

MEMORANDUM

TO: Fort Myers Beach Town Council

FROM: Bill Spikowski **DATE:** November 27, 2006

SUBJECT: Times Square Workshop — November 29th, 2006

On November 29th the Town Council has scheduled a second workshop to discuss redevelopment near Times Square.

Two documents are attached as additional background for this workshop:

- **Preliminary estimates of development capacity for the Meyers properties.**These estimates are provided in two parts:
 - (1) The maximum development capacity of the beachfront properties is presumed to be "building back" the pre-existing square footage of enclosed space and number of motel rooms. These estimates are based on official records of the town (for buildable land area), Lee County Property Appraiser (for square footage of existing enclosed space), and Florida's Department of Business & Professional Regulation (for number of licensed motel rooms).
 - (2) The maximum development capacity of the Seafarers/Helmerich properties is presumed to be the same as provided in the May 2005 development agreement for Seafarer's Plaza. Please note that full realization of those development rights is contingent on the developer providing adequate parking in a location and form satisfactory to the town; the original proposal, which was for a parking garage that would have been visible to incoming traffic on the Sky Bridge, was rejected by the Town Council.

Through the rezoning process, the Town Council can authorize the reallocation of these development rights within the combined site.

■ Pages 23 through 38 of the town's draft Evaluation/Appraisal Report, which was dated August 1, 2006. These pages describe the town's previous analysis of desirable redevelopment of the properties in question, including the results of a detailed analysis of alternate traffic patterns in the immediate area. (The final draft of this report will be available shortly.)

Development Capacity Estimates for the Meyers Properties near Times Square

Buildable <u>acreage</u>	0.2 0.3 0.4 0.2 0.2 0.1 0.1	Buildable acreage 3.6	Buildable acreage 5.8
S-T-R-A-P NUMBER	24-46-23-W3- 00015.0000 24-46-23-W3- 00014.0000 24-46-23-W3- 00013.0000 24-46-23-W3- 00009.0000 19-46-24-W4- 0140B.0070 19-46-24-W4- 0140B.0020 19-46-24-W4- 0140B.0010 19-46-24-W4- 0140B.0010 19-46-24-W4- 0140B.0040		
Average size of <u>motel rooms</u>	345 526 271 329 520 - - - 359	Average size of motel rooms 874 874	Average size of motel rooms 529
Number of motel rooms	9 333 61 61 	Number of motel rooms 65 -	Number of motel rooms 197
Motel space in square feet	3,102 10,518 8,956 - 20,067 4,680 - - - - - - - - - - - - - - - - - - -	Future motel space in square feet 56,828 - - 56,828	Motel space in square feet 104,151
Non-motel space <u>in square feet</u>	1,770 1,770 3,036 2,040 822 944 8,612	Future non-motel <u>space, in square feet</u> 6,592 13,065 6,465	Non-motel space in square feet 94,534
PARCELS:	Description: Sandman Howard Johnsons Days Inn Jimmy B's Ramada main bldg Ramada beachfront shops shops detached house detached house	PARCELS: Existing non-motel space, in square feet 34,000 - 25,800 59,800	- -
BEACHFRONT PARCELS:	Street Address: 1080 Estero Blvd. 1100 Estero Blvd. 1130 Estero Blvd. 1130 Estero Blvd. 1160 Estero Blvd. 1172/74 Estero Blvd. 1172/74 Estero Blvd. 231 Canal Street 221 Canal Street	SEAFARER'S PARCELS: Exi Component: space Seafarer's hotel Seafarer's retail Seafarer's office Seafarer's restaurants	TOTAL CAPACITY:

POLICY 7-H-3 LEFT-TURNS AT TIMES SQUARE: Northbound traffic headed for Lynn Hall Park now turns left just past Times Square. These turns could interfere with traffic flow on Estero Boulevard; if so, alternatives using Crescent Street should be considered.

EVALUATION OF POLICY 7-H-3: Eliminating left turns for northbound traffic headed toward Lynn Hall Park would require those vehicles to instead travel north on Crescent Street, under the Sky Bridge, and south on Old San Carlos to reach their destinations. Unfamiliar drivers who miss the turn at Crescent Street would have no choice but to leave the island then circle back and return. These difficulties have to be balanced with any minor improvements in traffic flow that would occur by eliminating this left turn. As described beginning on page 30, new alternatives have been examined for this area that are more promising than the simple closure of the turn lane as described in Policy 7-H-3.

B. Community Design Ideas from Planning Charrette

All four major issues highlighted in this report were discussed at public workshops in March and April of 2005. However, the bulk of attention went to redesign ideas for the Times Square area, which is the heart of town for tourists, and increasingly so for seasonal and permanent residents as well.

Although this area has been extensively studied in the past, three factors led to this new attention. The first is the on-going efforts of the town's Traffic Mitigation Agency to quickly implement new ideas for moving traffic on and off the island; some of these efforts could change the pedestrian character of this area. The second is that Hurricane Charley destroyed the Sandman, Howard Johnson, and Days Inn beachfront motels in August 2004, making their replacement by new buildings imminent. Third, major consolidation of land ownership has taken place, with the three destroyed motels now sharing common ownership with the adjoining Ramada Inn and two large commercial parcels across Estero Boulevard (Seafarer's and Helmerich Plazas).

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These factors led to the wide circulation of a drawing showing Estero Boulevard being relocated landward of its current alignment. This concept would expand the pedestrian-only zone at Times Square onto the existing alignment and might help traffic flow by reducing conflicts with pedestrian movements.

The realignment of Estero Boulevard had never been contemplated, partly because the town does not control this road and partly because the diverse property ownership would have made the idea impractical from the outset. With three beachfront motels about to be replaced in one form or another plus the new common ownership, the idea of realignment became worthy of serious study and in fact is an opportunity that is not likely ever to be repeated.

