

Exercise 2 Input – Roundabouts vs. Signalized Intersections

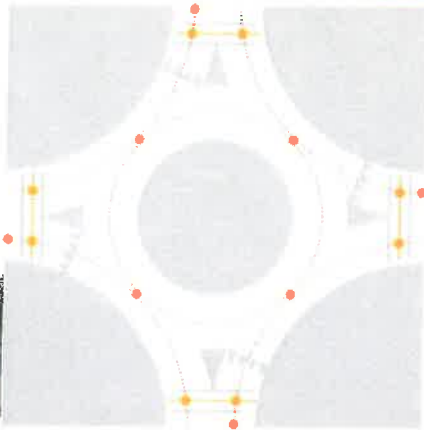
Following a presentation on best practices and pros and cons of roundabouts vs. signalized intersections, the first portion of Exercise 2 was conducted. Participants were asked to note pros and cons of these two types of intersection controls, from their own perspective.

In the following pages, you will find scans of this participant input.

Roundabouts vs. Signalized Intersections

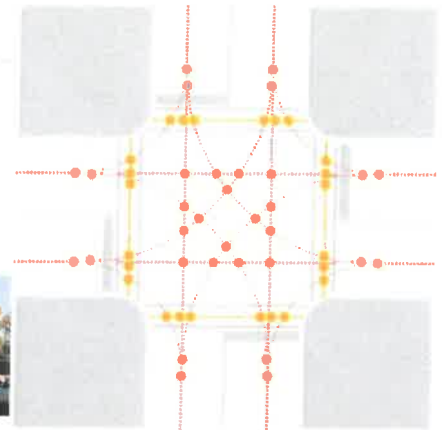
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBABOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: They are cheaper in the long run - less maintenance

CONS: dislike roundabouts no one in Ca. knows how to drive through them

INTERSECTIONS

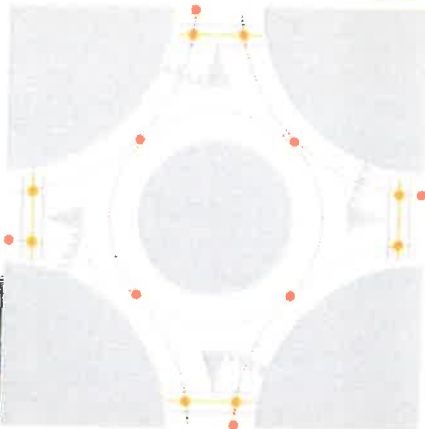
PROS: standard, what we are use of, stop lights and center turn lanes can be sign together to aid in traffic flow

CONS: expense on going maintenance

Roundabouts vs. Signalized Intersections

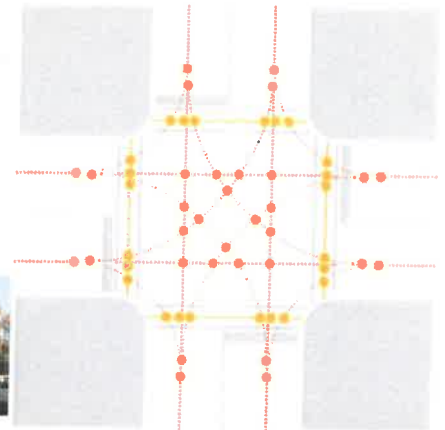
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDAOBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDAOBOUTS

PROS: *every thing*
LOVE!

CONS: *Nothing*

INTERSECTIONS

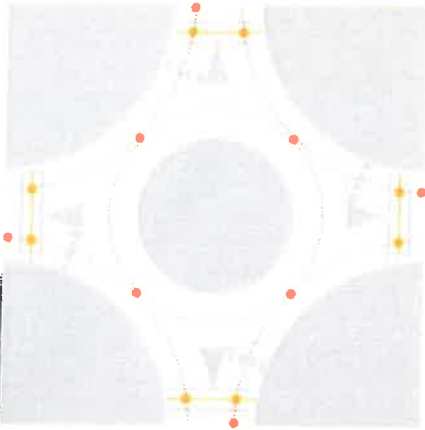
PROS: *None*

CONS: *stop working with power outage*
Increased maintenance
Increased commute time
Increased carbon emissions

Roundabouts vs. Signalized Intersections

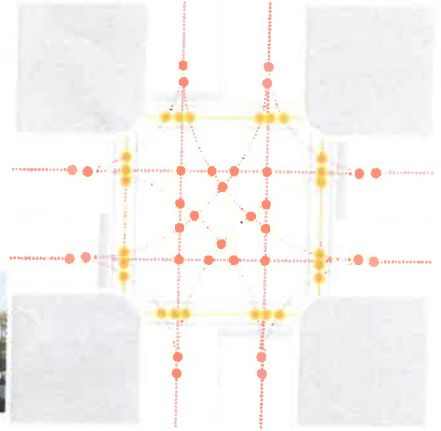
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDAOBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

less texting while driving.
 What do you think are the pros and cons for each solution?

ROUNDAOBOUTS

- PROS: traffic keep moving - landscape opportunity
 Keep working in power outage
 traffic slower - good thing.
- CONS: larger footprint

INTERSECTIONS

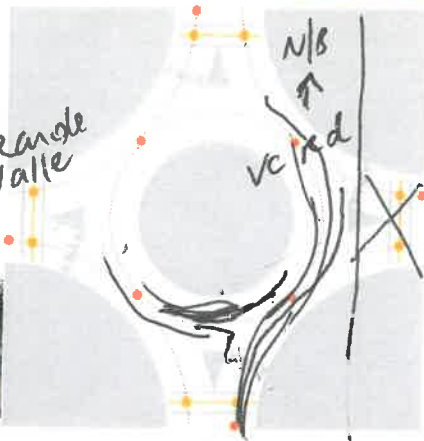
- PROS: cheaper to bld + less footprint
 - short sighted

- CONS: - waiting for light to chg.
 - Back-up at light
 - stop working during power outages
 - wasted fuel while waiting
 - pollution while waiting.

Roundabouts vs. Signalized Intersections

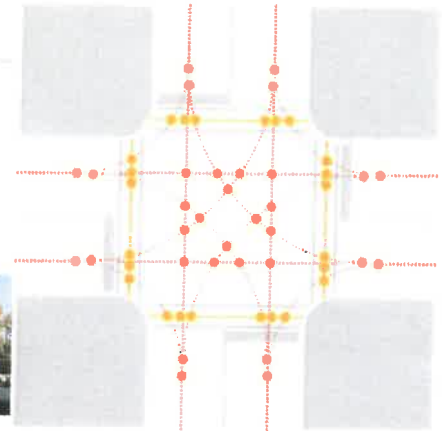
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBABOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS:

no high speed t-bone collisions thru state roads

CONS:

takes up more space
have to redesign
expensive initially

INTERSECTIONS

PROS:

less space-use
existing roadway/
cheaper initially

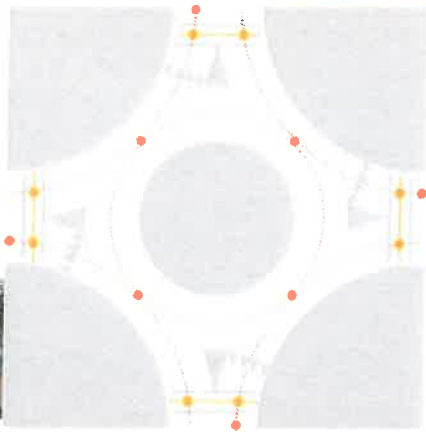
CONS:

veh back up at
red lights
drivers must have

Roundabouts vs. Signalized Intersections

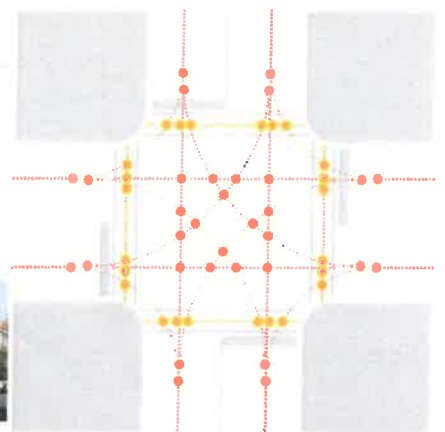
Roundabouts

-  **8** Vehicle Conflicts
-  **8** Pedestrian Conflicts



Intersections

-  **32** Vehicle Conflicts
-  **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
1 # of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
2 Collision Severity	✓		Vehicles in roundabouts travel in the same direction
3 Roadway Space		✓	Signalized intersections require less space
4 Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
5 Comfort		✓	People are familiar with how signalized intersections work
6 Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
7 Construction Cost		✓	Signalized intersections can be less expensive to construct
8 Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: 1 - injury collisions severity
4 - Keep moving

CONS: 5 - Newbies will have to learn
7 - Cost

INTERSECTIONS

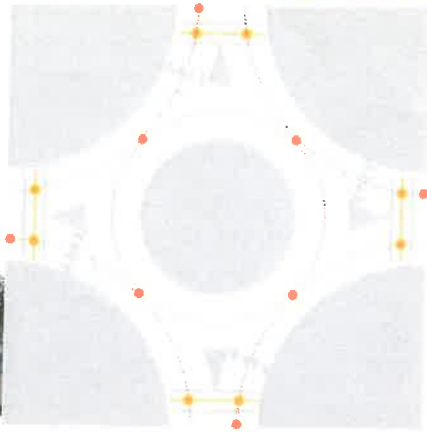
PROS: 3 - space
5 - no learning curve

CONS: 8 - blinking light in power failure

Roundabouts vs. Signalized Intersections

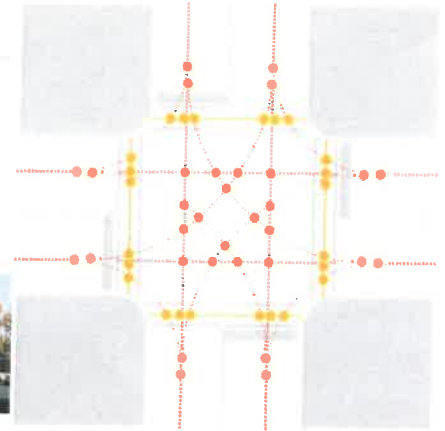
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: open concept.
reduced chance for collision
keeps flow going

CONS: Learning curve
emergencies
larger vehicles

INTERSECTIONS

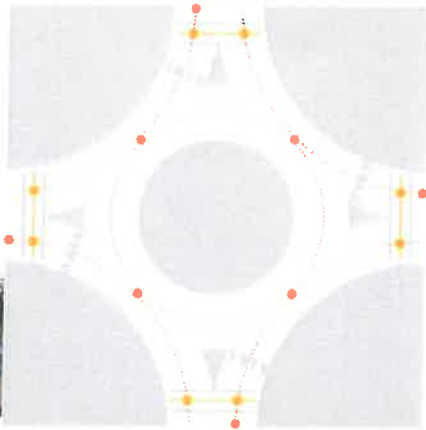
PROS: Increases commute time
more familiar concept
back ups

CONS:

Roundabouts vs. Signalized Intersections

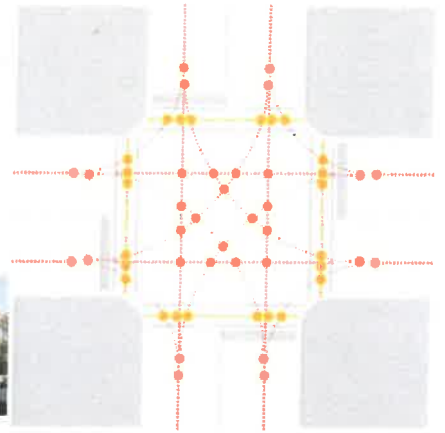
Roundabouts

- 8 Vehicle Conflicts
- 8 Pedestrian Conflicts



Intersections

- 32 Vehicle Conflicts
- 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: Safety
Slows Traffic
ENVIRONMENTALLY FRIENDLY
Psychologically FRIENDLINESS

CONS: LEARNING CURVE
A MORE EXPENSIVE TO CHANGE FROM LIGHT TO ROUNDABOUT - NO, IT WHILE BUILDER IS GETTING APPROVAL.

