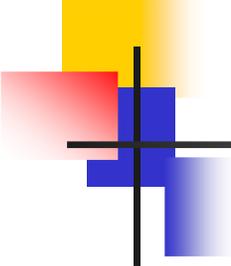
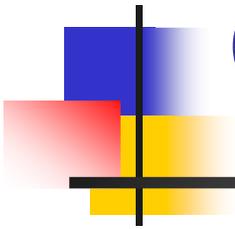


Mobility Photos: Presentation Overview



- Driveway Spacing and/or Consolidation
- Corner Clearance
- Signal Spacing
- Median Treatments
- Acceleration and Deceleration Lanes
- Auxiliary Lanes
- Freeway Frontage Roads
- Arterial Frontage Roads
- Summary

Driveway Spacing and/or Consolidation



Cross Access



Cross Access Desired



Cross Access



Cross Access



Major Shared Access Point for Big Box



Major and Minor Access Points for Big Box and Monument Sign



Cross Access



Cross Access



Shared Access Retrofit



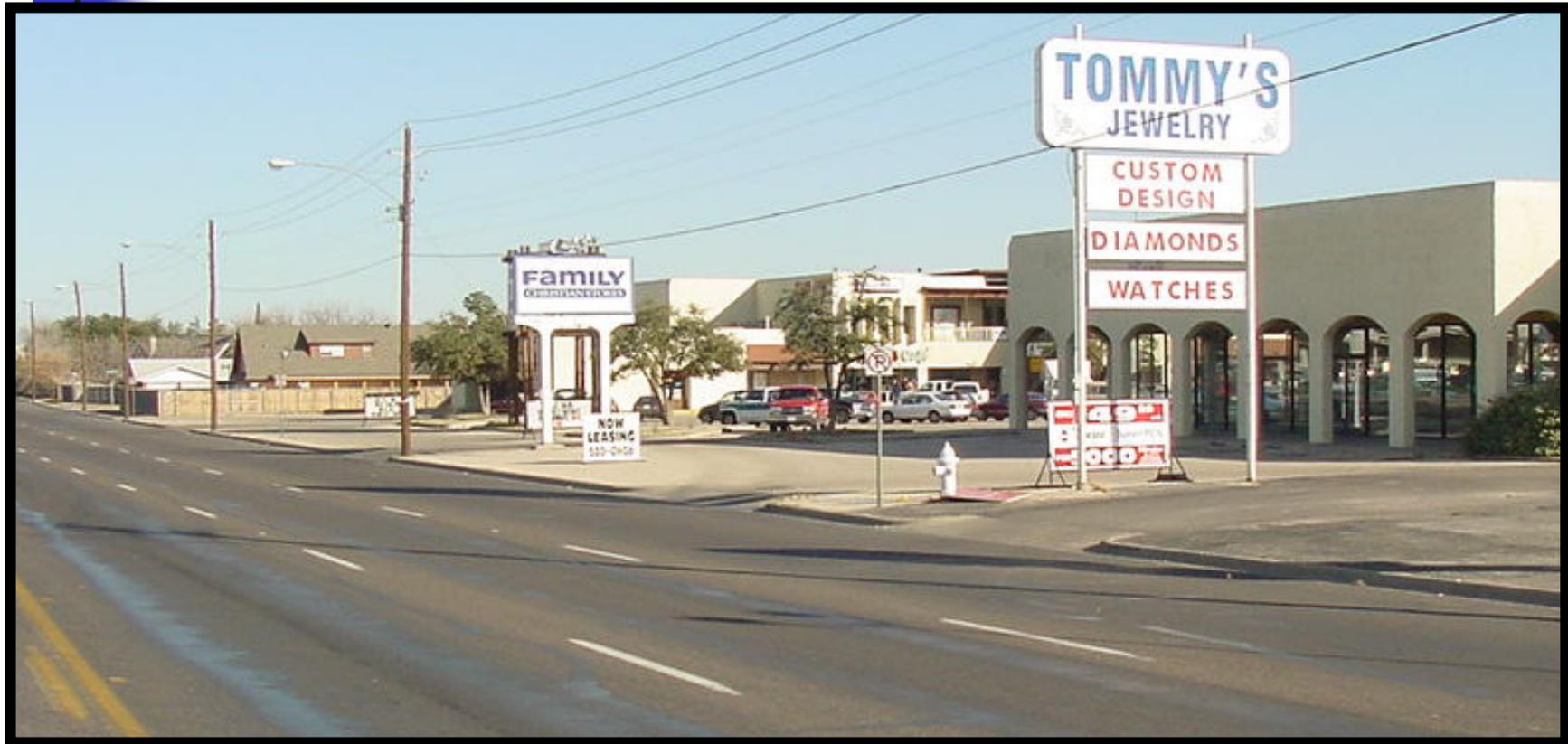
Limited Driveways and Monument Signs



Big Box with Limited Access



Potential Drive Consolidation / Cross Access



- SH 191/42nd St – Odessa

No Direct Access Big Box Retail



- SH 191/42nd St – Odessa

Side Access for Big Box Retail



- SH 191/42nd St @ Preston Smith Rd - Odessa

Major Shared Access Point



Single Driveway Access for Fast Food



Fast Food – Single Access Point



Fast Food with 3 Access Points



Undesirable Spacing

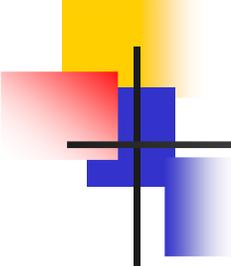


Build It and They Will Still Come!



Poor Driveway Spacing





Better Driveway Spacing



What Are We Trying to Fix/Avoid?



- Multiple Access Points per Business

What Are We Trying to Fix/Avoid?



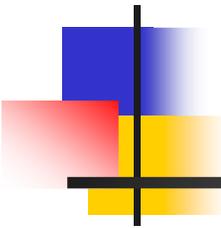
- Reduce Conflict Points
- Increase Driveway Spacing

Undesirable Driveway Spacing



Fast Food Restaurant With Limited Access





Corner Clearance

Corner Clearance



Corner Clearance



Corner Clearance



Corner Clearance



Corner Clearance



Corner Clearance



Corner Clearance / No Direct Access



Downstream Left-Turn Queue Backing Up Into Intersection



TWLTL Conflicting Uses/ Inappropriate Median Cut



Corner Clearances



Corner Clearance



Corner Clearance



Corner Clearance / Raised Median



Corner Clearance



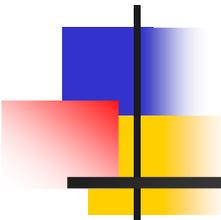
What Are We Trying to Fix/Avoid?



- Closed Access Points
- Increase Driveway Spacing

Closed Access





Signal Spacing

Signal Spacing and Directional Intersection



Signal Spacing

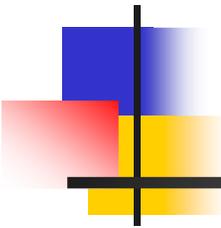


- Maintains Progression / Movement

What Are We Trying to Fix/Avoid?