There are important federal and state regulatory programs that complicate all redevelopment plans in

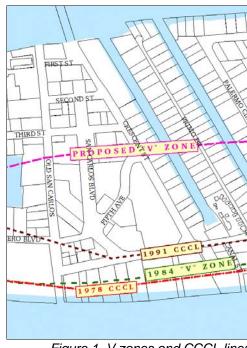


Figure 1, V zones and CCCL lines

this area. In the years since the original buildings were constructed, the federal government has established "velocity zones" (V-zones) and the state of Florida has established two "coastal construction control lines" (CCCL), all of which run roughly parallel to the beach. These lines demarcate areas that are subject to stringent rules designed to make future buildings less vulnerable to flooding. Figure 1 shows the location of these lines near Times Square, including a new V-zone boundary proposed by FEMA in September 2005; Figure 2 provides technical details on each program.

Technical Details on Flood Protection

In V-zones, buildings cannot have any permanent walls at ground level, even if the walls are "dry-floodproofed" to prevent the contents within the walls from flood damage. V-zones, established in 1984, run near enough to the beach that they have had little effect on commercial buildings along Estero Boulevard in this area. The original CCCL line was adopted in 1978; no buildings may be constructed seaward of that line. In 1991 the state established a new type of CCCL that in many cases reaches as far inland as Estero Boulevard itself. New buildings that are seaward of the 1991 CCCL are limited at ground level to enclosures by "permanent walls" of only 20% of the building's width, thus precluding viable commercial space in the main structure. The purpose of this rule is that in the case of the strongest storms, "permanent walls" would be struck by breaking waves and might collapse in such a way as to endanger the upper floors of the structure.

There is an important strip of land about 30' deep along Estero Boulevard where the 1991 CCCL requirements could preclude the very kind of pedestrian-oriented activities that the comprehensive plan and land development code so strongly favor; this strip is landward of the V-zone but seaward of the 1991 CCCL, mainly along the beach side, as shown in Figure 3.

Figure 2, technical details on flood protection

Design teams at the March 2005 planning charrette examined two approaches to minimizing the difficulties that these regulatory programs could cause to the redevelopment effort. One approach would be to move Estero Boulevard slightly away from the beach, thus putting both sides of the street outside the regulatory influence of the 1991 CCCL. This would allow both sides of the street to be rebuilt with doors, windows, and shopfront along wide sidewalks.



Figure 3, showing land that is landward of the V-zone but seaward of the 1991 CCCL

Figure 4 illustrates the character of a classic two-sided Main Street that could be ensured through this minor realignment. This new alignment is shown in site plan format in Figure 5; two versions are shown, one using a simple intersection at the foot of the Sky Bridge similar to what exists there today, the other using a roundabout at that location.

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Streets & People

Streets don't have to be mere traffic channels. Streets can be also be attractive and recreational when citizens and government work together to fulfill public desires for pleasant and stimulating public places.



Figure 4, classic two-sided Main Street

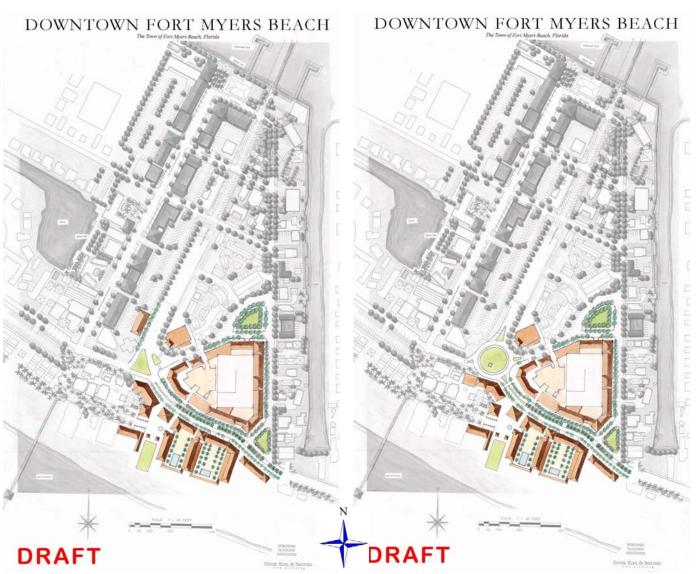
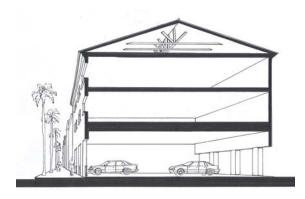
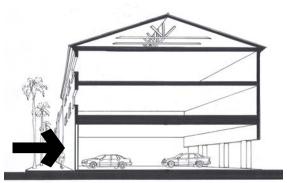


Figure 5, two versions of new alignment for Estero Boulevard

A second approach to the CCCL problem was also considered that would be far less expensive, in that Estero Boulevard would not need to be realigned. This alternative is illustrated in the three sketches in Figure 6 which show typical buildings that could replace the beachfront motels destroyed by Hurricane Charley:

- The top sketch shows the entire building elevated to meet all CCCL and V-zone requirements. The only uses at ground level would be parking and open storage. This is the prototypical building for coastal locations where protection from flooding is the major design criterion.
- The second sketch shows a solid wall built to "breakaway" standards that would separate the parked cars from the sidewalk. This wall would visually screen the parking, but may be nearly as unfriendly to pedestrians and motorists as a full view of the parking area.
- approach that includes shops at ground level. These shops must be shallow enough to avoid extending into the V-zone. Walls would have to be built to structural standards so they would withstand the forces of rising water yet collapse if confronted with breaking waves (to keep from harming the remainder of the building). If this can be done, the building may comply with current CCCL requirements.





