







Table of Contents

1	Trail	Alternati	ives Developme	ent			
	1.1	Develo	pment of Alterna	ative Alignments	1		
		1.1.1		lternatives			
		1.1.2	Description o	of Alternative Alignments	2		
			1.1.2.1	Zone A Alternatives	2		
			1.1.2.2	Zone B Alternatives			
			1.1.2.3	Zone C Alternatives	13		
			1.1.2.4	Zone D Alternatives	14		
	1.2	17					
2	Evalı	uation of	Alternative Ali	gnments	21		
		2.1.1	Evaluation M	ethodology	21		
		2.1.2	Evaluation Cr	iteria	22		
			2.1.2.1	Safety	22		
			2.1.2.2	Equity	22		
			2.1.2.3	Environment	22		
			2.1.2.4	Social/Cultural	22		
			2.1.2.5	Economic Development	23		
			2.1.2.6	Connectivity	23		
			2.1.2.7	Constructability	23		
			2.1.2.8	Cost	23		
		2.1.3	Scoring		23		
	2.2	Evaluat		25			
	2.3	Alterna	26				
3	App	endix A			31		
4							

Appendices

Appendix A: Alternatives Benefits Quality Matrix

Appendix B: Alternatives Comparative Ranking Matrix



List of Figures

Figure No. Desc	ription	Page
Figure 1.1-1 Alterna	tive Alignments	3
Figure 1.1-2 Brewer	Park	4
Figure 1.1-3 Brewer	Park to Alsobrook Connection	4
Figure 1.1-4 Burney	Elementary School from Alsobrook Street	5
Figure 1.1-5 Midtow	n Redevelopment Area	5
Figure 1.1-6 Bicyclist	t on Wheeler Street Sidewalk	5
Figure 1.1-7 Cooper	Park	6
Figure 1.1-8 Cherry S	Street Canal crossing under Baker Street	6
Figure 1.1-9: Zone A	Alternative Alignments	7
Figure 1.1-10 Cherry	Street Canal (at Gilchrist Park)	8
	st Park	
Figure 1.1-12 Gilchri	st Dog Park	9
	Street Canal, looking north	
Figure 1.1-14 Cherry	Street Park	10
Figure 1.1-15 Cherry	Street west of Park Road N	10
	er Street west of Maryland Avenue, looking west	
Figure 1.1-17 Sansor	ne Park Entrance on Park Road N	11
Figure 1.1-18 Park R	oad N looking south	11
	erchange at Park Road N	
Figure 1.1-20: Zone	B Alternative Alignments	12
_	oad N at BayCare Hospital	
•	Allen Road at Park Road N	
Figure 1.1-23: Zone	C Alternative Alignments	14
	Park Isles Sidewalk Connector	
	Park Isles Storm Water Management	
•	sle Kneewall	
	D Alternative Alignments	
	Section for Sidepath on Local/Collector (Flush Shoulder)	
	Section for Sidepath on Arterial (Curbed)	
	Section for Independent Trail Facility	
	Section for Independent Trail Facility Adjacent to Canal (without & with ra	
Figure 1.2-5: Typical	Section for Independent Trail Facility on Boardwalk	20
_	tive Total Scores	
•	Selected Alternatives	
•	Selected Alternatives	
•	Selected Alternatives	
Figure 2.3-4 Zone D	Selected Alternatives	30



1

Trail Alternatives Development

1.1 Development of Alternative Alignments

1.1.1 Universe of Alternatives

The objective of the alternative development and analysis process was to identify technical, sustainable, and equitable alternatives that address the project's intent. The results of the alternatives development and analysis are presented in this report. The project team worked with the Hillsborough County Transportation Planning Organization (TPO) and Plant City to develop 24 alternative alignments to evaluate as a part of this screening phase. The alternative alignments are intended to minimize the impacts on private property and the environment. They maximize access and connectivity to parks, public facilities, and services, resulting in a north-south trail "spine" through the City of Plant City (City). A set of selection criteria and comparative analysis identified the best viable alternatives to be advanced for further evaluation. This final stage evaluation will use input from the stakeholders and community outreach efforts. The input received will be applied and the reevaluation of the study recommendations contained in this interim document will be reviewed and modified if the input supports that decision. The consultant project team hosted a work session with the Hillsborough TPO Project Manager to develop the universe of potential alternatives that were to be considered in the evaluation. Alternatives were developed that minimize the impacts on private property owners and the environment, maximize access and connectivity to parks, public facilities, and services, and would provide continuity in route location forming a north-south trail "spine" through the City. Emphasis was placed on assuring that underserved communities were considered and that their needs for multimodal transportation were included in the decision-making process. In this work session, a review of aerial imagery and street-level imagery was conducted in conjunction with the application of data from the existing conditions evaluation, including parcel lines, demographic data, locations of community features, and development plans, among others. This information informed the generation of set of alternative alignments within the study area to be evaluated. This initial set of alternatives was shared with City staff, and adjustments to the set of alternatives were incorporated based on staff input.

In developing the universe of alternatives, the study area was separated into four distinct zones:

- Zone A is the southernmost portion of the study area south of US 92. It includes 11 alternatives.
- Zone B is between US 92 and I-4. It includes 6 alternatives.
- Zone C is between I-4 and Sam Allen Road. It includes 5 alternatives.
- Zone D is the northernmost portion of the study area, north of Sam Allen Road. It includes four (4 alternatives.

