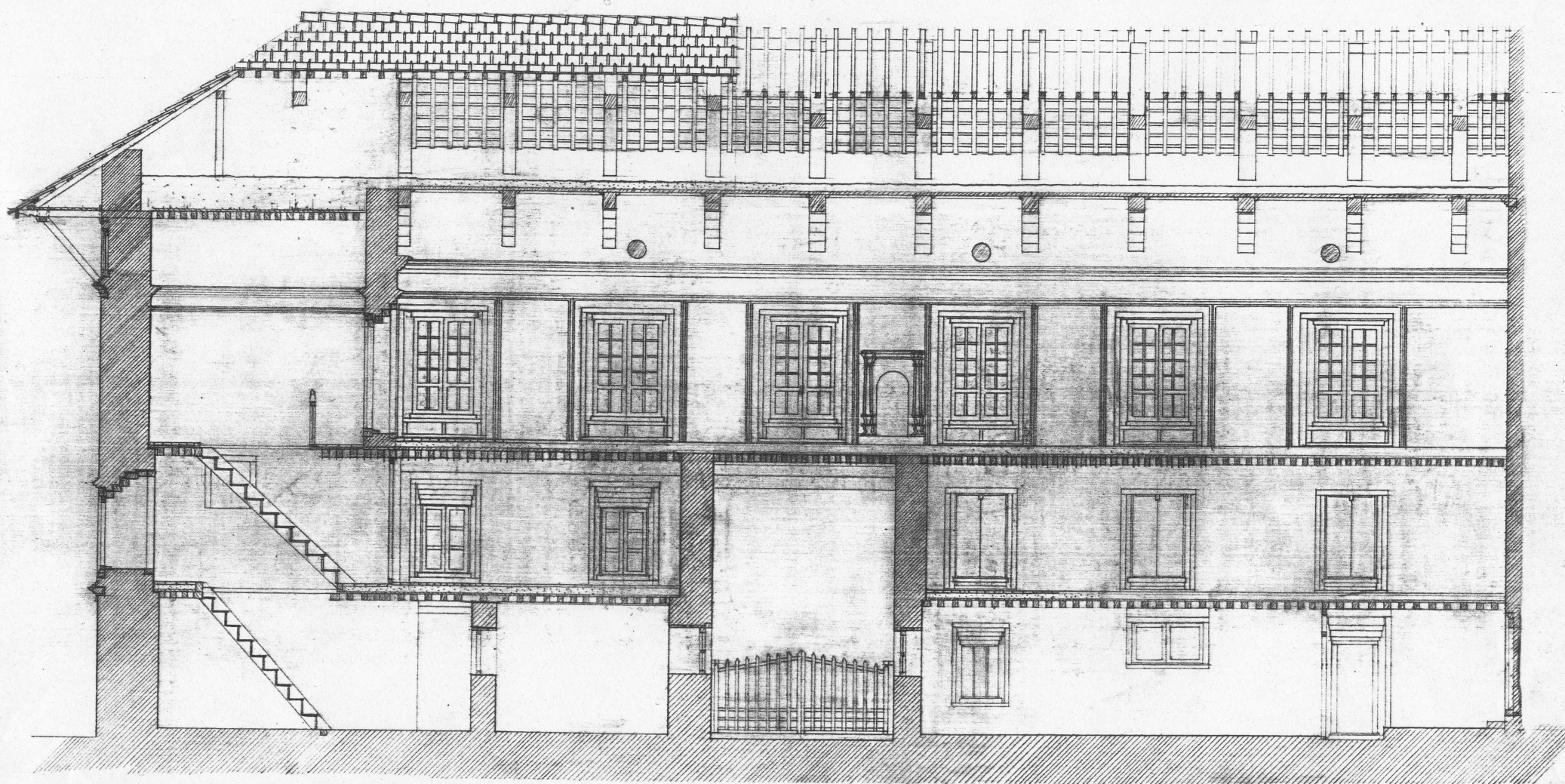
Patan Darbār - North Wing

Section East-West through the Gate, Scale 1:100



Patan Darbār - North Wing

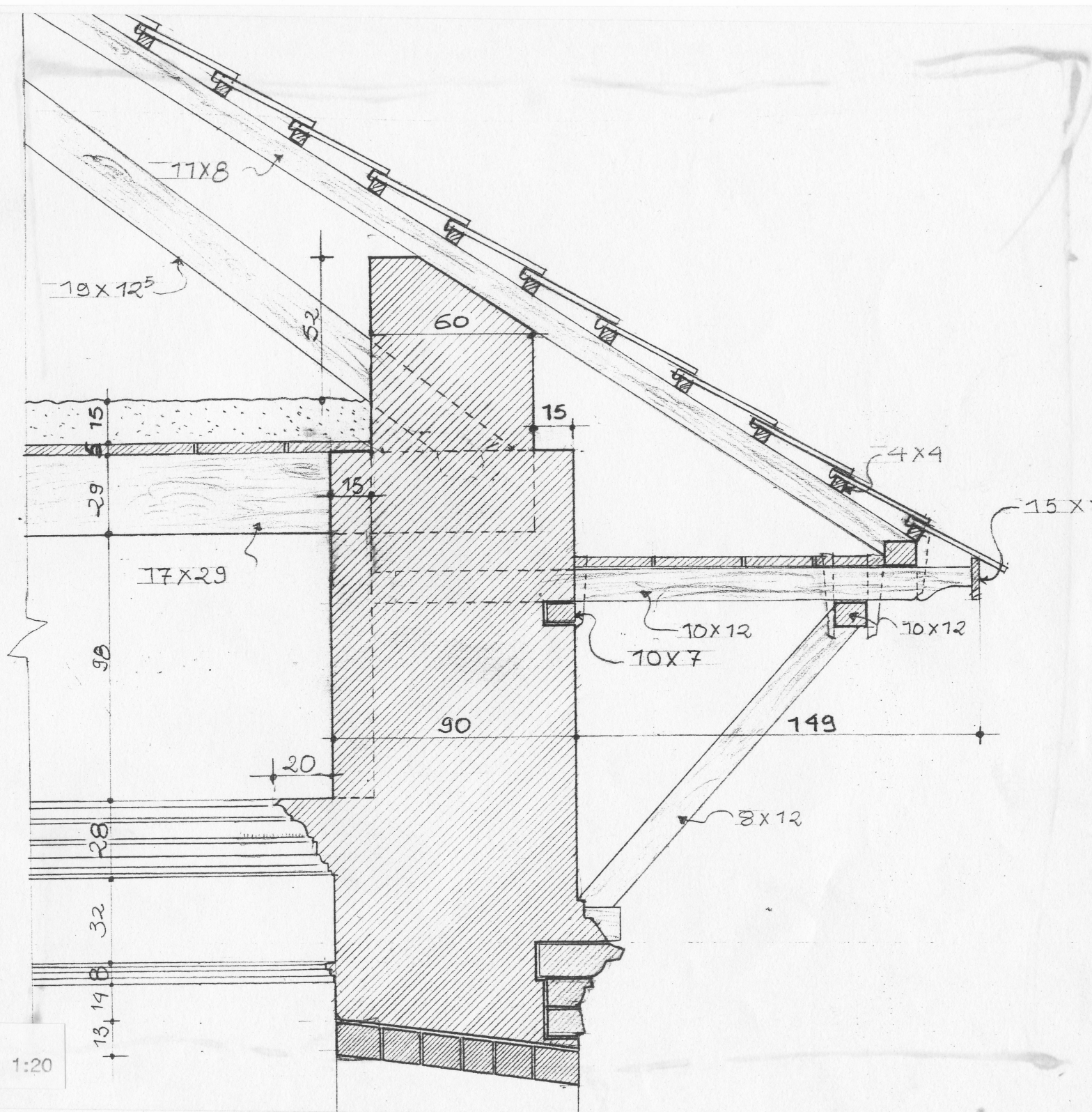