- Poor Signal Spacing



Median Treatments

Raised Median



Raised Median



Raised Median



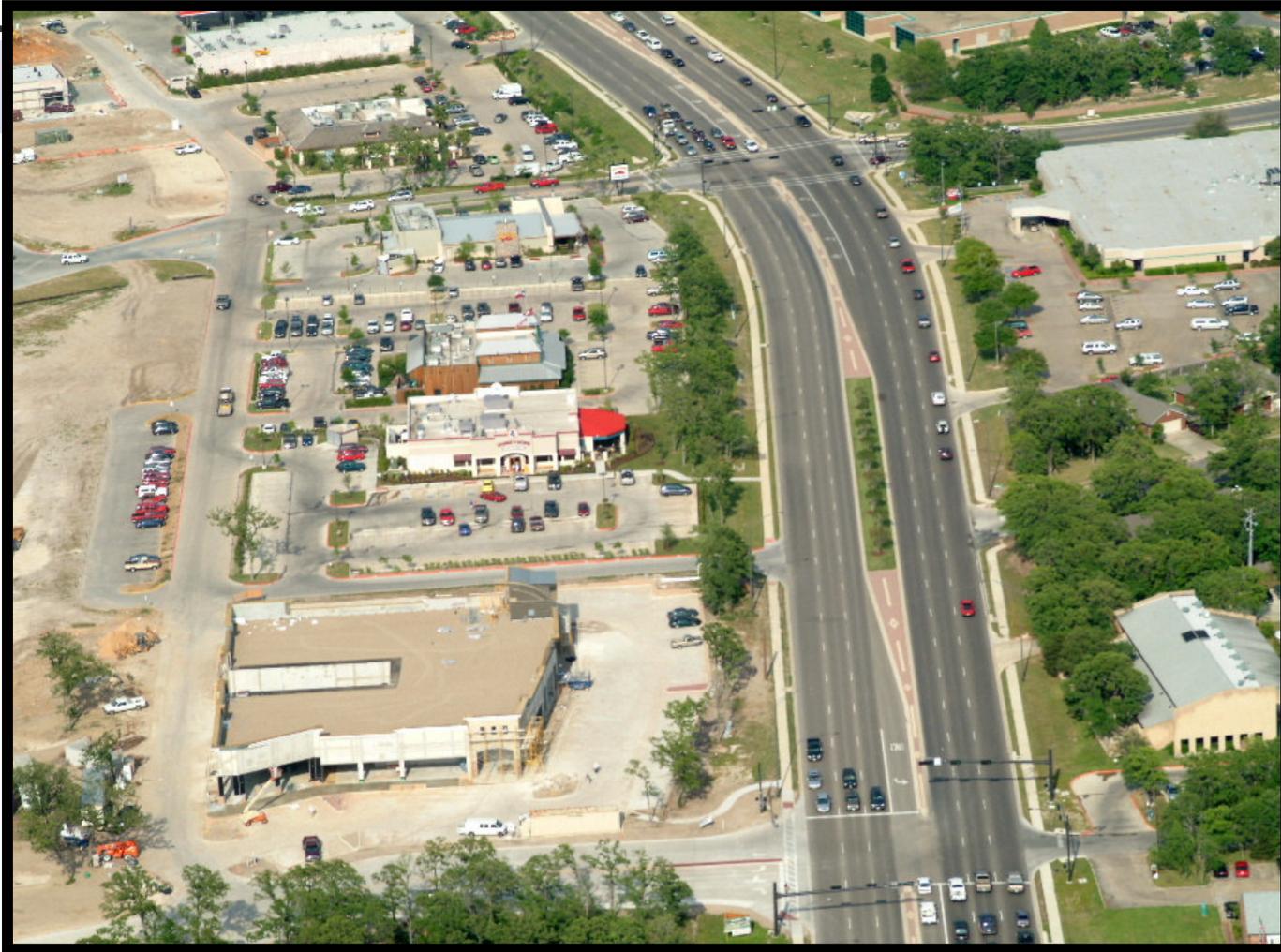
Raised Median / Cross Access



Raised Median / Cross Access



Raised Median / Cross Access



Raised Median / Cross Access



Raised Median / Cross Access



Raised Median / Cross Access



Raised Median / Cross Access



Raised Median / Cross Access



Raised Median / Cross Access



Raised Median in Advance of Development



Raised Median in Advance of Development



Two-way Left-Turn Lane Conflicts



Raised Median - CBD



- US 385/Grant Ave – Odessa

Potential Access Management Undeveloped Land

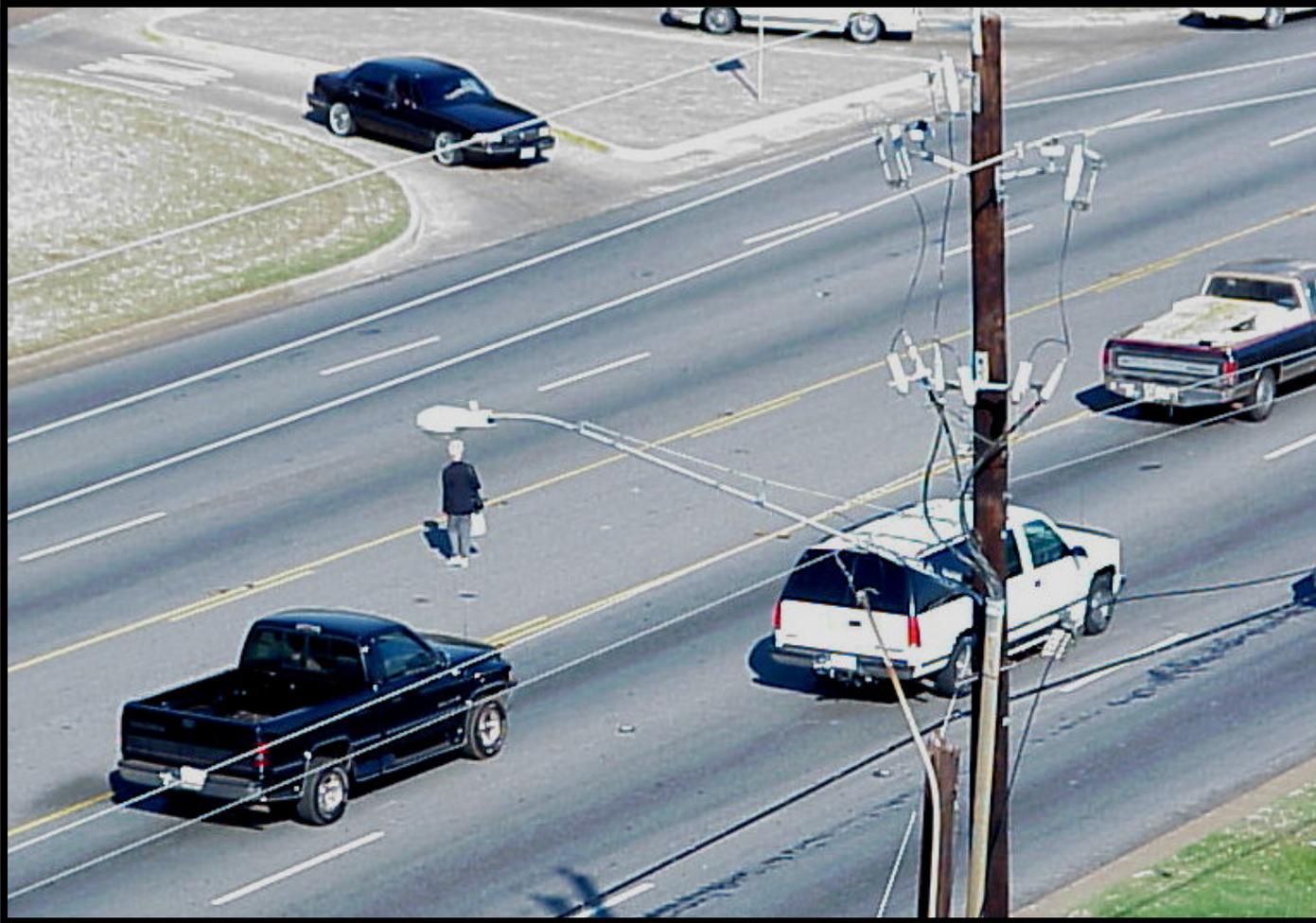


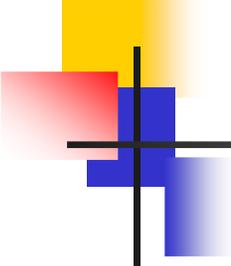
- Grandview Ave – Odessa

Directional Left-Turns



Pedestrian Safety





Safety – Reduce Conflict Points



Safety - Reduce Crashes



What Are We Trying to Fix/Avoid?



- TWLTL Conflicting Uses

