Access Management Planning vs. Practice

6th National Conference on Access Management

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Kimley-Horn and Associates, Inc.

Introduction

- **Access Management – A Good Policy**
  - Safety benefits
  - Capacity benefits
  - Aesthetic benefits
  - Overall – very useful in transportation planning
- **"What should we consider when applying access management?"**
  - Driveway spacing
  - Signal spacing
  - Safety
  - Is there more?
- **"Why should we look at the bigger picture?"**
  - In-fill situations
  - Operational issues
  - Overall affect on corridor as a whole
- **Need to look at more than just driveway and median opening placement.**

Disclaimer

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The Challengers

- Look at a variety of real projects
- Just a general overview
- Access Management vs.:
  - The Environment
  - Future Development
  - Land use
  - Safety
  - The Drivers
  - “The Big Picture”

Access Management vs. The Environment

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Access Management vs. The Environment

- Wetlands make up a large portion of our Florida landscape – 20% of the wetlands in the lower US are located in Florida
- Northwest Florida has over 120,000 acres of wetlands alone
- Wetland restraints often times result in less than ideal situations

NORTH
PROPOSED
RESIDENTIAL
Access
Easement
WETLAND
PROPOSED
TRAFFIC
SIGNAL
DRI
MIXED USE
DEVELOPMENT

Access Management vs. Future Development

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Access Management vs. The Environment

"To what extent should we consider future development when granting access rights?"

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NORTH
PROPOSED
RESIDENTIAL
WETLAND
PROPOSED
TRAFFIC
SIGNAL
DRI
MIXED USE
DEVELOPMENT

Access Management vs. Land Use

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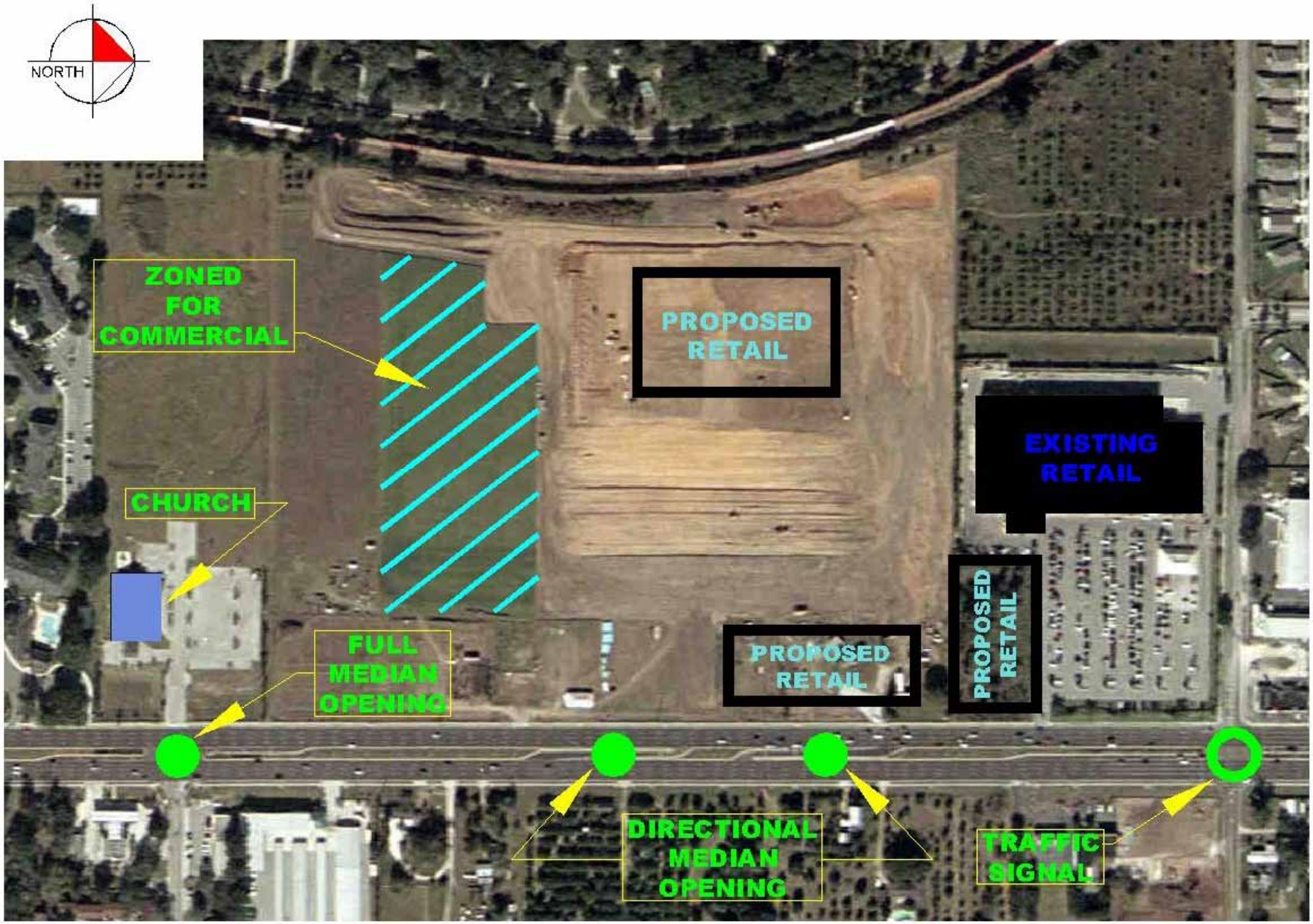
Access Management vs. Land Use