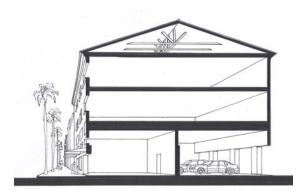


Figure 6, replacing damaged beachfront motels

In September of 2005 the town learned that the federal government was contemplating moving the V-zone boundary further inland (see Figure 1). If this change comes to pass, the approach shown in the third sketch would no longer be a viable solution. Pending this determination, further evaluation of this idea has been postponed.

For the same reason, further evaluation of the street realignment shown in Figure 5 has been postponed.

A quite different approach was also developed and evaluated during the charrette which offers greater promise for improving both traffic flow and livability. This approach would maintain the existing alignment of Estero Boulevard but would create a short new street running parallel to Estero Boulevard from Crescent Street to the foot of the Sky Bridge.

This new street could serve traffic in both directions, providing an alternate route for traffic coming off and on the bridge. With the traffic flow split onto two streets, the interference now caused by pedestrians crossing Estero would be less detrimental to overall traffic flow. A raised pedestrian island in Estero could further assist traffic by allowing pedestrians to cross more easily without stopping traffic. This approach is shown in Figure 7 with the same two variations from Figure 5: one uses a simple intersection at the foot of the Sky Bridge similar to what exists there today, the other uses a roundabout at that location. A major advantage of adding the roundabout is that is provides the traffic-splitting benefits in both directions instead of only for motorists leaving the island.

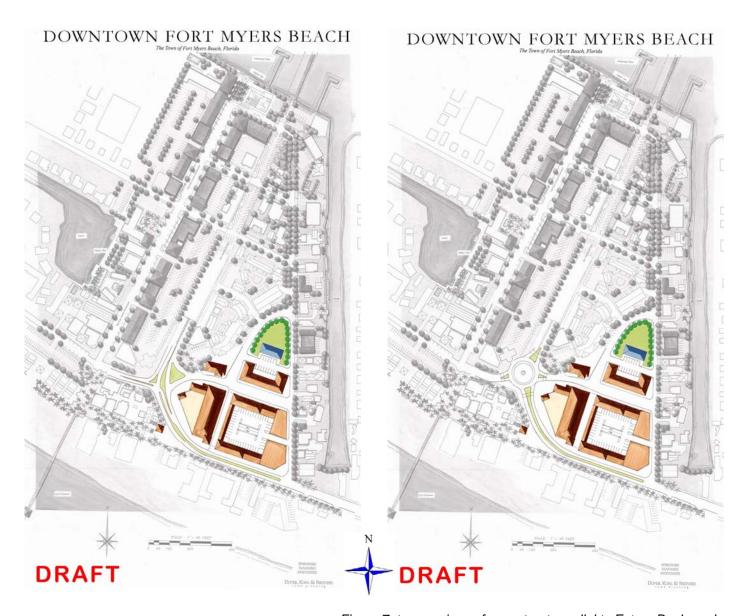


Figure 7, two versions of new street parallel to Estero Boulevard

One variation on these plans would move all traffic onto the new street, allowing the existing Estero to be converted into a pedestrian mall; pedestrians could move freely across the mall without any interference to through traffic. A second variation would allow vehicles to use both the existing Estero and the new street, but both streets would operate as one-way streets; a roundabout would not be needed with this travel pattern, but an alternating light could help the two southbound travel lanes merge back into one lane near Crescent Street. A third variation

would reserve the existing Estero for trolleys, trams, pedestrians, emergency vehicles, and perhaps other permitted vehicles such as those with several occupants or for local residents or businesses.

All of these variations involve acquisition of right-of-way and redesign of adjoining buildings. The town should be able to acquire additional right-of-way at the same time to provide wider sidewalks, pedestrian median refuges, and trolley/tram lanes.

Great Streets

"There is magic to great streets. We are attracted to the best of them not because we have to go there but because we want to be there. The best are as joyful as they are utilitarian. They are entertaining and they are open to all. They permit anonymity at the same time as individual recognition. They are symbols of a community and of its history; they represent a public memory. They are places for escape and for romance, places to act and to dream. On a great street we are allowed to dream; to remember things that may never have happened and to look forward to things that, maybe, never will."

— Great Streets, by Allan B. Jacobs

About five years ago a landscaped roundabout was proposed as a distinctive entry feature at the foot of the Sky Bridge. This idea never gained community support. A roundabout is worth reconsidering now because it would provide many traffic circulation benefits at this difficult location. At present, very few turns are allowed at this intersection, requiring many motorists to use circuitous routes to reach their destinations. These detours are confusing for visitors and add to the traffic congestion on nearby streets.

A properly designed roundabout would allow vehicles approaching from all four directions to select the most direct route for their own purposes. This choice of movement in every direction, including left turns, is available only with a roundabout; with other intersection designs, left turns often cause unacceptable delays to the flow of traffic and must be prohibited.

A roundabout would be particularly useful if the new street is constructed from this location directly to Crescent Street as shown in Figure 7. Some traffic coming onto the island would use this new street as an alternative to Estero Boulevard (mainly local residents who would understand its advantages, especially during congested periods). Visitors would tend to continue straight on Estero, the obvious and historic through-route. A traffic signal would be required at Crescent and Estero for optimal utilization of the parallel streets.

Reducing the traffic flow on this block of Estero, even slightly, would soften the impacts of heavy pedestrian usage there. The roundabout would also allow maximum flexibility to experiment with other traffic patterns in this area, as described beginning on page 30.

A roundabout could be heavily landscaped as previously proposed, or the design could be more formal with the visual emphasis being placed on the surrounding buildings. The latter approach is illustrated in Figure 8. The first rendering is from the Sky Bridge; the second is from the immediate approach to the roundabout, looking straight through onto Estero Boulevard.

