ACCSCIENCE PUBLISHING

Journal of Chinese Architecture and Urbanism

ORIGINAL ARTICLE

Adaptive spatial genotypes in Thai Lue houses across rural–town–urban contexts: A space syntax study in Xishuangbanna, China

Supplementary Files

S1. Spatial layouts and J-graphs for contemporary cases

This supplementary section presents the floor plans and corresponding justified graphs (J-graphs) for all 24 contemporary case studies across the six selected settlements, categorized into three distinct urbanization contexts: urban (Mandou and Manla), town (Mane and Manzhang), and rural (Mansailong and Manxiu).

S1.1. Urban context: Mandou and Manla villages

(i) Mandou village cases

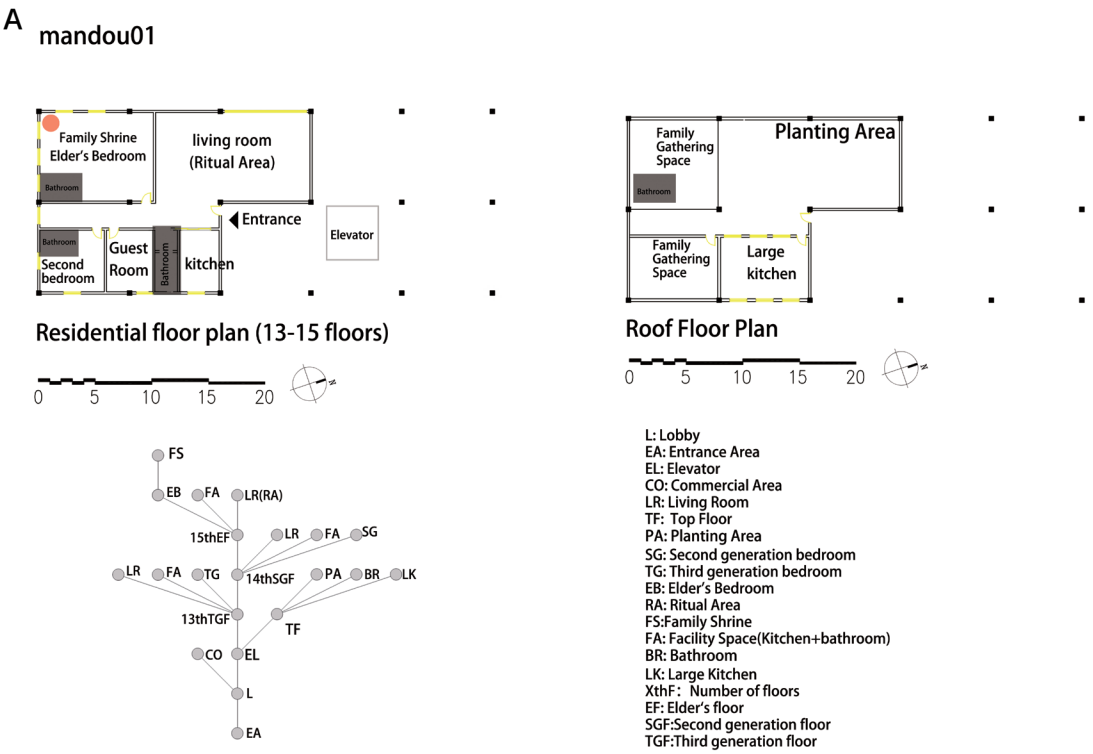


Figure S1. *Continued*

(*Cont'd...*)