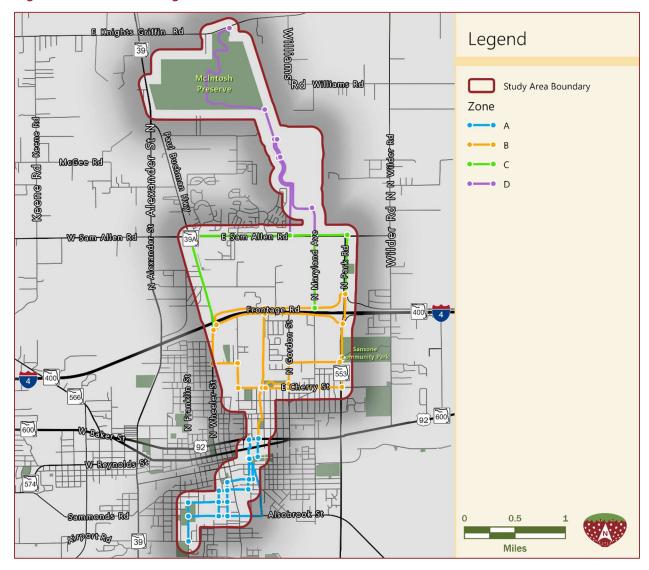
An initial screening exercise was conducted to identify a preliminary set of alternatives for each Zone. These alternatives and a cursory comparative analysis were presented to City staff for feedback. The project team also conducted a field review of potential segments on June 22, 2022. Attendees included the Hillsborough TPO Project Manager, Consultant Project Manager, Project Engineer, and Project Planner.

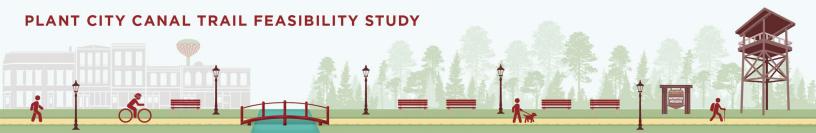
A series of 24 alternative alignments were developed from field review observations, feedback from staff, and spatial analysis. These alternatives utilize various roadways, canals easements or right-of-way, and public properties such as parks or other lands. Zone A had 11 alternatives identified; Zone B had 6; Zone C had 5; and Zone D had 4. The zones and accompanying alignments are depicted in Figure 1.1-1 Alternative Alignments.

The overall alternative development and evaluation process that was applied to this group of alternatives by study area zone are presented in the following sections of this document.



Figure 1.1-1 Alternative Alignments





1.1.2 Description of Alternative Alignments

1.1.2.1 Zone A Alternatives

Zone A was added to the original scope of study at the request of Plant City to provide linkage from the communities north of US 92 to the city ball fields and Dr. Hal & Lynn Brewer Park and the existing trail connecting these two community facilities. Both are high-quality recreational facilities open to the public (See picture inserts below). Overall, the Zone A alignment area is relatively narrow in width (east to west) but includes the area known as Midtown, a targeted redevelopment section of the city and one where considerable investment has been made in public infrastructure (See picture inserts below) and connecting to Samuel W. Cooper Park just south of East Reynolds Street, east of South Collins Street.

This Zone consists of the most densely residential demographic, the highest level of underserved communities, and minimal bicycle and pedestrian infrastructure. It has a higher density of public lands and parks within the study area.

Figure 1.1-2 Brewer Park



Figure 1.1-3 Brewer Park to Alsobrook Connection



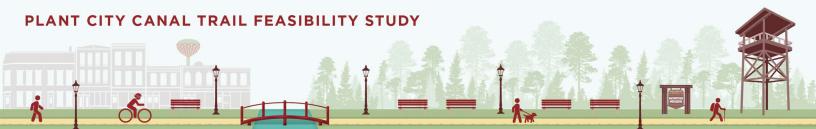


Figure 1.1-4 Burney Elementary School from Alsobrook Street



Figure 1.1-5 Midtown Redevelopment Area



Figure 1.1-6 Bicyclist on Wheeler Street Sidewalk



5 Trail Alternatives Development Alternatives Strategy Report



Figure 1.1-7 Cooper Park



Figure 1.1-8 Cherry Street Canal crossing under Baker Street

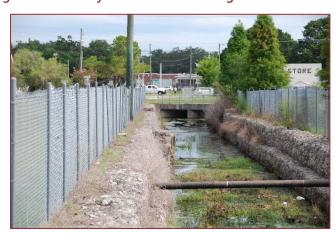
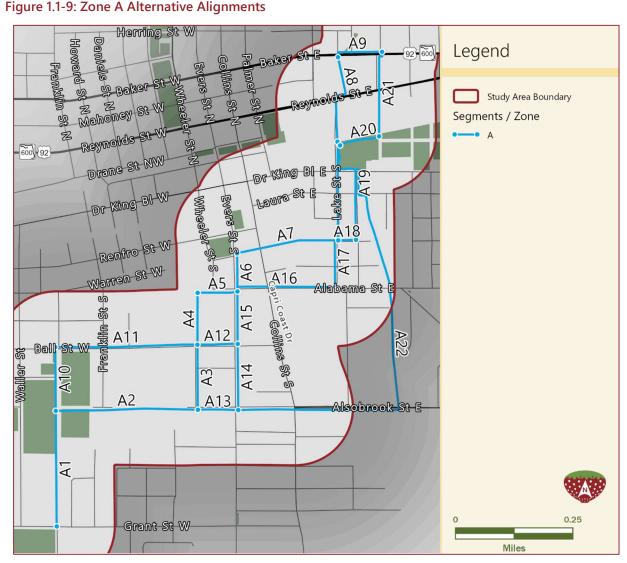


Figure 1.1-9 on the following page shows the various alternate roadway segments and canal easements/right-of-way that were evaluated in forming the Alternatives and involved in the comparative analysis.

It should be noted that the segments identified as A19 & A22 were requested to be added by the City after the initial study area (shown by the "bubble") was defined. These segments use another existing canal corridor that appears viable but would significantly reduce the connectivity to some targeted locations such as Midtown and the Village Green.