INTERSECTIONS

PROS: LESS EXPENSIVE
MORE FAMILIAR.

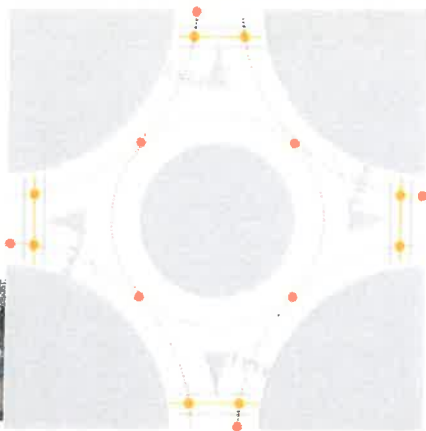
CONS: Increases Commute Time

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

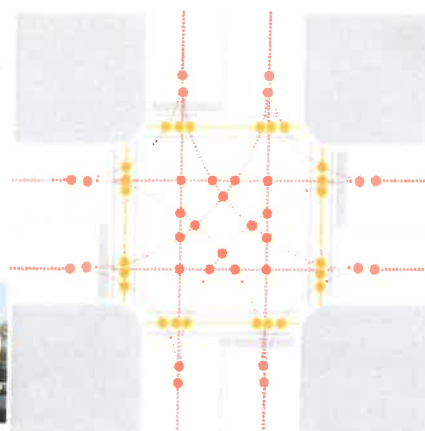
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBABOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: WITH A LARGE ENOUGH RADIUS THE AVERAGE SPEED IS SUPERIOR

CONS: INITIAL COST

INTERSECTIONS

PROS: INITIAL COST

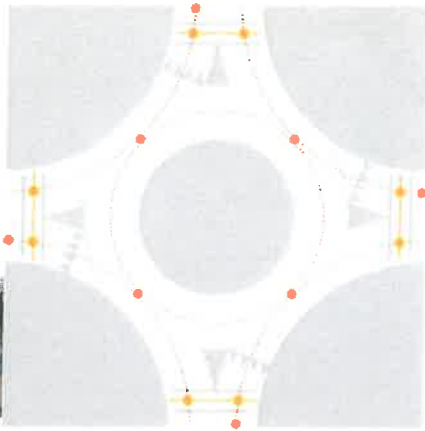
CONS: MAINTENANCE

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

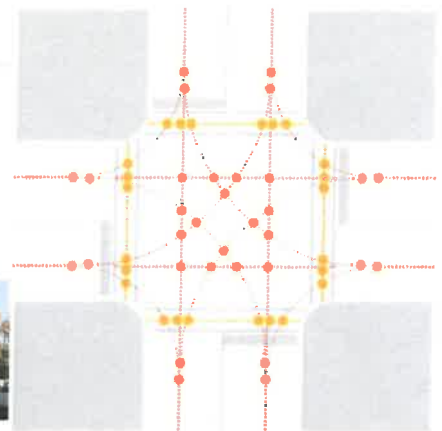
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDAOBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDAOBOUTS

PROS: *Local residents will get used to it.*

CONS: *We have a lot of visitors to casinos that won't be familiar. Difficult with long trailers.*

INTERSECTIONS

PROS:

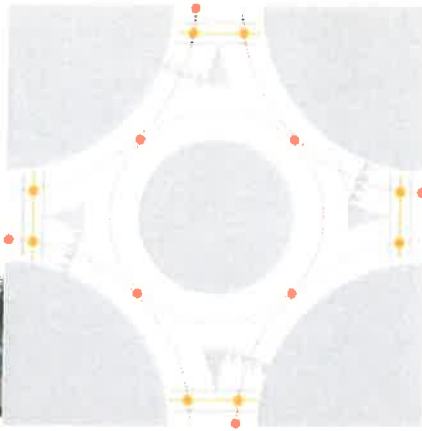
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

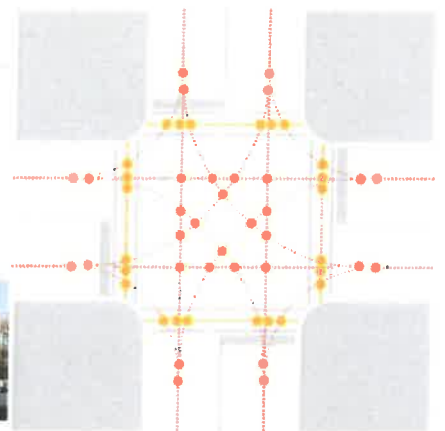
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: *slow traffic*
No needless stoppage

CONS: *Fire or other evacuation unknowns*
Casino traffic not used to them.

INTERSECTIONS

PROS: *Casino traffic*

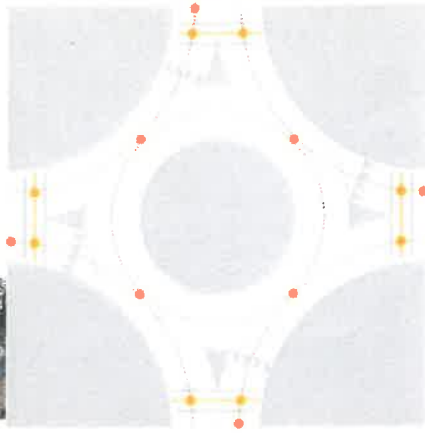
CONS: *must stop when not needed.*

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

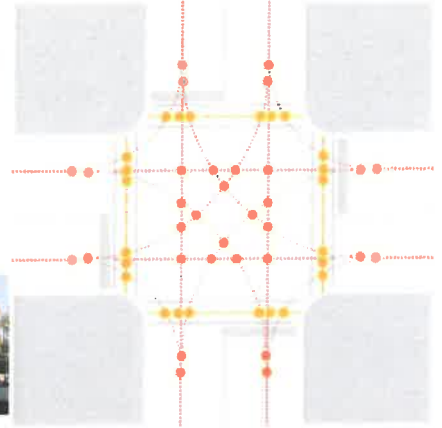
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBABOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

CONS **PROS:** New & we need to adjust to them

PRO **CONS:** safer, slows traffic, better appearance than a signal

INTERSECTIONS

CONS **PROS:** - spacing takes place - drivers try to beat a yellow light before it turns red!!

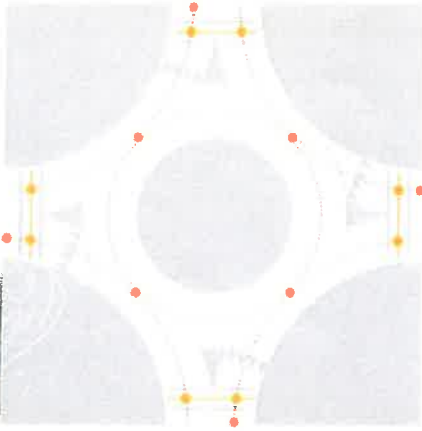
PROS **CONS:** we already are familiar with them

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

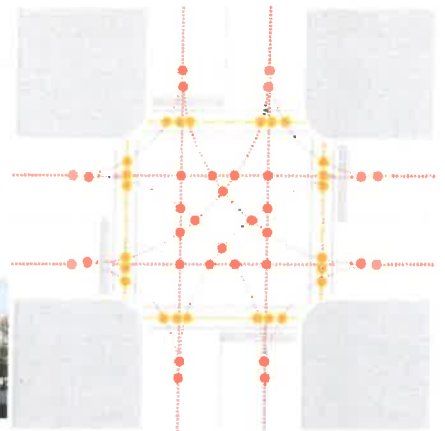
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH			
CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: SAFE TRAVEL
SLOW TRAFFIC

CONS: COST. \$ LAND \$
OKAY IF THE COST TO LAND OWNERS IS THE SAME AS ORIGINAL

WILL PROCEED, RLA

INTERSECTIONS

PROS: ~~SAFE TRAVEL~~
MOTOR TRAFFIC

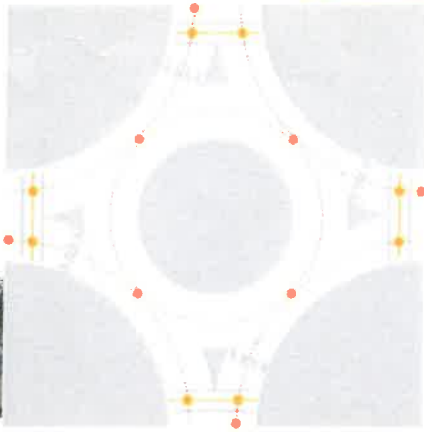
CONS: LONG WAITS
POOR FUEL ECON.