B

mandou02



C

mandou03

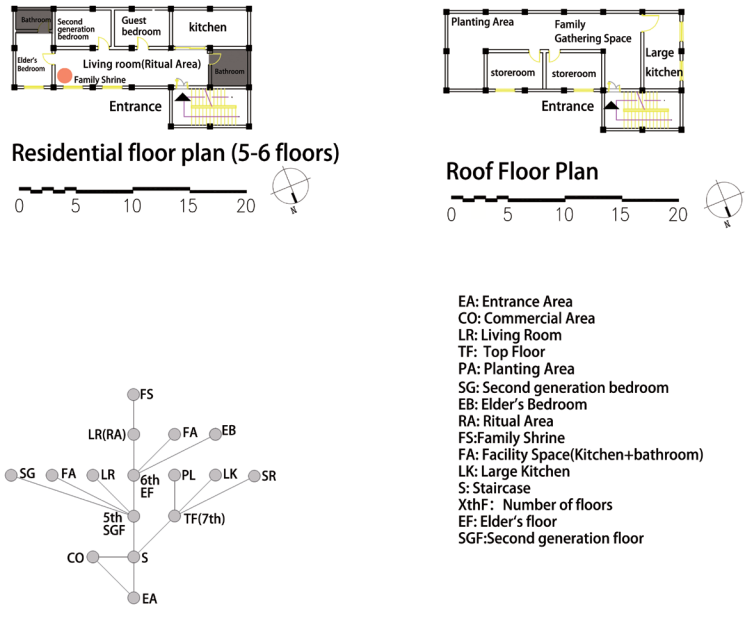


Figure S1. *Continued*

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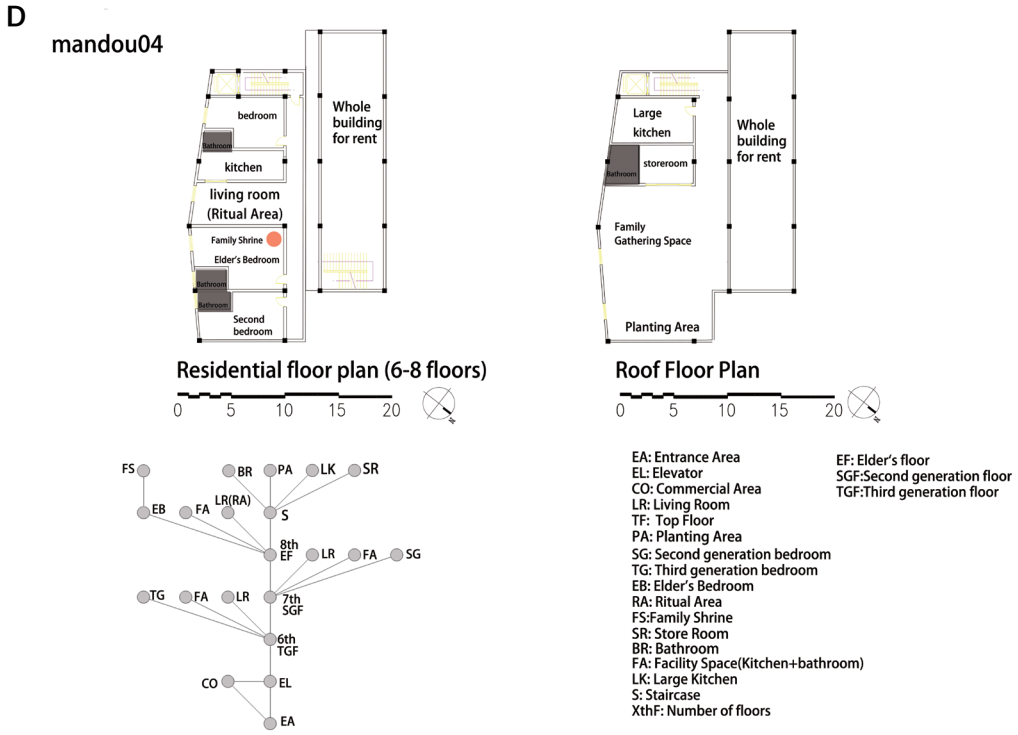


Figure S1. Floor plans and J-graphs for Mandou cases. (A) Mandou 01; (B) Mandou 02; (C) Mandou 03; (D) Mandou 04. Source: Drawings by the authors

(ii) Manla village cases

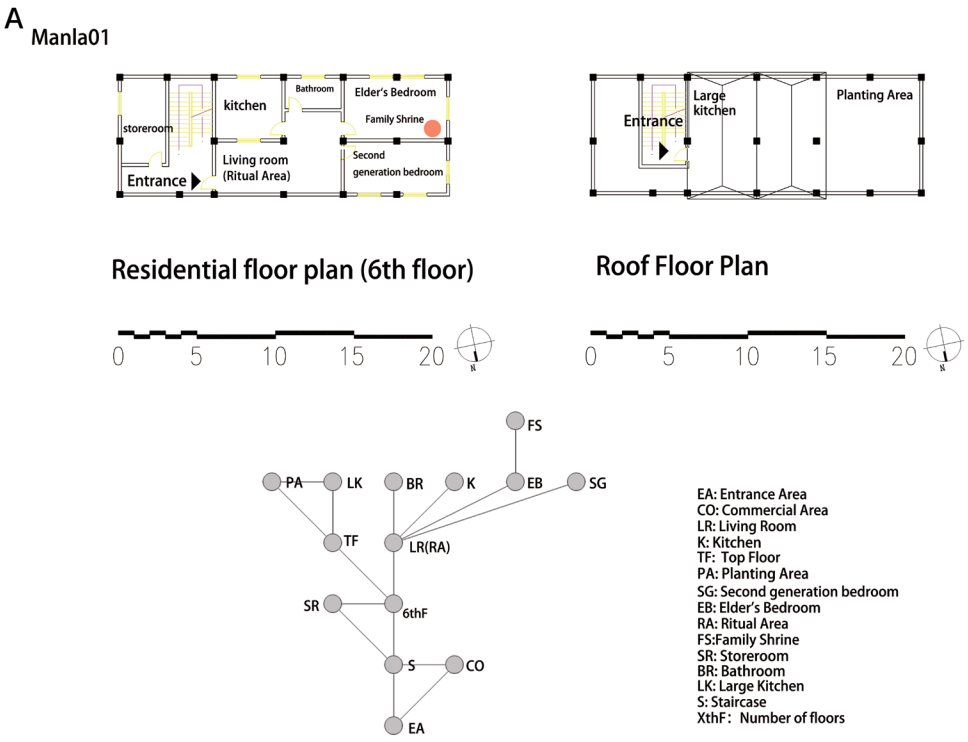
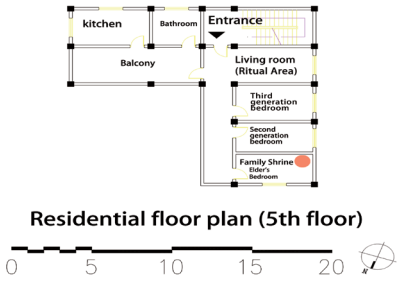
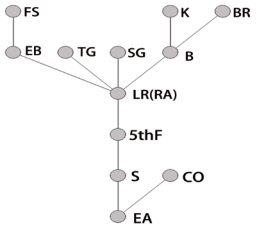


Figure S2. *Continued*

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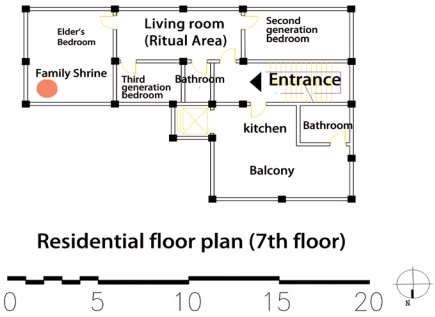
B Manla02

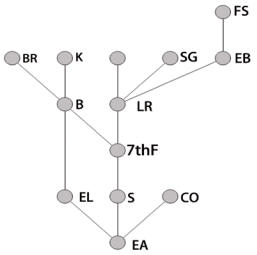




EA: Entrance Area
CO: Commercial Area
LR: Living Room
K: Kitchen
SG: Second generation bedroom
TG: Third generation bedroom
EB: Elder's Bedroom
RA: Ritual Area
FS:Family Shrine
BR: Bathroom
S: Staircase
XthF: Number of floors
B: Balcony

