

Appendix B

Airport Moving Map Screenshots

B.1 Building Labels at Frankfurt/Main

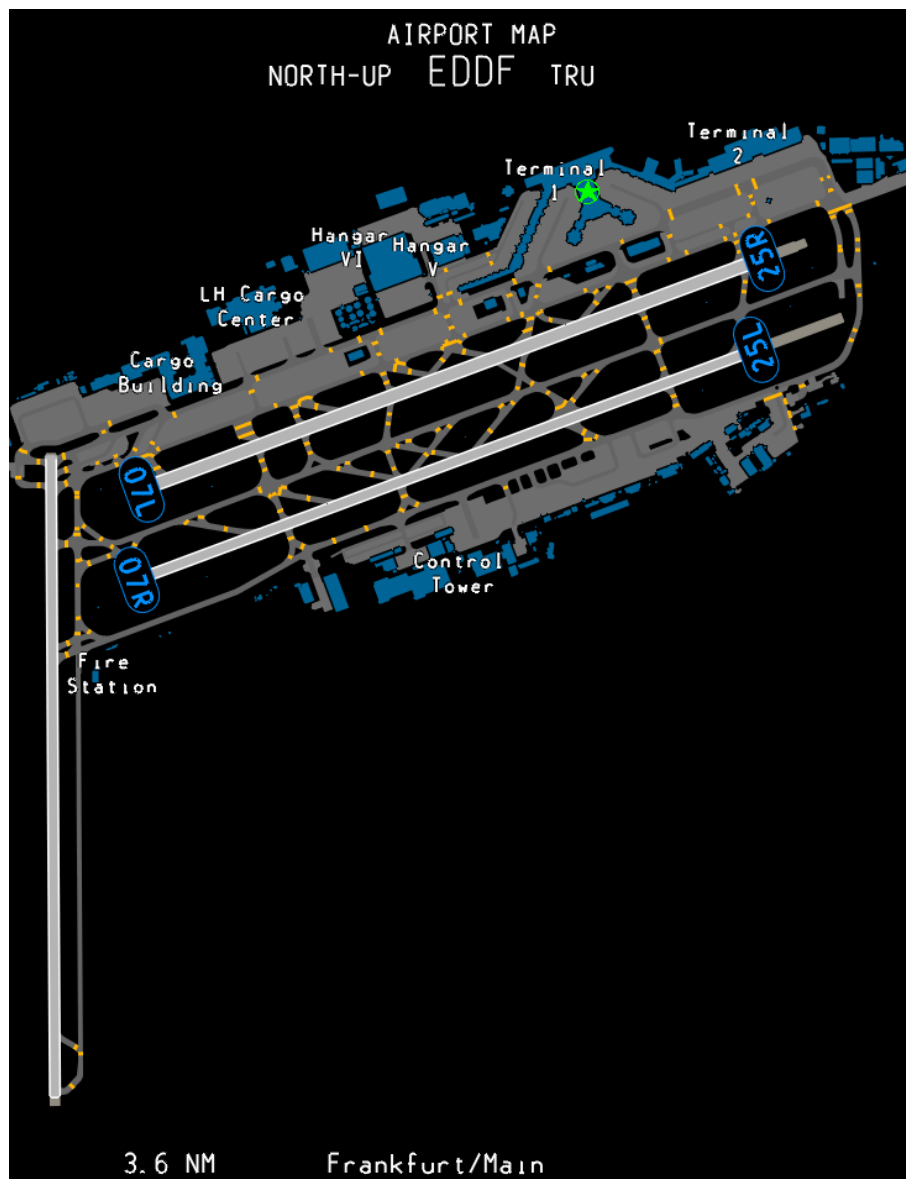


Figure B.1: Building Labels at Frankfurt/Main at the 'all airport' zoom level. Only important buildings like the tower and a fire station, the terminals, and the largest cargo hangars are named. All labels are placed such that they do not overlap in any map orientation.