Figure 1.1-9: Zone A Alternative Alignments





1.1.2.2 Zone B Alternatives

Zone B includes much of the heart of Plant City. It begins at US 92 near the county circuit courthouse and extends northward to encompass Gilcrest Park, Plant City Dog Park, Cherry Street Park, Hillsborough Community College Plant City Campus, Mike E. Sansone Community Park, Otis M. Andrews Sports Complex, and the Ellis Methvin Park. This was the initial southern zone for the study. This area is generally residential with the exception of the area near the circuit court along US 92 and then along Park Road North, These areas offer a mix of commercial, institutional, and industrial uses. The northern limit of Zone B is Interstate 4 (I-4) and South Frontage Road, which parallels the highway and connects North Wheeler Road and North Park Road between their interchanges with I-4. The Cherry Street Canal is located in the central portion of Zone B and extends from the Plant City Dog Park to and under I-4 (in a culvert). This canal and its maintenance berm were evaluated as one of the potentially high-quality trail segments. The issues associated with crossing I-4 and extending along the high-traffic frontage roads with limited right-of-way presented obstacles that raised the question of its feasibility. The segment should however, continue to be considered through the next stage of the study process.

Figure 1.1-10 Cherry Street Canal (at Gilchrist Park)



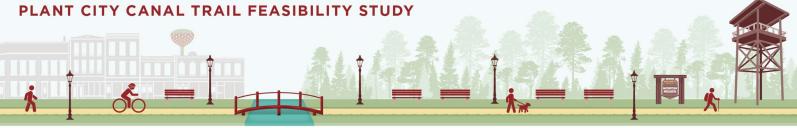


Figure 1.1-11 Gilchrist Park



Figure 1.1-12 Gilchrist Dog Park



Figure 1.1-13 Cherry Street Canal, looking north



9 Trail Alternatives Development Alternatives Strategy Report



Figure 1.1-14 Cherry Street Park



Figure 1.1-15 Cherry Street west of Park Road N



Figure 1.1-16 Spencer Street west of Maryland Avenue, looking west



10 Trail Alternatives Development Alternatives Strategy Report



Figure 1.1-17 Sansone Park Entrance on Park Road N



Figure 1.1-18 Park Road N looking south



Figure 1.1-19 I-4 interchange at Park Road N

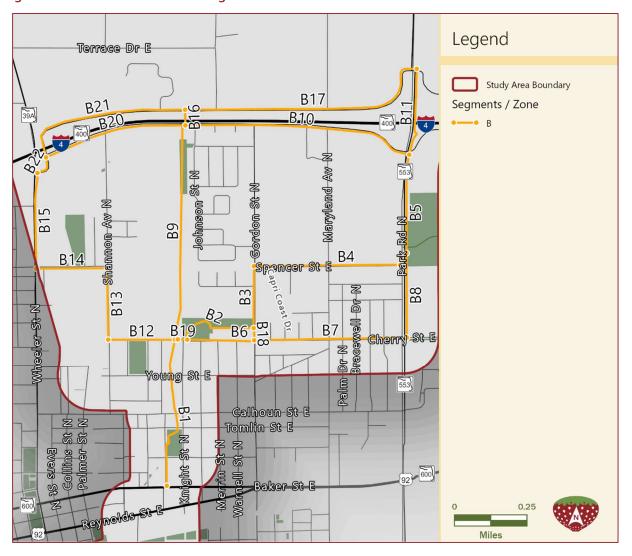


11 Trail Alternatives Development Alternatives Strategy Report



Figure 1.1-20 shows the various alternate roadway segments and canal easements/right-of-way that were evaluated in forming the Alternatives and involved in the comparative analysis.

Figure 1.1-20: Zone B Alternative Alignments





1.1.2.3 **Zone C Alternatives**

Zone C extends immediately north of I-4 between Paul Buckman Highway and Park Road North, ending at East Sam Allen Road approximately 4,000 feet north of I-4. The southern limit of this Zone would be where an I-4 overpass would be located, extending across the highway from the Cherry Street Canal and touching down to the west of Procchi Street and east of North Frontage Park Place. This area includes existing stormwater treatment facilities and would require extensive right-of-way acquisition to make any overpass connection.

The area within Zone C is largely rural transitioning lands with a mixture of residential, agricultural, industrial, and institutional zoning. The new BayCare Hospital is under construction in the southeast quadrant of Park Road North and East Sam Allen Road. The Kingdom Hall of Jehovah's Witness is located on the north end of Maryland Avenue, just south of East Sam Allen Road. As indicated by Plant City, this area is involved in multiple planning and development proposals for new residential subdivisions. Connectivity to and through those projects was a consideration in the alternative evaluation process.

Figure 1.1-21 Park Road N at BayCare Hospital



Figure 1.1-22 E Sam Allen Road at Park Road N



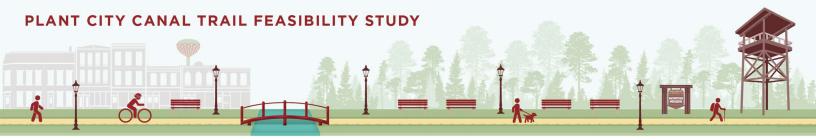


Figure 1.1-23 shows the various alternate roadway segments and/or public easements/right-of-way that were evaluated in forming the Alternatives and involved in the comparative analysis.

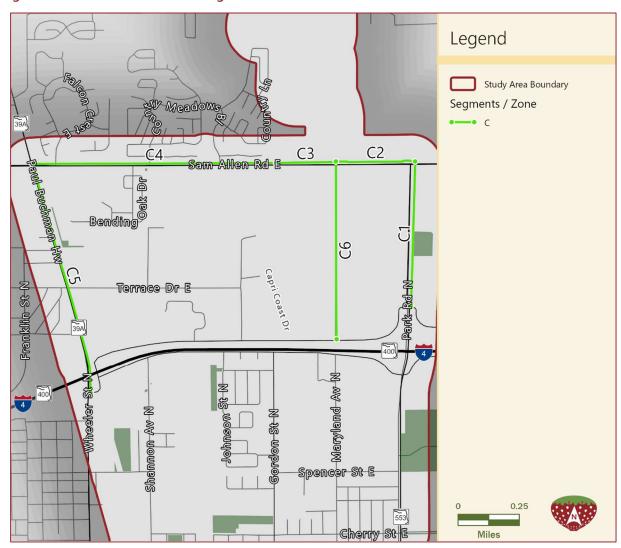


Figure 1.1-23: Zone C Alternative Alignments

1.1.2.4 Zone D Alternatives

The limits for this study zone are relatively narrow as the directive for the connecting alignment from East Sam Allen Road to the northern terminus of the trail at/within the McIntosh Preserve was indicated by the city as through the North Park Isle development. This residential community is under construction, and most of the public infrastructure is completed. Based on the development's construction documents and field

evaluation, a 5-foot sidewalk has been constructed on one side of the roadway (this was initially identified as a trail facility) to serve the non-motorized traffic through the project. This sidewalk route was assessed as an alternative alignment but scored poorly based on its width and the lack of design continuity with the proposed trail in the other zones. An alignment located on the development project's west side and extending from East Sam Allen Road between the platted subdivision lots and the stormwater management ponds along the western boundary of the project, was hence added to the study for evaluation.