Regular Section East-West, Scale 1:100



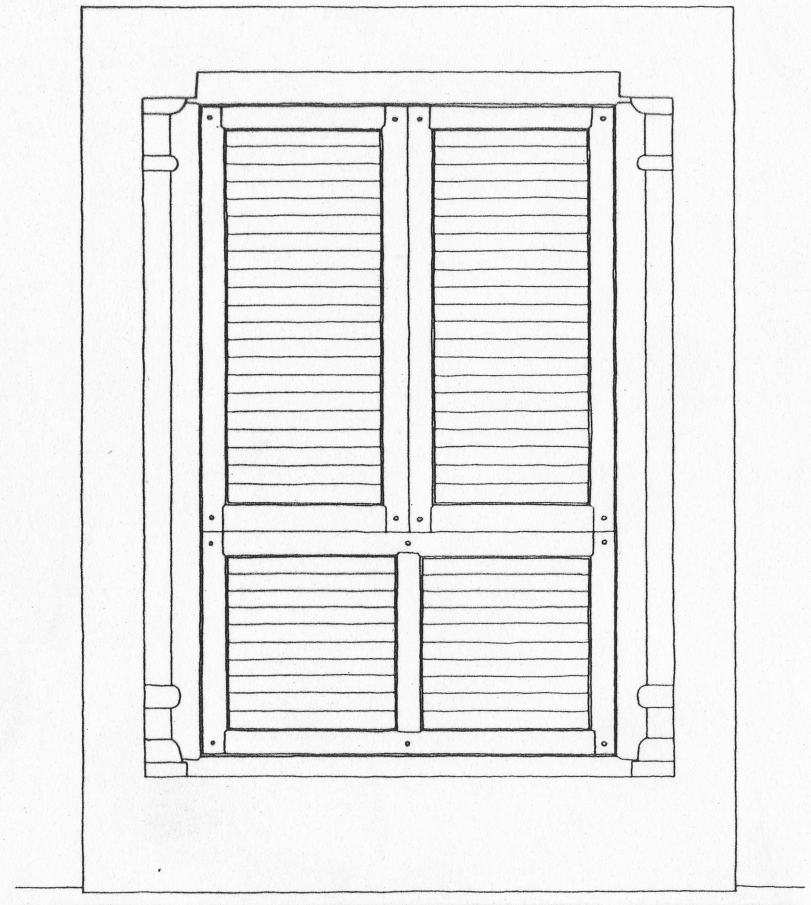
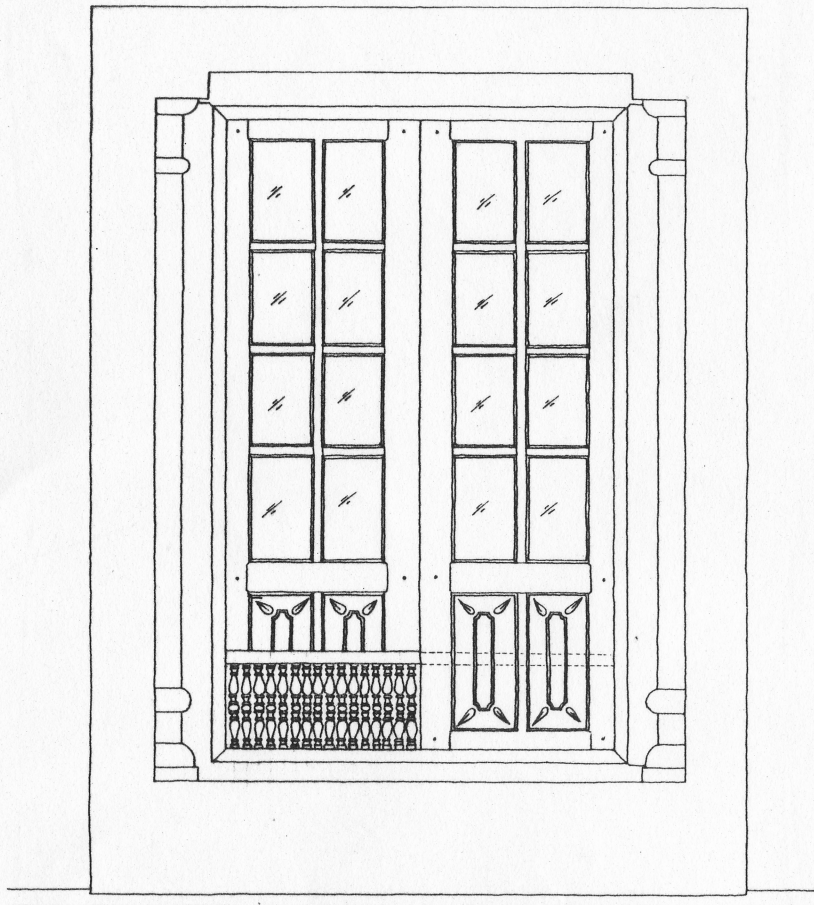
Patan Darbār - North Wing
Longitudinal Section North-South, Scale 1:100