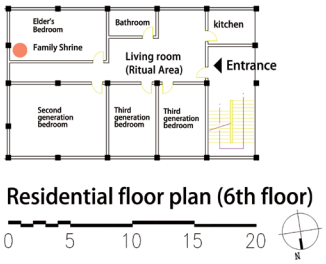
C Manla03

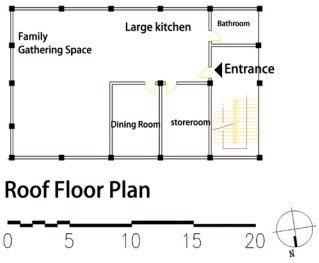


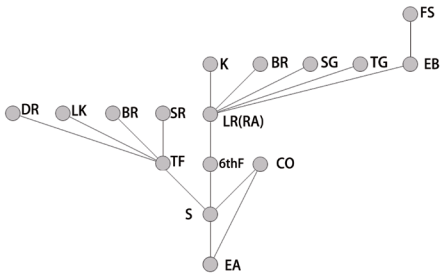


EL: Elevator
EA: Entrance Area
CO: Commercial Area
LR: Living Room
K: Kitchen
SG: Second generation bedroom
TG: Third generation bedroom
EB: Elder's Bedroom
RA: Ritual Area
FS:Family Shrine
BR: Bathroom
S: Staircase
XthF: Number of floors
B: Balcony

D Manla04







EA: Entrance Area
CO: Commercial Area
LR: Living Room
K: Kitchen
TF: Top Floor
PA: Planting Area
SG: Second generation bedroom
TG: Third generation bedroom
EB: Elder's Bedroom
RA: Ritual Area
FS:Family Shrine
SR: Store Room
BR: Bathroom
LK: Large Kitchen
S: Staircase
XthF: Number of floors
DR:Dining Room

Figure S2. Floor plans and J-graphs for Manla cases. (A) Manla 01; (B) Manla 02; (C) Manla 03; (D) Manla 04. Source: Drawings by the authors

S1.2. Town context: Mane and Manzhang villages

(i) Mane village cases

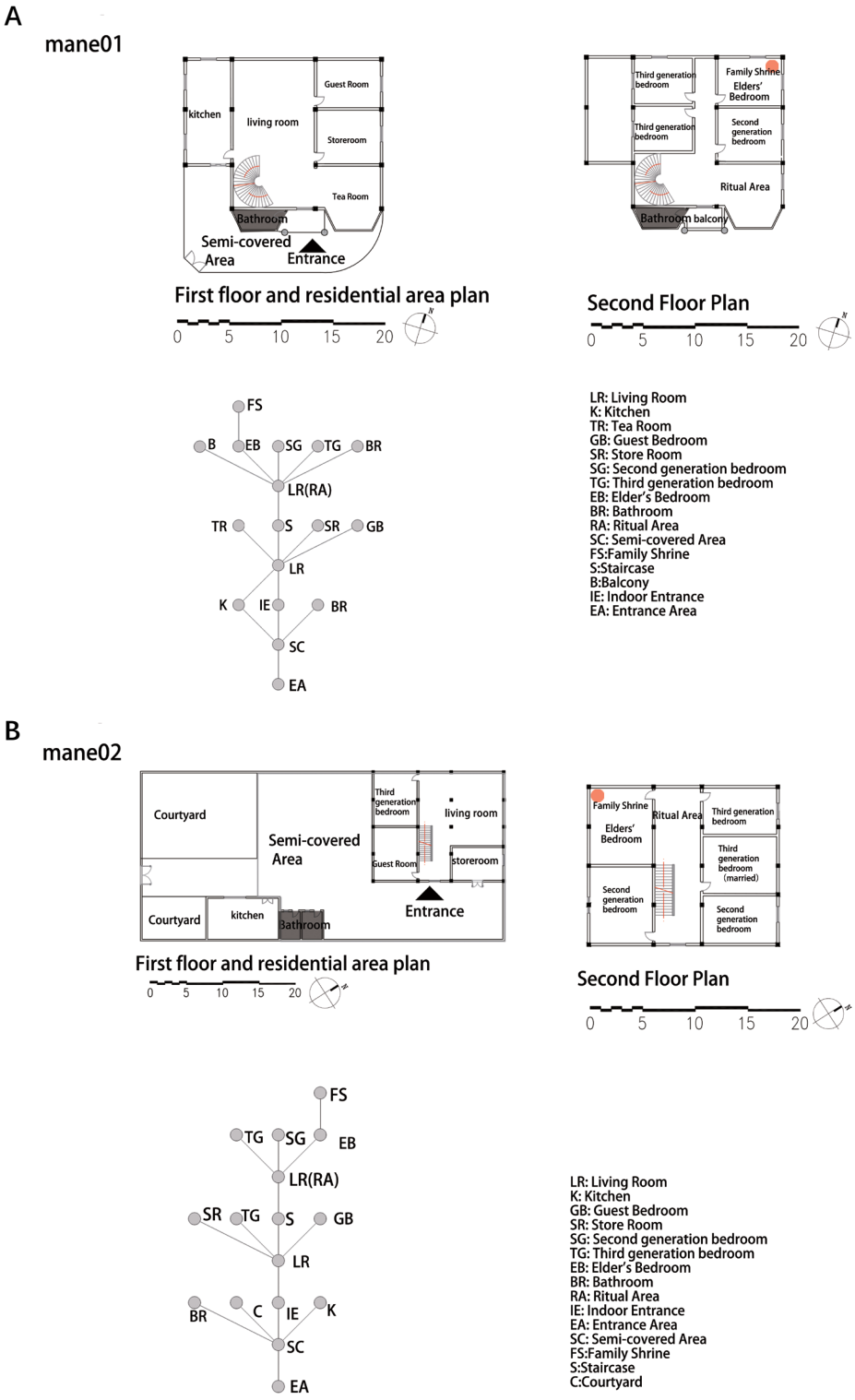
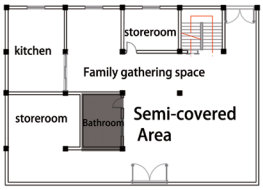