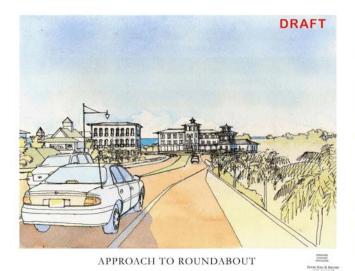




Figure 8, renderings of approach from Sky Bridge

New Intersection Design Concepts

"Modern roundabouts are increasingly being recognized as design alternatives to the use of traditional traffic signals for intersections for arterials. They improve both safety and efficiency for pedestrians and bicyclists, as well as motor vehicles. So far, roundabouts have been built in such states as California, Colorado, Maryland, Nevada, Florida, and Vermont. These roundabouts are different from rotary or traffic circles that have been used in the United States for a number of years to give entering traffic the right-of-way and encourage higher design speeds.

"The modern roundabout is designed to slow entering traffic and allow all the traffic to flow through the junction freely and safely. Unlike the older rotary design, entering vehicles must yield the right-of-way to vehicles already in the circle. A deflection at the entrance forces vehicles to slow down. Traffic signals are not used, and pedestrians cross the streets at marked crosswalks.

"The average delay at a roundabout is estimated to be less than half of that at a typical signalized intersection. Decreased delay may mean that fewer lanes are needed. Signalized intersections often require multiple approach lanes and multiple receiving lanes, which leads to a wider road.

"Perhaps the greatest advantages of roundabouts are their urban design and aesthetic aspects. Roundabouts eliminate the clutter of overhead wires and signal poles and allow signage to be reduced. They can be distinctive entry points into a community or mark a special place. The central island offers an opportunity for a variety of landscape designs, as well."

— Flexibility in Highway Design, published by the Federal Highway Administration, U.S. Department of Transportation Members of the public who attended the April 7, 2005, workshop were requested to give their opinion on six questions about the community design ideas which were presented that evening for the first time. The written responses that evening were as follows:

Question #1: Do you the further?	nink the idea of the bed	achfront park shou	uld be pursued
<u>Yes</u>	<u>No</u>	Not Sure	[no answer]
56	<u>No</u> 3	12	2
Question #2: Do you the be pursued further?	ink the idea of reloca	ting Estero near T	imes Square should
<u>Yes</u>	<u>No</u>	Not Sure	[no answer]
30	17	17	9
Question #3: Do you pr	refer the beach park o	r relocate Estero a	pproach?
<u>Beach Park</u>	Relocate Estero	<u>Neither</u>	<u>Not Sure</u>
44	17	4	8
Question # 4: Do you the provide relief on Est		ould use the new p	arallel street to
<u>Yes</u>	<u>No</u>	Not Sure	[no answer]
42	13	14	4
Question # 5: Do you the pursued further?	nink the pedestrian bri	dge over Estero Bi	lvd should be
<u>Yes</u>	<u>No</u>	<u>Not Sure</u>	[no answer]
48	13	10	2
Question # 6: What is y Blvd and Fifth Stree		dabout at the inter	rsection of Estero
Love It	<u>Hate It</u>	<u>Neutral</u>	Want to Learn
33	4	7	29

C. Analysis of Street Alternatives

Ten distinct options for improving Estero Boulevard between Crescent Street and the Sky Bridge were developed as a result of the 2005 planning charrette and ongoing work by the Traffic Mitigation Agency. All ten options were analyzed for traffic performance using the "Synchro" traffic simulation model and were ranked using professional judgment of the consulting team using a walkability/livability index and as to right-of-way and feasibility. This section describes the ten options and presents a comparative analysis of existing conditions and each option.

The first five options have one common aspect: they require the town to acquire right-of-way to build a short new street between Crescent and the foot of the bridge, as shown in Figure 7.

In Option 1, the new street would serve traffic in both directions, providing an alternate route for traffic coming off and on the bridge. With the traffic flow split onto two streets, the interference now caused by pedestrians crossing Estero would be less detrimental to overall traffic flow. A raised pedestrian island in Estero would further assist traffic by allowing pedestrians to cross more easily without stopping traffic. Option 1 includes a roundabout at the foot of the Sky Bridge so that the traffic-splitting benefits would be available for traffic traveling in both directions. A traffic signal would be needed at Crescent and Estero to balance traffic flow on both streets.

Option 2 would move all traffic onto the new street, allowing the existing Estero to be converted into a pedestrian mall. Pedestrians could move freely across the mall without any interference to through traffic. The roundabout is shown for Option 2 because without it, vehicles leaving the island from the north end would have to be routed along Old San Carlos, under the Sky Bridge, and then onto Crescent to reach the bridge. A similar arrangement for exiting traffic was tested during the winter and spring of 2005; it stopped performing well when traffic was at its heaviest, at which times those vehicles were unable to smoothly join the main traffic stream leaving the island. However, with the addition of a roundabout, this traffic could enter the bridge directly rather than first traveling under the bridge.

Option 3 would allow vehicles to use both the existing Estero and the new street, but both streets would operate as one-way streets. A roundabout is not needed with this travel pattern. Part of Estero would have a raised pedestrian island, possibly using an alternating light to help the two southbound travel lanes merge back into one lane near Crescent Street. (A similar traffic pattern was suggested in 2004 last year by a subcommittee of the Fort Myers Beach Civic Association.)

Option 4 would be physically similar to Option 1 but would reserve the existing Estero for trolleys, trams, pedestrians, emergency vehicles, and perhaps other permitted vehicles such as those with several occupants or for local residents or businesses.

Option 5 would be similar to Option 1 but would not use a roundabout. The traffic benefits of the new street would not be available to traffic entering the island from the Sky Bridge, but the cost of (and potential controversy over) the roundabout would be avoided. Option 5 could probably be converted to Option 1 at a future date if retrofitted with a roundabout.