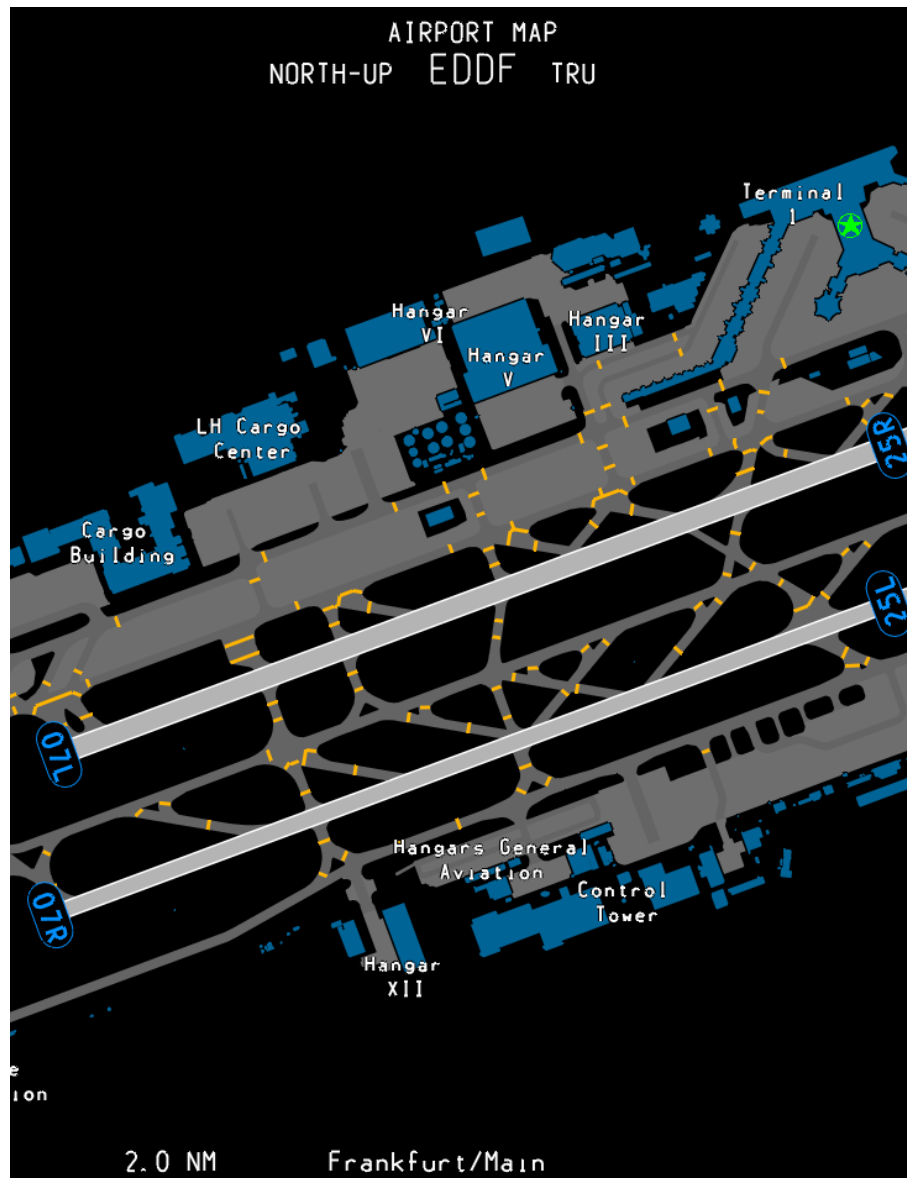


Figure B.2: Building Labels at Frankfurt/Main at the 2.0nm zoom level. Additional hangar labels have been added at this zoom level due to more available map space.