Figure 1.1-24 North Park Isle Sidewalk Connector



Figure 1.1-25 North Park Isle Storm Water Management





Figure 1.1-26 North Park Isle Kneewall



Figure 1.1-27 on the following page shows the various alternate roadway segments and drainage easements/right-of-way that were evaluated in forming the Alternatives and involved in the comparative analysis.



Figure 1.1-27: Zone D Alternative Alignments



1.2 Multimodal Typical Sections

Five potential design concepts were developed based on the types of corridors and existing land uses within the study area. Those concepts include:

- Sidepath on Local/Collector (Flush Shoulder Roadway e.g., Cherry Street, Maryland Avenue)
- Sidepath on Arterial (Curbed Roadway e.g., Park Road North)
- Independent Trail Facility (on public lands)
- Independent Trail Facility Adjacent to Canal
- Independent Trail Facility on Boardwalk

Based on the observed field conditions within the corridors identified as viable alternative alignments, one or more of these typical sections were applied to each Alternative to evaluate the implementation needs and the estimated costs. These typical sections were developed to be consistent with the latest guidance in the FDOT Design Manual. The conceptual typical sections are presented in the following figures.

Figure 1.2-1: Typical Section for Sidepath on Local/Collector (Flush Shoulder)



Figure 1.2-2: Typical Section for Sidepath on Arterial (Curbed)





Figure 1.2-3: Typical Section for Independent Trail Facility

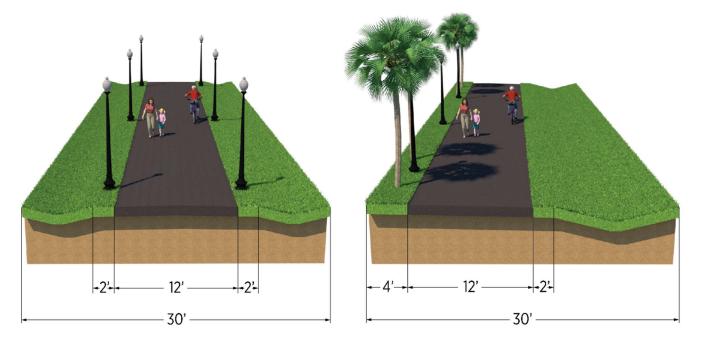
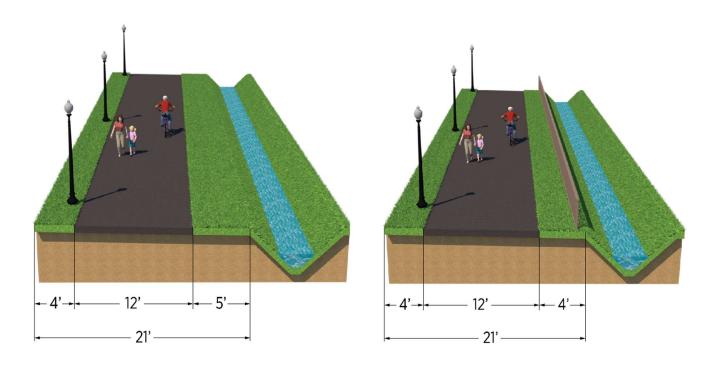


Figure 1.2-4: Typical Section for Independent Trail Facility Adjacent to Canal (without & with railing)



19 Trail Alternatives Development Alternatives Strategy Report

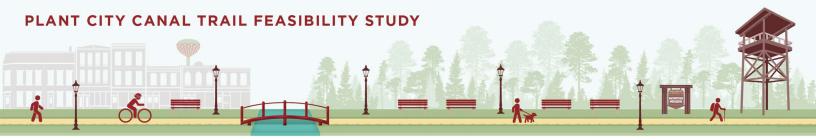
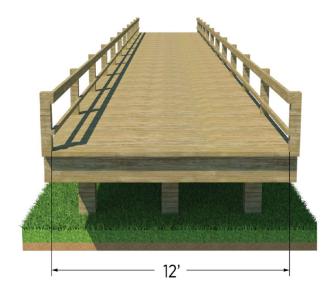


Figure 1.2-5: Typical Section for Independent Trail Facility on Boardwalk



20 Trail Alternatives Development



2

Evaluation of Alternative Alignments

Each of the study area zones and alternative alignments previously described were first evaluated to identify the logical locations where connections would benefit the community and offer safe travel ways. A second factor in selection was to take advantage of the investments in multimodal infrastructure that have already been made by the city. Key destinations include parks and recreation facilities, public service buildings, employment and redevelopment centers, cultural and community centers, and institutional and educational properties. Within each Zone, multiple alignments were considered, many using some or most of another alignment roadway or trail/pathway segments but ultimately creating a series of different overall options to traverse through each Zone and make meaningful connections to the adjacent Zone.

The following sections describe the process, the applied methodology, and the findings of the comparative evaluation of the alternatives, resulting in the recommendations for a select number of candidates that will be presented to the stakeholders for input before the final evaluation and determination of a "preferred" alignment for advancement to the next planning and design phases. Within each Zone, two "best" potential alignments were identified (the best score and a second-best) to offer options for stakeholder input. In some cases, the differences in alternative scoring were somewhat minor but professional judgement was able to determine the most viable alternative based on issues such as cost, network continuity, priorities identified by the city and minimized negative impacts.