Option 6 would realign Estero Boulevard using gently sloped curves typically used for highways, thus avoiding the sharper turns used in Options 1 through 5. This option would not need any traffic signals or a roundabout. Traffic on Estero Boulevard destined for the north end of the island would use Crescent, Third, and Old San Carlos in place of the current left-turn lane at the foot of the Sky Bridge.

Option 7 is similar to Option 6 but the main traffic flow at the foot of the Sky Bridge would be partially elevated to allow pedestrians to use an underpass to avoid interfering with traffic flow.

Options 8 and 9 assume that the center turn lane beyond Crescent would be converted to allow transit vehicles to use that lane (presumably in the direction of peak congestion). Options 8 and 9 would allow the continuation of the transit lane from Crescent to the foot of the Sky Bridge.

Option 8 uses existing streets only. A two-way trolley/tram lane would be provided on Estero Boulevard between Crescent and Fifth, replacing the existing travel lane on Estero furthest from the beach. Regular traffic heading north on Estero would turn right on Crescent; vehicles heading toward the Sky Bridge would then turn left on Fifth, while all others would continue on Crescent, then use Third and Old San Carlos to return to Lynn Hall Park and points further north.

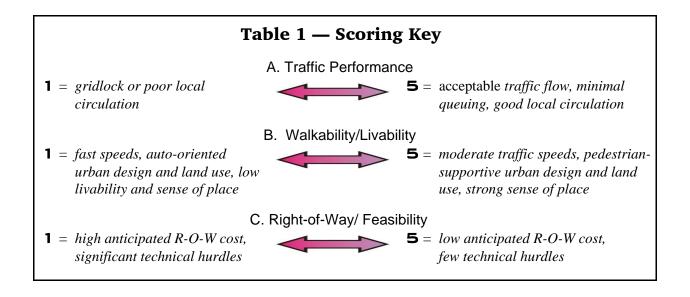
Option 9 also uses existing streets only. Estero Boulevard between Crescent and Fifth would be widened to add a third lane, which would be used by transit vehicles only. The pedestrian signal at Times Square would be removed and replaced by a pair of regular traffic signals on Estero Boulevard, one at Fifth (at the foot of the bridge) and one at Crescent Street.

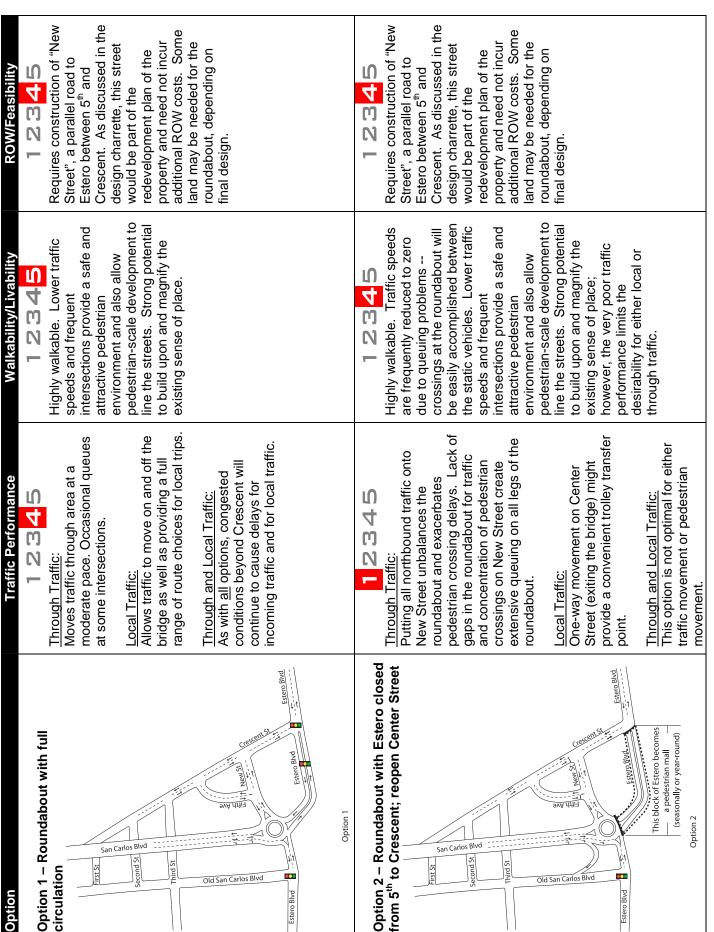
⁶ The results of this test are presented in "Speed Delay Study Technical Memorandum" by CRSPE, Inc., July 2005

Option 10 is similar to Option 7 except for three factors. First, traffic coming onto the island on the Sky Bridge would not return to ground level and then rise again, as in Option 7, but would remain elevated until it passes over a pedestrian underpass. Second, Estero Boulevard would be relocated northward slightly to follow the same path as the new street in Options 1 through 5, but its intersections with Crescent Street would use gentle curves rather than angled intersections. Third, Center Street would not be reopened.

Options 2, 5, 6, 7, 8 and 9 all include the reopening of Center Street to traffic from the Sky Bridge to Old San Carlos. However, the computer model was not able to measure whether this street opening would improve traffic flow. This issue became moot with the Town Council reviewed the cost of reopening Center Street and decided not to make this change.

