

Prototypical Lid Diagrams

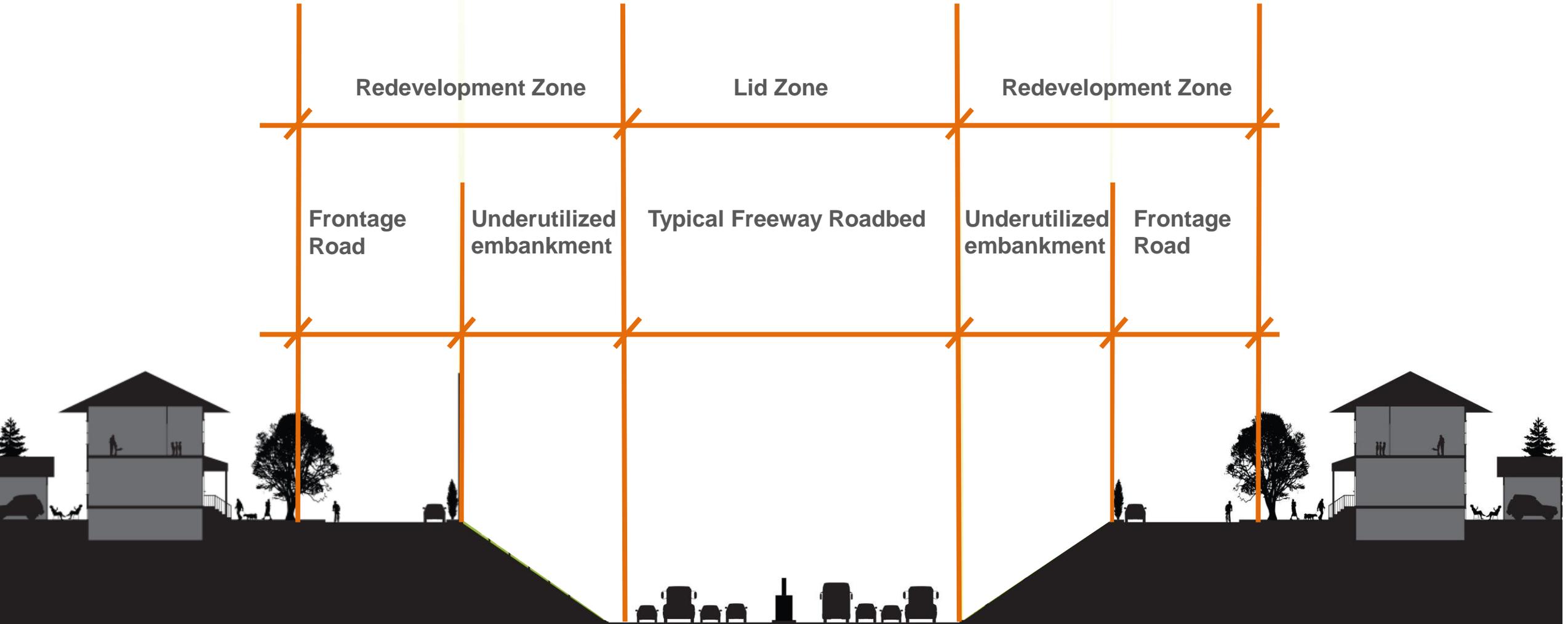
Urban Systems