Medians



- Reduce Conflict Points & Congestion
- Increase Driver Expectations

Signage for Raised Median Openings



■ Provides Direction to Adjacent Businesses



Raised Median at Close Intersection Spacing



Word for the Day: "Loon"



Sometimes wider for two-stage turning maneuver (Salem, OR)

“Two-stage” Loon



Left-turn and then merge with traffic (New Jersey)

Michigan U-turn (1 of 3)



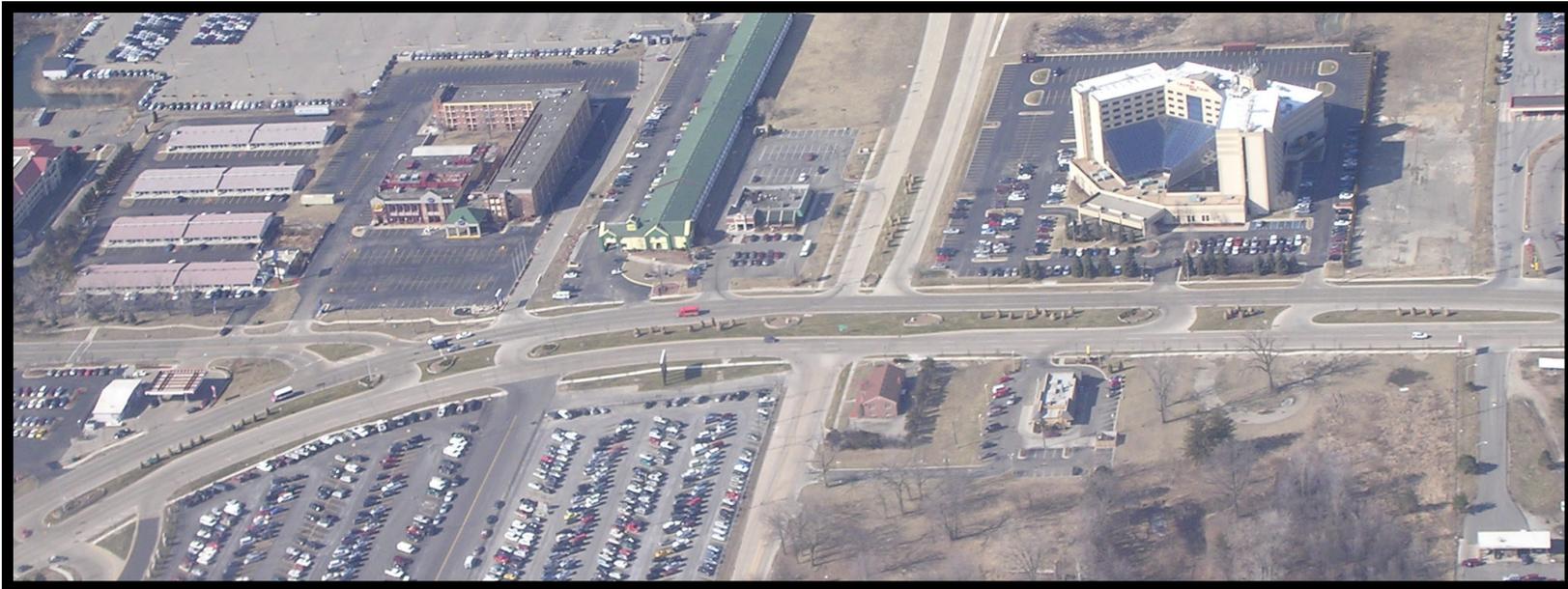
Michigan U-turn (2 of 3)



Michigan U-turn (3 of 3)



Michigan U-turn



- Detroit, MI

Michigan U-turn



- Detroit, MI

Safety Impacts



Safety Impacts



Landscaping and Pavers



Maintaining Driveway Access During Construction



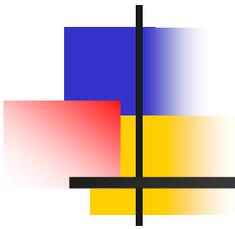
RM with Landscaping and Turn Bays



Corner Clearances and Medians



Acceleration and Deceleration Lanes



Turn Lanes



- **Separate Speeds and Create Safe Havens**

What Are We Trying to Fix/Avoid?



