Appendix I: Comments on Moshuriv I and Petreni

The following provides a detailed examination of the results of Visibility Graph Analysis of the plan maps of Moshuriv I and Petreni.

General Comment

A very consistent pattern has been found across the seven measures for each site.

Moshuriv I

Inner Area (with three buildings) + a mixture of Private and Intermediate areas (Connectivity), Complex, and Intermediate movement (Visual Entropy) OR dominance of Intermediate Permeability (all 3 × Visual Integration), Intermediate Movement (Mean Depth, Relative Entropy).

Eastern half of Inter-Circuit zone (no buildings) + mix of Public and Intermediate areas (Connectivity), Intermediate movement (Visual Entropy), High Permeability (all 3 × Visual Integration), Easy Movement (Mean Depth, Relative Entropy).

Western half of Inter-Circuit zone (only one Assembly House) + mix of Private and Intermediate areas (Connectivity), Complex Movement (Visual Entropy), Intermediate Permeability (all 3 × Visual Integration), Intermediate Movement (Mean Depth, Relative Entropy).

Outer Zone + only Public Areas (Connectivity), mix of Complex and Intermediate Movement (Visual Entropy), Intermediate Permeability (all 3 × Visual Integration) but Low Permeability near buildings), mostly Intermediate Movement but Circumscribed Movement near buildings (Mean Depth) and Complex Movement (Relative Entropy).

Meaning: Relatively little differentiation between zones from in to out! (unusual); strong contrast between E half and W half of Inter-Circuit zone, even though very little architectural difference (only one Assembly House in W half!); social significance of E–W location of buildings.

Petreni: A Very Highly Structured Plan Comprising Seven Circuits

Inner Area (one Assembly House + six or seven houses) + Intermediate Areas > Public Areas (Connectivity), more Simple Movement than anywhere else (Visual Entropy), only High Permeability on whole plan (all 3 × Visual Integration), only area of Easy Movement in whole plan (Mean Depth) and Intermediate Movement > Simple Movement (Relative Entropy).

Rest of plan: middle circuits + more Private Areas than in Inner Area (Connectivity); grading to outer edge of plan in most measures (domination by Complex Movement grading to Intermediate Movement (Visual Entropy); Intermediate Permeability grading to High Permeability (all 3 × Visual Integration), Intermediate Movement grading to Circumscribed Movement (or Complex Movement) in the outer zone (Mean Depth/Relative Entropy).

Meaning: Central area + much more freedom of movement than outside, even though + one Assembly House and several houses; graded movement is a key structural feature of the plan, which must have given social significance to where people lived.

Comparisons with Nebelivka Models (Permanent Large-Scale (PLS), Distributed Governance (DG), Assembly (ASS), and Pilgrimage (PIL) Models)

Moshuriv: has no close similarities with any of the stages of any of the four models (!!) BUT the Inner Open Area is still demarcated.

Petreni: the only close similarities are with the latest stage in the models for some of the analyses:

- Connectivity and Visual Integration (cf. PLS Stage 5, ASS, DG, and PIL Stage 3)

- Mean Depth (parallels with PLS Stage 5 and PIL Stage 3 — only general similarities with ASS Stage 3 and DG Stage 3)

- Visual Entropy is actually opposite the Nebelivka models, possibly because Petreni is smaller in scale and has fewer buildings