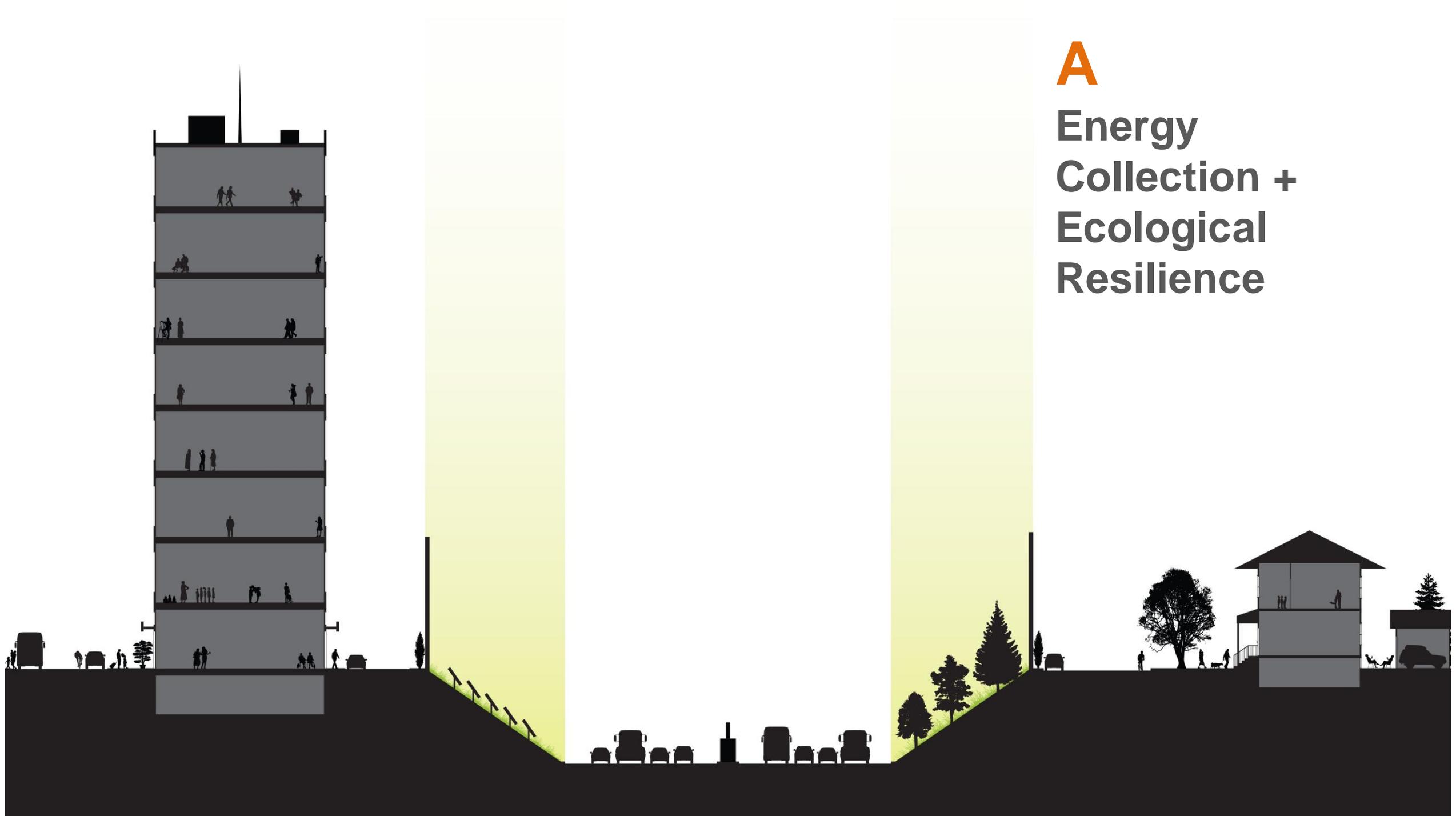
*Minnesota Department of
Transportation TAP*