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

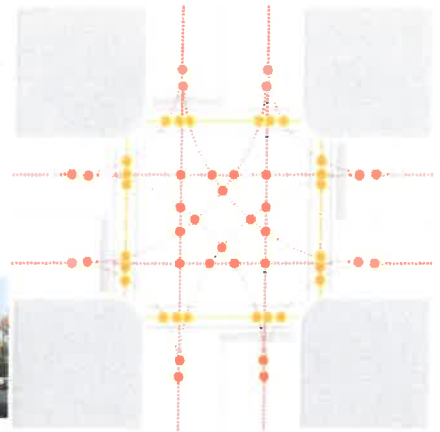
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: *Pretty*

CONS: *Casino Traffic Interceptor
Lights won't be able to see
Evacuation Nightmare*

INTERSECTIONS

PROS: *People know*

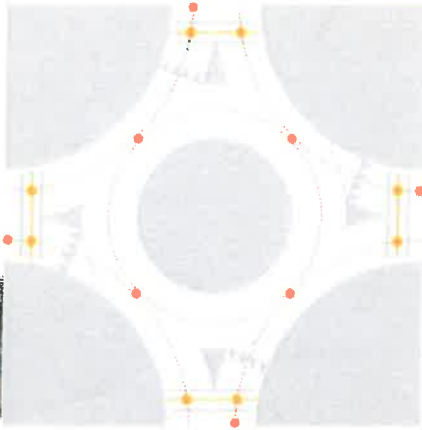
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

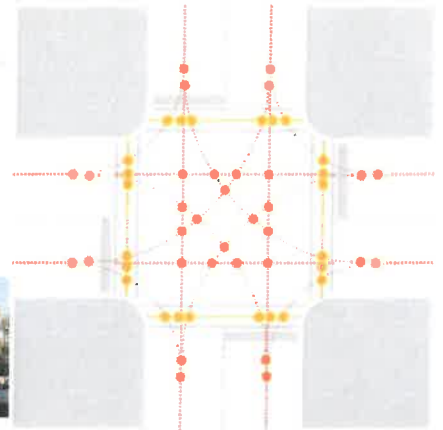
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: *Doesn't stop traffic completely*
This is good for the travel trailers going to or returning from desert

CONS:

INTERSECTIONS

PROS:

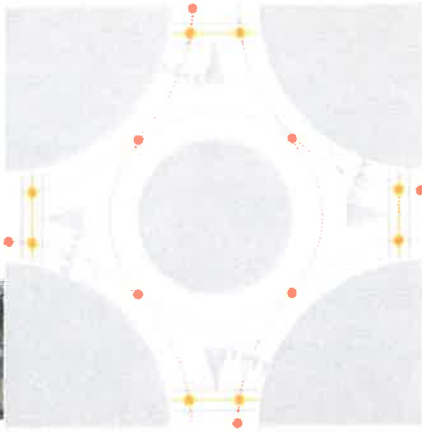
CONS:

Stop traffic - used to drive 2 miles to work, 10 signals, ~~and~~ when you leave one the next one turned red. You stopped 10 times

Roundabouts vs. Signalized Intersections

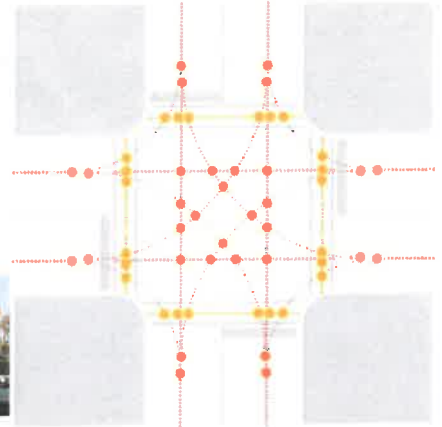
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDAOBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDAOBOUTS

PROS: *Safety, flow,*

CONS: *Unfamiliarity with function*

INTERSECTIONS

PROS: *Familiarity*

CONS: *Have to stop on Red even if there's no traffic*

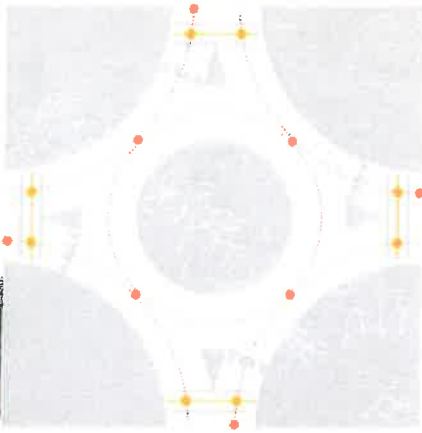


Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

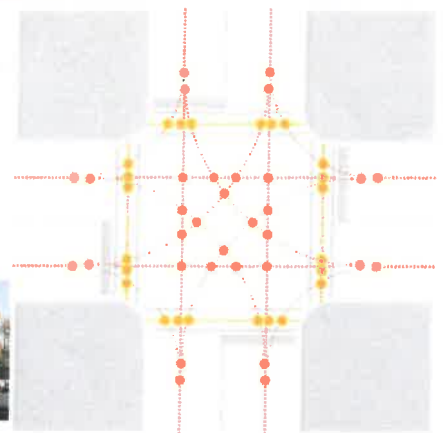
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: no stopping and starting & no cross traffic

CONS: no time to check phone messages if theres no signals

INTERSECTIONS

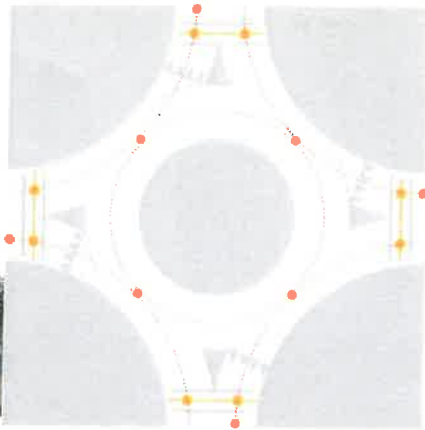
PROS: opportunity for pedestrian crossing

CONS: have to stop and wait even if there's no cross travel.

Roundabouts vs. Signalized Intersections

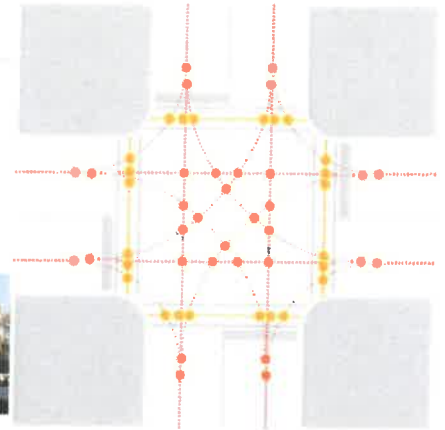
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: *Look attractive.*

CONS: *Confusing to people who have never used a roundabout & Hell if you get stuck going roundabout because no one will let you into the lane you need in order to get out of roundabout.*

INTERSECTIONS

PROS: *familiar*

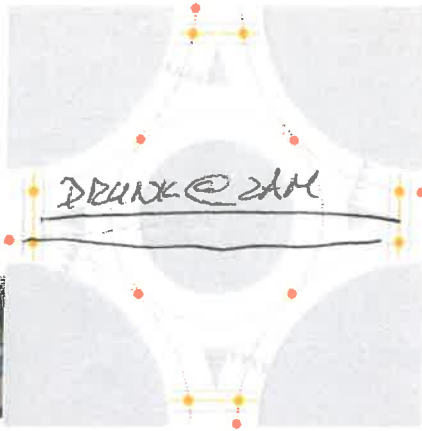
CONS: *sometimes prone to accidents.*

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

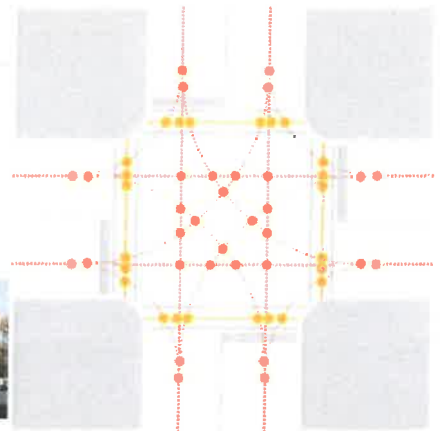
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH			
CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS:

1 lane each way best

CONS:

*bad if lots of non-local traffic
Dangerous for legions of people
coming out of casinos*

INTERSECTIONS

PROS:

*2 lane each way best
good if lots of non-local traffic*

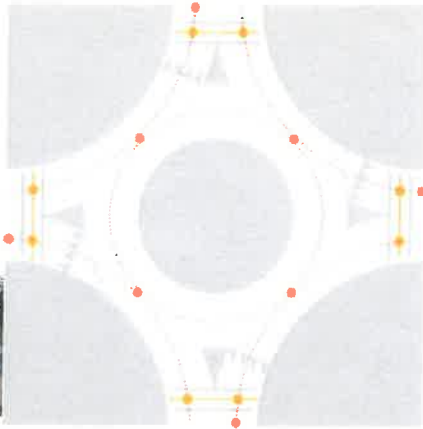
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

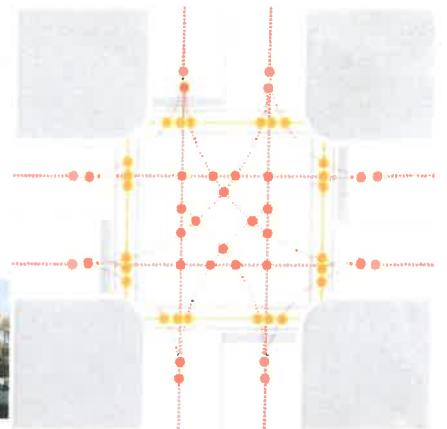
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS:

INTERSECTIONS

PROS: *safety safer for pedestrians and left turns for vehicles*

CONS: *do Californians really take the time to yield? I don't think so! I can't see this as a safe option for emergency vehicles or in an evacuation. To do it right I don't believe there is enough space @ the Mirar de Valle for a round about*

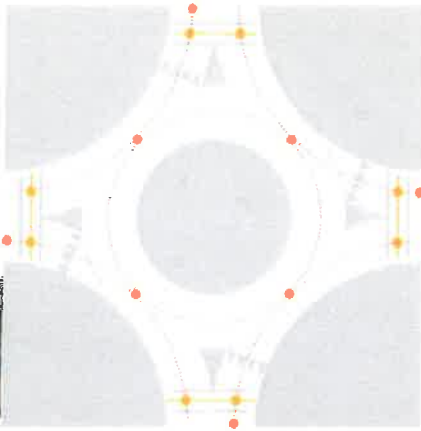
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

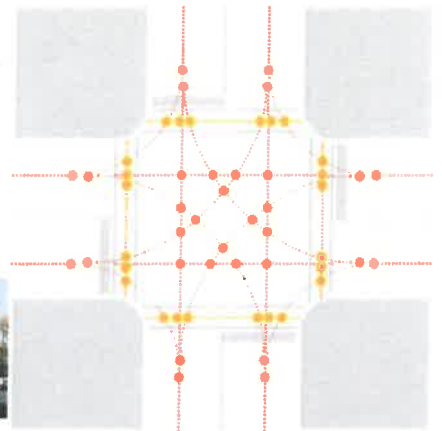
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: *Valid advantages*
IF They are big enough

CONS: *IF too small we have seen semis have to back up to negotiate*

Also they require courtesy, patience and defensive driving - sorely lacking in CA

INTERSECTIONS

PROS: *These are known entities and drivers don't have to adjust*

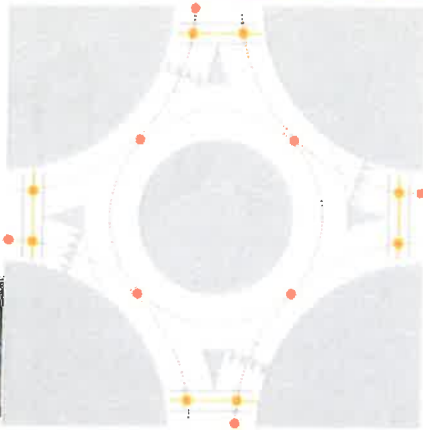
CONS: *Bad if not enough lanes, (right turn, bicycle left turn, etc)*

Handwritten scribbles and initials.