Figure S3. *Continued*

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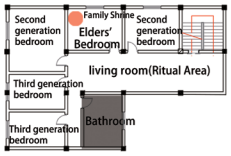
C

mane03



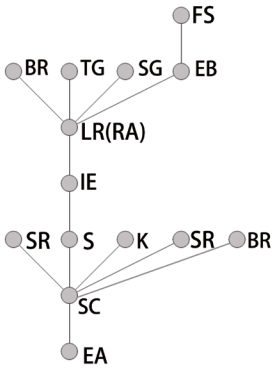
First floor and residential area plan

0 5 10 15 20



Second Floor Plan

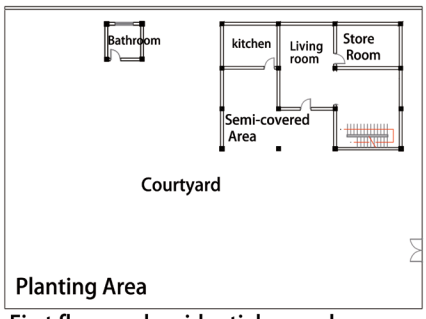
0 5 10 15 20



LR: Living Room
K: Kitchen
GB: Guest Bedroom
SR: Store Room
SG: Second generation bedroom
TG: Third generation bedroom
EB: Elder's Bedroom
BR: Bathroom
RA: Ritual Area
SC: Semi-covered Area
FS:Family Shrine
S:Staircase
IE: Indoor Entrance
SC: Semi-covered Area
EA: Entrance Area

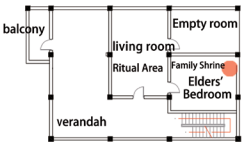
D

mane04



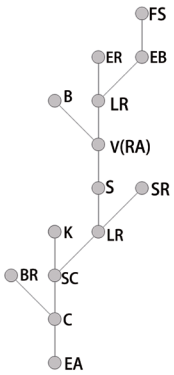
First floor and residential area plan

0 5 10 15 20



Second Floor Plan

0 5 10 15 20



LR: Living Room
K: Kitchen
SR: Store Room
EB: Elder's Bedroom
BR: Bathroom
RA: Ritual Area
EA: Entrance Area
SC: Semi-covered Area
FS:Family Shrine
S:Staircase
C:Courtyard
V: Verandah
B:Balcony
ER: Empty Room
PA: Planting Area

Figure S3. Floor plans and J-graphs for Mane cases. (A) Mane 01; (B) Mane 02; (C) Mane 03; (D) Mane 04. Source: Drawings by the authors