Patan Darbār - North Wing
Elevation West, Scale 1:100



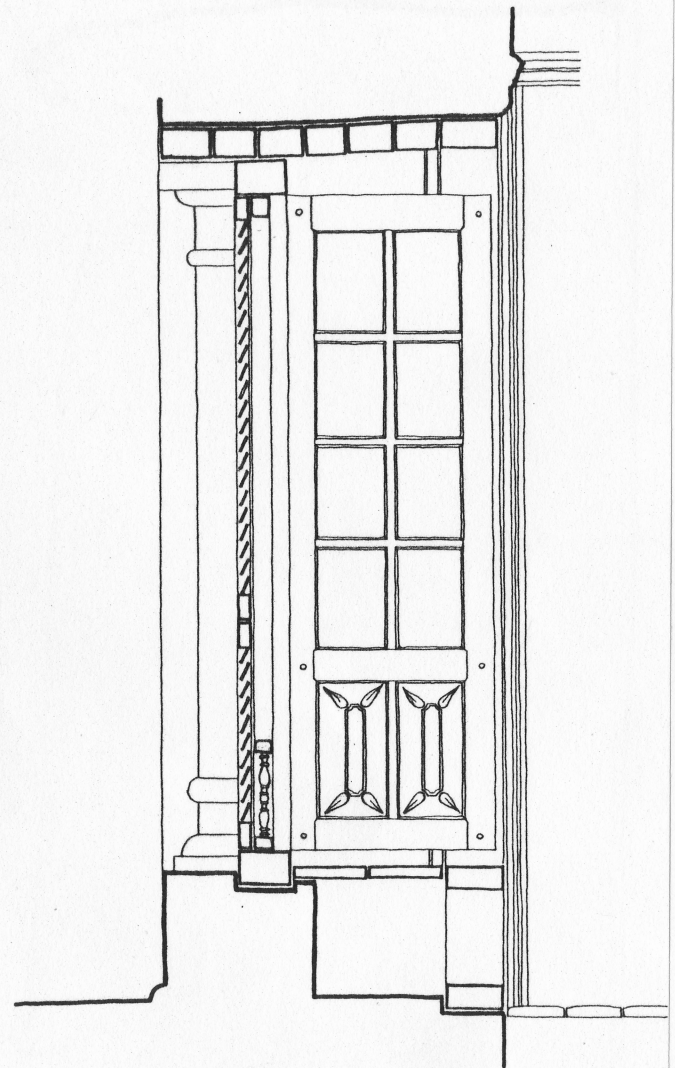
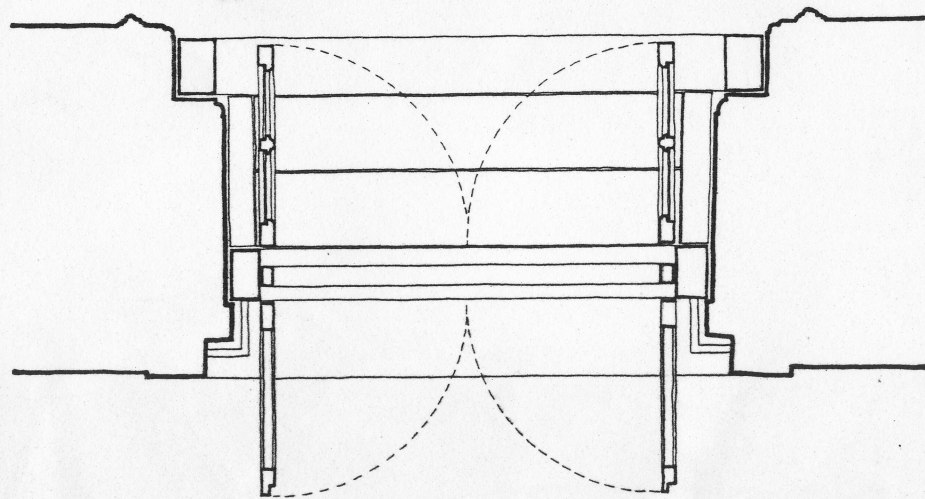
Patan Darbār - North Wing
Detail Section of Eaves, Scale 1:20