Metropolitan Design Center
University of Minnesota

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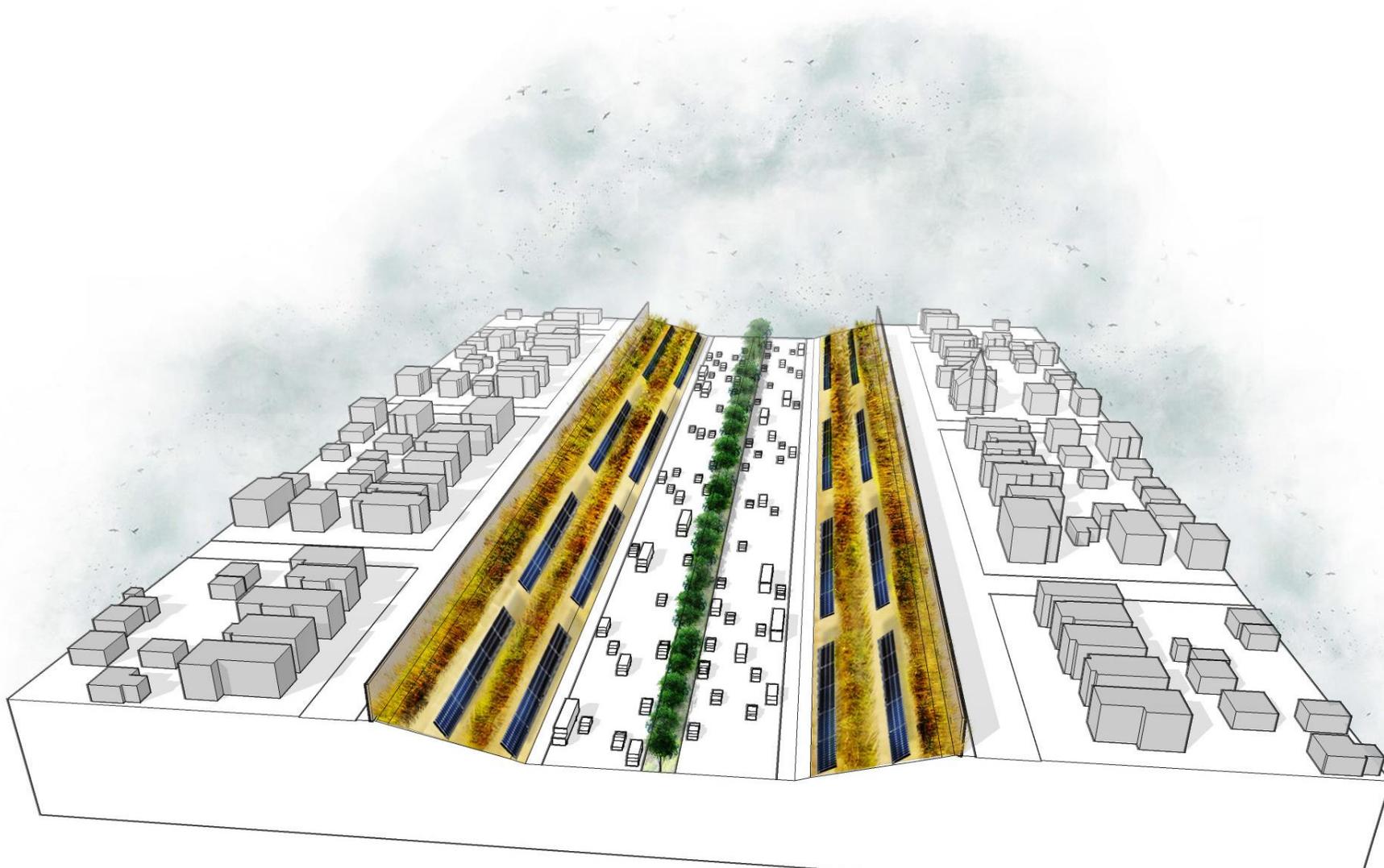
Typical Freeway Section