- Speed Differentials

Decel Lane and Architectural Standards



Architectural Standards



Deceleration Lane



Right-In / Right-Out with Queue Storage



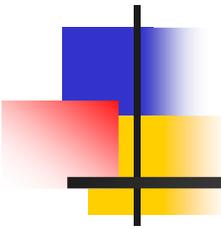
Limited Length Deceleration Lane



Decel / Accel Lanes



■ Colorado Springs, CO



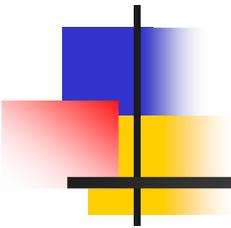
Auxiliary Lanes

Auxiliary Lane



Auxiliary Lane





Freeway Frontage Roads

Driveways and Ramp



Driveway – Ramp Spacing



Development Without Frontage Roads



Corner Clearance on Frontage Road



Driveway/Ramp Spacing and Right-In/Right Out



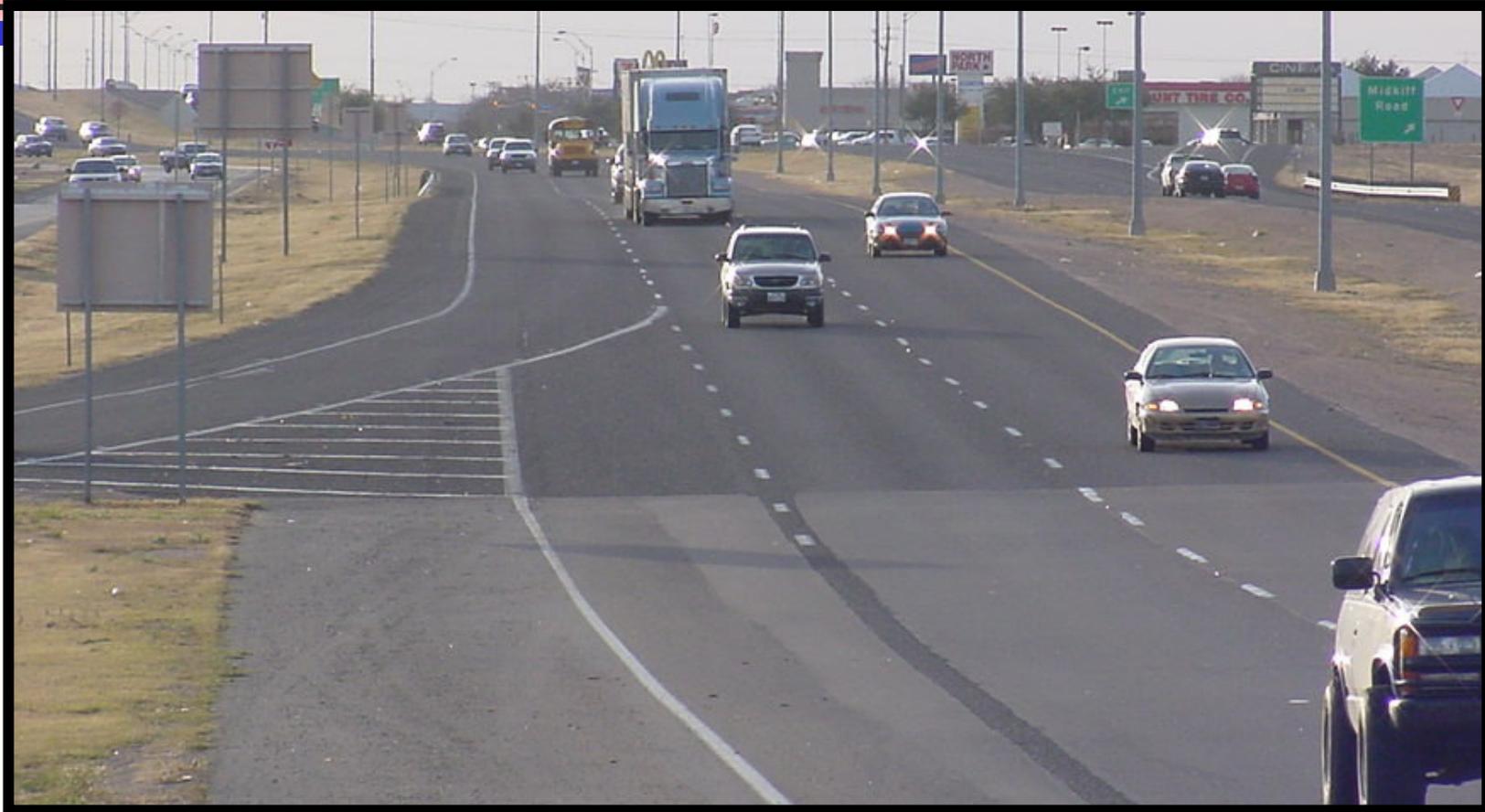
Access Spacing on Frontage Road and Home Depot Architecture