"Should the proposed land use be considered when granting access rights?"

"Should there be some sort of provision in place to account for change in access to benefit the corridor as a whole?"


NORTH
ZONED FOR COMMERCIAL
PROPOSED RETAIL
EXISTING RETAIL
CHURCH
FULL MEDIAN OPENING
PROPOSED RETAIL
PROPOSED RETAIL
DIRECTIONAL MEDIAN OPENING
TRAFFIC SIGNAL

Access Management vs. Safety

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Access Management vs. Safety

- **Access Management improves safety on roadways**
  - True - has been proven by many sources
- **May improve safety at access point; but impacts to the corridor as a whole should also be considered.**
  - Redistribution of left turns and u-turns to other median openings

"How do you predict future safety concerns as a result of access management?"

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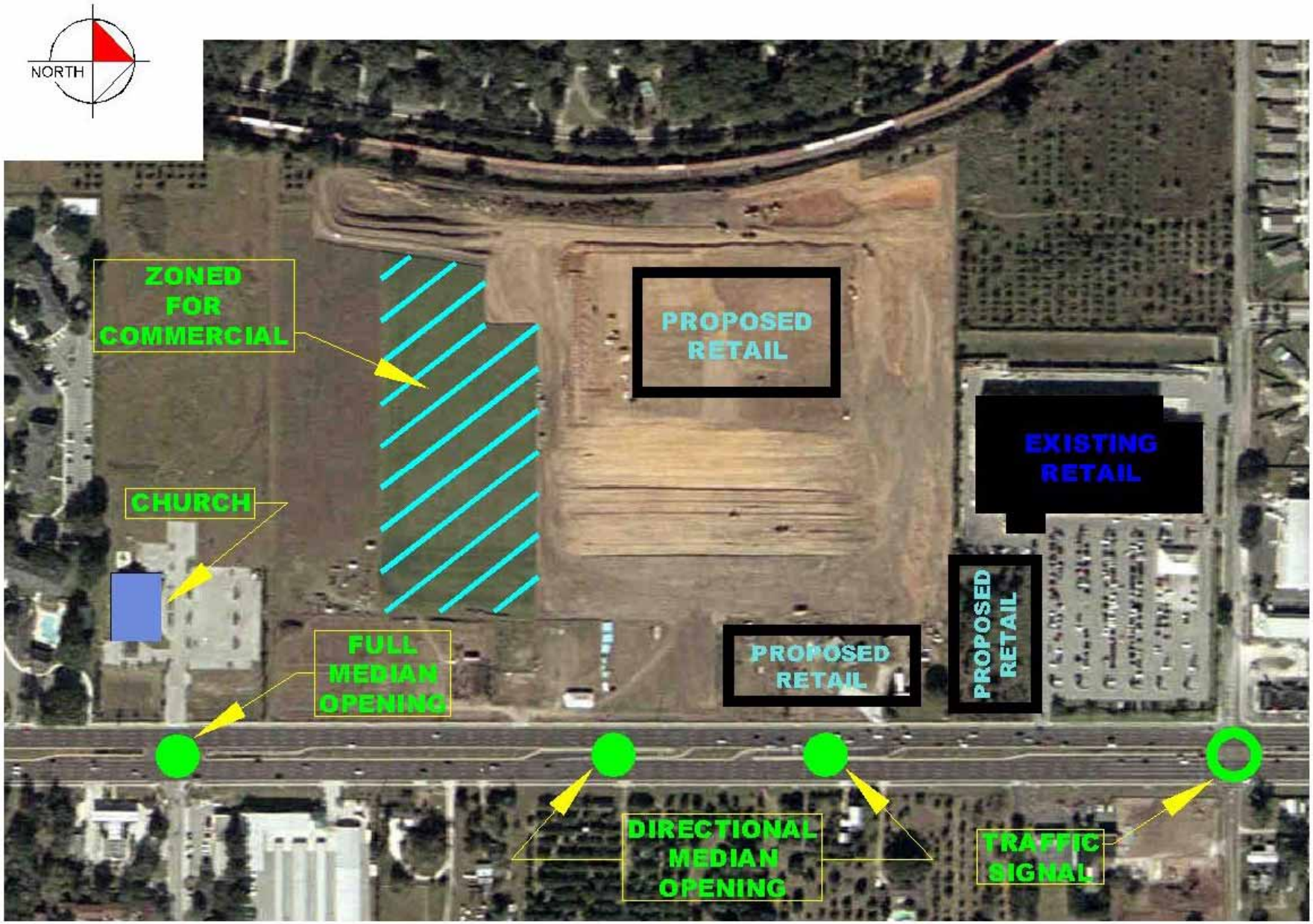
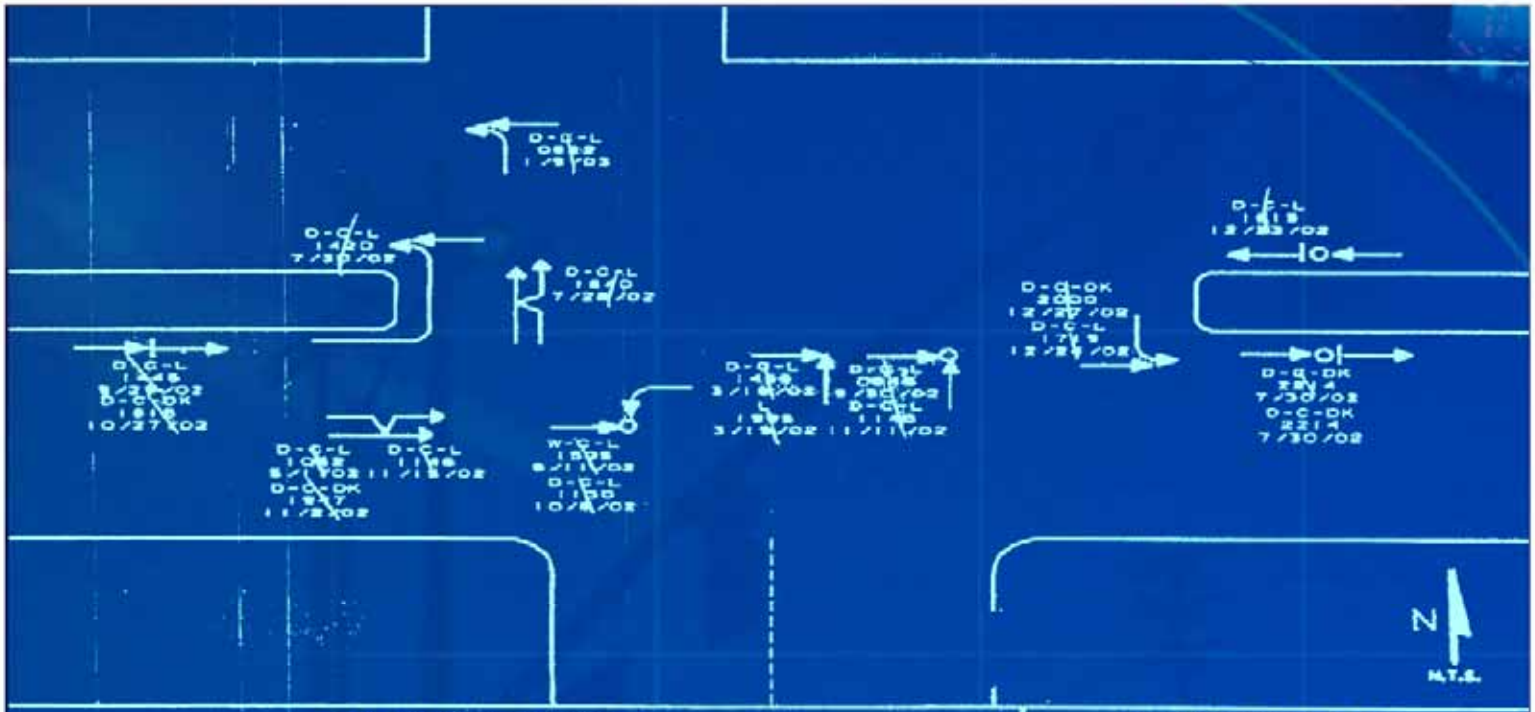

NORTH
ZONED FOR COMMERCIAL
PROPOSED RETAIL
EXISTING RETAIL
CHURCH
FULL MEDIAN OPENING
PROPOSED RETAIL
PROPOSED RETAIL
DIRECTIONAL MEDIAN OPENING
TRAFFIC SIGNAL