Patan Darbār – North Wing

Window of Hall (Third Floor), Scale 1:20

Elevation without Shutters (left) and with closed Shutters (right)



Patan Darbār – North Wing
 Window of Hall (Third Floor)
 Horizontal and Vertical Section, Scale 1:20



Patan Darbār – North Wing

View from the Square towards Southeast

Notes about the history of the NORTH WING of PATAN DARBĀR

It is told, that the north wing of the palace was added to the entire palace complex in 1792 AD by Prince Bahādur Śāha, the younger son of Prthivī Nārāyaṇa Śāha after his return from northern India, where he spent a couple of yeras. He brought with him new building ideals, reflecting an Anglo-Indian style with Moghul influence. New to Nepal and the architecture of the Newars was the introduction of large windows with glass panes and shutters for the large hall on third floor level. This hall probably represents the first hall covering a double span in the Kathmandu Valley, anticipating the aspirations of Bhīmsen Thapa, who built his Bāgh Darbār at Kathmandu some 20 years later. New was also the introduction of a fire place in the hall, which was attached to the eastern wall.

Prince Bahādur Śāha was acting as the regent for the then King Rāṇabahādur Śāha (1778-79 and 1785-1797 AD) and is said to have been the governor for the area of Patan. Later the building became to be known under the name of Śilakhānā, that means it served as the armoury of the army that was stationed in Patan.

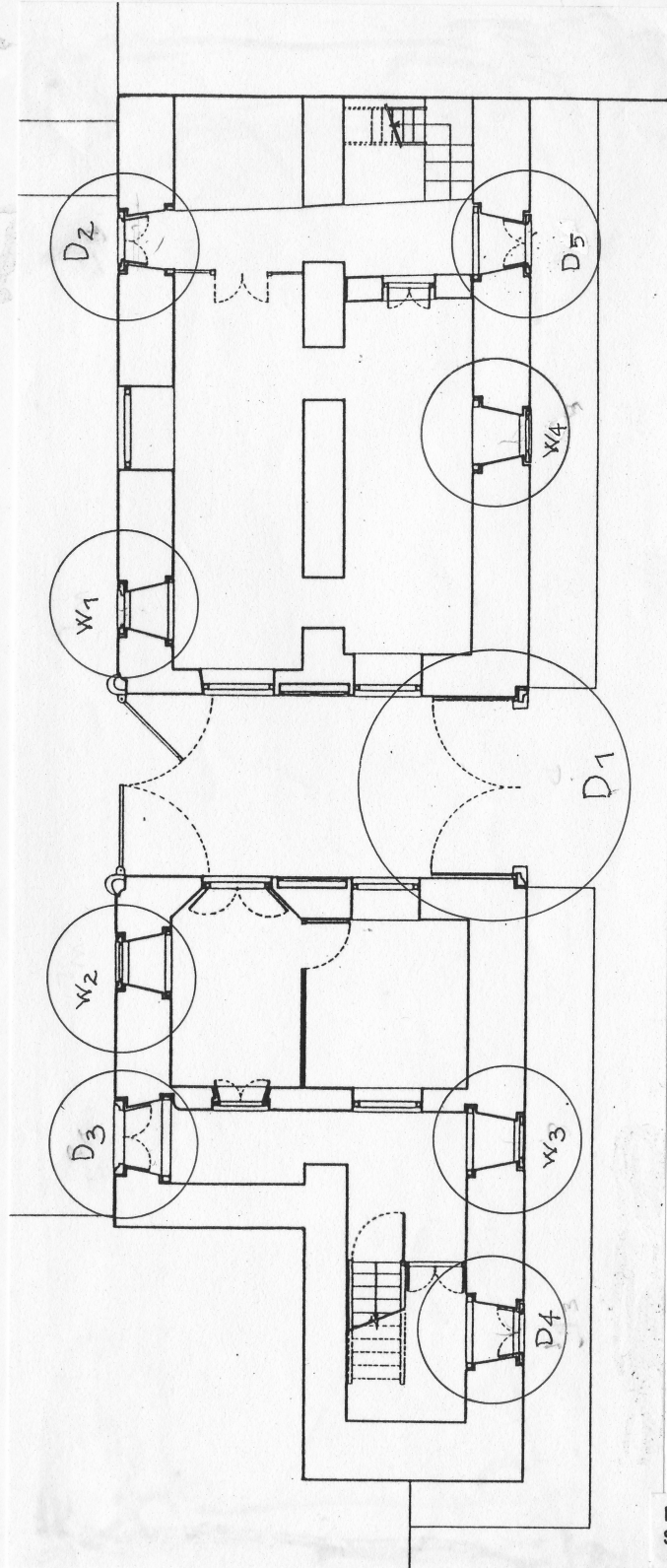
After the earthquake of 1934 the Bhukampa Rṇa Śākhā, the office in charge of providing loans to the victims of the earthquake was established here.

In BS 2007 (1950 AD) the building was handed over to Tripadma Vidyāśrama school by the then minister of Education and Culture, Nṛpajāṅga Rāṇā, following an earlier cabinet decision.