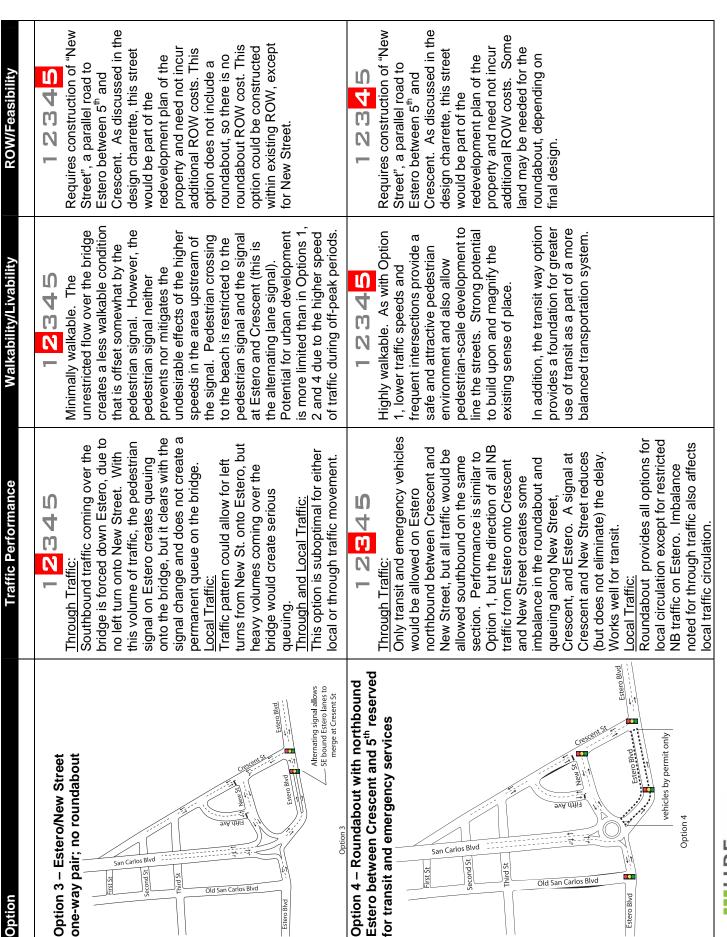
The following pages present simple sketches of each option and a numerical ranking of 1 to 5 on three separate scales. For each scale, 1 is the least favorable ranking and 5 is the most favorable, as described in Table 1. Table 2 presents the analysis of each of ten transportation options, followed by a summary of the rankings for all options (plus existing conditions).



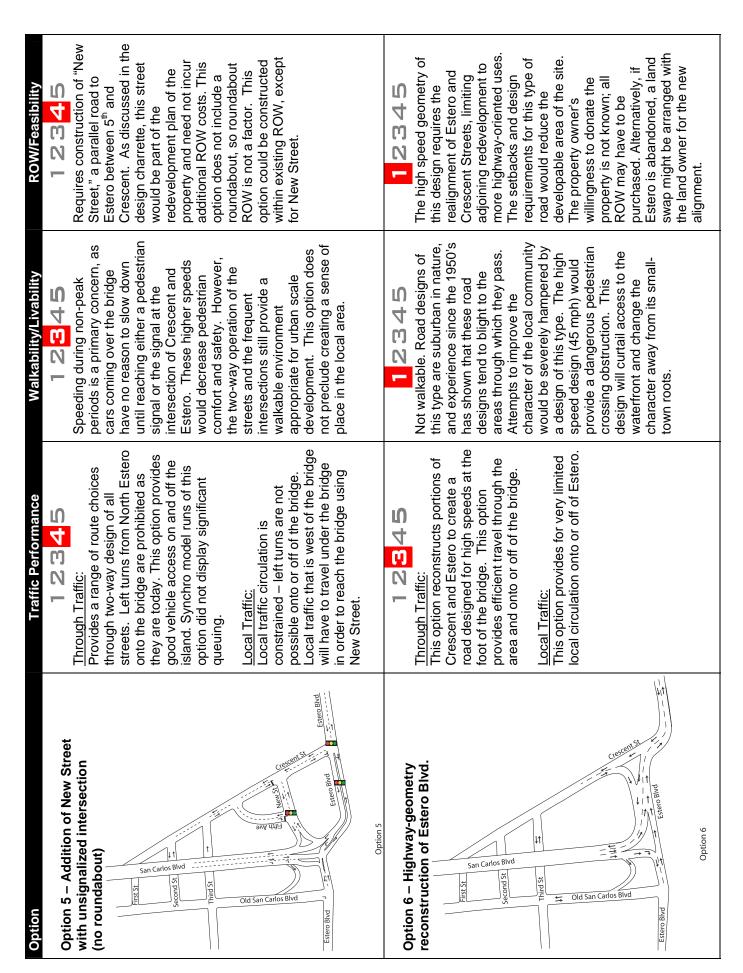


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Table 2 -- Transportation Analysis Options Matrix