COLLISION SYMBOLS

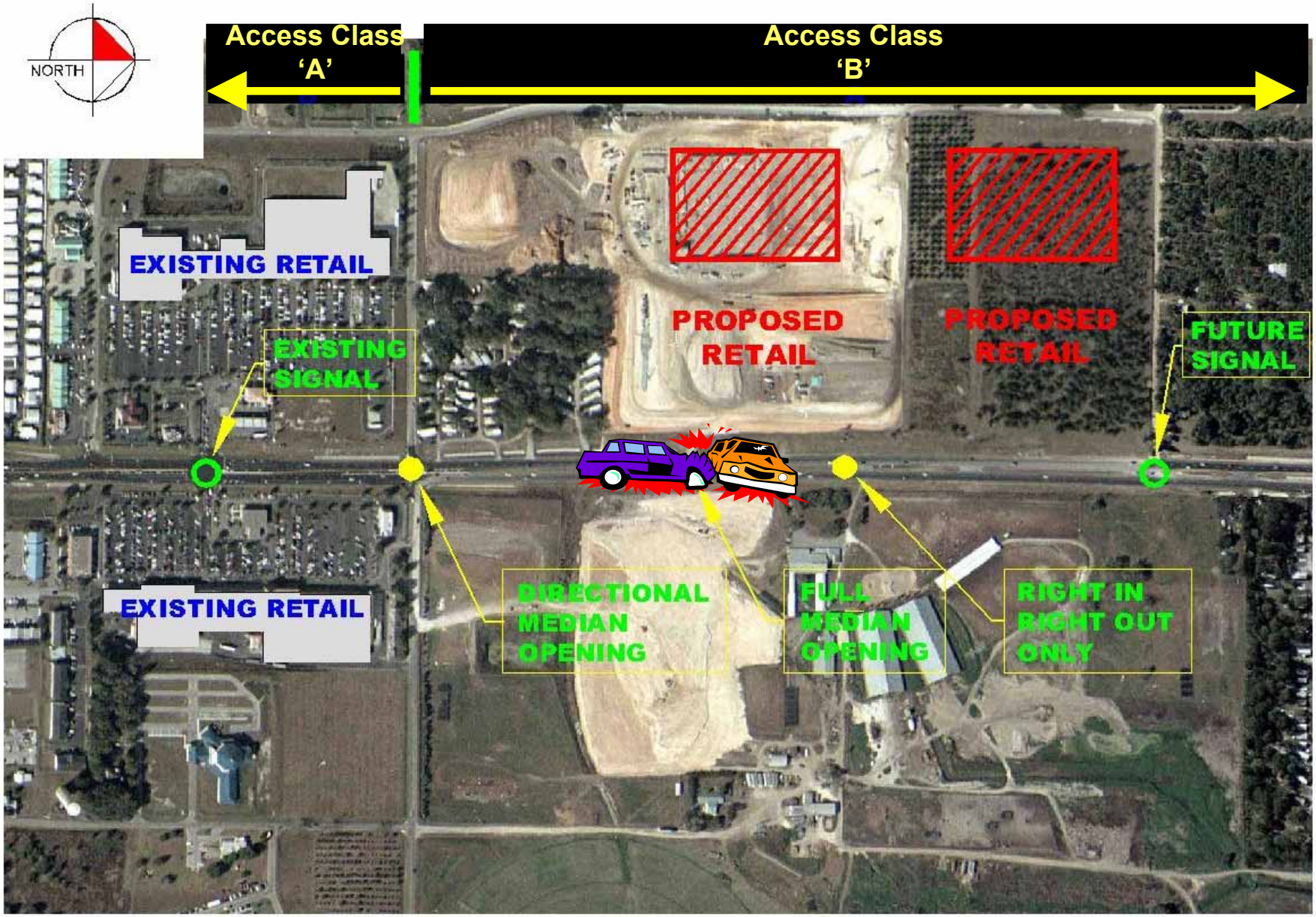
- STRAIGHT
- STOPPED
- BACKING
- PARKED
- OVERTURNED
- INJURY
- FATALITY
- REAR-END
- HEAD-ON
- SIDE SWIPE
- OUT OF CONTROL
- INSUFFICIENT INFORMATION
- RIGHT TURN
- LEFT TURN
- FIXED OBJECT
- PEDESTRIAN
- BICYCLE