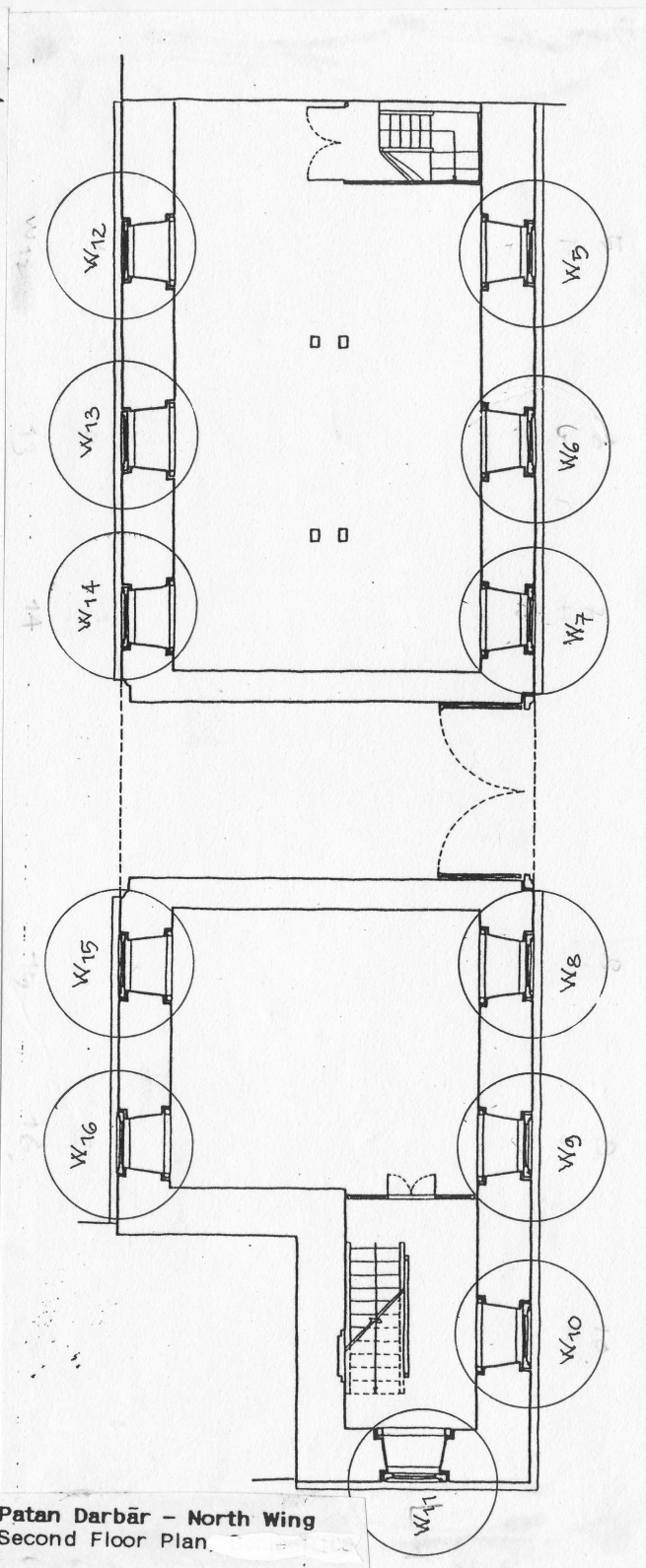
Since 1973 the building is used by the Ādarśa Kanyā Niketana (Girls High School).

Summary of Cost Estimate

1. Scaffolding	115 000.-	115 000.-Rs
2. Roof		
dismantling, maintenance of wall		
site clearance	80 000.-	
timber (dalīpakha, caku, musībāhā, eavesboard, wall plates, ridge beam, rafters (musī)	450 000.-	
40% loss on timber	200 000.-	
plywood	200 000.-	
labour (sikaḥmi)	60 000.-	
roofing (double layer of tarfelt, bitumen, mud, rooftiles)	150 000.-	
labour (dakaḥmi)	20 000.-	
		1 160 000.-
3. Third Floor		
window repair (labour)	60 000.-	
balcony repair (labour)	40 000.-	
flooring (labour)	7 000.-	
flooring (material)	30 000.-	
plaster repair (labour)	20 000.-	
		157 000.-
4. Second Floor		
flooring (material:cikaapa)	16 000.-	
flooring (labour)	5 000.-	
windows repair (tikajhyāḥ)	20 000.-	
		41 000.-
5. First Floor		
repair of doors	15 000.-	
repair of windows (tikajhyāḥ)	20 000.-	
repair of main gate (kisidhvākha)	5 000.-	
		40 000.-
Grand Total		1 513 000.-Rs



Patan Darbār - North Wing
Second Floor Plan.



Patan Darbār - North Wing
Third Floor Plan.

Patan Dabār - North Wing

Detailed cost estimate for the repair
and replacement of windows and shutters.

made by Radhe Shyam Silpakar and
Bijay Basukala, 23 February 1994

D= door; W= window

First Floor

D1 = repair	5.250Rs
D2 = new shutter	2.000
new gvalichē	
D3 = repair	600
D4 = new shutter	2.000
new gvalichē	
D5 = new shutter	2.000
new gvalichē	
W1-4 = new tikajhyāḥ	15.000
repair of cornice	5.000

Second Floor

W5-6 = repair tikajhyāḥ	4.200
W7 = repair tikajhyāḥ	4.200
W8-10 = repair tikajhyāḥ	6.300
W11 = new tikajhyāḥ	4.200
W12-16 = repair tikajhyāḥ	
replacement of nāga	33.000