Roundabouts vs. Signalized Intersections

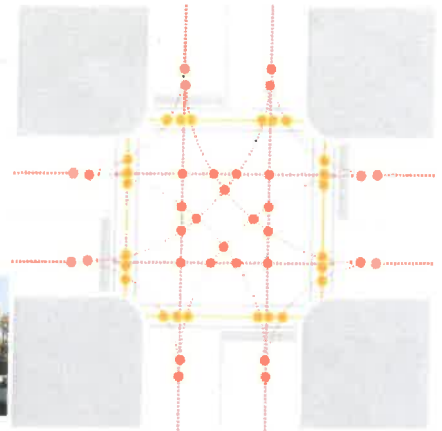
Roundabouts

-  **8** Vehicle Conflicts
-  **8** Pedestrian Conflicts



Intersections

-  **32** Vehicle Conflicts
-  **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH			
CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: No pedestrian lights ^{signal} that stop cars.

CONS: Does not allow for higher speed mass evacuation during wildfire

INTERSECTIONS

PROS: ~~higher maintenance cost~~
Allows priority for emergency vehicles and faster evacuation

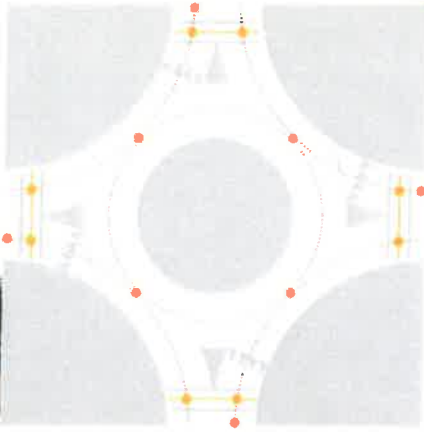
CONS: Higher maintenance
Having to wait w/ no cross traffic

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

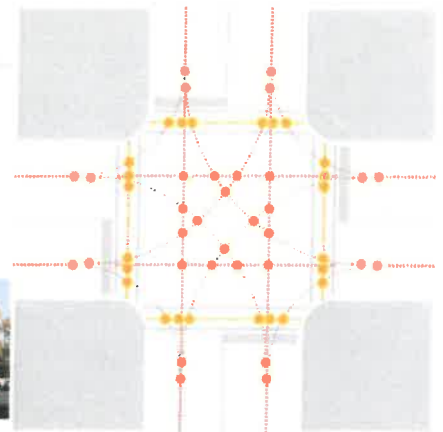
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		
	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: *Lets traffic flow*

CONS:

INTERSECTIONS

PROS:

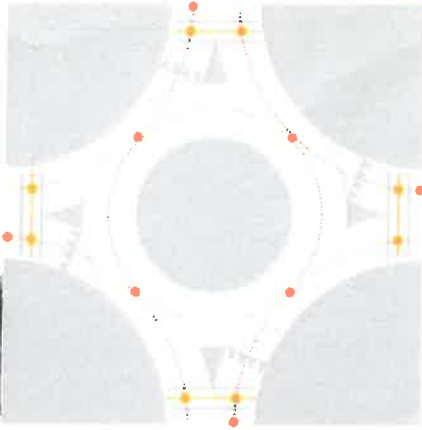
CONS: *If there are too many signals it will be very difficult to get through town.*

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

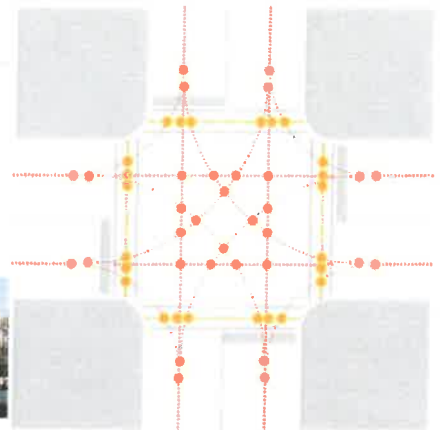
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH			
CRITERIA	ROUNDAOBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDAOBOUTS

PROS:

Traffic flow

CONS:

*Reduction walking?
Cost to Build*

INTERSECTIONS

PROS:

USE

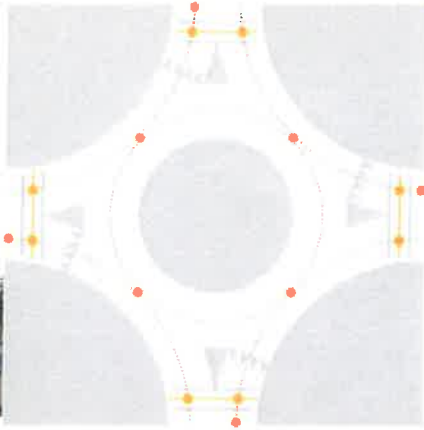
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

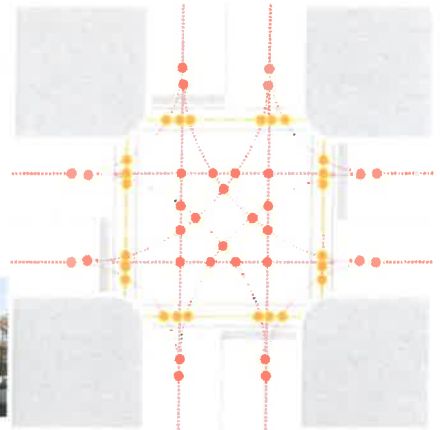
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDAOBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDAOBOUTS

PROS:

CONS: *what does VC FD say?
Fire evacuation?*

INTERSECTIONS

PROS:

CONS:

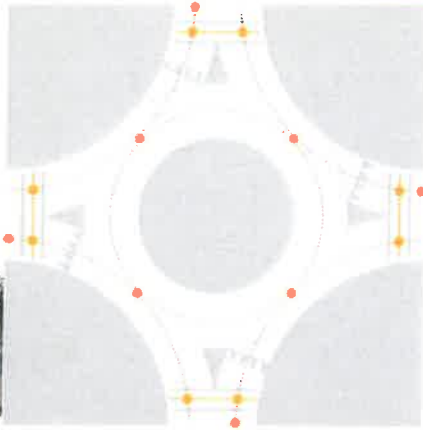
Not enough information to say!

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

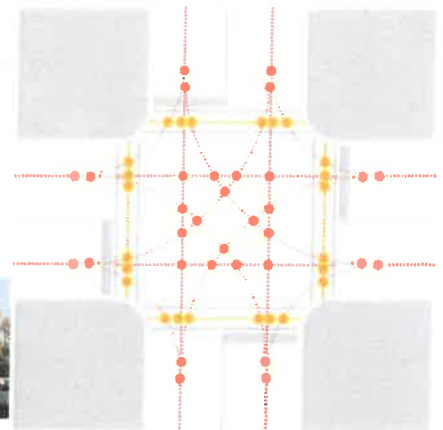
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: LIKE idea of roundabouts, but concerned about pedestrian safety; WHERE would crosswalks be placed? And how marked + signaled?

CONS:

INTERSECTIONS

PROS:

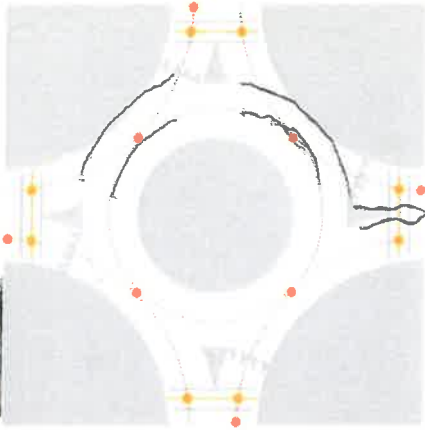
CONS: Lights should be timed/set so drivers DON'T have to sit at a red light + see NO cross traffic. Stopping for a short time okay (to keep people alert), but a long stop just wastes gas +

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

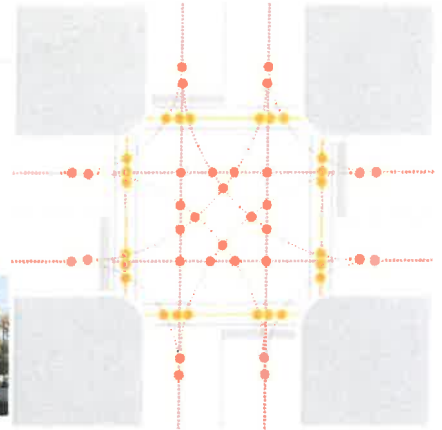
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH			
CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: slower traffic
aesthetically pleasing
not having to wait behind stop light

CONS: —

INTERSECTIONS

PROS: ~~waiting behind a light at~~
none

CONS: waiting, waiting off side streets

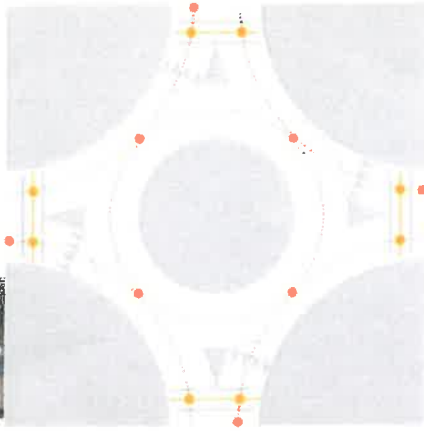
We have two situations in Valley Center. One for everyday living, and one in case of emergency (fire evacuation)

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

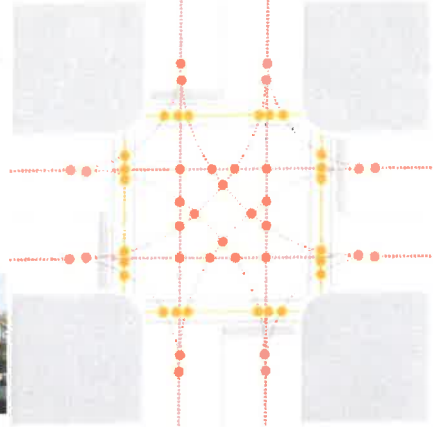
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: All of the above benefits -
Aesthetics & the ability to make
V.C. unique & inviting - smooth
traffic flow & safety -

CONS:
Up front cost -
Learning curve

INTERSECTIONS

PROS: People are used to them

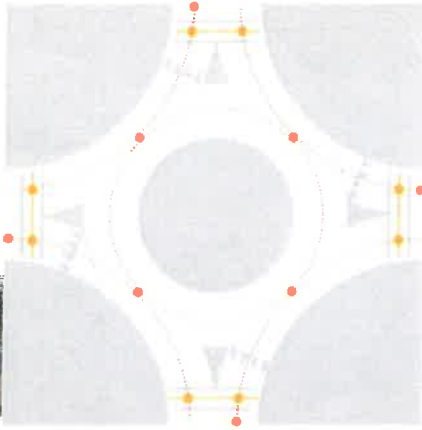
CONS:
Close together leads to congestion
that block intersections -
Suggers for side streets.