 https://doi.org/10.36922/JCAU025520102

(ii) Manzhang village cases

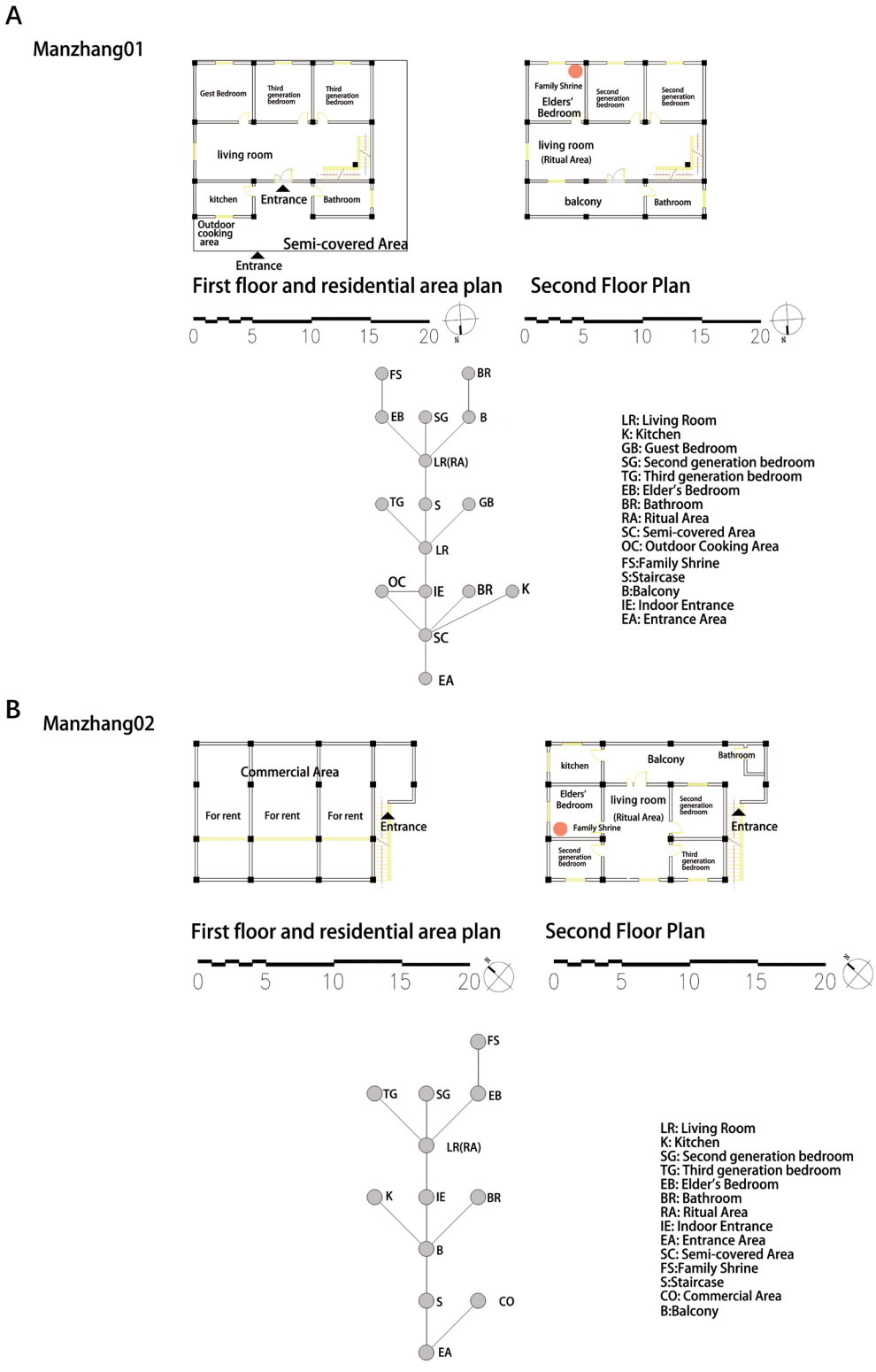


Figure S4. *Continued*

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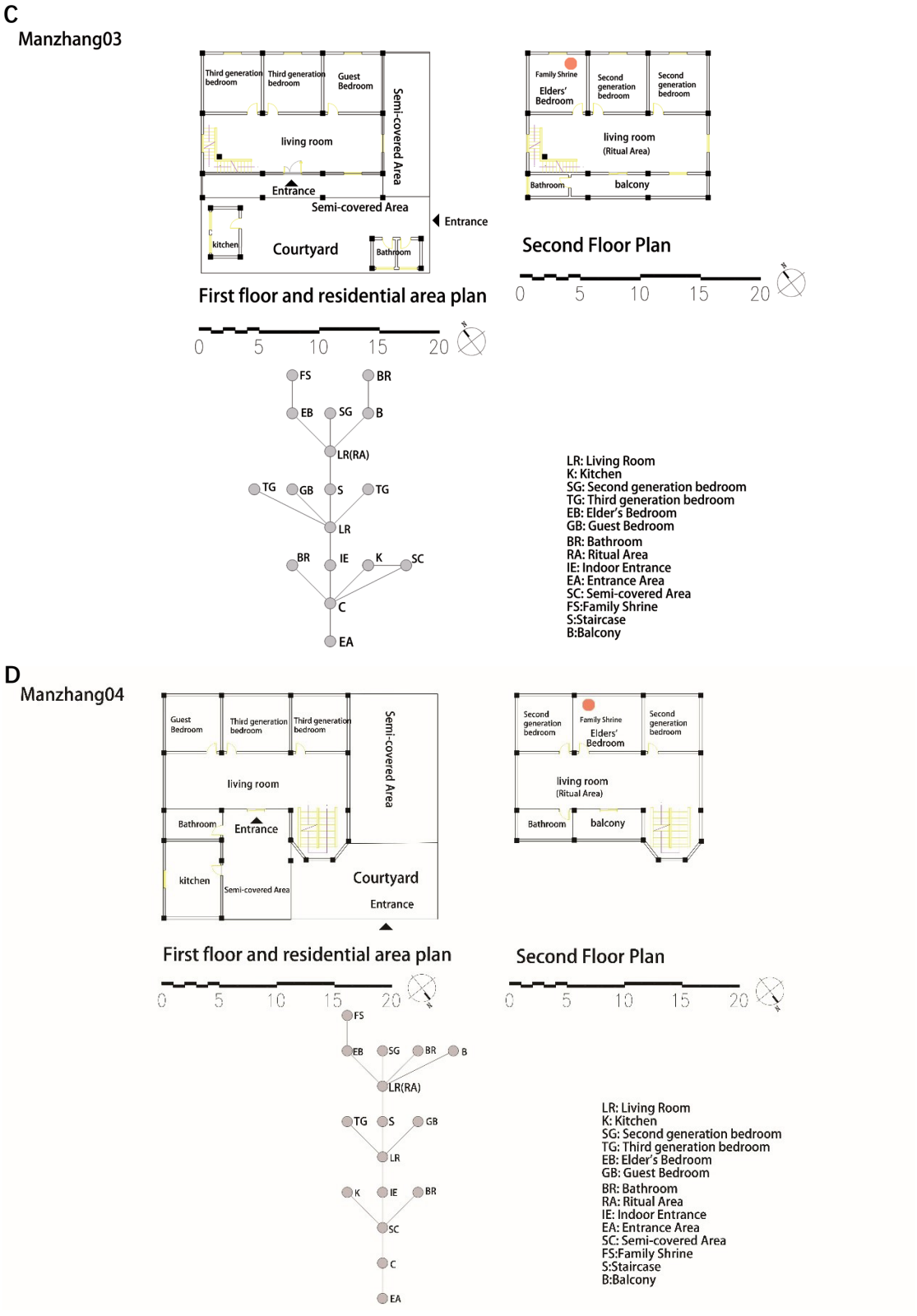


Figure S4. Floor plans and J-graphs for Manzhang cases. (A) Manzhang 01; (B) Manzhang 02; (C) Manzhang 03; (D) Manzhang 04. Source: Drawings by the authors