Limited Access on Frontage Road



Freeway Auxiliary Lane Transition



- Loop 250 – Midland

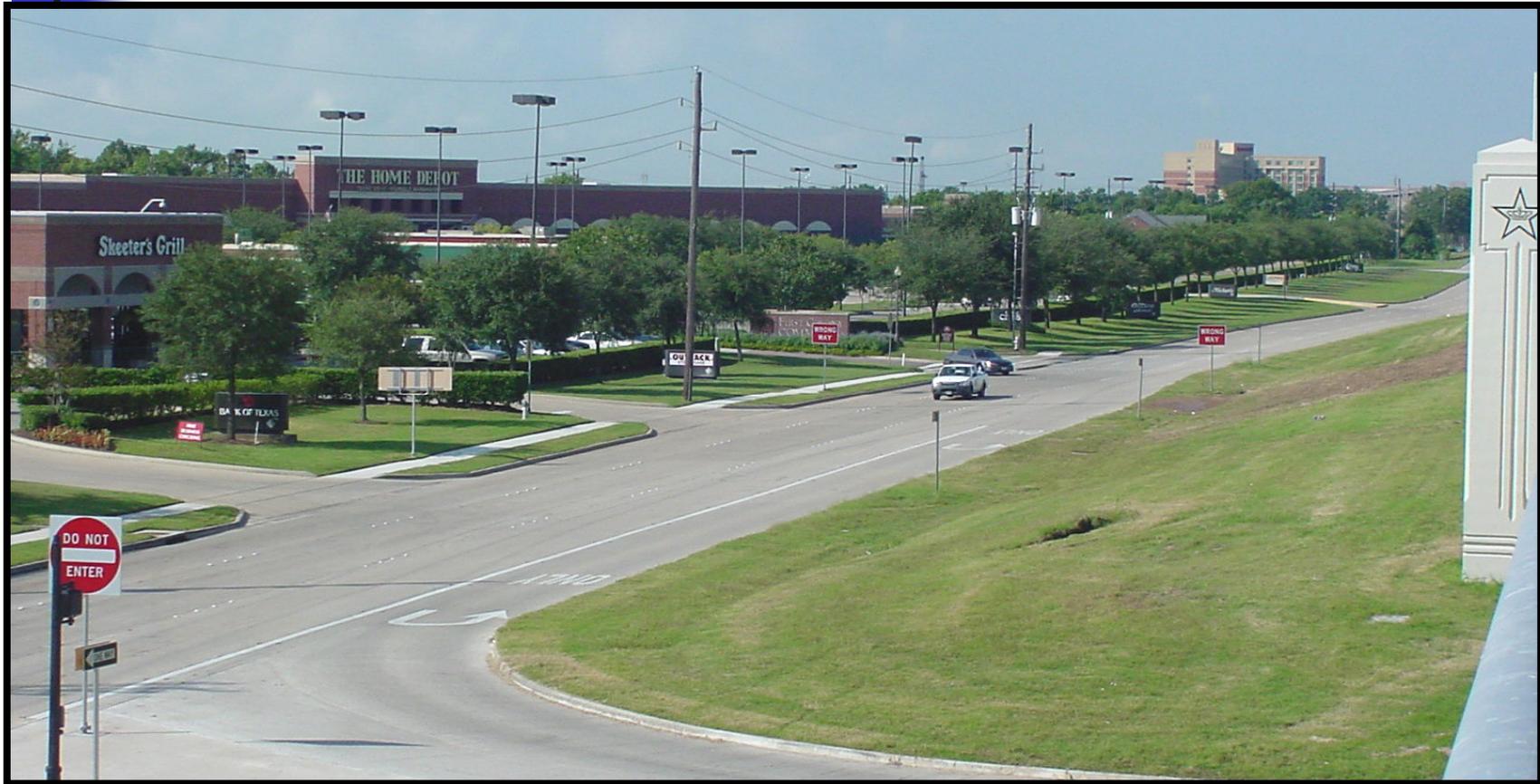
Corner Clearance on Frontage Road



Driveway/Ramp Spacing



Access Spacing on Frontage Road



Limited Access on Frontage Road



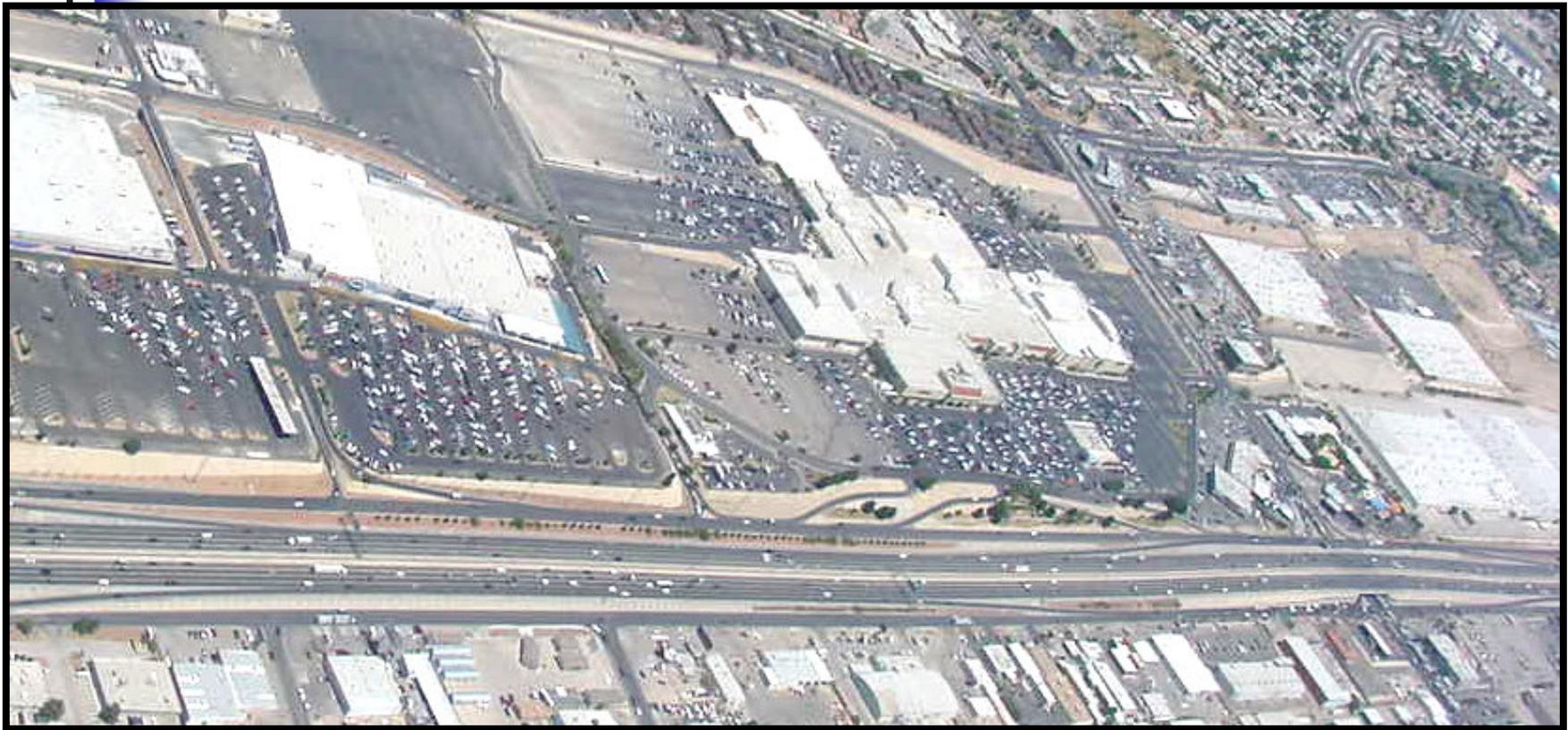
Mall Entrance – Proximity to Freeway Ramp



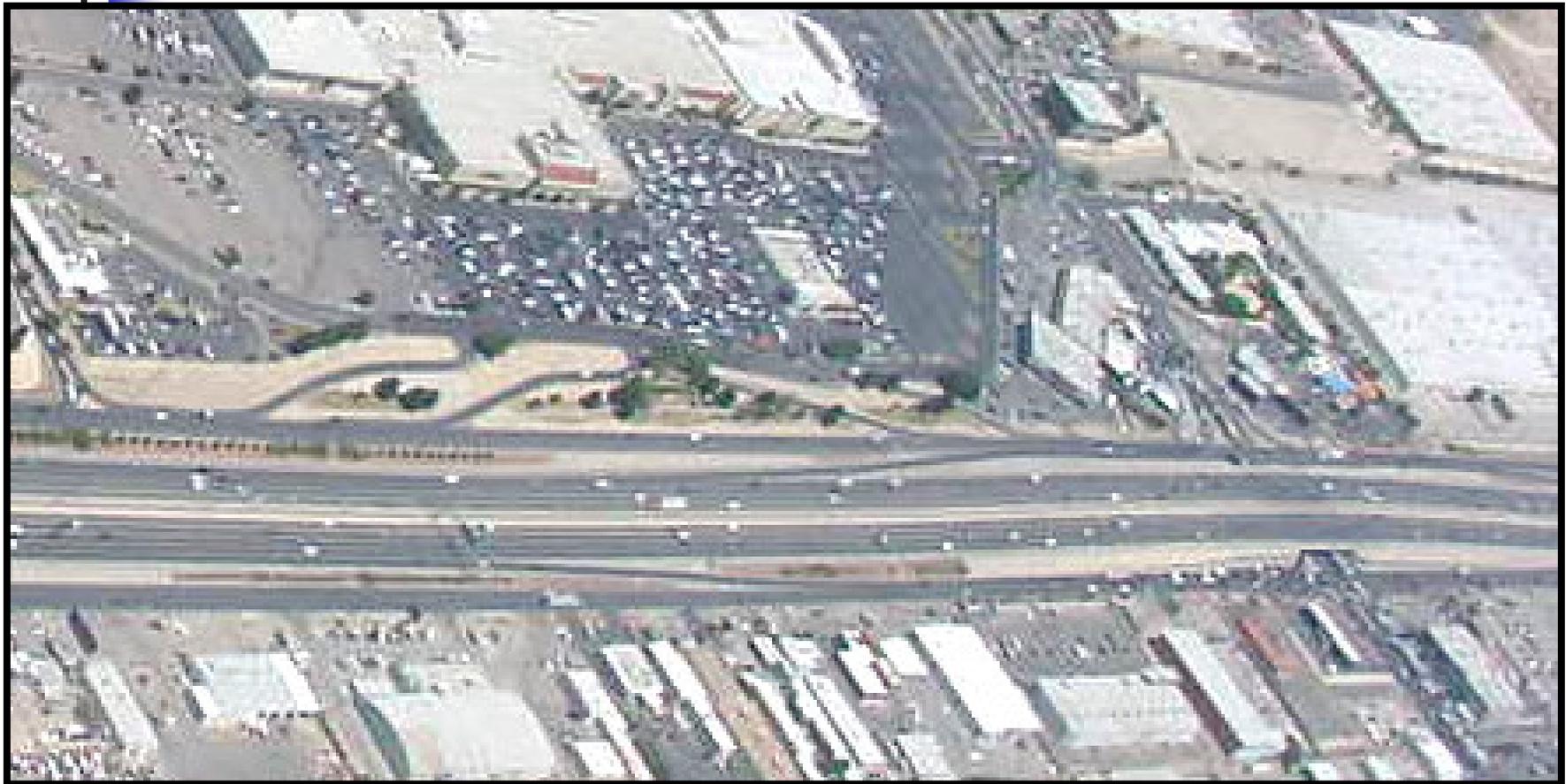
Mall Entrance – Proximity to Freeway Ramp