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

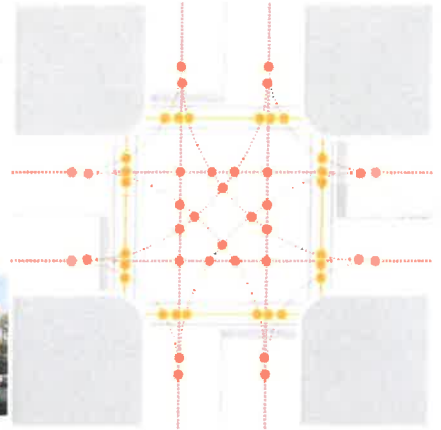
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH			
CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS:

DRIVER EDUCATION (NEED TO UNDERSTAND FLOW)

CONS:

INTERSECTIONS

PROS:

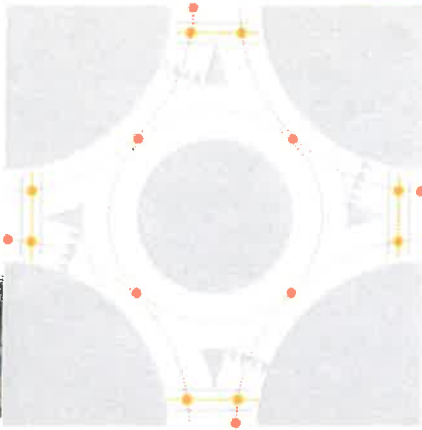
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

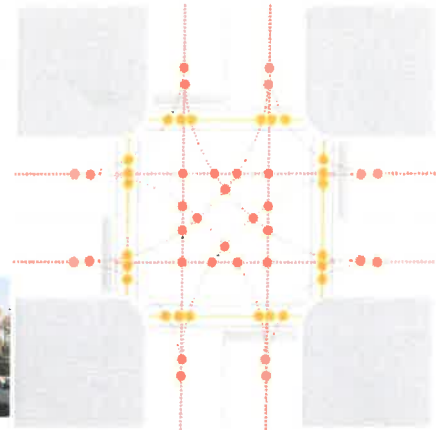
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: *Neither*

CONS: *Neither*

INTERSECTIONS

PROS: *Neither*

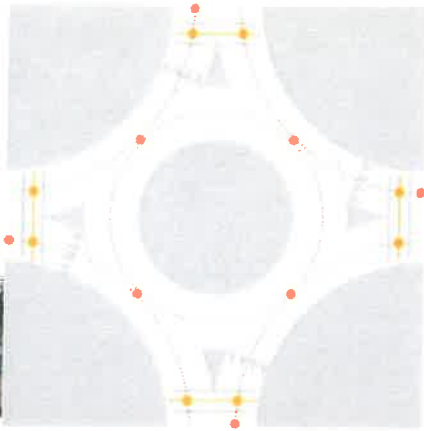
CONS: *Neither*

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

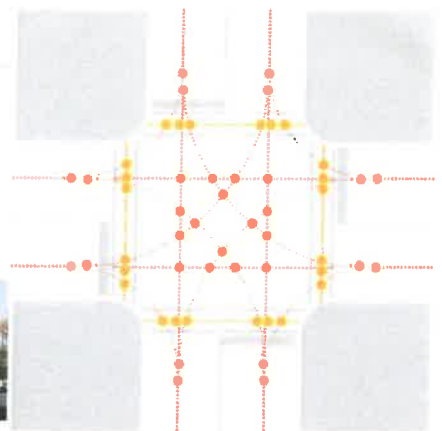
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: slows the speed of traffic

INTERSECTIONS

PROS: more likely to be hit head on or t-bone

CONS: difficult for larger vehicles may not be observed by ~~casual~~ casino traffic

CONS:

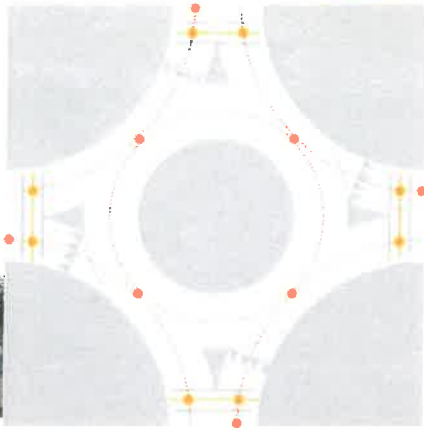
maybe challenging during evaluation

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

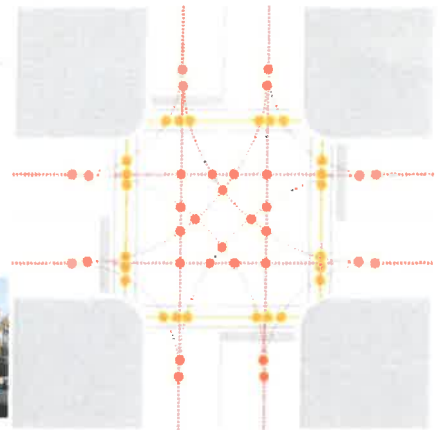
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
more space Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after <u>construction</u>

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: They work in non busy streets

CONS: Do not work on heavily traffic corridors. With 700+ homes being built that would put 1400+ cars in Am a evening trying to enter Ye Rd. — Will NOT Accomodate 30M cars — Costs are prohibitive

INTERSECTIONS

PROS: Allows gaps in traffic no traffic entering & exiting businesses could enter Ye rd. Need signals in sync with other signals.

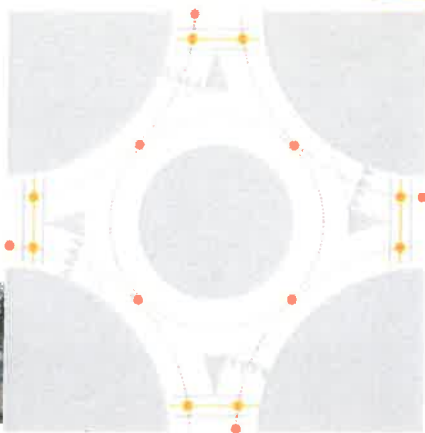
CONS: Better for emergency vehicles Double CR causes of Accidents: Drinking Drugs & Lousy drivers, Cell phones contribute

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

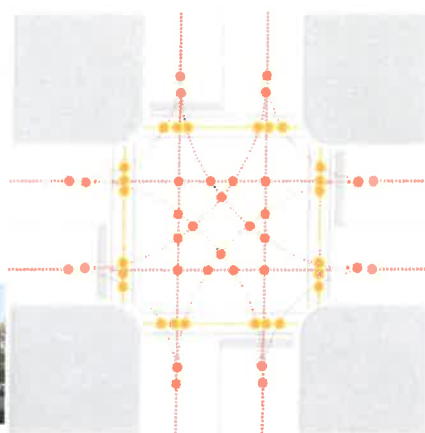
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: on Lilae by
Lilac Foods + on
Vesper

CONS: Not on the
main VC Road


INTERSECTIONS

PROS: on main roads

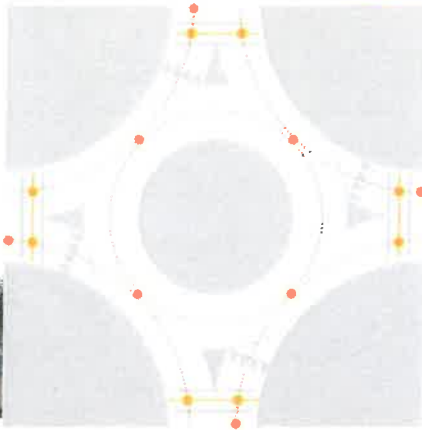
CONS: Not on small
road,

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

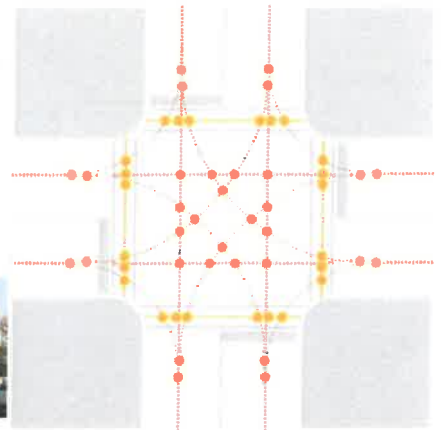
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: *Aesthetics, ↓ speed define community as safe can be designed to accommodate fire apparatus.*

CONS: *Unfamiliar possible problem to fire equipment*

INTERSECTIONS

PROS: *Can be synchronized may help emergency response time*

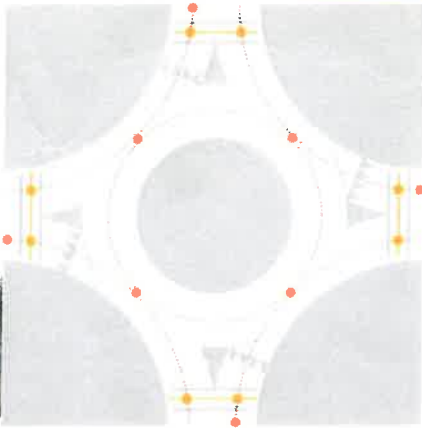
CONS: *Annoying and ugly, can blow thru red light. We have too many accidents already*

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

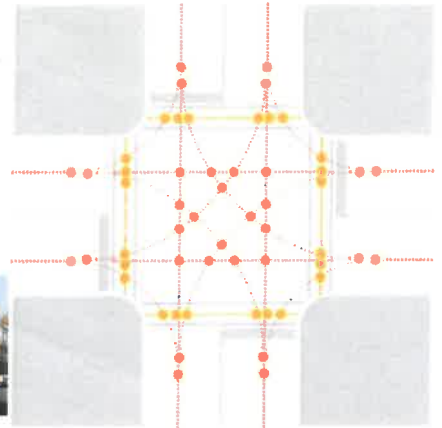
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS:

Yes!