2.1.1 Evaluation Methodology

The evaluation consisted of a three-step process. First, eight key goal areas were produced in collaboration with TPO staff, and a series of evaluation criteria were developed for each goal. Geospatial data for these criteria were collected, compiled in a GIS environment, analyzed, and mapped. The geospatial data, recent aerial imagery, and site visit observations were referenced against each of the alternative alignments described in Chapter 1. Each alternative was assigned a score for each evaluation criterion based on a predetermined scoring weight. Weights were added up to create an overall score. This score was used to identify the alternatives that will advance into the next screening stage of the feasibility study.

The following section describes these goal areas, evaluation criteria, and the process used to assign scores and their weights. It goes on to present the findings and recommends two alternative alignments from each zone to advance.



2.1.2 Evaluation Criteria

Evaluation criteria were established to provide a holistic understanding of the various alignments. They were developed around eight key goal areas: safety, equity, environment, social/cultural, economic development, connectivity, buildability, and cost. These goal areas and associated evaluation criteria are below.

2.1.2.1 Safety

The <u>Safety</u> goal area focused on the extent to which the alternative avoids or reduces vehicle and trail user conflicts. To determine this, four metrics were considered:

- Number of driveway crossings
- > Number of intersection crossings (signalized v. stop-controlled)
- Number of midblock crossings
- > Traffic volumes and speeds

2.1.2.2 **Equity**

The <u>Equity</u> goal area was based around two criteria. The first was the extent to which the alternative limits negative impacts to traditionally underserved communities, based on the parcel impacts in those communities. The second being a positive impact regarding the extent to which the alternative connects traditionally underserved populations to services, employment centers, and educational, cultural, and recreational opportunities which was measured based on proximity to:

- > Underserved communities
- Services
- > Employment centers
- Schools, colleges
- > Community assets (parks, libraries, etc.)

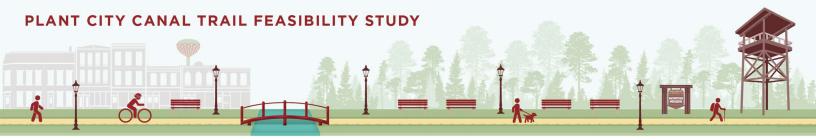
2.1.2.3 Environment

The <u>Environment</u> goal area looked at the alternatives impact on natural resources and how the natural and built environments contribution to the trail. This was measured based on three metrics:

- > Impacts to wetlands
- Potential involvement of contamination sites
- > Aesthetic quality of surrounding environs

2.1.2.4 Social/Cultural

The <u>Social/Cultural</u> goal area was based on the extent to which the alternative limits impact to cultural resources and the extent to which it enhances connectivity to them. This was measured based on proximity and parcel impacts on social/cultural sites.



2.1.2.5 Economic Development

The <u>Economic Development</u> goal area looked at the extent to which the alternative supports economic development based on proximity to target redevelopment or growth areas such as Midtown.

2.1.2.6 Connectivity

The <u>Connectivity</u> goal area focused on the extent to which the alternative connects existing and planned pedestrian/bike networks as well as services, employment centers, educational, cultural, and recreational opportunities. This was measured based on four metrics:

- Connections to existing or planned facilities
- > Proximity to employment centers
- > Proximity to schools, colleges
- > Proximity to community assets (parks, libraries, public services, etc.)

2.1.2.7 Constructability

The <u>Constructability</u> goal area was based around three criteria. The first criteria was ease of implementation and partnerships which was measured through the required permits coordination with other agencies. The second, the extent to which the alternative limits impact to drainage, utilities, and other physical obstructions present and presenting constraints. Finally, the extent to which the alternative impacts private property:

- > Clips and total takings of residential properties
- > Clips and total takings of commercial properties
-) Impacts to structures, fences, landscaping

2.1.2.8 Cost

The <u>Cost</u> goal area looked at the probable cost to implement the alternative based on general levels of potential (high, moderate, or low) construction and right-of-way costs. In the next stage of study, the cost estimates for each remaining viable alternative will be developed for use in the final comparison.

2.1.3 Scoring

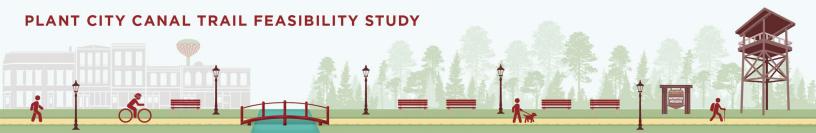
Each alternative within the 4 different study area zones were assessed using the described criteria. Each alternative was assigned a quality designation of "high," "medium," or "low" for each goal area. The "high" designation was equivalent to 5 points, "medium" equivalent to 3 points, and "low" equivalent to 1 point. These qualitative designations indicated how well the alternative met the different criteria goals, or in some cases, when those goals were not well served by the alternative.

Each goal's metrics were also assigned a "weight" based on professional judgment and multiple discussions of priorities with the TPO Project Manager. Initially, some of the criteria were assigned a factor of 1, meaning of lesser importance than most others. However, the discussions of each goal produced a consensus among the project team that each factor had inherent value and should generally not be judged against the others,



and that there were 3 that should be weighted slightly higher than all others. The analysis and rationale used to assign "high," "medium," or "low" designations is reflected in Appendix A, Alternatives Benefits Quality Matrix. The goals and the assigned weights are outlined below:

>	Safety	2
>	Equity	3
>	Environment (natural)	2
>	Social/Cultural	2
>	Economic Development	2
>	Connectivity	2
>	Constructability	3
>	Cost	3



2.2 Evaluation of Results

The sum of each goal's assigned points and the goal weight is the total score used to conduct the comparative analysis and develop a numerical ranking of alternative preferences. The scoring results and associated qualitative rankings are shown in the matrix in **Appendix B**. These scores represent the cumulative consideration of spatial analysis, planning judgement, physical conditions and corridor context and project goals and priorities applied across the 8 key goal areas. The higher the score, the more preferred and/or viable the alternative. In some cases, one alternative may have received preference based on the obvious better connectivity between zones while another may have received a reduced "score" based on an identified cost prohibitive constraint that the alternative would present. The results of this scoring of all alternatives are displayed in **Figure 2.2-1**. The top two scoring alternatives for each Zone were advanced to the next stage of study evaluation. As can be seen, the score separation between alternatives is relatively minor in Zone A but much more pronounced in Zones B, C and D. While the detailed evaluation presented in the next section of this memorandum does focus on the top two alternatives in each zone, public and stakeholder input will be used to inform the final decisions and one of the other (A3 or A6) alternatives from Zone A could rise in consideration and would have minimal impact on the projects goals or cost associated with their implementation. It may be less likely that different alternatives will be suggested for Zones B, C or D.