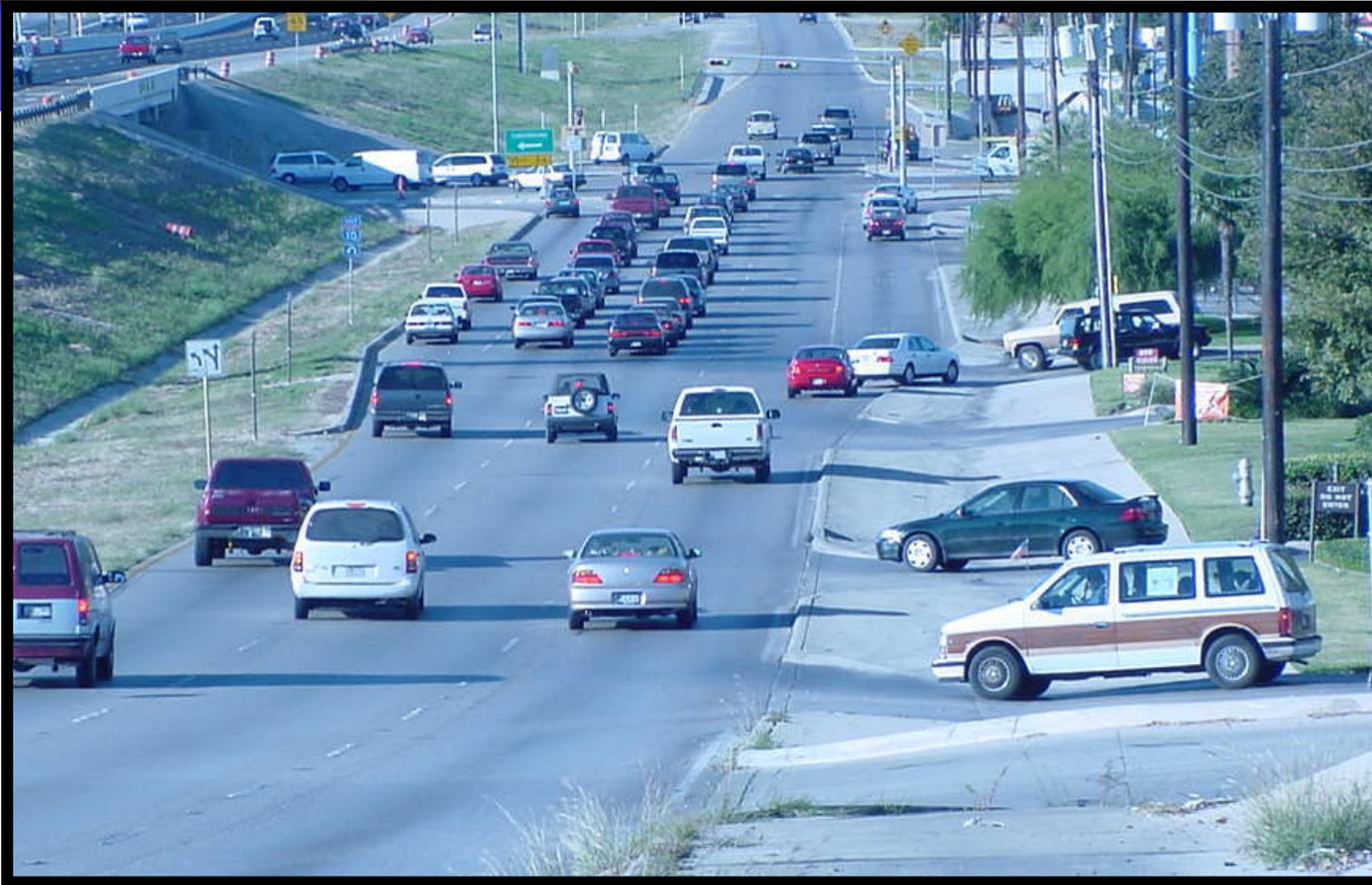
Mall Ingress and Egress on Frontage Road



Mall Ingress and Egress on Frontage Road – Close Up



What Are We Trying to Fix/Avoid?