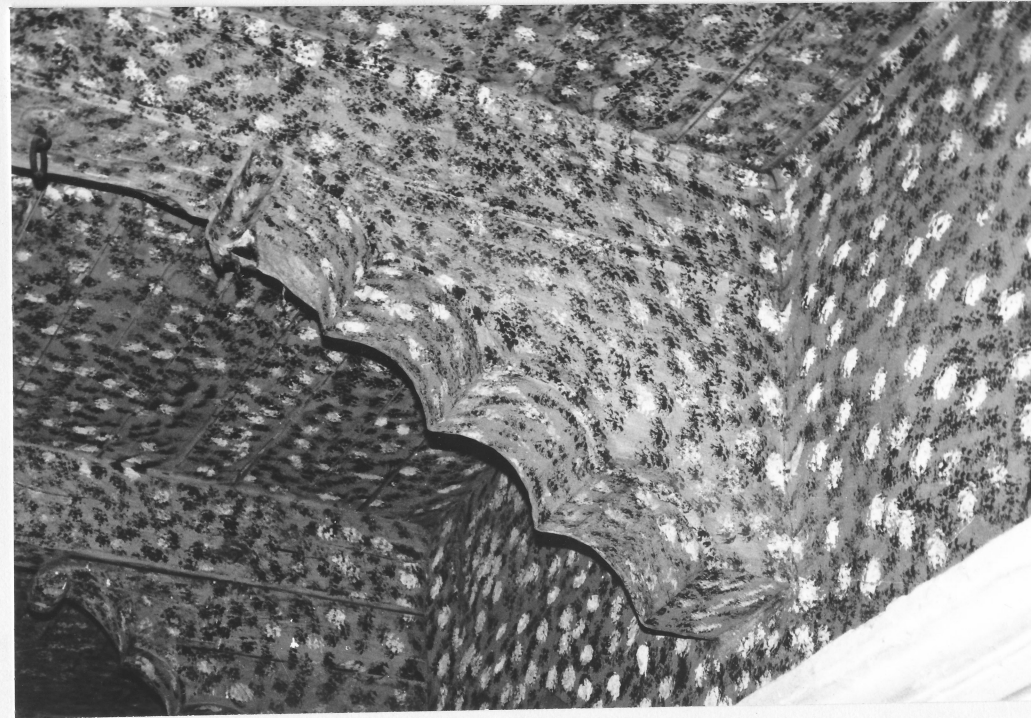
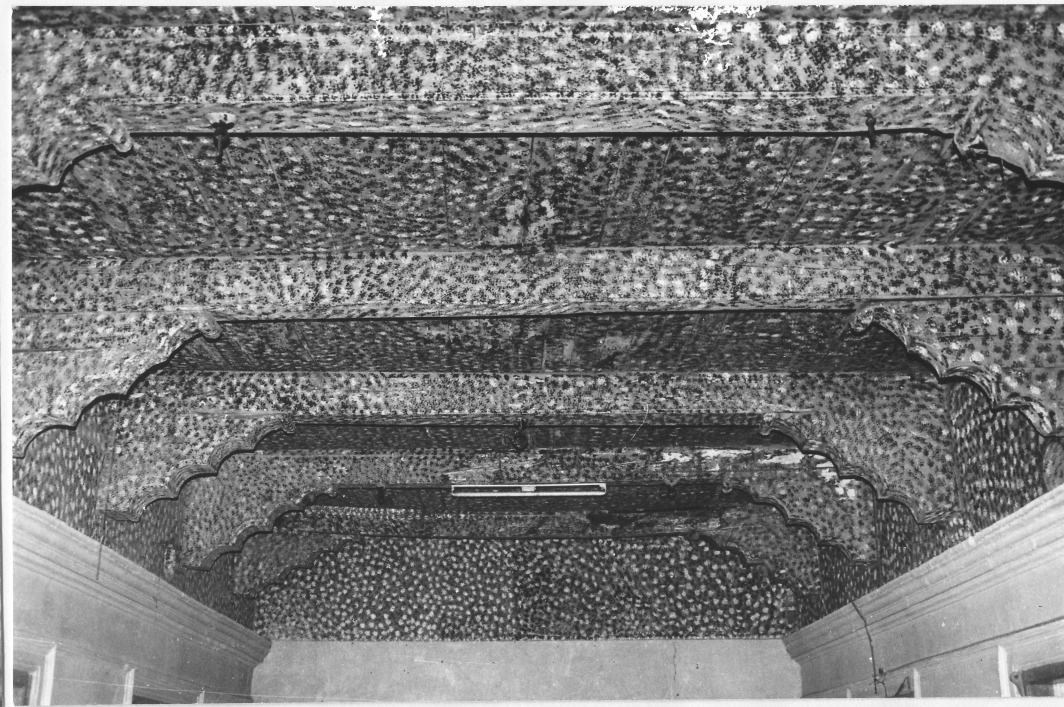
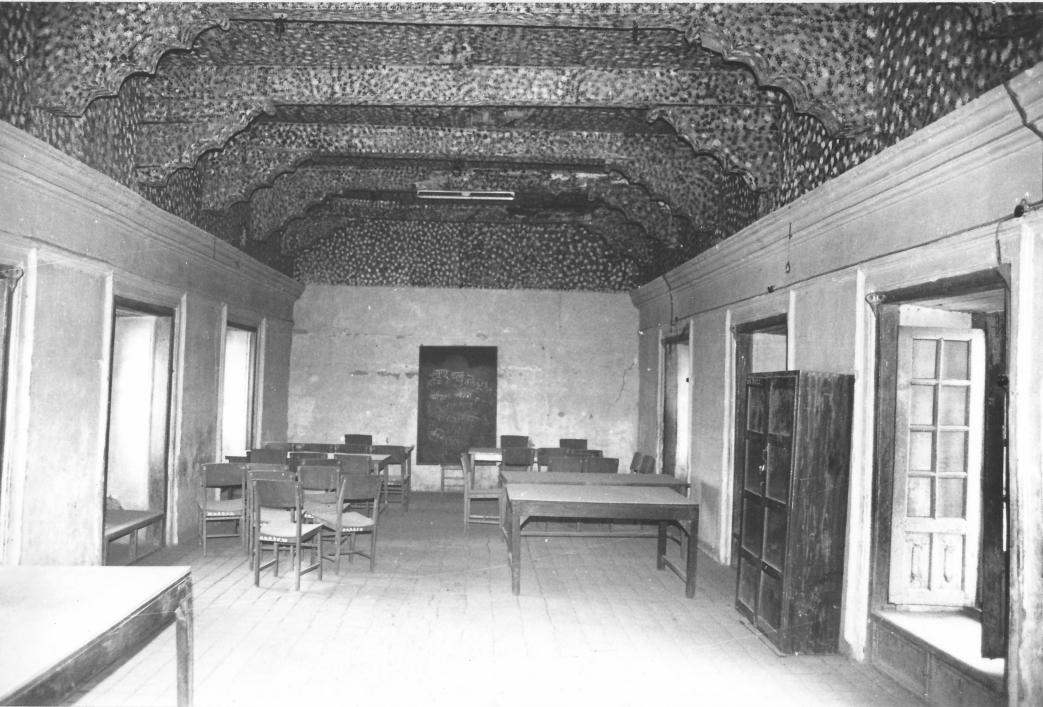
Third Floor