CONS:

INTERSECTIONS

PROS:

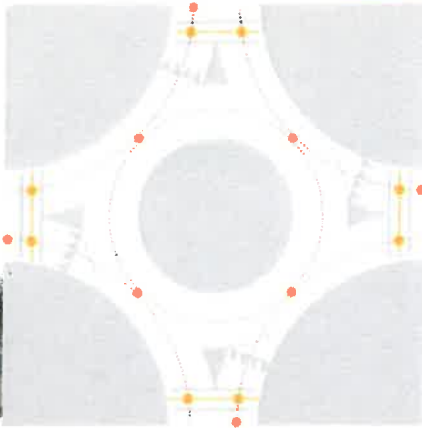
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

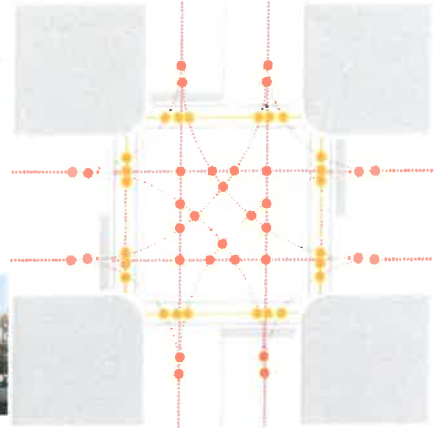
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS:

Prettier + safer

CONS:

Why is the cost so high!?

INTERSECTIONS

PROS:

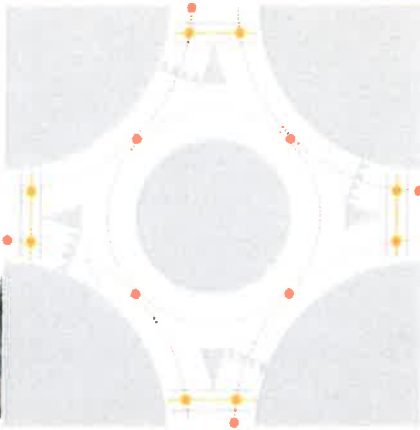
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

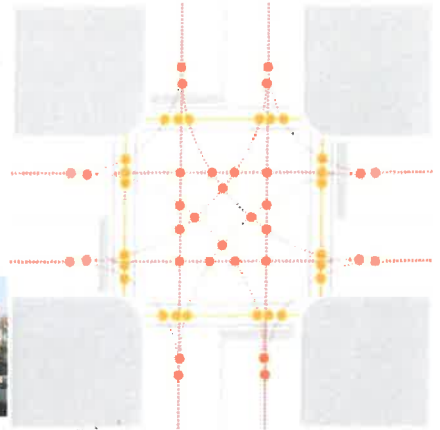
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: *as long as they are large enough*

CONS: *Expensive!*

INTERSECTIONS

PROS:

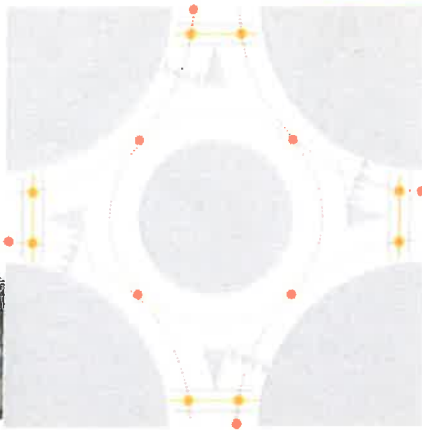
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

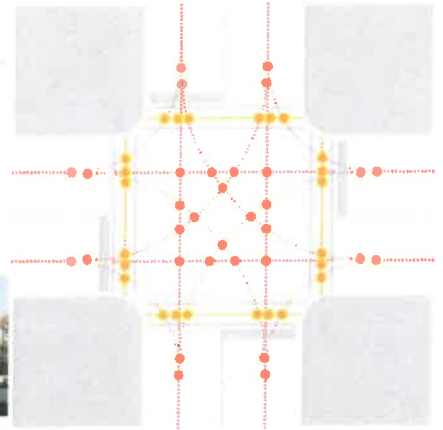
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: traffic flow
less accidents
less maint
prettier \$

CONS: more space

more exp
to build

INTERSECTIONS

PROS: controlled
fits in space

CONS: more accidents

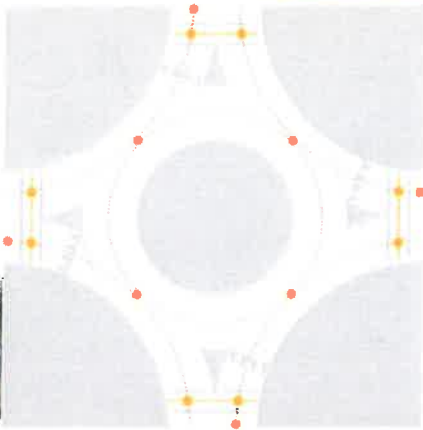
more exp
to maintain

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

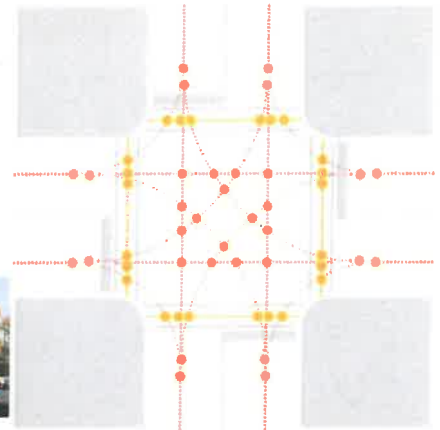
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBABOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: *safety, lower speeds, likely fewer collisions*

CONS: *space required - but worth it*

INTERSECTIONS

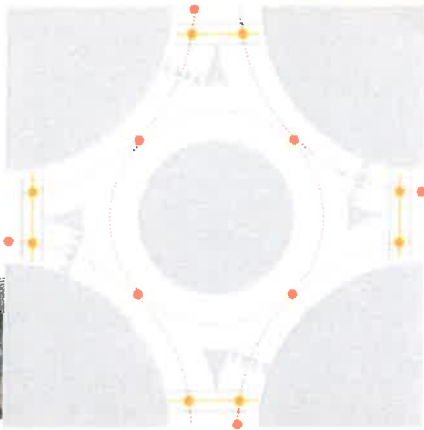
PROS: *well understood*

CONS: *not as safe; familiarity has bred contempt for compliance with lights; Crashes potentially more severe*

Roundabouts vs. Signalized Intersections

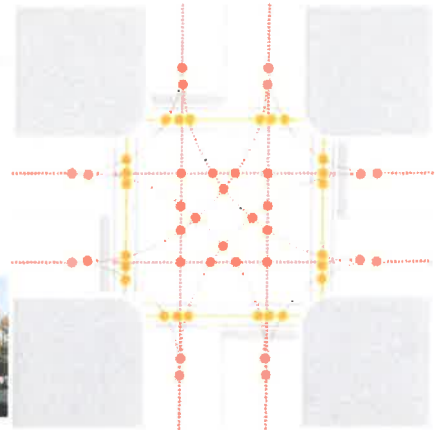
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: AGREED BETTER FLOW

CONS: NOT WIDELY USED
IN SOCIAL
NO SIGNALLED PEDESTRIAN
CROSSING

INTERSECTIONS

PROS: WELL KNOWN PROCESS

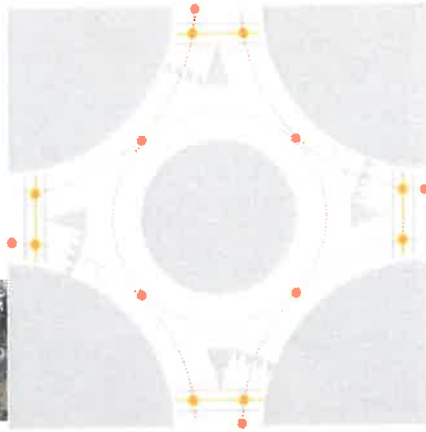
CONS:



Roundabouts vs. Signalized Intersections

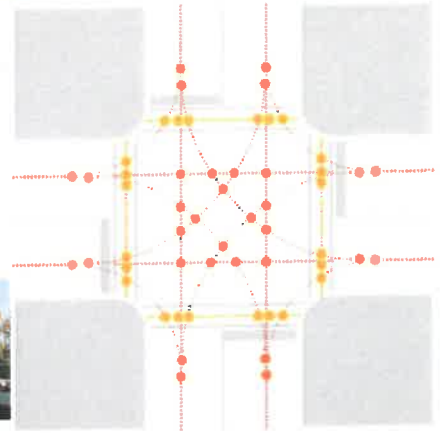
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS:

- SLOW TRAFFIC, REDUCE BHG
- SAFER - FEWER INJURIES + FATALITIES
- KEEP TRAFFIC MOVING DURING EVACUATIONS

CONS:

- MORE COSTLY INITIALLY
- REQUIRE MORE SPACE
- PUBLIC NEEDS TO BE EDUCATED

INTERSECTIONS

PROS:

- CHEAPER INITIALLY
- PUBLIC IS MORE FAMILIAR

CONS:

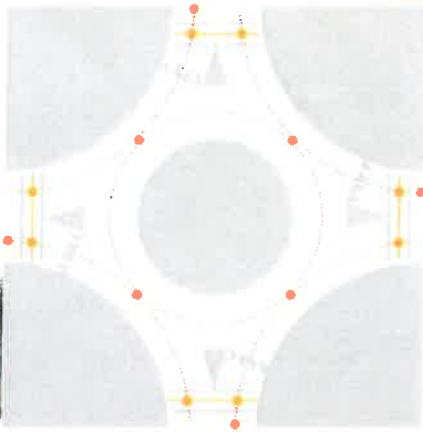
- STOP + START TRAFFIC
- MORE BHG
- CREATES CONGESTION DURING EVACUATIONS

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

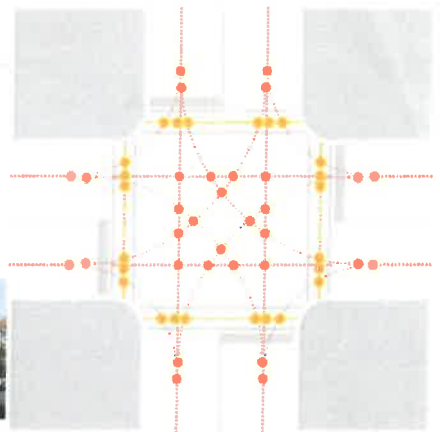
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS:

Cost.