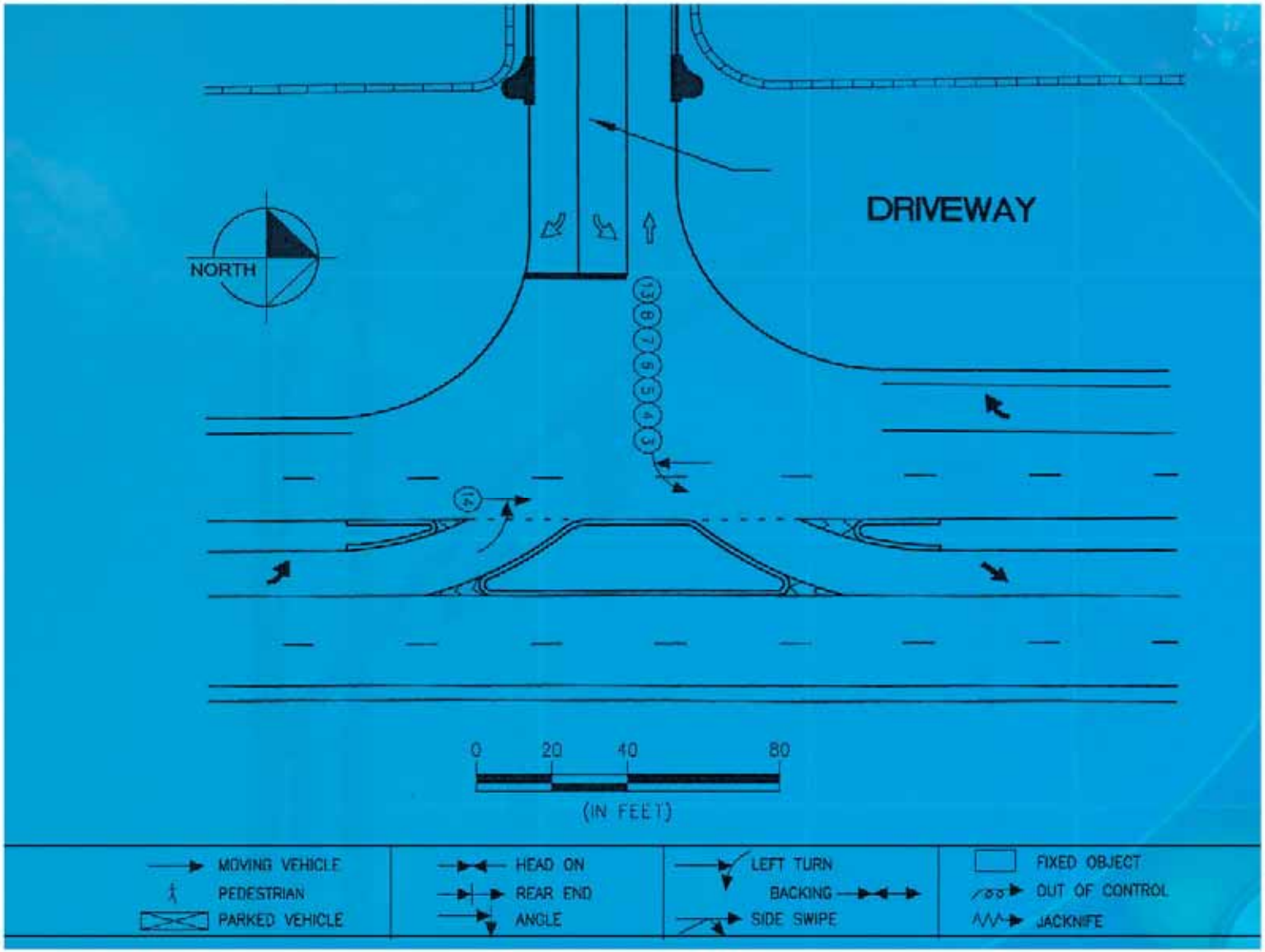
CONDITION CODES

PAVEMENT CONDITION
D=DRY W=WET U=UNKNOWN
WEATHER CONDITION
C=CLEAR R=RAIN F=FOG
LIGHT CONDITION
L=DAYLIGHT DK=DARK
TIME OF DAY (MILITARY)

CRASH SUMMARY

	PROPERTY DAMAGE ONLY	INJURY	FATAL	TOTAL
DAYTIME	9	5	0	14
NIGHTTIME	3	2	0	5
TOTAL	12	7	0	19


NORTH
Access Class 'A'
Access Class 'B'
EXISTING RETAIL
EXISTING SIGNAL
PROPOSED RETAIL
PROPOSED RETAIL
FUTURE SIGNAL
EXISTING RETAIL
DIRECTIONAL MEDIAN OPENING
FULL MEDIAN OPENING
RIGHT IN RIGHT OUT ONLY


DRIVEWAY
NORTH
13
8
7
6
5
4
3
0
20
40
80
(IN FEET)
MOVING VEHICLE
PEDESTRIAN
PARKED VEHICLE
HEAD ON
REAR END
ANGLE
LEFT TURN
BACKING
SIDE SWIPE
FIXED OBJECT
OUT OF CONTROL
JACKNIFE

Access Management vs. The Drivers

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Access Management vs. The Drivers

"What is the primary purpose of this roadway?"