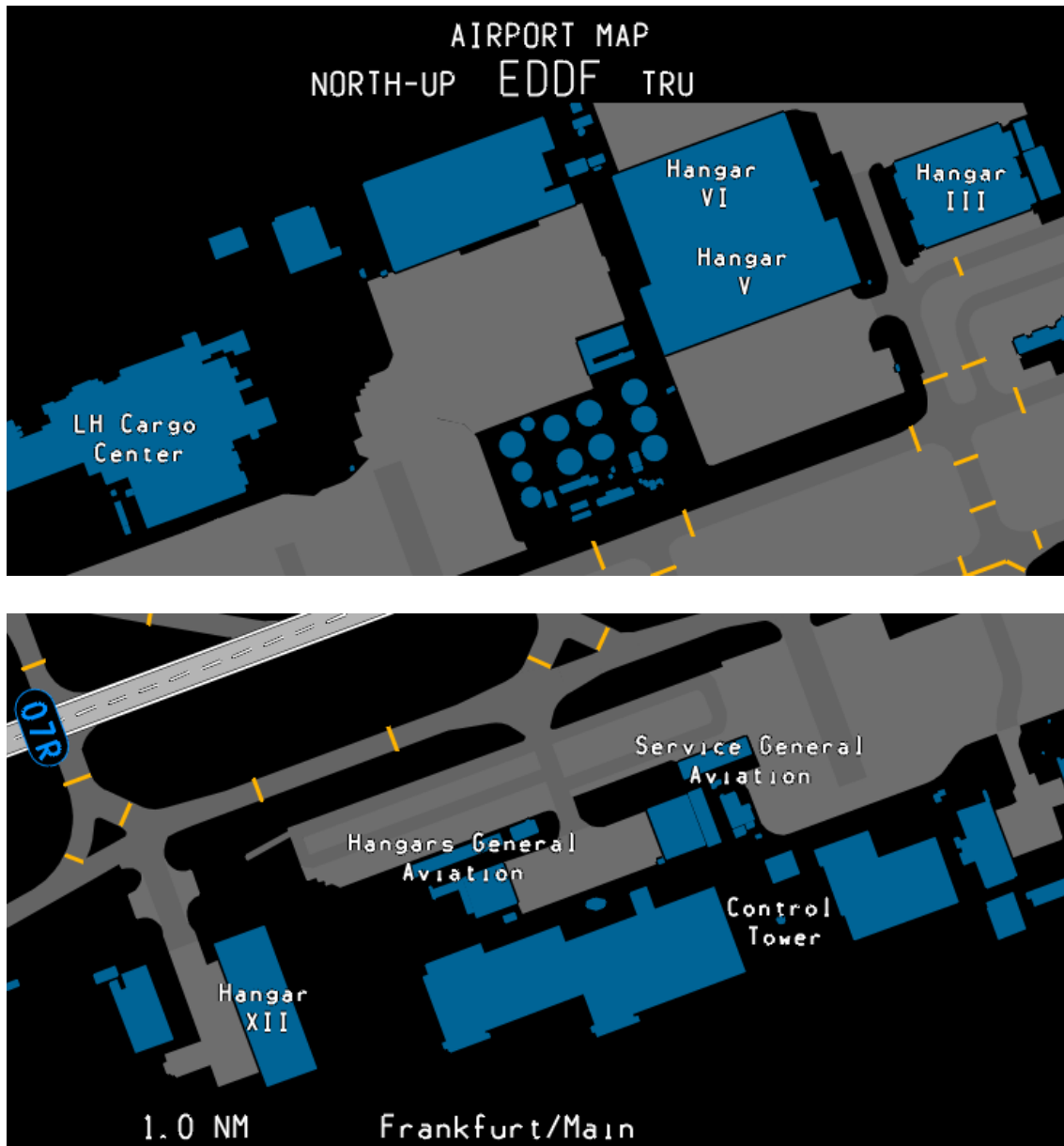


Figure B.3: Building Labels at Frankfurt/Main at the 1.0nm zoom level. One more label have been placed on the southern general aviation apron. The remaining labels could be moved to the center of their buildings to improve unambiguity without generating new conflicts.

B.2 Building Labels at Kansas City Intl.



Figure B.4: Building Labels at Kansas City at the 'all airport' zoom level. Only important buildings like the tower and two fire station, the terminals, and the largest cargo hangars are marked.



Figure B.5: Building Labels at Kansas City at the 2.0nm zoom level. Additional cargo hangars in the north of the airport could be labeled, and the label of “Terminal C” could be moved to the center of the terminal building (or patio).



Figure B.6: Building Labels at Kansas City at the 1.0nm zoom level. The label for the “US Post Office” has been added at this zoom level.