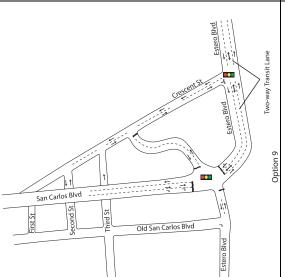


Through Traffic: Through Traf	Ontion	Traffic Parformance	Walkability/l ivability	ROW/Feasibility
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would move well inhough the area onto and off of the bridge. Local Traffic: This option provides for very limited local circulation onto or off of Estero. Through Traffic: Queues from on the bridge signal is activated, but queues are not permanent and traffic flows over the bridge are prohibited as they are to bridge are prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at the foot of the bridge.) Local Traffic: Local Tr		channelization of the road, traffic	sidewalks and pedestrian	related elevated facilities
Seometry This option provides for very limited local circulation onto or off of Estero. This option provides for very limited local circulation onto or off of Estero. Though Traffic. Queues form on the bridge southbound when the pedestrian signal is activated, but queues are not permanent and traffic flows over the bridge in both directions. The longer block of Crescent may discourage vehicles from using this bypass or create higher Local Traffic. Left turns from North Estero onto the pringe street may discourage vehicles from using this bypass or create higher bridge in both directions. Such bound traffic on the bridge would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would mot have left turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent.		would move well through the area onto and off of the bridge.	connections are provided, they will be less usable for	indicate the physical space may be too constrained for
This option provides for very limited local circulation onto or off of Estero. Jeometry Through Traffic: Queues form on the bridge southbound when the pedestrian signal is activated, but queues are not permanent and traffic flows over the bridge in both directions. Local Traffic: Local Traffic: Local Traffic: Left turns from North Estero onto the pridge well create discourage vehicles from using this bypass or create higher speeds that are detrimental to safe and comfortable walking conditions. Local Traffic: L	tinut /	Local Traffic:	pedestrians.	this option. In addition, the expense of constructing
1 2 3 4 5 Through Traffic: Queues form on the bridge southbound when the pedestrian signal is activated, but queues are not permanent and traffic flows over the bridge in both directions. Local Traffic:	→ → → → → → → → → → → → → → → → → → →	This option provides for very limited		elevated facilities is far in
Through Traffic: Queues form on the bridge southbound when the pedestrian signal is activated, but queues are not permanent and traffic flows over the bridge in both directions. Local Traffic: Lect turns from North Estero onto the bridge will create difficulty for pedestrian crossing. The longer block of Crescent the bridge will create difficulty for pedestrian crossing. The longer block of Crescent without the new street may discourage vehicles from using this bypass or create higher speeds that are detrimental to speed are prohibited as they are today; left turns onto North Estero onto the bridge will create difficulty for pedestrian crossing. The longer block of Crescent without the new street may discourage vehicles from using this bypass or create higher speeds that are detrimental to safe and comfortable walking conditions. Local Traffic: Local		local circulation onto of oil of Estero.		excess of trial required for the at-grade facilities in the other options
Through Traffic: Cheeves form on the bridge southbound when the pedestrian southbound when the pedestrian signal is activated, but queues are not permanent and traffic flows over the bridge in both directions. Local Traffic: Left turns from North Estero onto the bridge are prohibited as they are today; left turns onto North Estero would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would mot have left turn at the foot of the bridge. Through Traffic: Continuous right-turns from Supportunity for pedestrian crossing. The longer block of Crescent without the new street may discourage vehicles from using this bridge are prohibited as they are today; left turns onto North Estero onto the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would have left turn onto Crescent and from Estero and compound traffic on Estero would have to turn onto Crescent and from Estero and continue to have left turn at the foot of the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would have left turn onto Crescent and from Estero and compound traffic on Es	Option 7			
Through Traffic: Queues form on the bridge southbound when the pedestrian signal is activated, but queues are not permanent and traffic flows over the bridge in both directions. Left turns from North Estero onto the bridge are prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would nave left turn at the foot of the bridge would have to turn onto Crescent Continuous right-turns from and from 5th onto the bridge will create adifficulty for pedestrian crossing. The longer block of Crescent without the new street may discourage vehicles from using this bypass or create higher safe and comfortable walking conditions. Local Traffic. Left turns from North Estero onto the bridge are prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent	Option 8 – Existing street geometry		2	- 2
southbound when the pedestrian signal is activated, but queues are signal is activated, but queues are aifficulty for pedestrian crossing. The longer block of Crescent without the new street may discourage vehicles from using this bypass or create higher speeds that are detrimental to bridge are prohibited as they are bridge are prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would have to turn onto Crescent would south on the bridge. Northbound traffic on Estero would have to turn onto Crescent with the local traffic on Estero would have to turn onto Crescent with the local traffic on Estero would have to turn onto Crescent with the local traffic on Estero would have to turn onto Crescent with the local traffic on Estero would have to turn onto Crescent with the local traffic on the bridge.	with transit lane on Estero	Through Traffic:	Continuous right-turns from	This option uses existing
signal is activated, but queues are difficulty for pedestrian crossing. In bridge in both directions. Local Traffic. Left turns from North Estero onto the bridge are prohibited as they are today; left turns onto North Estero would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent without the pridge.	between Crescent and 5"	Queues form on the bridge southbound when the pedestrian	Estero onto Crescent and Horn 5th onto the bridge will create	ROW and sureet geometry, so no additional ROW is
Second St Part Control of the bridge in both directions. Local Traffic: Local Traffic: Left turns from North Estero onto the bridge are prohibited as they are today; left turns onto North Estero would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would not have left turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent and 5th to reach the bridge.		signal is activated, but queues are	difficulty for pedestrian crossing.	required.
Local Traffic: Local Traffic: Left turns from North Estero onto the bridge are prohibited as they are today; left turns onto North Estero would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent and 5th to reach the bridge.	San	not permanent and traffic flows over	The longer block of Crescent	
Local Traffic: Left turns from North Estero onto the bridge are prohibited as they are today; left turns onto North Estero would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would not have left turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent and 5th to reach the bridge.	n Carlos	the bridge in both directions.	without the new street may	
Left turns from North Estero onto the bridge are prohibited as they are today; left turns onto North Estero would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would not have left turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent and 5th to reach the bridge.		Local Traffic:	this bypass or create higher	
bridge are prohibited as they are today; left turns onto North Estero would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would not have left turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent and 5th to reach the bridge.		Left turns from North Estero onto the	speeds that are detrimental to	
would also be prohibited by this design. Southbound traffic on the bridge would continue to have only one convenient opportunity to enter the local traffic pattern (right turn at foot of bridge). Transit lane would not have left turn at the foot of the bridge. Northbound traffic on Estero would have to turn onto Crescent and 5th to reach the bridge.	Third St	bridge are prohibited as they are	safe and comfortable walking	
Estero Blvd Two-way Transit Lane	Old	would also be prohibited by this		
Estero Blvd Estero Blvd Two-way Transit Lane	-	design. Southbound traffic on the		
Estero Blvd Estero Blvd Two-way Transit Lane		one convenient opportunity to enter		
Two-way Transit Lane	152	the local traffic pattern (right turn at		
Two-way Transit Lane	Estero Blvd	not have left turn at the foot of the		
		would have to turn onto Crescent		
	Option 8	and 5 th to reach the bridge.		