W17 = repair of shutter	9.400
repair of sill	
W18-22 = four new shutters	
repair one shutter	
repair of inner shutters	
repair of sills	78.750
W23 = repair inner shutter	
repair sill	9.400
W24-29 = six new outer shutters	
sill repair	
repair of inner shutters	
	94 500

Balcony

Replacement of 361 suricā	
repair of railings	70.350

TOTAL	3.46.250.-Rs
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Patan Darbār - North Wing
Existing Conditions, 4 February 1994
Hall (*baithak*) with false brackets
supporting the beam.
4 February 1994



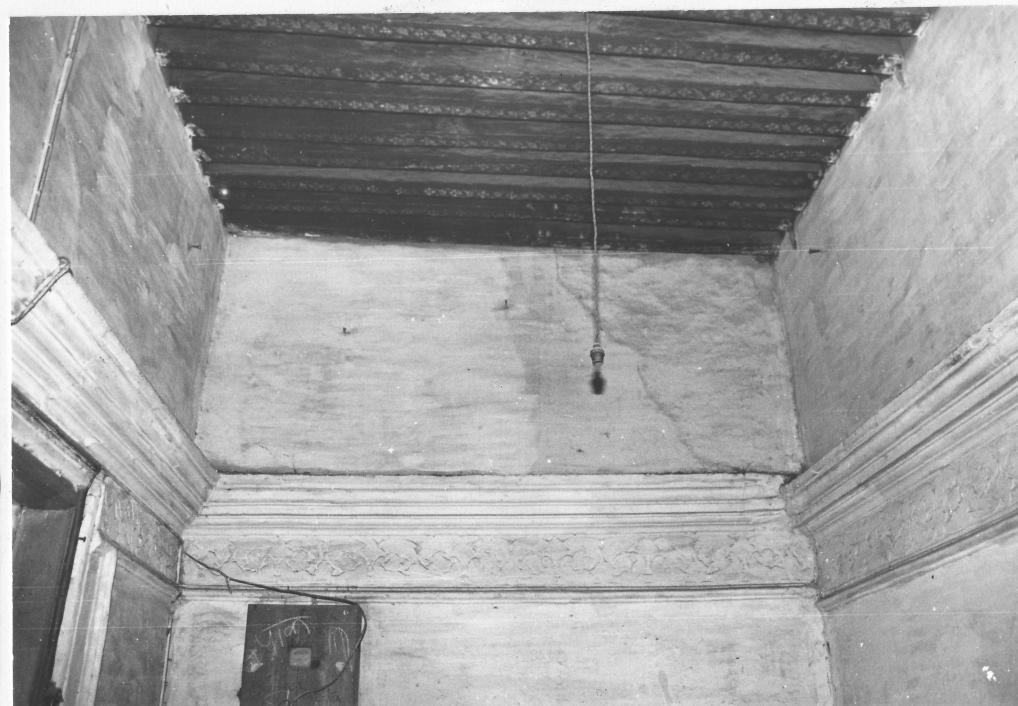
Patan Darbār – North Wing
Existing Conditions: Windows of the hall (*baithak*)
4 February 1994