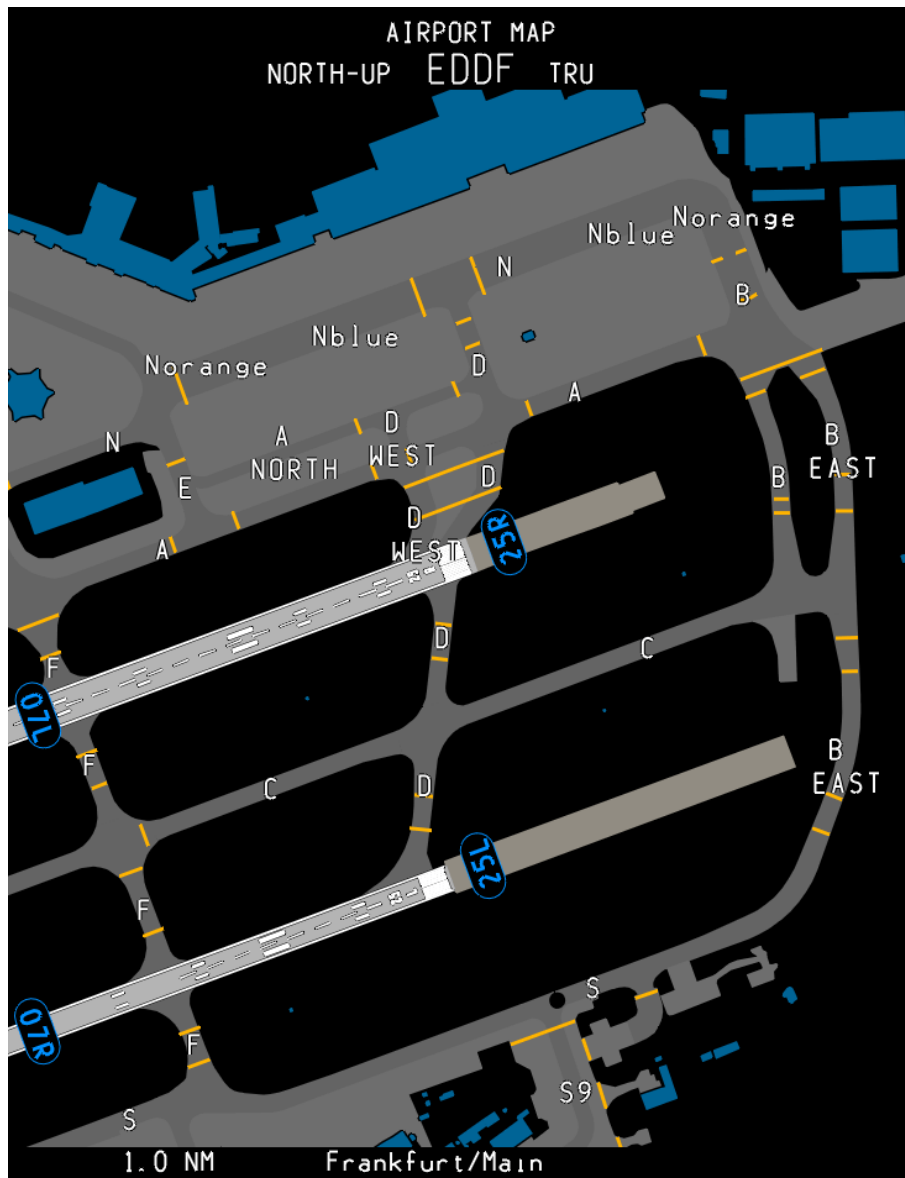


Figure B.8: Taxiway Labels at Frankfurt/Main at the 1.0nm zoom level. All taxiway labels can be placed at this zoom level, even large ones like “Nblue” or “A-NORTH”.