S1.3. Rural context: Mansailong and Manxiu villages

(i) Mansailong village cases

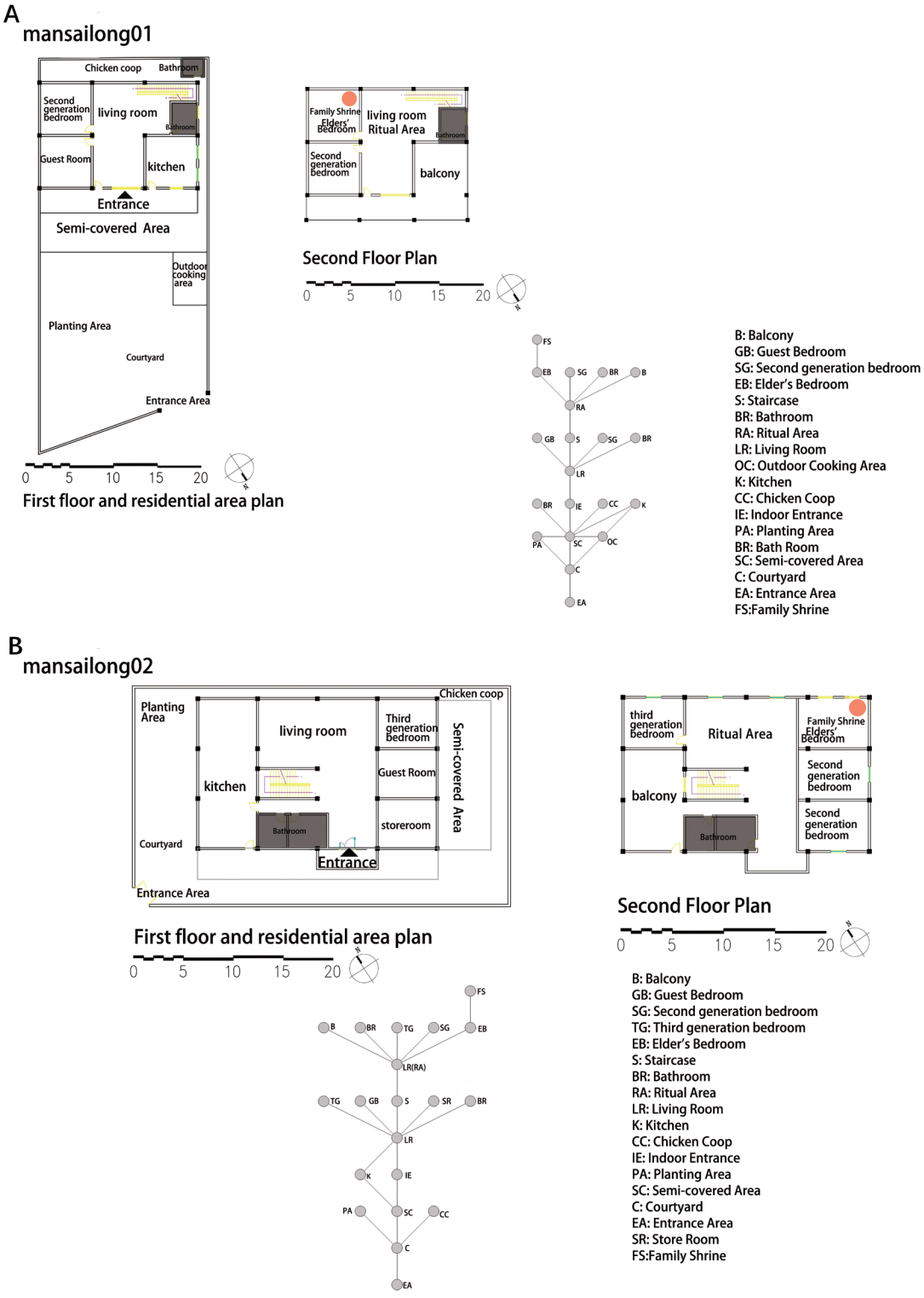
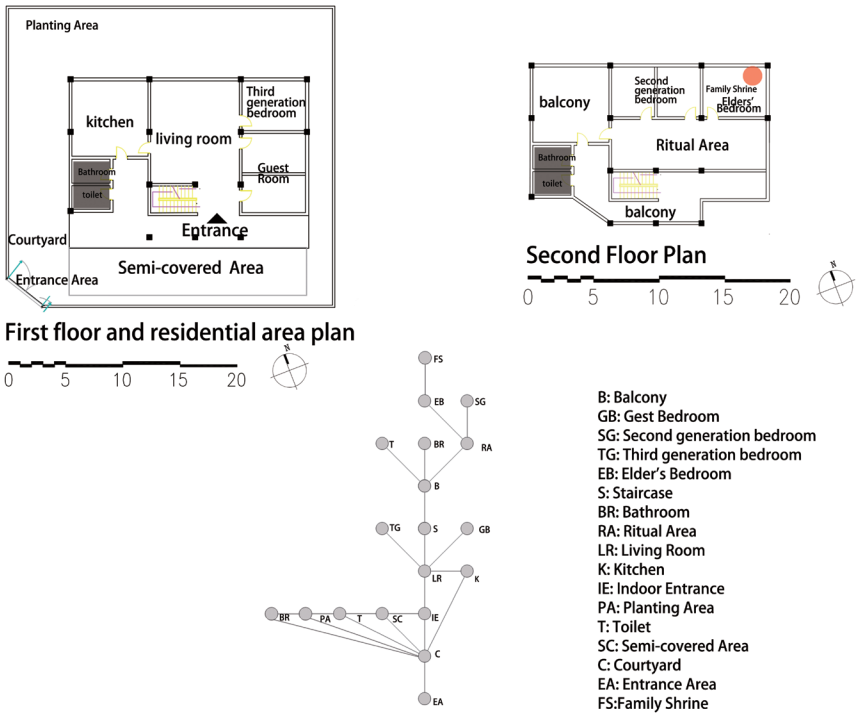


Figure S4. *Continued*

(*Cont'd...*)

C

mansailong03



D

mansailong04

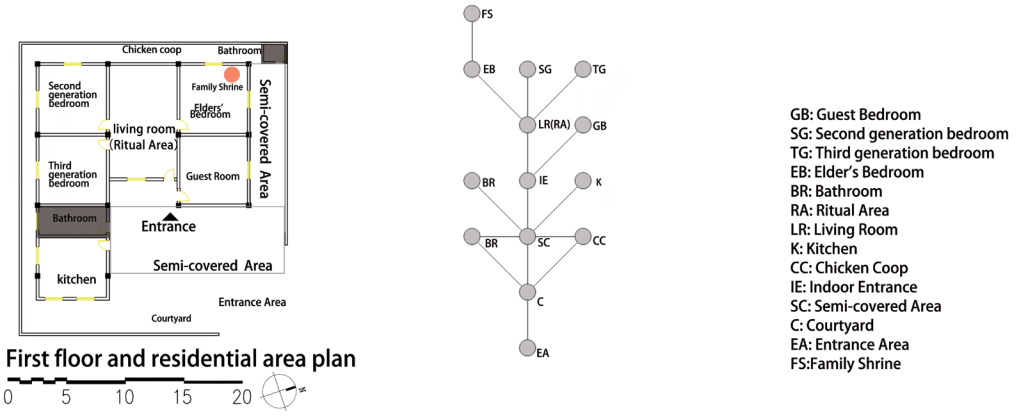


Figure S5. Floor plans and J-graphs for Mansailong cases. (A) Mansailong 01; (B) Mansailong 02; (C) Mansailong 03; (D) Mansailong 04. Source: Drawings by the authors