A

**Energy
Collection +
Ecological
Resilience**



Provide Energy + Wildlife Habitat

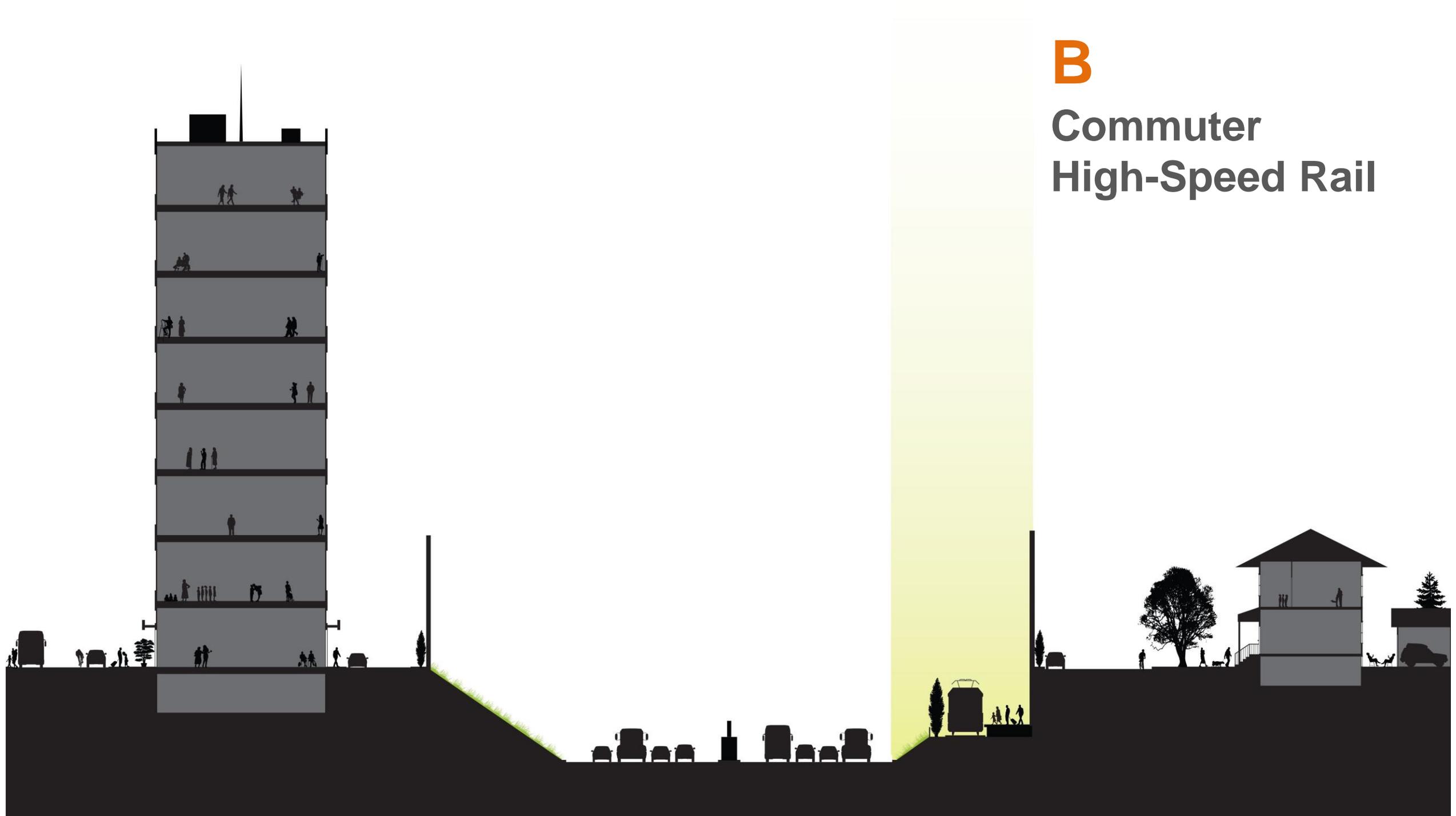
Utilize slopes as opportunities for providing energy with solar or wind harvesting

Filter pollutants from stormwater runoff with native grasses and trees

Assist migrations by providing vegetated structure and pollinating plants

B

Commuter High-Speed Rail



Maximize Transportation + Catalyze Growth

Introduce commuter rail or BRT to emphasize the movement of people (not cars) along freeways

Plug commuter rail or BRT into bridges at key locations

Bridges catalyze future lid opportunities as multi-modal stations



C

Simple Freeway Lid



Reconnect Neighborhoods + Amenity Development

Provide place for recreation,
gathering, and celebration

Lid contains noise pollution

Added vegetation
sequesters
carbon and scrubs
particulates



D

Bridge with one Story Buildings



Connect Neighborhoods + Provide Continuity of Commercial Streets

Introduce Simple bridge structures that support one story commercial buildings.

Bridges as building catalyze neighborhoods while providing greater access to community needs.



E

Developed Freeway Lid



Restore Neighborhoods + Economic Development

Utilize embankments as
developable parcels

Parking in lid provides
revenue
stream to pay for construction

New retail and office space
pro-
vides jobs and economic
vitality



F

Developed
Freeway Lid -
Wide Median



Create Nodes + Economic Development

Open land between highways provides additional opportunity for development

Create new dense lid districts to grow nodes of activity at massive highway intersections

Parking in lid provides revenue stream to pay for construction

New retail and office space provides jobs and economic vitality



G

Organize Transit + Link Communities



Organize Transit + Link Communities

Coupling mass transit (train or BRT) with freeway lid maximizes transit capacity and job opportunities

Leverage increased land values and property taxes to structurally improve surrounding communities

Lid investment provides resources for job creation, community development, and regional connectivity