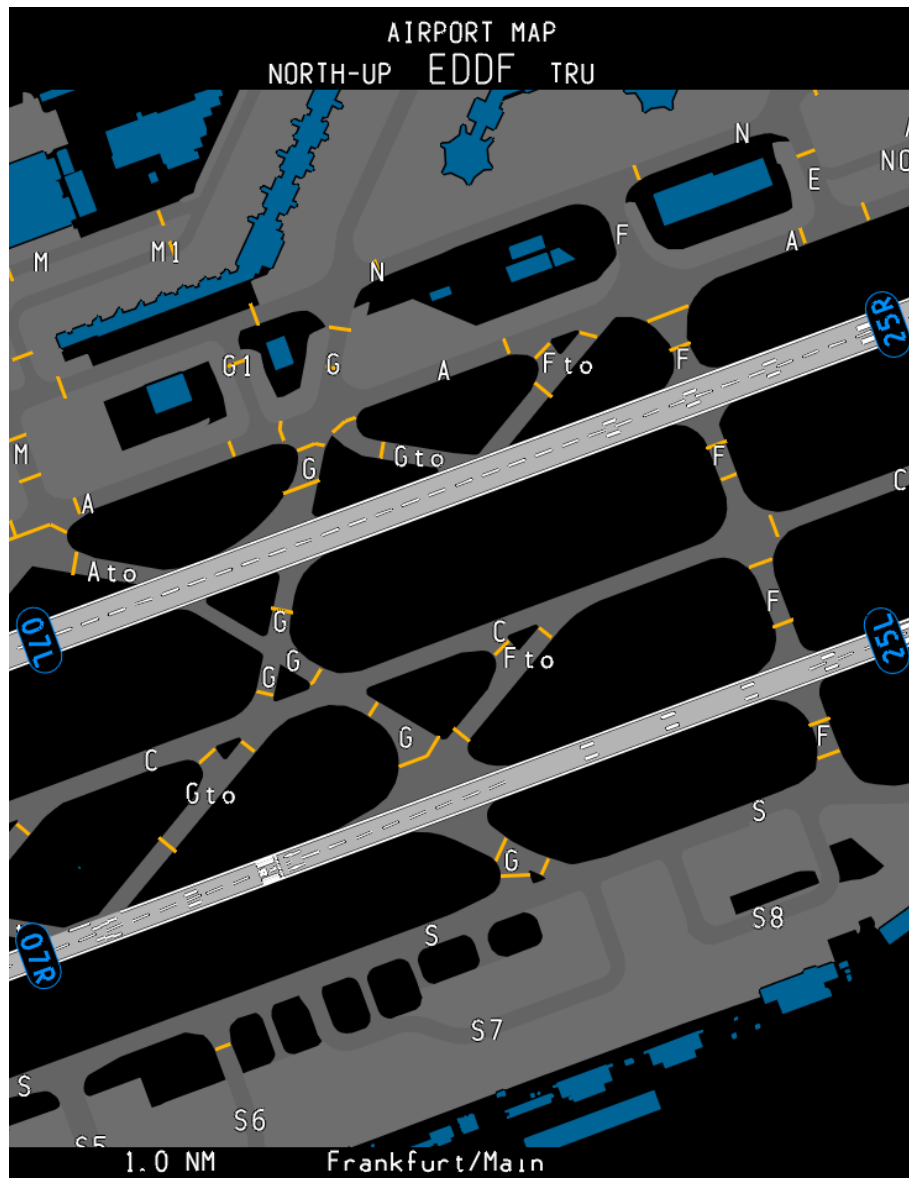


Figure B.9: Taxiway Labels at Frankfurt/Main at the 1.0nm zoom level. Additional labels for long taxiways like “C” or “S” have been added such that enough labels are always visible within the field-of-view. All labels have a very good legibility and are placed unambiguously.



Figure B.10: Taxiway Labels at Frankfurt/Main at the 0.5nm zoom level. No significant changes occur when switching to this zoom range. Most taxiway labels are located completely within their taxiway geometry, minimizing conflicts with parking labels which are normally also displayed at this zoom level.

B.4 Parking Labels at Frankfurt/Main

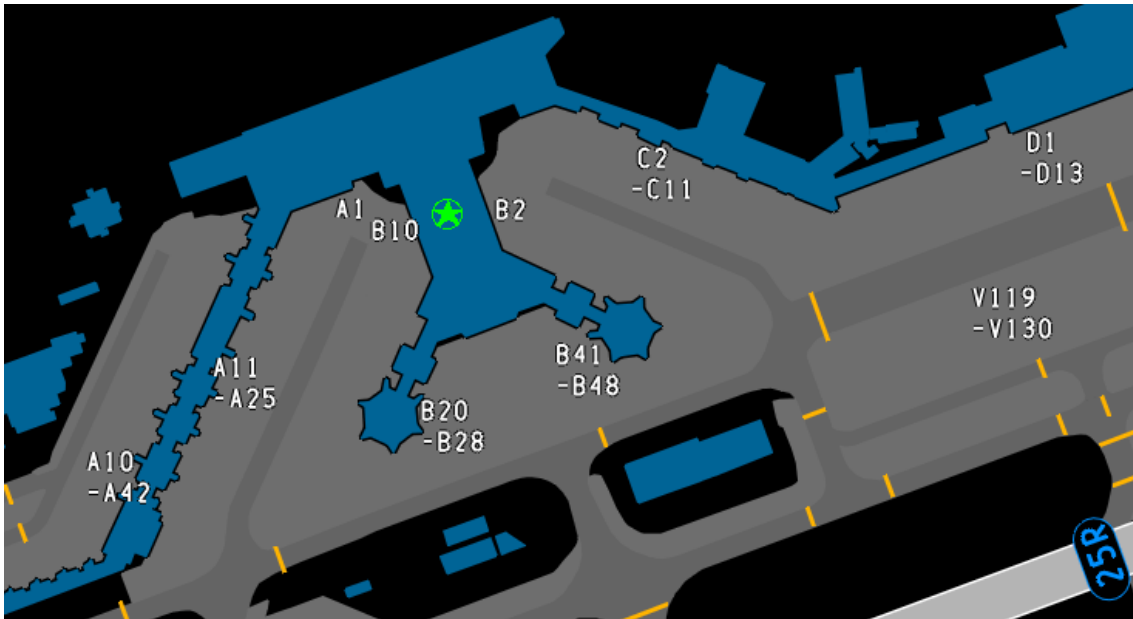


Figure B.11: Parking Labels at Frankfurt/Main at the 1.0nm zoom level. Labels for groups of stands are derived from parking containers, thus providing a good overview of all parking stands without cluttering.