(ii) Manxiu village cases

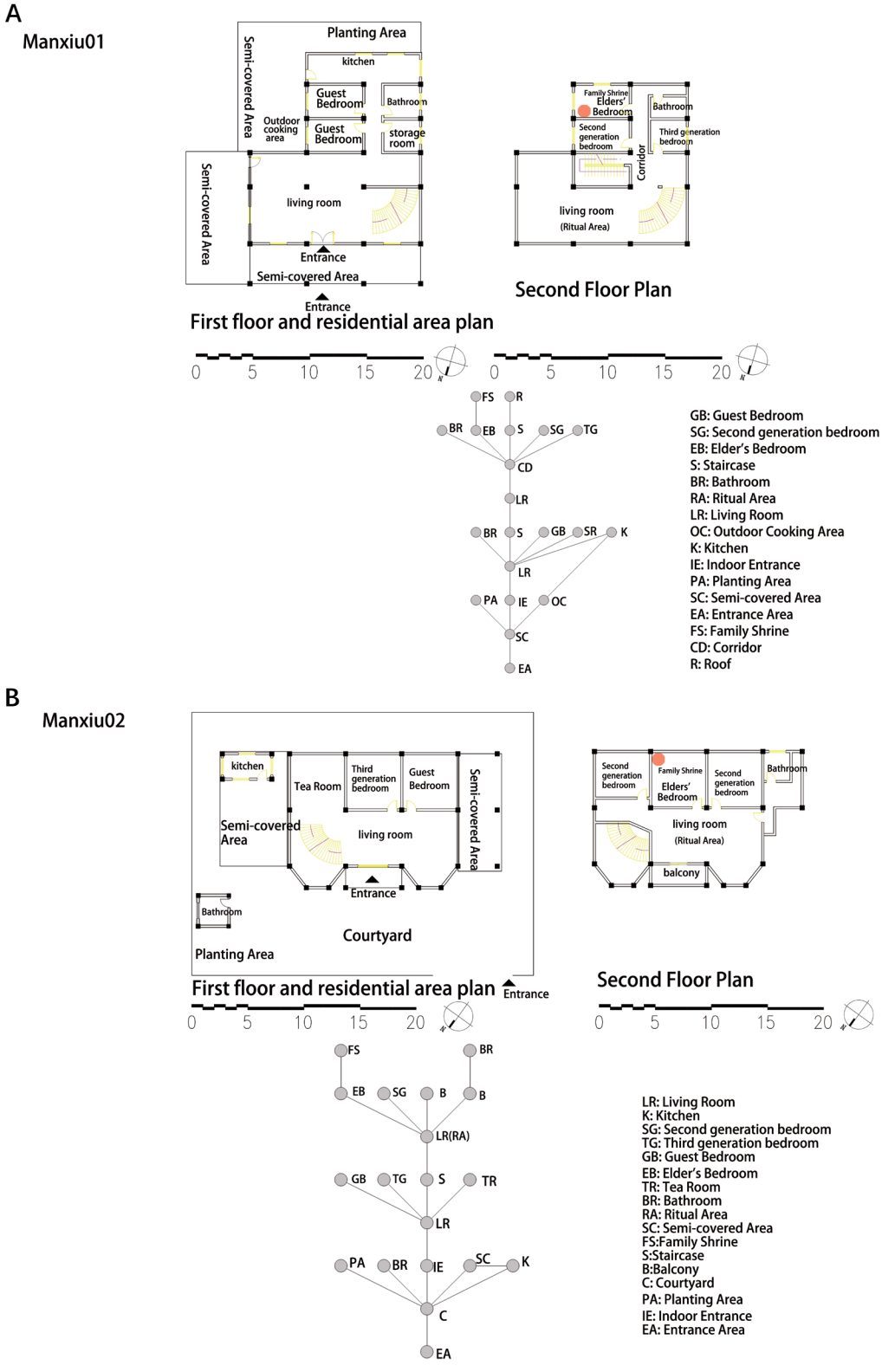


Figure S4. *Continued*

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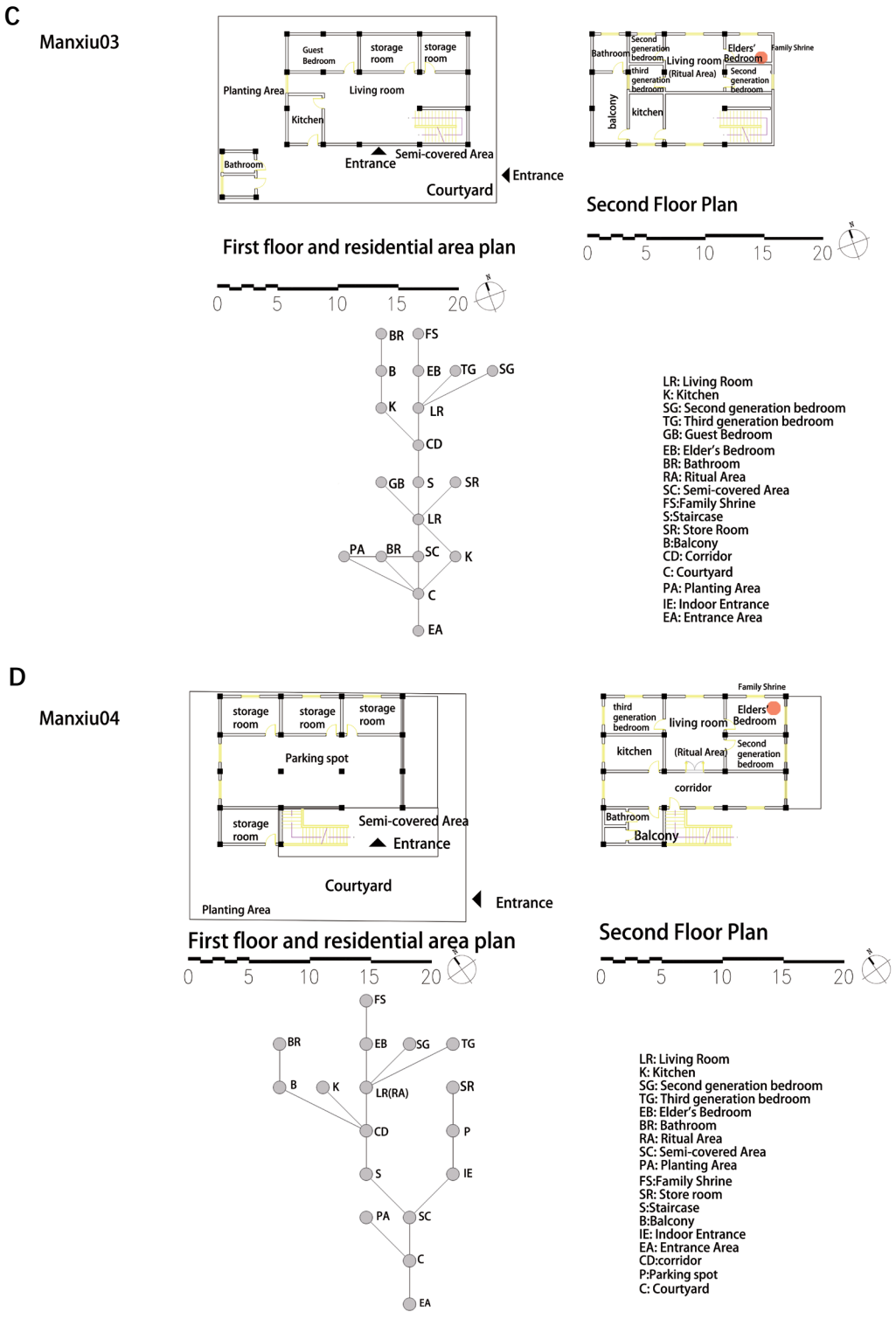