- Multiple Conflict Opportunities

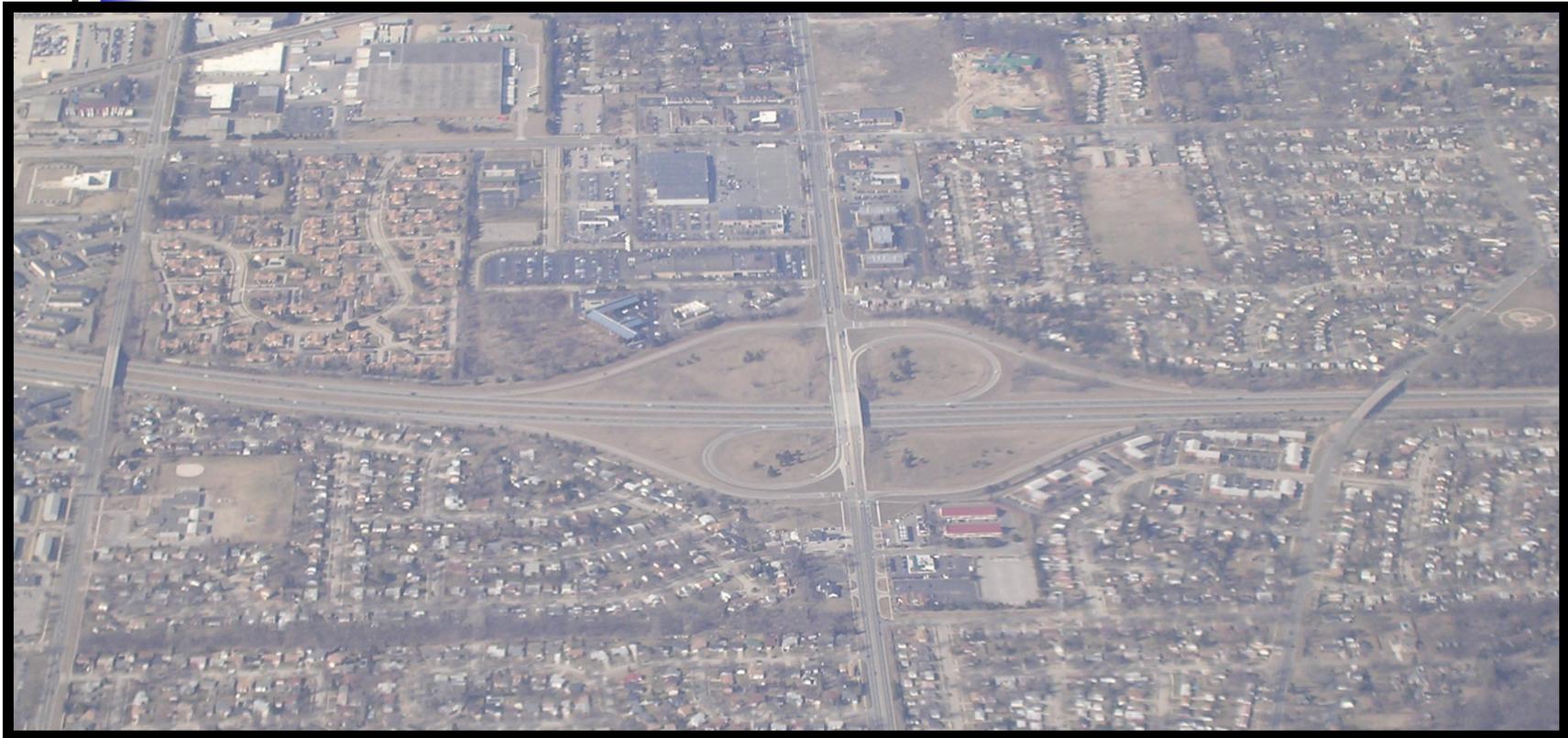
Driveways at Ramp Gores



What Are We Trying to Fix/Avoid?



