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Perry Iverson* (piverson@math.lsu.edu) and **Guoli Ding**, Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803. *A Hall-type result for internally 4-connected projective graphs.*

Hall showed that a 3-connected graph is planar if and only if it has no $K_{3,3}$ minor and is not isomorphic to K_5 . We prove a similar result for internally 4-connected projective graphs. In previous work, we determined the 23 minor-minimal internally 4-connected non-projective graphs, \mathcal{A}'_4 . We first discuss a new splitter-type result for internally 4-connected graphs. Then we use it to find a set $S \subseteq \mathcal{A}'_4$ of minimum size so that an internally 4-connected graph is projective if and only if it is S -free and is not isomorphic to a finite number of exception graphs. (Received December 04, 2012)