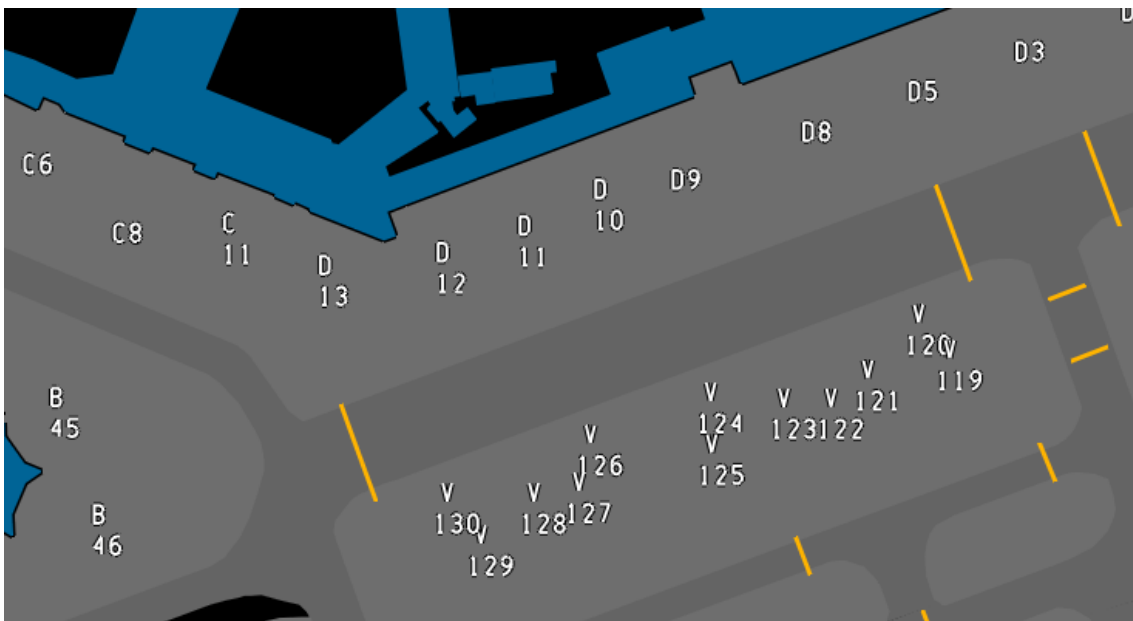


Figure B.12: Parking Labels at Frankfurt/Main at the 0.5nm zoom level. Regular parking stands are labeled at this zoom level. Sub-stands like “D10A” are suppressed. Smaller stand areas with dense label placement like the group “V119 - V130” can be labeled completely but are looking unsteady.