Figure S6. Floor plans and J-graphs for Manxiu cases. (A) Manxiu 01; (B) Manxiu 02; (C) Manxiu 03; (D) Manxiu 04. Source: Drawings by the authors

S2. Spatial layouts and J-graphs for traditional baselines

This supplementary section presents the floor plans and J-Graphs for the two traditional timber stilt houses used as diachronic comparative baselines in this study. These include the Pure Prototype, which represents the classic traditional form, and the Transitional Prototype, which illustrates an early-stage adaptation integrating modern functional demands.

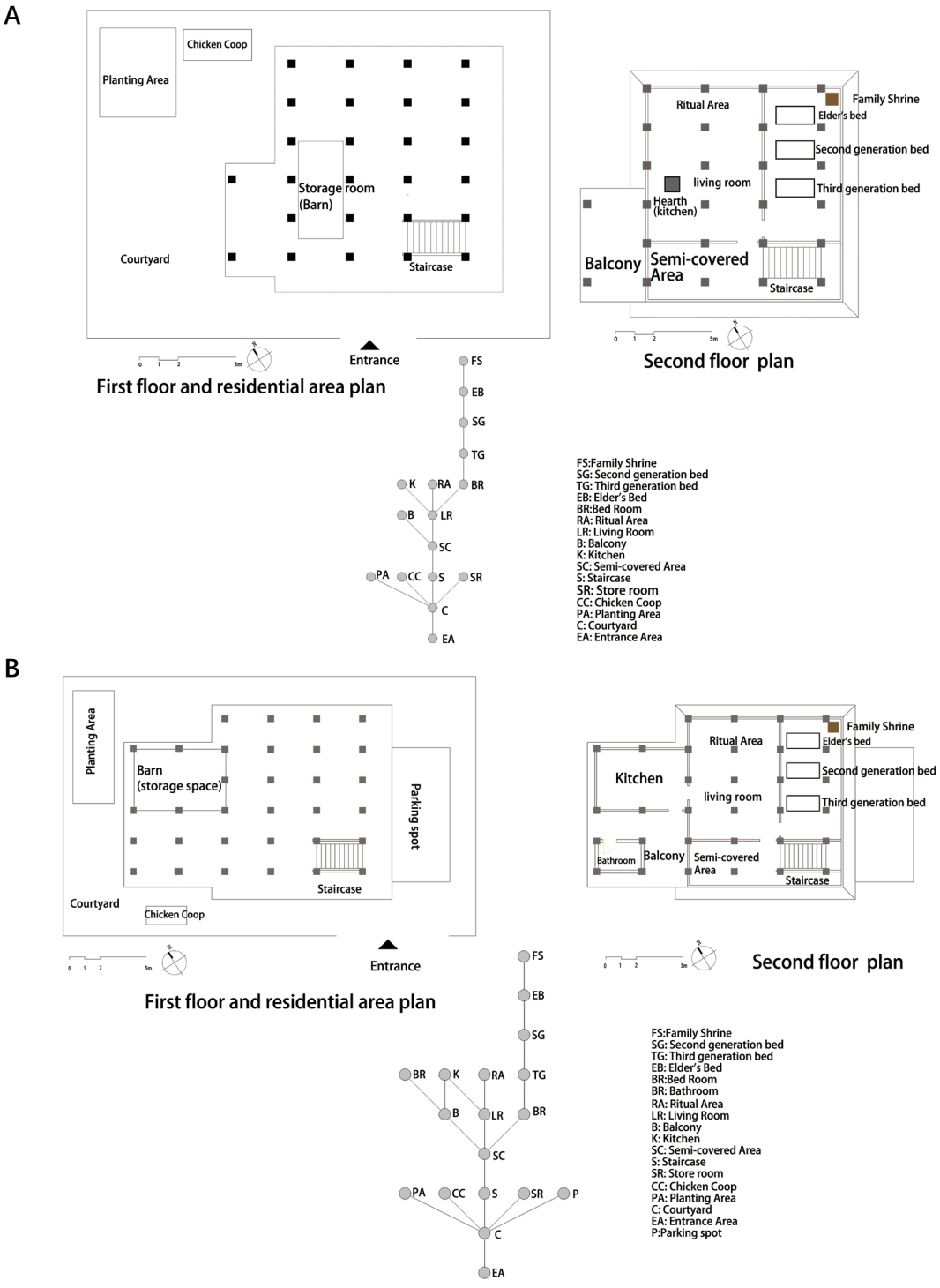


Figure S7. Floor plans and J-graphs for traditional baselines. (A) Pure Prototype; (B) Transitional Prototype. Source: Drawings by the authors