- FIHS
- Major regional arterial
- Collector road
- Local street

"Who are the major users of this roadway?"

- Population of the community
- Types of vehicles using the roadway
- Types of customers attracted to the local land uses

Many times the answers to these questions conflict!

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Access Management vs. The Drivers

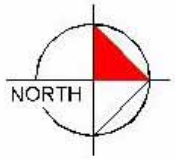
- **Florida is unique as it serves a very diverse population.**
  - High concentration of elderly in certain parts of the state
  - High concentration of non-familiar drivers (tourists) in certain parts of the state

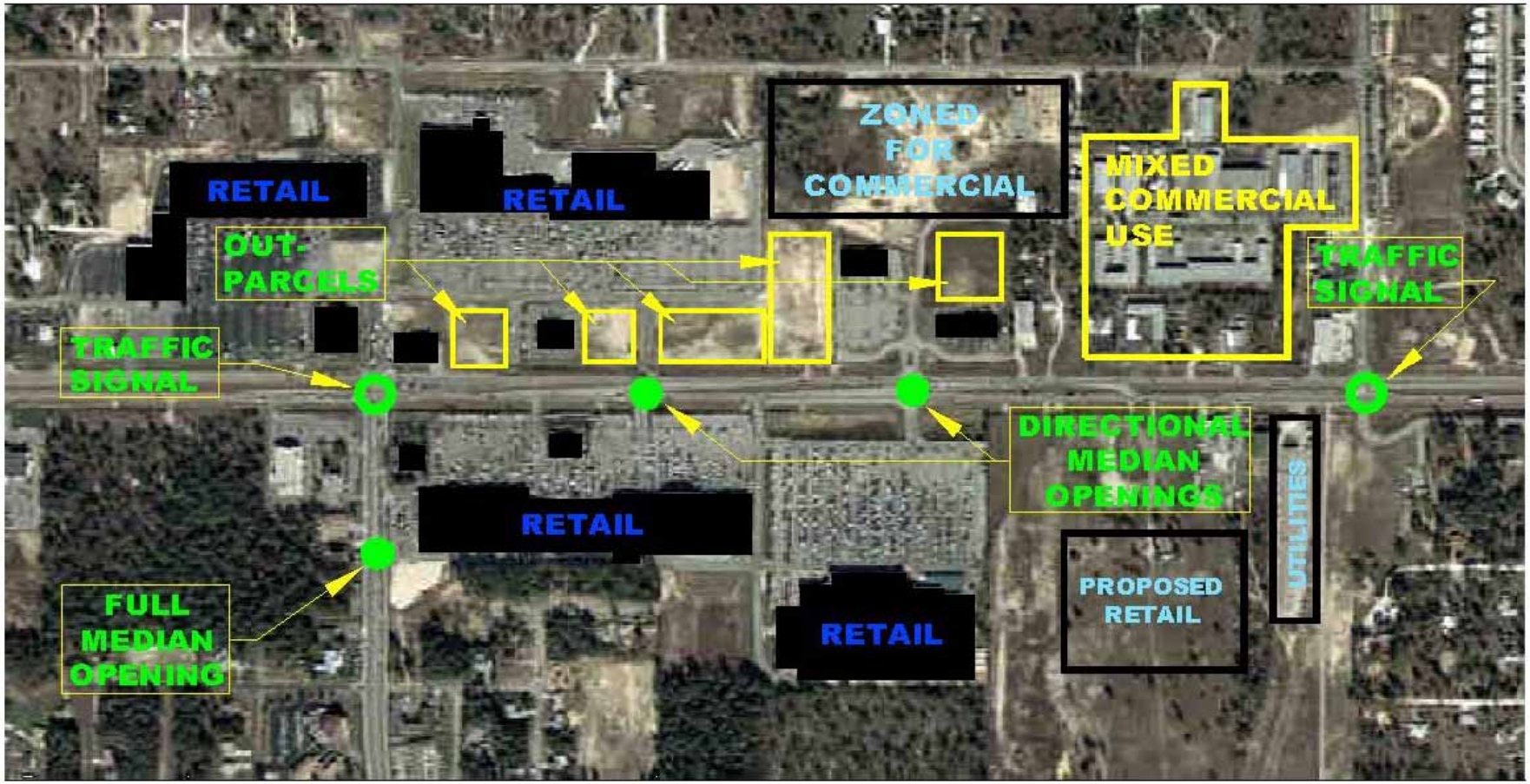
"How should access management be used in these situations?"

Access Management vs. The Drivers

"Do the access management standards, as written, make sense for this community?"

