

CHAPTER 425 SECONDARY STREET ACCEPTANCE CONNECTIVITY STAKEHOLDER ADVISORY GROUP

September 23, 2022

Agenda

- Welcome and Introductions
 - Name and Organization for each Advisory Group Member
- Group Chair Selection
- Electronic Meetings Policy
- Legislation (Chapter 425 of the 2022 Acts of Assembly)
 - What it says
 - What needs to be done
 - Deadlines
- SSAR Connectivity
 - History
 - Current requirements
 - Exceptions
- Connectivity Research
 - Block length
 - Intersection spacing



Welcome, Introductions, and Committee Organization

- Required Stakeholder Advisory Group Membership
 - Virginia Department of Transportation
 - Local Government
 - Environmental Advocacy
 - Residential and Commercial Land Development and Construction Industry
- Committee Chair
- Electronic Meetings Policy





CHAPTER 425 SECONDARY STREET ACCEPTANCE CONNECTIVITY

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Chapter 425

- Amends connectivity provision of § 33.2-334
 - ...the regulations shall include (i) requirements to ensure the connectivity of highway and pedestrian networks with the existing and future transportation network, <u>provided that such provisions shall</u> <u>include flexibility to limit the number of connections to adjacent property or highway networks as</u> <u>deemed appropriate</u>...
- Amendment of regulations
 - Stakeholder advisory group provides recommendations no later than January 1, 2023
 - Presented to Commonwealth Transportation Board for adoption prior to June 1, 2023
- Critical Item for Consideration by stakeholder advisory group
 - Flexibility to limit connections "as deemed appropriate"

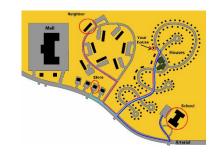


Secondary Street Acceptance Requirements Connectivity

- Purpose of Connectivity
 - Redundant vehicle routes
 - Alternate routes for emergency response vehicles
 - More direct connections for pedestrians/bicyclists



- Connect to existing publicly maintained road
- Connect to existing stub outs
- Multiple connections in multiple directions
- Reasonably direct pedestrian movement
- Connectivity index (link/node ratio) based on area type (1.6/1.4/none)







Secondary Street Acceptance Requirements Connectivity

- Current Connectivity Requirements (2011 version)
 - Connect to existing publicly maintained road
 - No exceptions (but municipal street counts)
 - Connect to existing stub outs
 - Unsafe connection exception (approved by District Engineer)
 - Multiple connections in multiple directions (stub out or to another street)
 - Adjoining property built out and unlikely to redevelop in 20 years
 - Incompatible use (residential, retail, and office not incompatible)
 - No reasonable connection possible (terrain, conservation easement, federal property, etc)
 - Additional connections based upon trip generation volume (+1 every 2000 trips)
 - Adjoining property built out and unlikely to redevelop in 20 years
 - Incompatible use (residential, retail, and office not incompatible)
 - No reasonable connection possible (terrain, conservation easement, federal property, etc)
 - For FAR 0.4 or 8 DU/acre or higher, number of connections contrary to public interest
 - Other connectivity exception based on Access Management



Connectivity Research

- Overall
 - No study on "how much connectivity is too much"
 - Most studies encourage more connectivity
- Potential Benefits of Increased Connectivity
 - Greater emergency response area
 - Distribute traffic across more streets
 - Promote active transportation (more direct routes)
 - Tie community together
- Potential Negatives of Increased Connectivity
 - Cut-through traffic
 - Cul-de-sac lots have greater consumer value
 - Impervious surface area (stormwater-related)



Connectivity Research (part 2)

- Block Length
 - Shorter blocks tend to promote pedestrian activity
 - Block lengths greater than 600 ft tend be unfriendly to pedestrians
- Intersection Spacing (Access Management)
 - Local streets can have fairly dense connection spacing (200 ft)
 - Dense network of signalized intersections can cause issues
- Hybrid Layouts (Fused Grid, etc)
 - Some connections bike/ped only
 - Does not provide as many alternative routes for motorized vehicles
 - Limits flexibility for emergency response
 - Concentrates traffic more than grid
 - Provide pedestrian connectivity
 - Encourages active transportation by providing links in and between neighborhoods





CHAPTER 425, 2022 ACTS OF ASSEMBLY STAKEHOLDER ADVISORY GROUP