No Frontage Roads – Access via City Streets

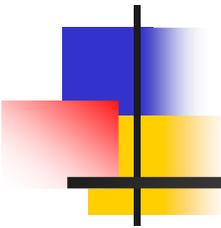


- Detroit, MI

No Frontage Roads – Access via City Streets



- Detroit, MI



Arterial Frontage Road

Arterial Frontage Road



Arterial Frontage Road



Arterial Frontage Road



Arterial Frontage Road



Arterial Frontage Road



Arterial Frontage Road



Arterial Frontage Road / Raised Median



Arterial Frontage Road / Cross Access



Arterial Frontage Road / Cross Access



Arterial Frontage Road



Arterial Frontage Road

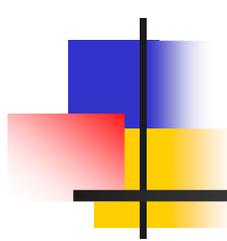


- Bus IH 20 – Odessa

Arterial Frontage Road

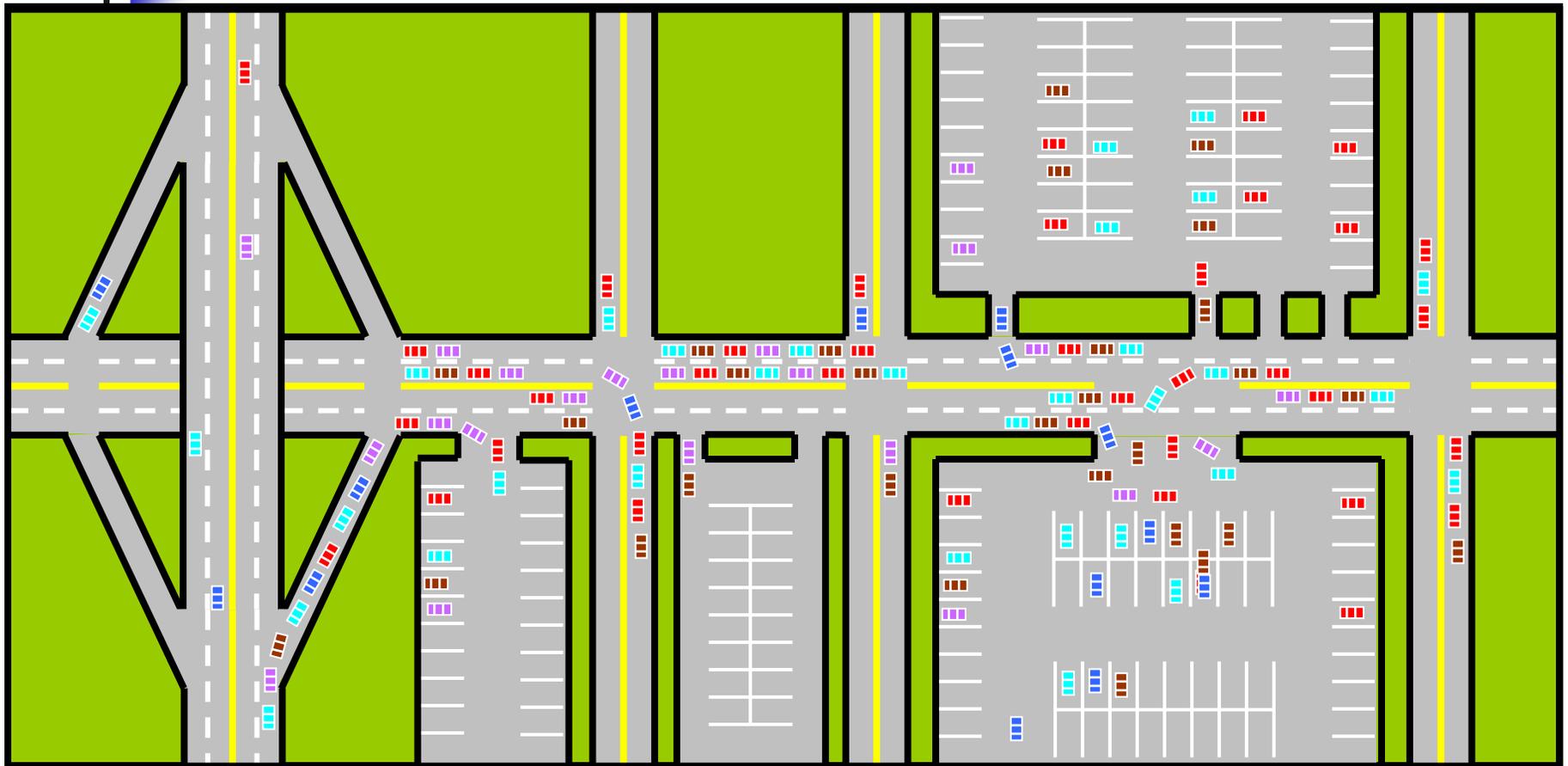


Intersection Spacing

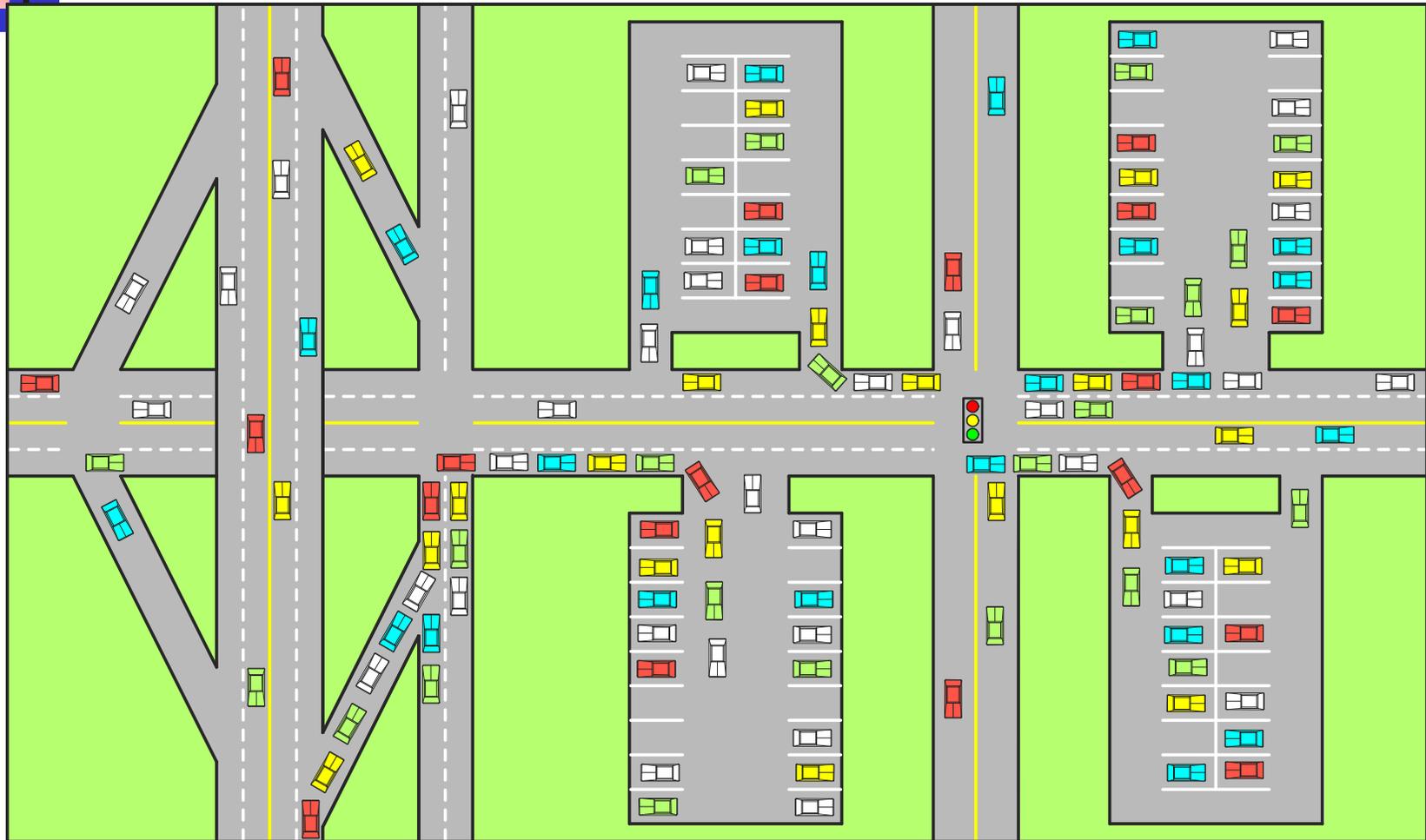


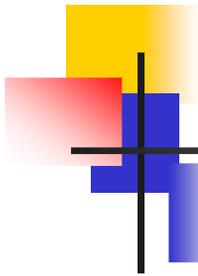
Summary

Case Study Illustrating Access Management Opportunities

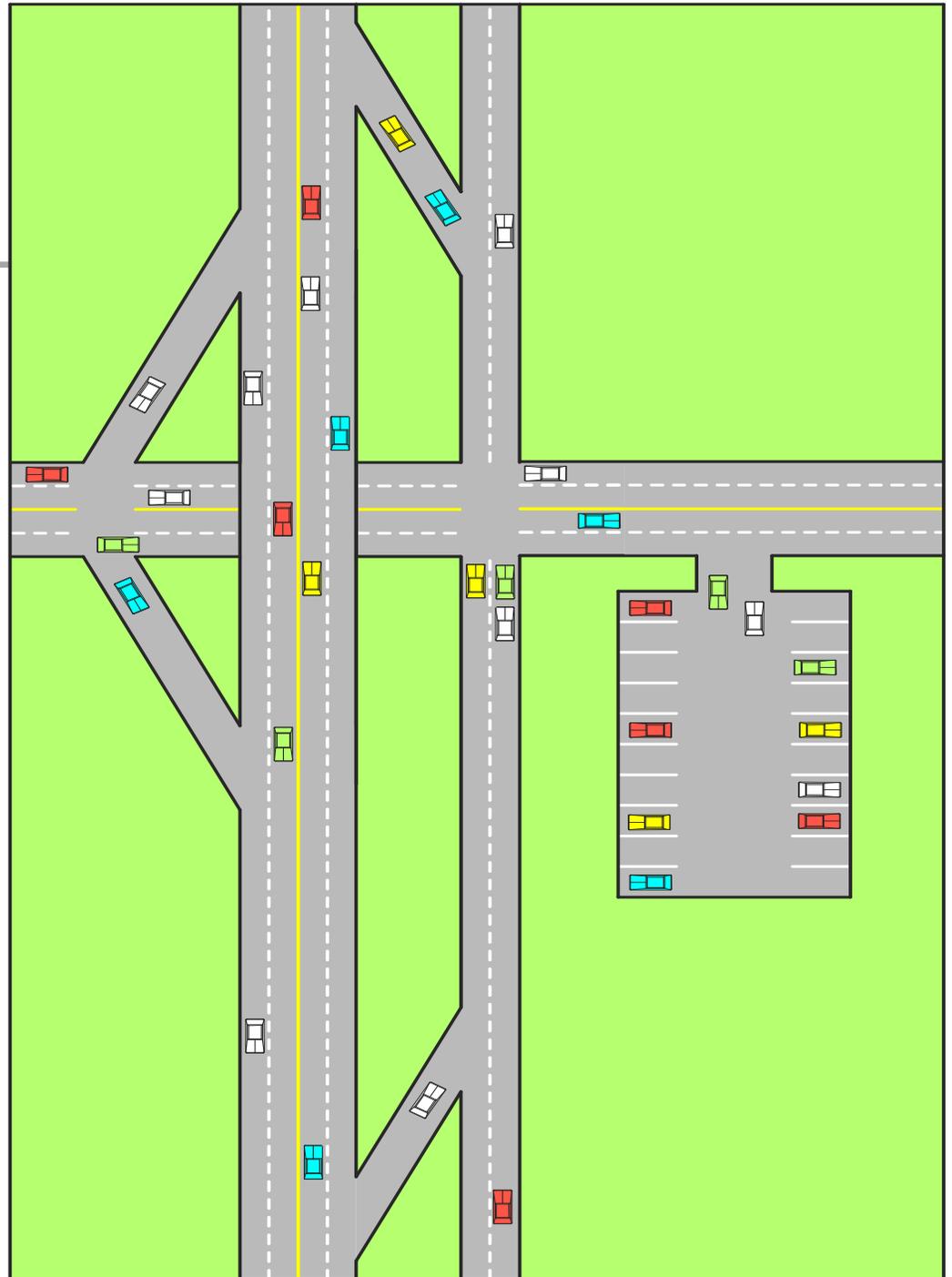


Poor Access and Mobility





Improved Access and Mobility



Improved Access and Mobility