N 234 ROW/Feasi **Walkability/Livability** 2 3 4 5 14 10

signal at 5th /Estero and Estero/Crescent; no pedestrian signal on Estero; transit Option 9 - Existing street geometry;



movements would be allowed at this ntersection of Estero and 5th, left intersection. The transit lane on eliminated, which hampers local permitted northbound left turn at present, no east-west through turning movements had to be traffic circulation. Also, as at Estero can be added with a n order to get LOS D at the ocal Traffic:

off-peak periods, are two factors making mid-block crossings less addition to higher speeds during Removing the pedestrian signal (>600') encouraging mid-block on Estero creates a long block through-traffic along Estero, in crossings. The increased

southbound, but cars clear within a

Some queuing on the bridge

Through Traffic:

ew cycles. Northbound traffic

moves fine.

Estero between Crescent and

5th, unless sidewalks are

narrowed

require additional ROW along

Addition of transit lane will

walkability, encouraging crossing Intersection cycle lengths of 90 seconds (Estero/Crescent) are may require reducing sidewalk longer than desirable for good against the light. Transit lane through traffic separating two pedestrian-oriented locations. seconds (Estero/5th) and 100 Also creates situation of an width, reducing walkability. arterial road optimized for

underpass would provide grade-"Great Wall of China" barrier of Estero Blvd., but the previously connections are provided, they separated access beneath a development, so that even if Not walkable. Just as with highway geometry design sidewalks and pedestrian degraded. The suburban Option 7, the pedestrian will be less usable for pedestrians.

ntersection to operate at LOS D.

Estero and 5th and still allow the

walkable areas nearby would be discourages pedestrian-oriented

just before it reaches Crescent

St. The expense of

would return to ground level

constructing elevated facilities

facilities in the other options.

required for the at-grade

is far in excess of that

6 or 7. The new elevated road

private property than Options would cause less damage to

233450

10 10 10

This option will require at least

plus additional ROW for the

on-ramp from Estero to the

realignment of Estero. The

west, plus a complete

northward shift of Estero

as much ROW as Option 7,

ocal circulation onto or off of Estero quantified by the model. Due to the complete channelization of the road, traffic would move well through the except that Estero Blvd. would be This design is similar to Option 7, area onto and off of the bridge. hrough 5. Traffic benefits are alignment matching Options 1 expected from the pedestrian underpass but could not be shifted northward to a new Through Traffic: Option 10 – Alternate highway-geometry reconstruction of Estero Blvd. with a Option 10 pedestrian underpass San Carlos Blvd Estero Blvd

This option provides for very limited Local Traffic:

Table 2 -- Transportation Analysis Options Matrix

with no changes with no changes With no changes Through Traffic: Extensive peak-hour queuing on bridge. Local Traffic: Limited left turns at intersection of 5th and Estero force local traffic to circulate under the San Carlos bridge. Local circulation pattern wastes vehicle miles of travel and provides limited opportunities for local business access.	raffic Performance Walkability/Livability	ROW/Feasibility
pole of the control o	12345	12345
Page on Market State of State	Slow traffic speeds and buildings Existing	Existing conditions use
San Carlos Blvd San Carlos Blvd John John John John John John John John	to back of sidewalk create a existing	existing ROW.
San Carlos Blvd Old San Carlos Blvd	queuing on comfortable pedestrian	
CERCENTS ANY UNH Old San Carlos Blvd	environment despite the	
Dia Carlos Blvd Constant St. To Carlos Blvd Constant St. To Carlos Blvd Constant St. To Carlos Blvd	inadequate sidewalks. However,	
Dia Carlos Blvd	lack of extensive pedestrian-	
Post of San Carlos Blvd	ntersection of friendly development fails to	
Old San Carlos Bivid	ocal traffic to capitalize on these "good bones"	
any 4HH	an Carlos of design. Poor traffic circulation	
Pig of the control of	tion pattern creates a "pedestrians versus	
provides local bus	of travel and cars" mentality that is detrimental	
Exercised and the second and the sec	ortunities for to all sides. Additional	
Estero Blvd	s. pedestrian-oriented development	
1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :	requires better traffic circulation	
	for greater livability.	
Existing		

SUMMARY OF OPTIONS:	Traffic Performance	Walkability/Livability	ROW/Feasibility
Option 1 – Roundabout with full circulation	123 <mark>4</mark> 5	12345	12345
Option 2 – Roundabout; Estero closed from 5 th to Crescent; reopen Center St	12345	12345	12345
Option 3 – Estero/New Street one-way pair; no roundabout	12345	12345	12345
Option 4 – Roundabout with northbound Estero reserved for transit and emergency	12345	12345	12345
Option 5 – Addition of New Street with unsignalized intersection (no RBT)	12345	12345	12345
Option 6 – Highway-geometry reconstruction of Estero Blvd.	12345	12345	12345
Option 7 – Highway-geometry reconstruction with pedestrian underpass	12345	12345	12345
Option 8 – Existing street geometry with transit lane on Estero	12 <mark>3</mark> 45	12345	12345
Option 9 – Existing street geometry; move signals to 5 th & Crescent; add transit lane	12 <mark>3</mark> 45	12345	12345
Option 10 – Alternate highway-geometry reconstruction of Estero w/ped underpass	12 <mark>3</mark> 45	12345	12345
Existing Conditions – Existing streets with no changes	12 <mark>3</mark> 45	12 <mark>3</mark> 45	1234 <mark>5</mark>