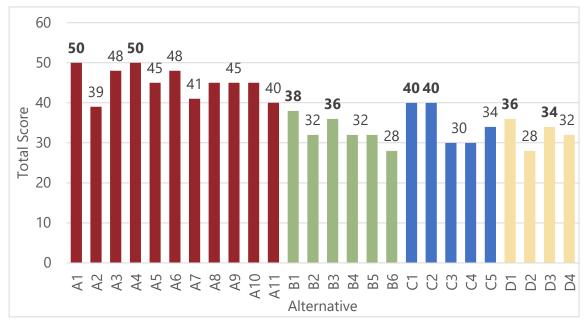


Figure 2.2-1 Alternative Total Scores

These alternatives are listed below and are presented in the following section.

Zone A Zone B Zone C Zone D

Alternatives A1 & A4 Alternatives B1 & B3 Alternatives C1 & C2 Alternatives D1 & D3



Alternatives to Advance

The alternatives that are recommended to advance to the final screening stage of evaluation, where stakeholder input and public comment will be appropriately included into the decision process, were identified based on both qualitative and quantitative factors. The analysis shows that the alternatives in Zone A reflect high benefits in 4 of 8 categories for both Alternative A1 and A4. They both rank medium level benefits in the other categories. In Zone B both Alternatives B1 and B3 have one high benefit ranking but Alternative B1 also has medium benefits in 6 of the remaining 7 categories, while B3 has medium benefits in 5 of the remaining 7.

In Zone C, the quality rankings for the two best alternatives are equal in every case as there are minimal differences in the alignment and selected roadway segments that are followed for the trail location. Zone D results are similar with only one quality benefit category showing a difference between high and medium, that being the safety factor.

Figures 2.3-1 through 2.3-4 reflect a diagram of the general alignment on each segment for the identified preferred alternatives within each zone. The alignments are displayed in the maps show the recommended side of the roadway or canal for the alignment, the locations where street crossings would occur, and the transition through open areas such as undeveloped properties and public parks.

These exhibits are intended for use by the Hillsborough TPO in the public outreach efforts that are planned prior to the final selection of a recommended alternative and alignment for the entire study area. The input that will be most valuable will be the determination of preferences for one of the two options for alternative alignment in each zone. However, input on any different alignment will be of interest as well. The associated order of magnitude cost estimates will be used in this final selection stage and will support the design and implementation phasing.