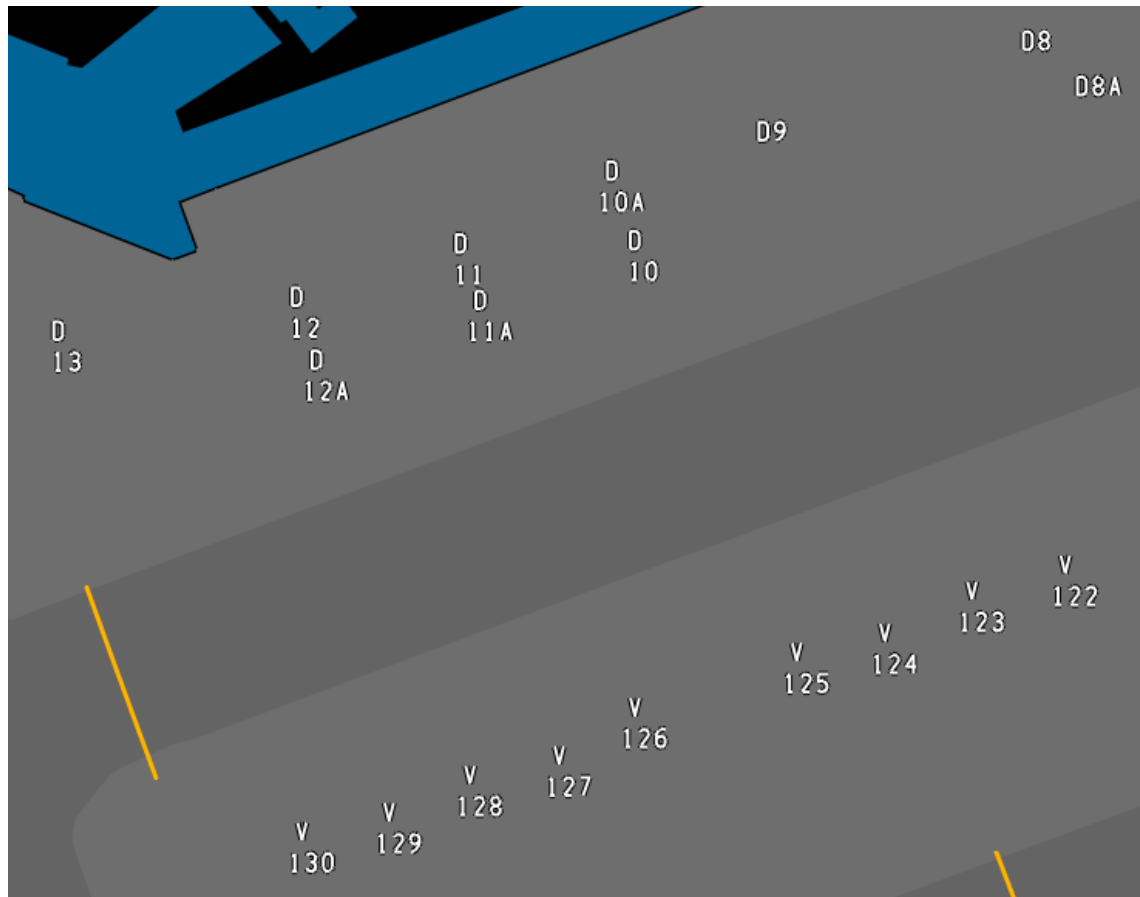


Figure B.13: Parking Labels at Frankfurt/Main at the 0.25nm zoom level. Full details of parking stands including sub-elements such as “D10” and “D10A” are displayed. The group “V119 - V130” can be labeled nicely at this zoom level as well.

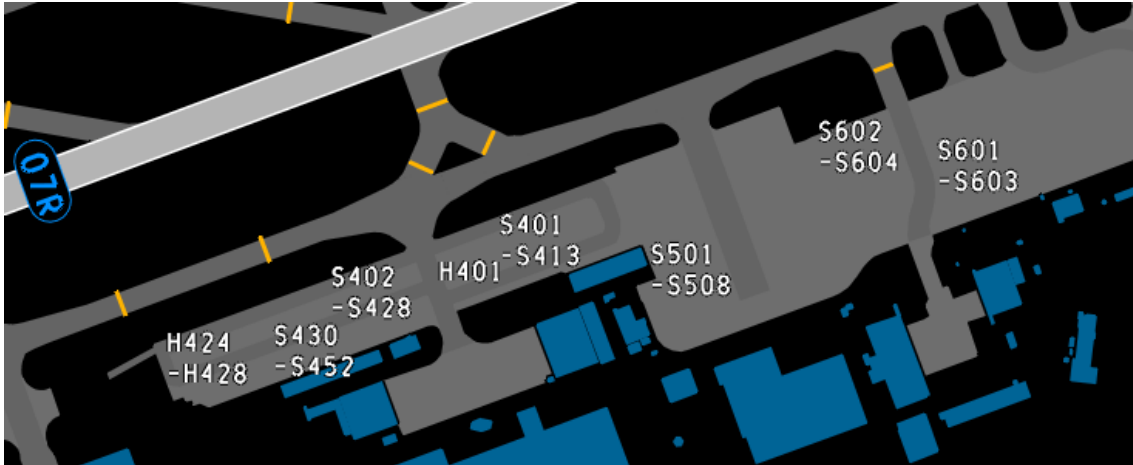


Figure B.14: Parking Labels at Frankfurt/Main at the 1.0nm zoom level. Only groups of stand areas are labeled, providing a good overview of all parking stands without cluttering.