Patan Darbār – North Wing
Existing Conditions, 4 February 1994



Truss' lower end hidden in low wall



Hall above the stairs

Patan Darbār – North Wing
Existing Conditions: 4 February 1994



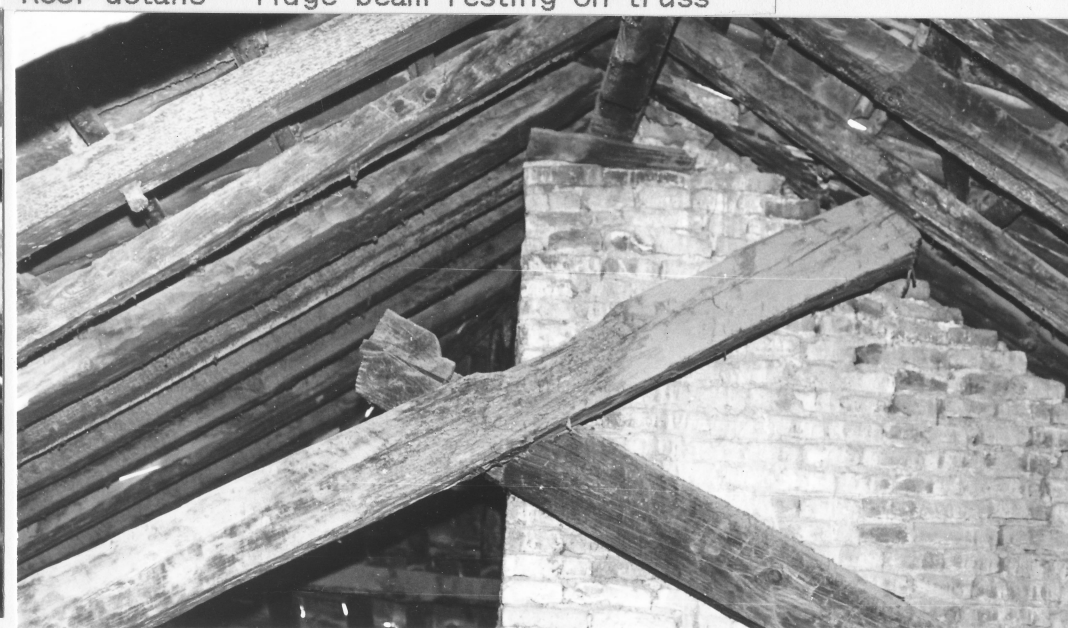
Introduction of an additional support

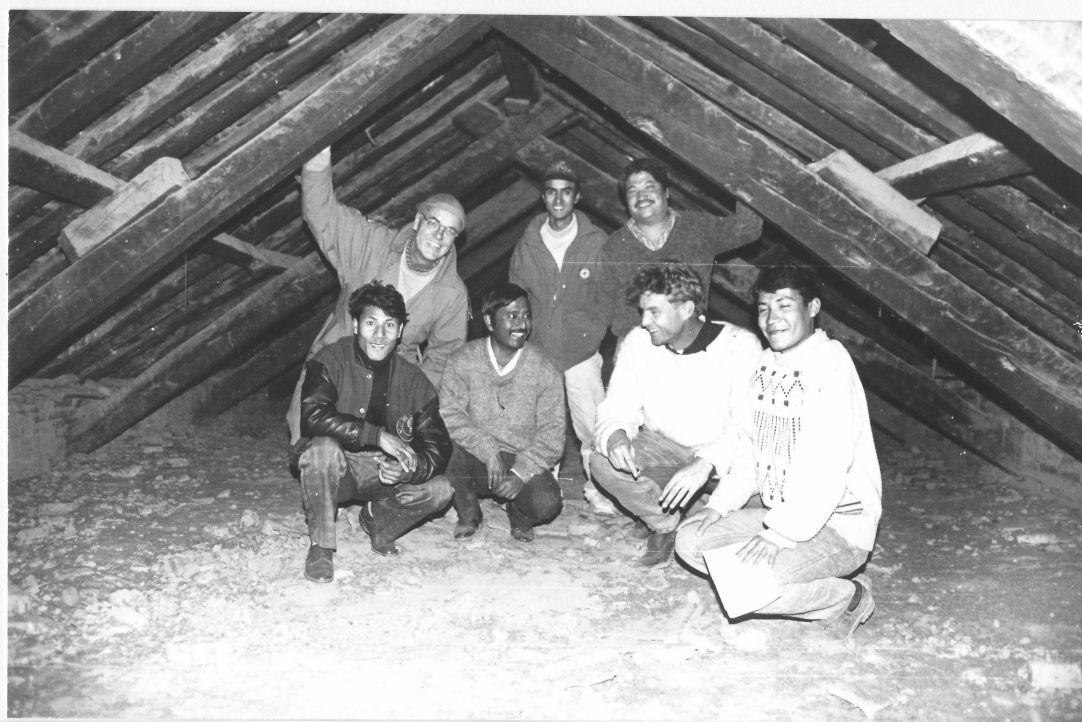


Roof details - ridge beam resting on truss



Support introduced between purlin and rafter





Patan Darbār – North Wing

The conservation team:

standing: Götz Hagmüller, Bijay Basukala, Amrit Sakya
in front: Binay Shrestha, Prayag Joshi, Erich Theophile,
Rohit Ranjitkar – 4 February 1994

Schedule of works

Phase I (March - June 1994)

*Negotiation of an agreement to serve as a protective covenant. To date there exists no legislation which effectively protects historical structures.

*Provision of critical materials including roof tiles, ridge tiles, rafters, marine-grade plywood, etc.

*Design of missing cornice bricks; ordering of replacements.

*Restoration of timber balconies, shutters, railings, and aprons including repair and fabrication of replacement elements.

*Development and test installation of seismic reinforcement prototypical bay.

Phase II (July - October 1994)

*Restoration of timber balconies, shutters, railings, and aprons including repair and fabrication of replacement elements.

Phase III (November 1994 - March 1995)

*Structural consolidation of roof structure including seismic reinforcements. Tile production for flooring.

Phase IV (April - June 1995)

*Interior and exterior plaster repairs. Flooring installation. Painting in historical finishes.

*Provision of service arrangements.