CONS:

Cost.

INTERSECTIONS

PROS:

Cost.

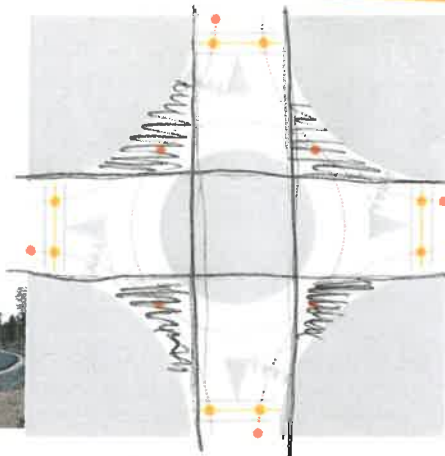
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

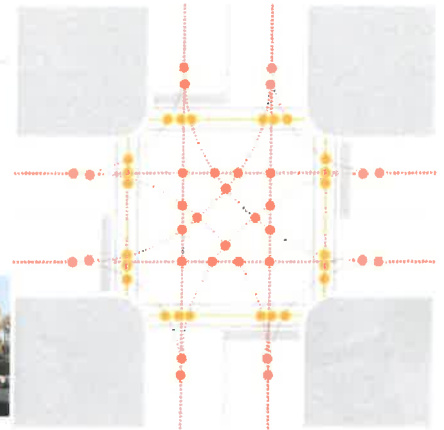
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS:

Flow, speed, visual

CONS: *Access to corner business*

INTERSECTIONS

PROS:

Business

CONS:

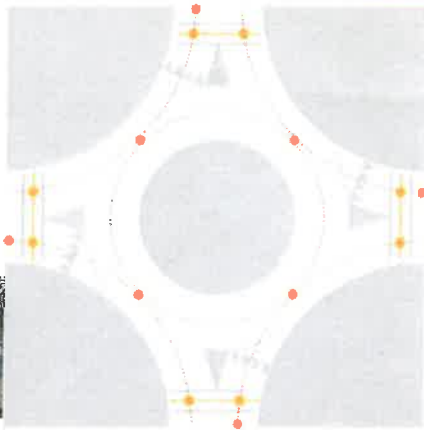
Space

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

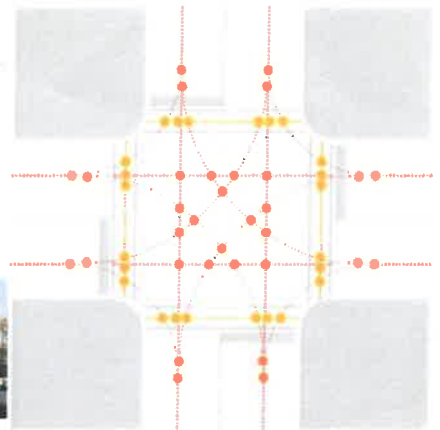
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS:

less wait time (no wait time)
less major accidents

CONS:

none
initially more expensive

INTERSECTIONS

PROS:

familiar

CONS:

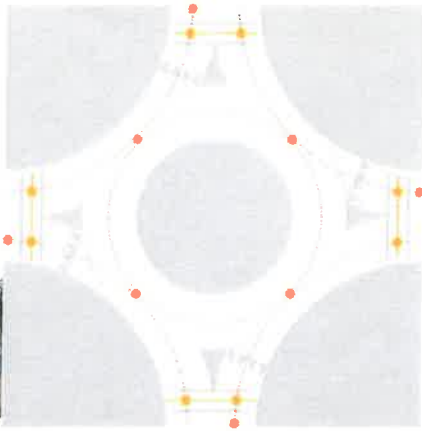
accidents more severe
wait longer -
wastes gas - ENVIRONMENTAL CONCERNS

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

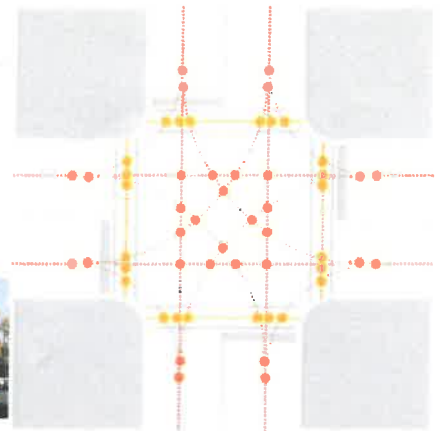
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		
	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: *not as many crashes, more drive friendly,*

CONS: *needs to be big enough, where would the land come from? Against Eminent Domain!*

INTERSECTIONS

PROS: *comfortable with it.*

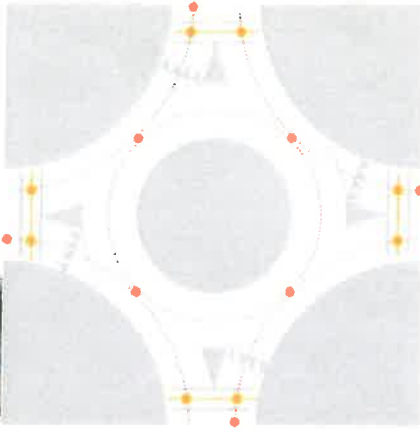
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

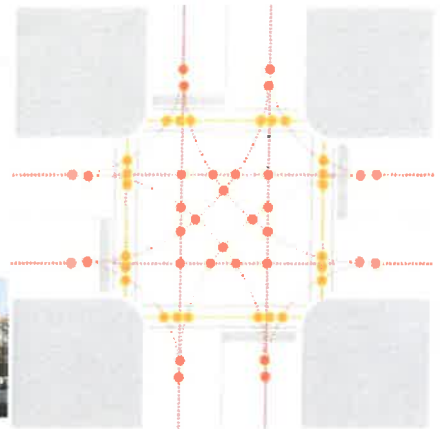
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS:

CONS: *not enough people know how to use them correctly; usually not big enough for large trucks to maneuver*

INTERSECTIONS

PROS: *probably best, but need to be synchronized to maximize flow*

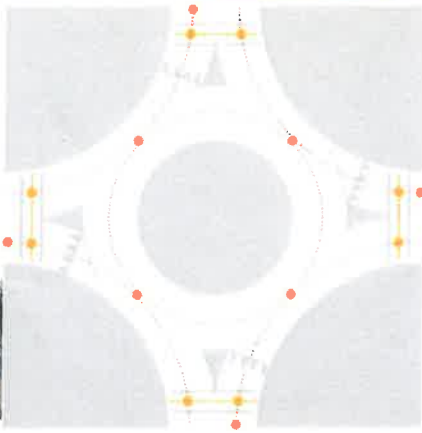
CONS:

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

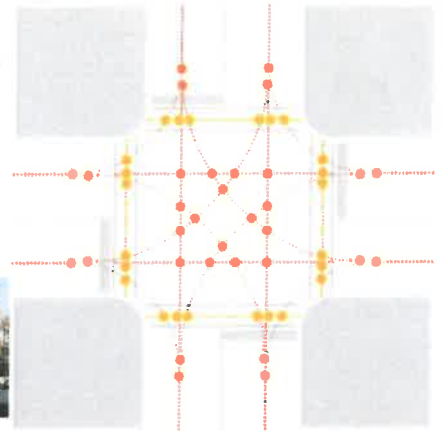
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS:

*Attractive,
Efficient,*

CONS: *takes too much space*

INTERSECTIONS

PROS:

can be timed to function well,

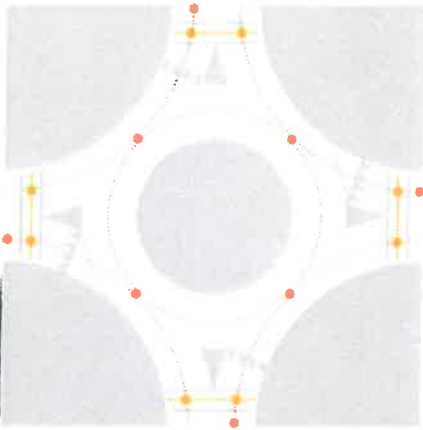
CONS: *ugly*

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

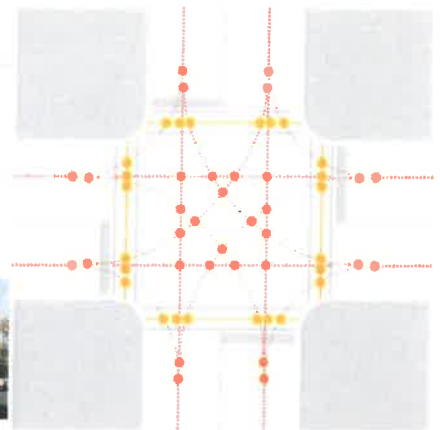
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: - Flow of traffic - reducing speeds, safer for Pedestrians & Bicycles
Better for Environment -

CONS: Takes more real estate, But this is valley center - we have space!

INTERSECTIONS

PROS: well known

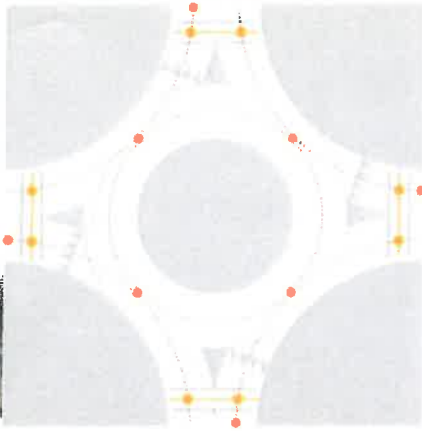
CONS: Racing between lights to make before turns Red - Less safe - Gas wasting stop+go traffic - & MISSIONS

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

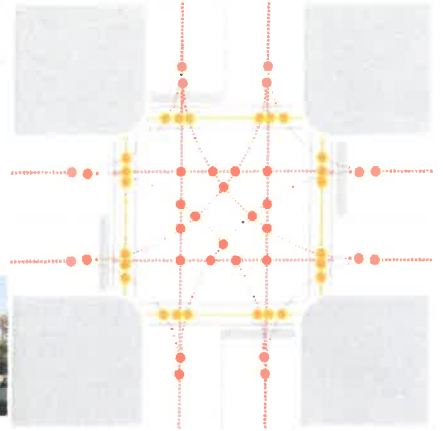
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBABOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: Traffic flows as opposed to stopping at frequent lights. Slows traffic. Safer.