NORTH


NORTH


RETAIL
RETAIL
ZONED FOR COMMERCIAL
MIXED COMMERCIAL USE
OUT-PARCELS
TRAFFIC SIGNAL
TRAFFIC SIGNAL
DIRECTIONAL MEDIAN OPENINGS
UTILITIES
RETAIL
PROPOSED RETAIL
RETAIL
FULL MEDIAN OPENING

Access Management vs. “The Big Picture”

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Access Management vs. "The Big Picture"

"Should
access management guidelines
evaluate just the driveway/signal/connection spacing, or the access management plan
of a project as a whole?"

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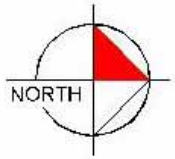
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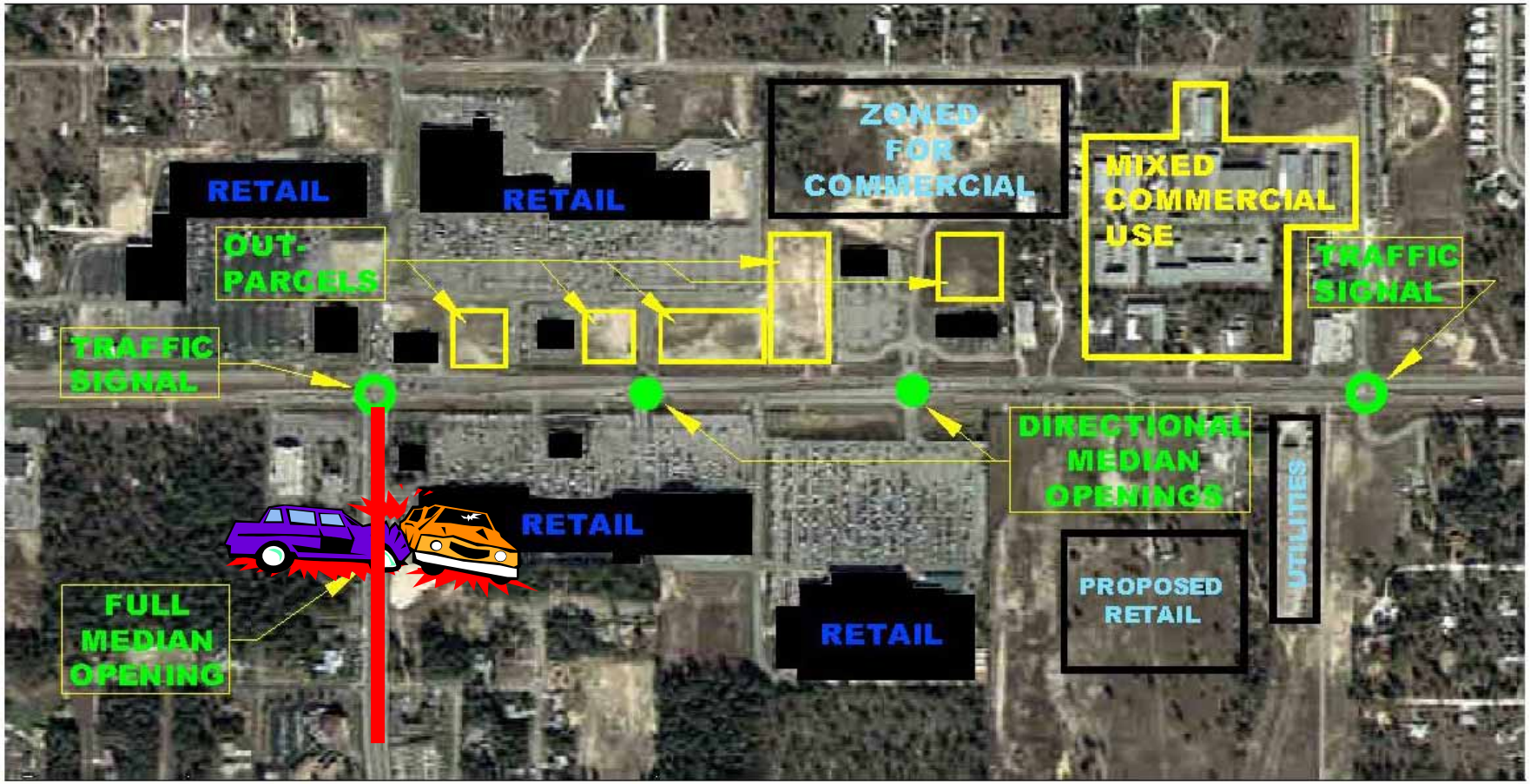
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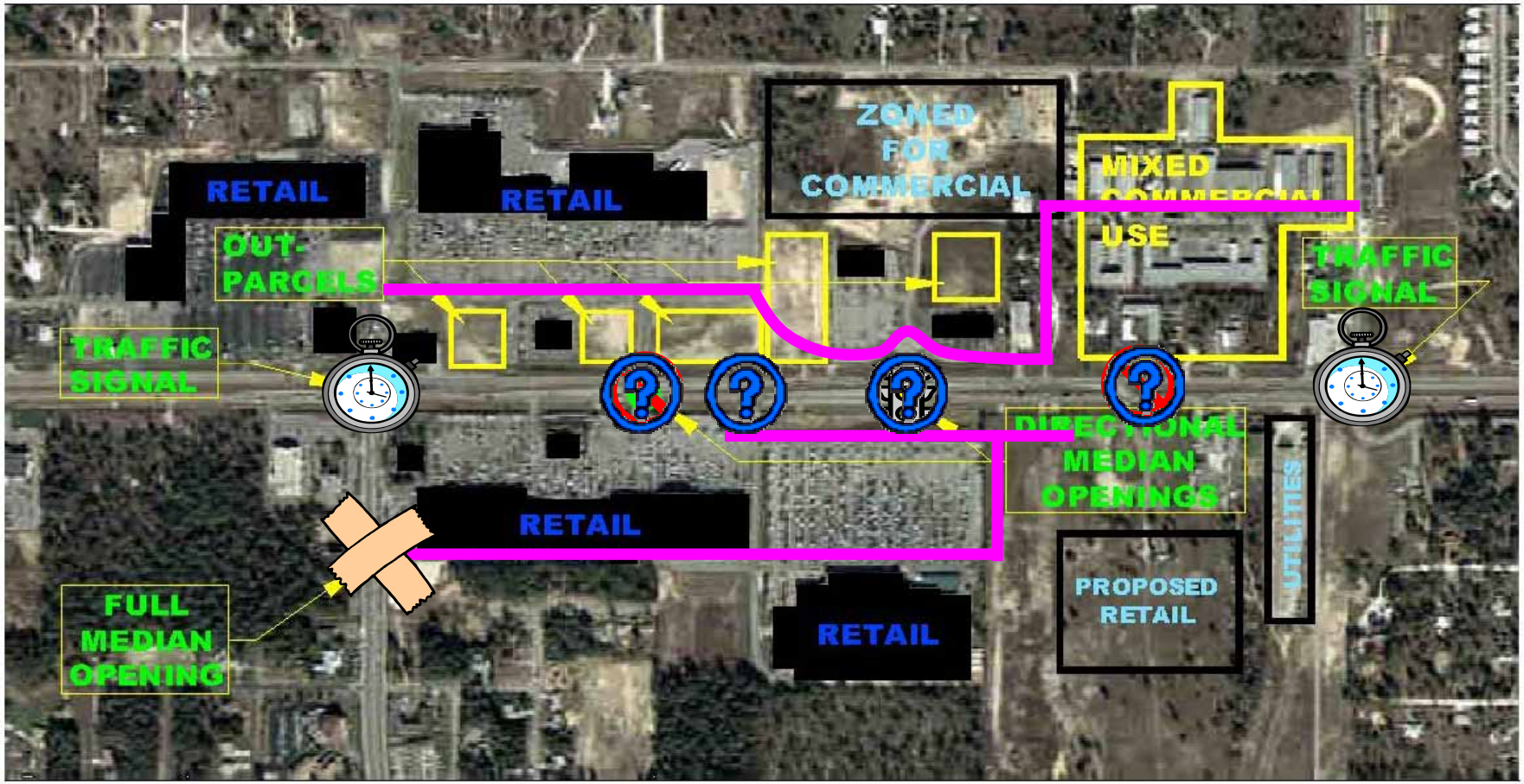
NORTH
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MIXED
USE
OUT-PARCELS
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DIRECTIONAL MEDIAN OPENINGS
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UTILITIES
PROPOSED RETAIL
FULL MEDIAN OPENING
RETAIL

So Now What?

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So now what?

Yes, each of these examples are unique and have SEVERAL other details that could have, and probably did impact access decisions

Purpose wasn't to dispute whether or not the access as granted or denied was justified, not justified etc… but just to identify some of the issues that come up when putting access management into practice.

Ask the Questions!

Ask The Questions!

"What should we consider when applying access management to this project?"

"How will the access management standards
currently in place apply to this project?"

"Is there a better way to provide access to this
property?"

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Ask The Questions!

"How will that affect the corridor as a whole?"

Safety
Operations
Future Development

"Did I leave the iron on?"

"Does this access management application make sense for this community?"

And many, many, more…

Kimley-Horn and Associates, Inc.

Thank you!

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