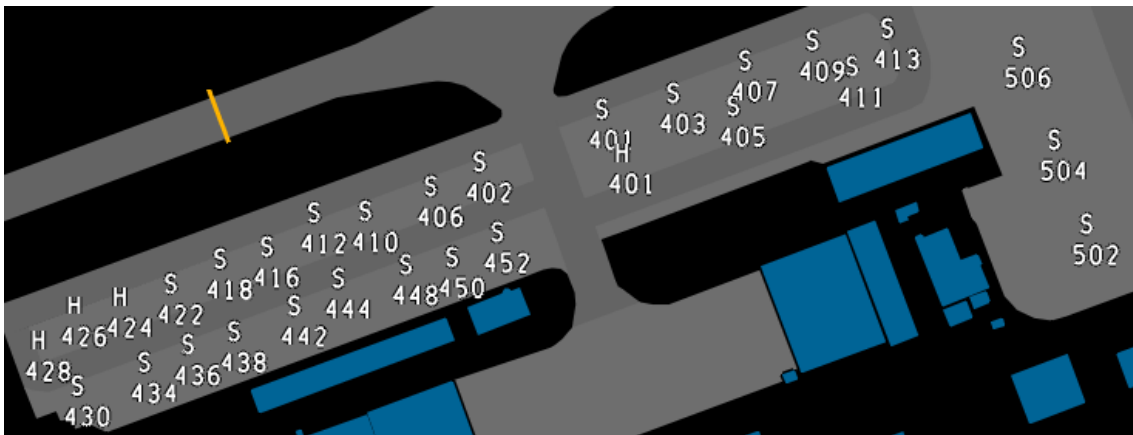


Figure B.15: Parking Labels at Frankfurt/Main at the 0.5nm zoom level. Regular parking stands are labeled at this zoom level, but groups of small parking stands can look packed. Single labels like “S432” cannot be placed.

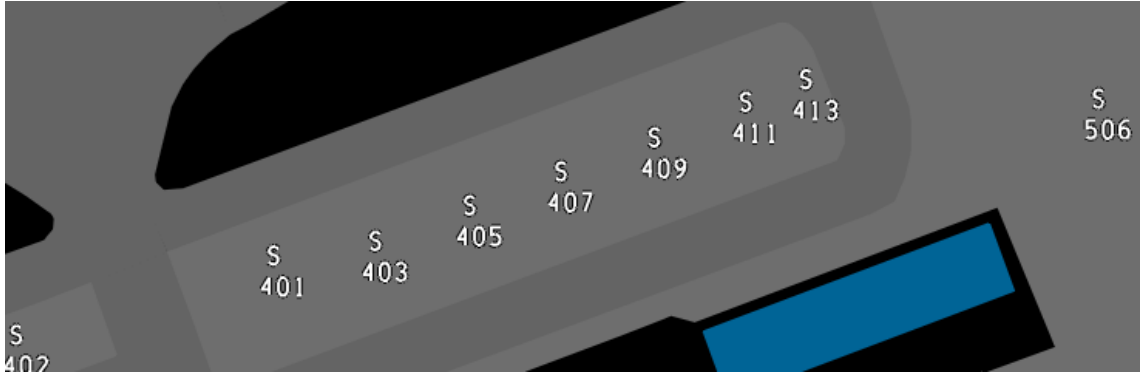


Figure B.16: Parking Labels at Frankfurt/Main at the 0.25nm zoom level. Even densest groups of parking stands in the general aviation area of the airport can be labeled nicely at this zoom level.

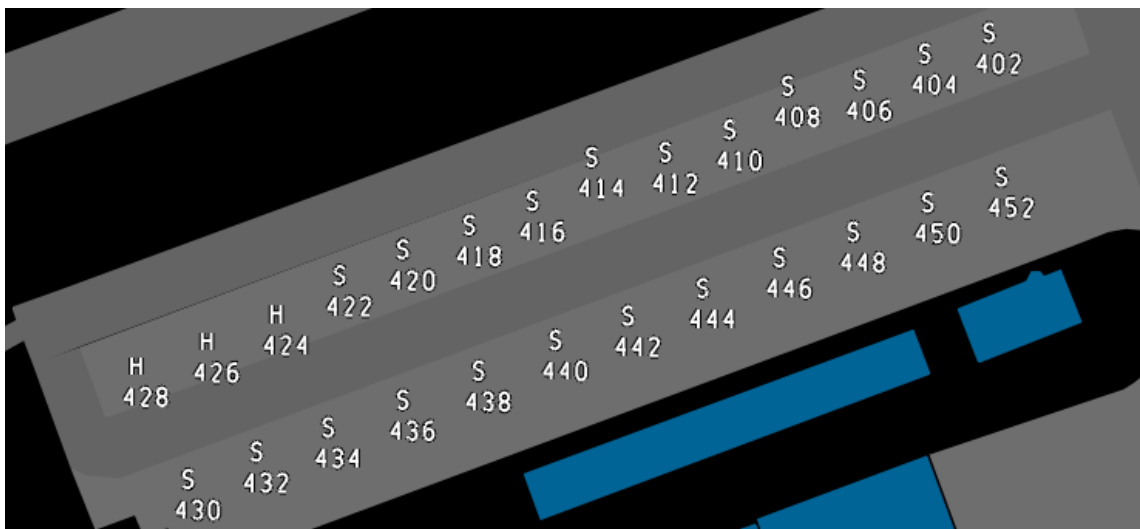


Figure B.17: Parking Labels at Frankfurt/Main at the 0.25nm zoom level. Even densest groups of parking stands in the general aviation area of the airport can be labeled nicely at this zoom level.

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Lebenslauf

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