CONS: Can be confusing.

INTERSECTIONS

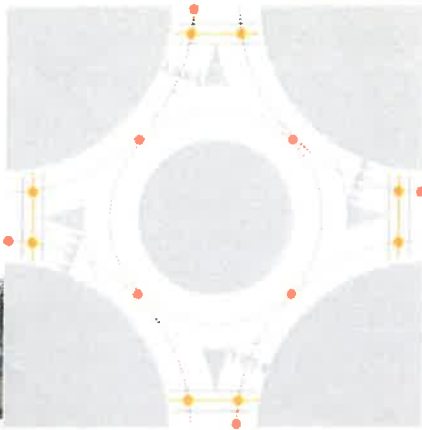
PROS: Straight forward. ~~Less attractive.~~

CONS: Less attractive. High speeds in between. Less safe. Emissions while at light.

Roundabouts vs. Signalized Intersections

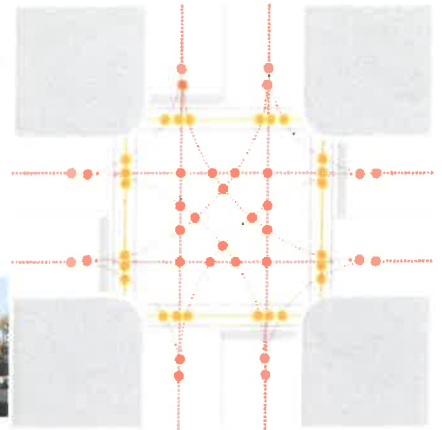
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: *Will slow traffic*

CONS: *With heavy traffic - hard to access roundabouts.*

INTERSECTIONS

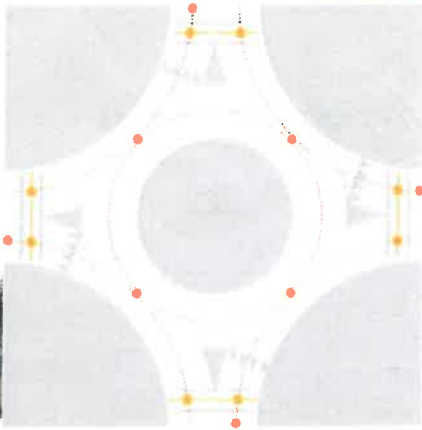
PROS: *traffic will continue easily understood*

CONS: *increased emissions while waiting*

Roundabouts vs. Signalized Intersections

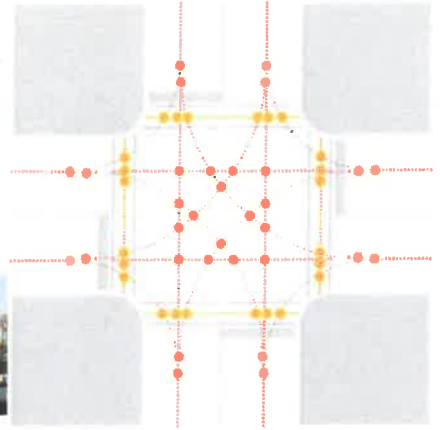
Roundabouts

-  8 Vehicle Conflicts
-  8 Pedestrian Conflicts



Intersections

-  32 Vehicle Conflicts
-  24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBABOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBABOUTS

PROS: CONTINUOUS FLOW AT VERY SLOW SPEED?

CONS: NO BREAK IN TRAFFIC FLOW FOR PEDESTRIANS OR ENTRY/EXIT OF VEHICLES/BIKES
CONGESTION DUE TO SLOW SPEED

INTERSECTIONS

PROS: GIVES PEDE A CHANCE TO ENTER/EXIT AND CROSS

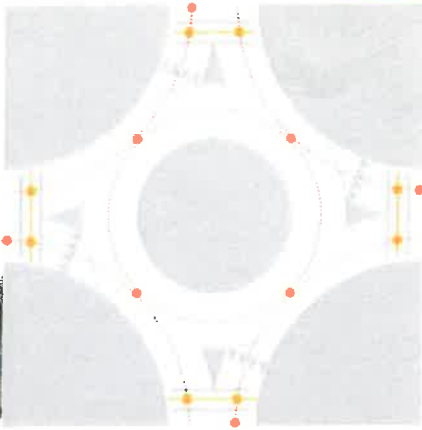
CONS: STOPS TRAFFIC

Roundabouts vs. Signalized Intersections

Roundabouts

 **8** Vehicle Conflicts

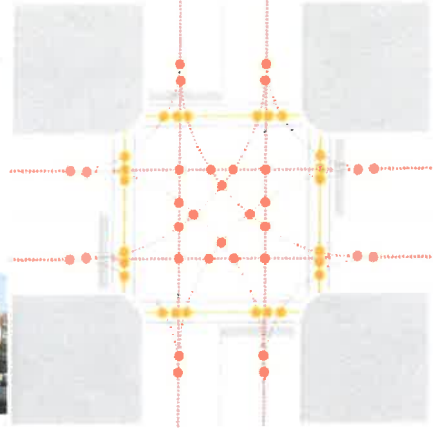
 **8** Pedestrian Conflicts



Intersections

 **32** Vehicle Conflicts

 **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: I like traffic flow in roundabouts
It's prettier
Forces use of sidewalks

CONS: Multilane roundabouts are confusing
Requires good sidewalk system

INTERSECTIONS

PROS: familiar

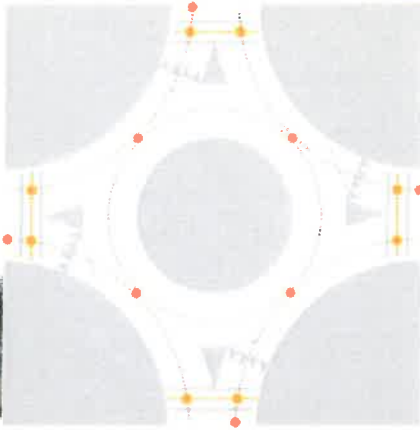
CONS: Timing gets out of whack +
constant manipulating of the lights

Roundabouts vs. Signalized Intersections

Roundabouts

 8 Vehicle Conflicts

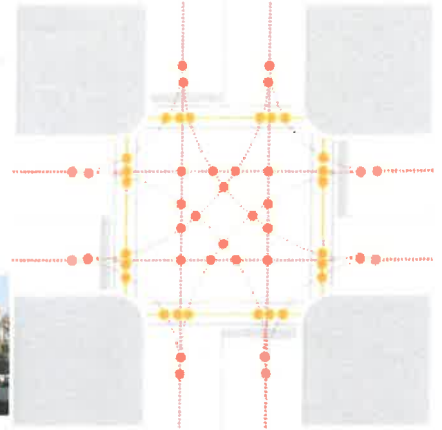
 8 Pedestrian Conflicts



Intersections

 32 Vehicle Conflicts

 24 Pedestrian Conflicts



How do Roundabouts and Intersections compare?

ADVANTAGES OF EACH

CRITERIA	ROUNDBOUTS	INTERSECTIONS	WHY?
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS:

CONS: REQUIRES MORE DRIVER SKILL TO MERGE IN & DRIVE IN A CURVE AS OTHERS ALSO ENTER - REAR END IS NOT PRECLUDED AS THE DIAGRAM SUGGESTS TO BE

INTERSECTIONS

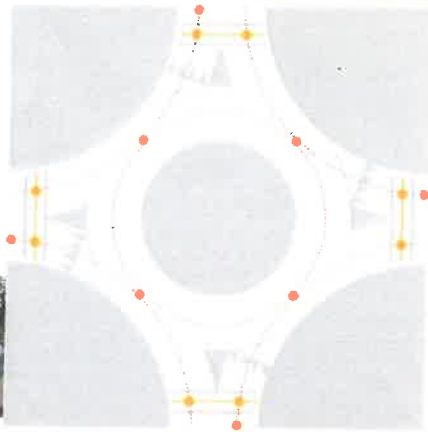
PROS: THE VEHICLES "CONFLICTS" IN THE DIAGRAM SEEM CONTRIVED - i.e. where is A CAR STOPPING BEHIND ANOTHER AT

CONS: A SIGNAL A "CONFLICT"? IF ITS BECAUSE THERE CAN BE A REAR ENDER WHAT PRECLUDES THAT IN THE ROUNDABOUT.

Roundabouts vs. Signalized Intersections

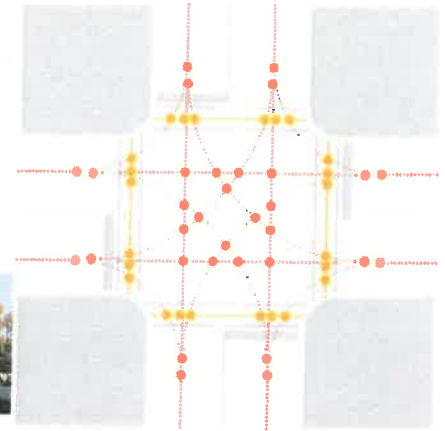
Roundabouts

-  **8** Vehicle Conflicts
-  **8** Pedestrian Conflicts



Intersections

-  **32** Vehicle Conflicts
-  **24** Pedestrian Conflicts



How do Roundabouts and Intersections compare?

CRITERIA	ADVANTAGES OF EACH		WHY?
	ROUNDBOUTS	INTERSECTIONS	
# of Injury Collisions	✓		Vehicles must slow down to enter roundabouts
Collision Severity	✓		Vehicles in roundabouts travel in the same direction
Roadway Space		✓	Signalized intersections require less space
Traffic Flow	✓		Vehicles yield at roundabouts but are not required to stop
Comfort		✓	People are familiar with how signalized intersections work
Visual Features	✓		Roundabout center islands present opportunities for community entry features/landscaping
Construction Cost		✓	Signalized intersections can be less expensive to construct
Operating Cost	✓		Roundabouts can be less expensive to maintain and operate after construction

What do you think are the pros and cons for each solution?

ROUNDBOUTS

PROS: Much more efficient.
Control speeds. More attractive.

CONS: Harder to get property rights.
Fewer Americans know have experience with roundabouts.

INTERSECTIONS

PROS: Most Americans aren't taught how to handle roundabouts,
If coordinated, can control speeds & gaps.

CONS: Higher emissions.
Racing from light to light.
Being stopped when no crossing traffic.