Figure 2.3-1 Zone A Selected Alternatives

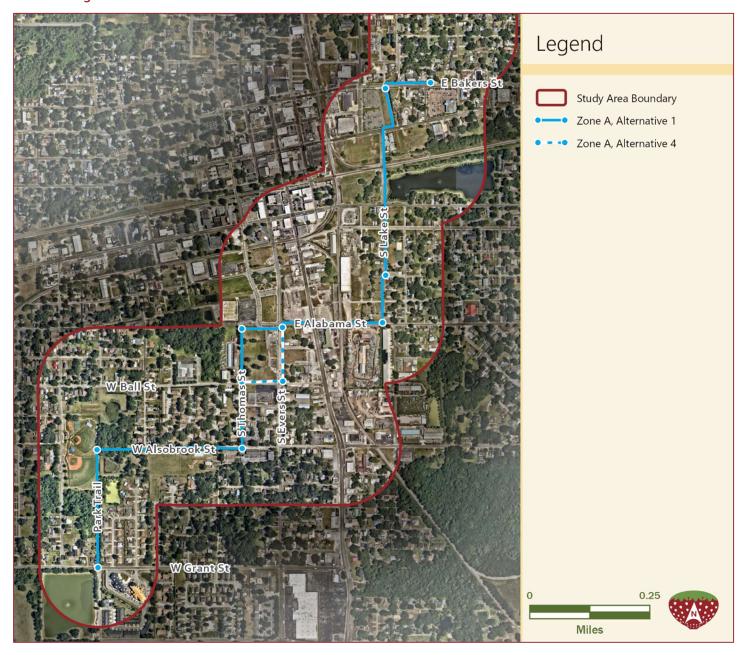




Figure 2.3-2 Zone B Selected Alternatives

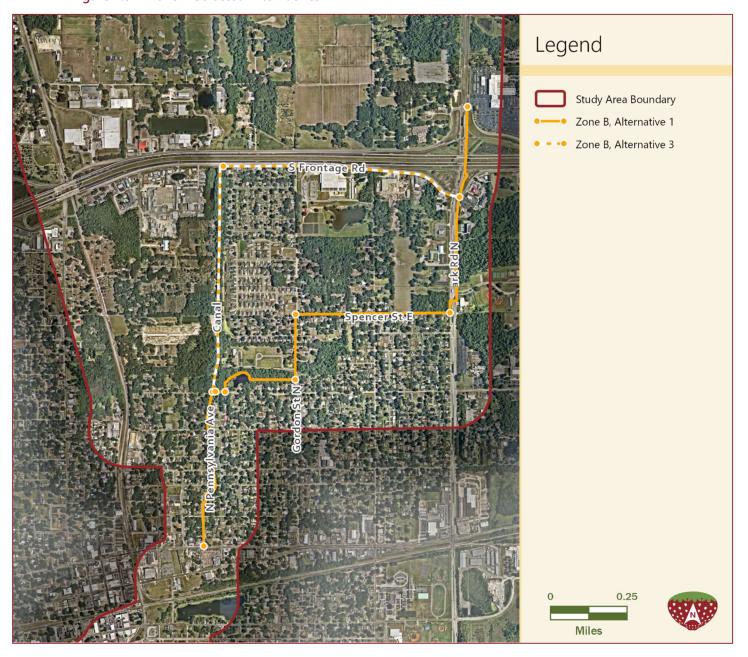




Figure 2.3-3 Zone C Selected Alternatives

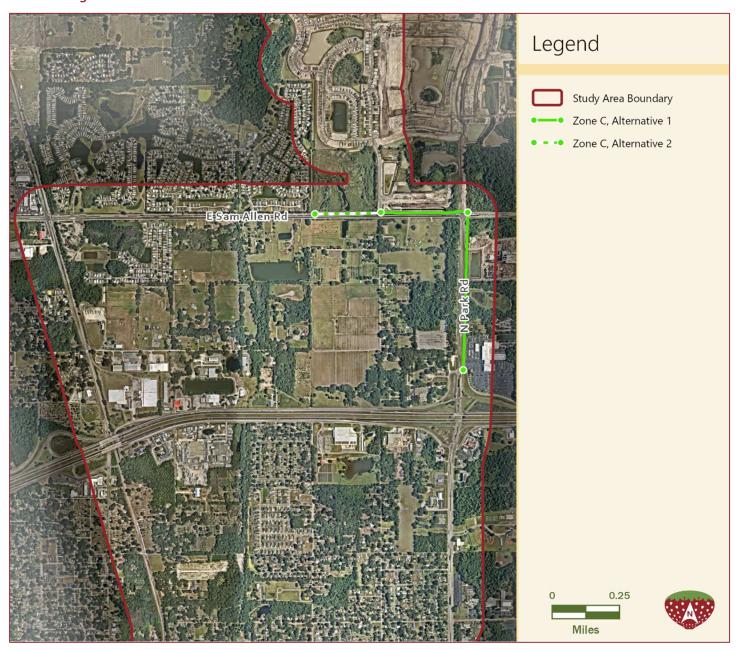
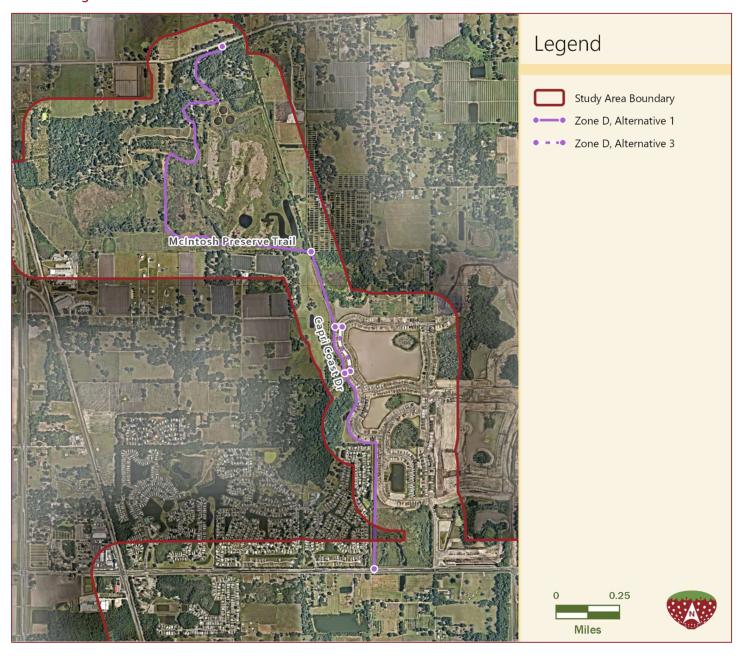




Figure 2.3-4 Zone D Selected Alternatives





Appendix A

Alternatives Benefits Quality Matrix

Appendix Alternatives Strategy Report

		Metrics						Zone A							Zone S						Zone C				Zone	.0	
Gost	eight Chtena	Metrics	Alternative A1	Alternative A2 Only segment with	Alternative A3	Alternative A4	Alternative A5	Alternative A6	Alternative A7	Alternative All	Alternative A9	Alternative A10 Very few driveways,	Alternative A11 (new) few driveways on	Alternative S1 A lot of driveways or	Alternative 62 Alternative A lot of driveways Very few	33 Alternative S4	Alternative BS A lot of driveways	Alternative EG (New) Few driveways, but	Alternative C1	Alternative C2	Alternative C3	Alternative C4		Alternative D1	Alternative D2	Alternative D3	Alternative D4 A lot of
		Driveway crossings	Very few driveways	decent amount of	Driveways on A14	Very few driveways	Very few driveways	Driveways on A14	Very few driveways	Very few driveways	Very few driveways	Some on Ball St	Alsobrook St	Gordon St and Spencer St (B3/B4)	on Cherry St (B7) driveways	Very few drivews	on 813 and 814	several are large-truck drivinay	A few very large driveways	A few very large of driveways	A few very large drivewers	A few very large drivewers	A lot of residental driveways	No driveways		Small section of driveways on D7	residential driveways
		Intersection crossings (signalized v.	9 Stop-controlled, 1	8 Stop-controlled, 2	8 Stop-controlled, 1 Signal	9 Stop-controlled, 1 Signal	9 Stop-controlled, 0	8 Stop-controlled, 1	th Steen construction 1 Signal	8 Stop-controlled, 1 Signal	9 Stop-controlled, 0 Signa	9 Stop-controlled, 1	3 Stop-controlled, 1	12 Stop-controlled, 2		led, 6 Stop-controlled		6 Stop-controlled, 0	1 Stop- controlled, 0	1 Stop-controlled,	1 Signalized	1 Signalized	1 Stop-controlled	Tarra .	Stop-controlled 2	lara.	1 Ston controlled
Safety	Extent to which the alternative limits vehicle/trail	stop-controlled)	Signal	signalized	u aupromiumo, i agrar	a sup-consoner, i signa	Signals	Signal	a sup-comoneo, 1 signar	a sup conscient, 1 signal	J Jup Cambridge Congres	Signal	Signal	Signals	3 Signal 3 Signal	Signal	1 Signal	Signals	Signal	0 Signal	- agranaco	. agranato	2 Stop-controlled		Jup comotes 1	ano a	1 stop-controlled
Safety	3 user conflicts	Midblock crossings	1	1	1	1	1	1		1	1	- 1	1	3	2 2 Mostly low sp	end 2	2	2			0				0 1	Mostly off-	-
		Volumes and speeds of traffic if	All low speed roadways	All low speed roadways	All low speed roadways	All low speed roadways	All low speed roadways	All low speed roadways	All low speed roadways	All low speed roadways	All low speed roadways	All low speed	Mostly off-roadway, low	Mostly low speed except Park Rd and I-	Mostly low speed 4 except Park Rd and I.4 crossings	Mostly low speed except for N	Mostly low speed except for N	High speed along	All high speed	All high speed	All high speed	All high speed	Lower speed	Not against	ow speed insidential road	roadway, when it is on-roadway it is	Low speed
		adjacent to roadway		. , ,.								roadways	speed where adjacent	crossings	I-4 crossings Frontage Rd	Frontage Rd	Frontage Rd	Frontage roads	roadways	roadways	roadways	roadways	roadway	roadway	risidential road	ow speed residential	residential
		Rating	Medium	Medium	Medium	High	Medium	Medium	High	Medium	Medium	Medium	High	Medium	Low Medium Zone B does not Zone B does n	High ot Zone B does not	Medium Zone 8 does not	Low	High	High I	Medium	Medium Zone C does not	Low Zone C does not	High I	ow &	Medium Ione D does not	Low
		Proximity to underserved communities	All in underserved	All in underserved	All in underserved	All in underserved communities	All in underserved	All in underserved	All in underserved	All in underserved	All in underserved	All in underserved	All in underserved	Zone B does not contain underserved	contain contain	contain	contain	Zone B does not contain underserved	contain	contain	Zone C does not contain underserved	contain	contain	contain	ontain	contain	contain
		,	communities	communities	communities		communities	communities	communities	communities	communities	communities	communities	communities	underserved underserved communities communities	underserved communities	underserved communities	communities	underserved communities	underserved communities	communities	underserved communities	underserved communities	underserved communities	nderserved u	underserved communities	underserved communities
												3 government		Does not connect	Vocational Does not con-	ect Does not connect	Does not connect	Does not connect	Does not connect	Does not connect	Does not connect	Does not connect	Does not connect	Does not connect	oes not connect D	Does not connect	
		Proximity to services	3 government building on Michigan Ave	Zero	3 government buildings on Michigan Ave	3 government buildings on Michigan Ave	3 government buildings on Michigan Ave	3 government buildings on Michigan Ave	Zero	3 government buildings on Michigan Ave	3 government buildings o Michigan Ave	buildings on Michigan Ave	Zero	underserved communities to	Rehabilitation underserved program on HCC communities	underserved to communities to	underserved communities to	underserved communities to services	underserved communities to	underserved communities to	underserved communities to	underserved communities to	underserved communities to	underserved communities to	nderserved u	underserved communities to	underserved communities to
			-		-	-	-	-		-	-	Micrigan Ave		services	campus services	services	services	communities to services	services	services s	services	services	services	services s	ervices s	services	services
	Extent to which the alternative connects												Does not connect to	Does not connect underserved	Does not connect Does not con- underserved underserved	ect Does not connect underserved	Does not connect underserved	Does not connect underserved	Does not connect underserved	Does not connect if underserved	Does not connect underserved	Does not connect underserved	Does not connect underserved	Does not connect if underserved	pes not connect Dinderserved	Does not connect underserved	Does not connect underserved
	traditionally underserved populations to services, employment centers, and educational, cultural.	Proximity to employment centers	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtow	midtown as well as othe alternatives	communities to	communities to communities		communities to	communities to	communities to	communities to	communities to	communities to	communities to	communities to	ommunities to c	communities to	communities to
Equity	and recreational opportunities.													-,-,	,,			employment		,,		,,					,,
						,								Does not connect underserved	Does not connect Does not con- underserved underserved	ect Does not connect underserved	Does not connect underserved	Does not connect	Does not connect underserved	Does not connect it underserved	Does not connect underserved	Does not connect underserved	Does not connect underserved	Does not connect to underserved	oes not connect D nderserved u	Does not connect underserved	Does not connect underserved
		Proximity to schools, colleges	1	0	1	1	0	1	°	0	0	0	1	communities to	communities to communities	communities to	communities to	underserved communities to colleges	communities to	communities to	communities to	communities to	communities to	communities to	ommunities to	communities to	communities to
												+		Does not connect	Does not connect Does not cons	ect Does not connect	Does not connect		Does not connect	Does not connect	Does not connect	Does not connect	Does not connect	Does not connect (oes not connect C	Does not connect	Does not connect
		Proximity to community assets (parks.	5 parks, Boys & Girls					5 parks, Boys & Girls				5 parks, Boys & Girls		underserved	underserved underserved	underserved	underserved	Does not connect underserved	underserved	underserved	underserved	underserved	underserved	underserved	nderserved	underserved	underserved
		libraries, etc.)	Club	5 parks, Boys & Girls Clul	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	Club	5 parks, Boys & Girls Club 5	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	Club	5 parks, Boys & Girls Clu	b communities to park/community	communities to communities to park/community park/commun	o communities to ity park/community	communities to park/community	communities to	communities to park/community	communities to park/community	communities to park/community	communities to park/community	communities to park/community	communities to community park/community	ommunities to co ark/community p	communities to park/community	communities to park/community
														centers	centers centers	centers	centers	particularly centers	centers	centers o	centers	centers	centers	centers	enters c	centers	centers
	Extent to which the alternative limits negative impacts to traditionally underserved communities	Parcel impacts in underserved communities	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative No negative impacts impacts	No negative impa	No negative cts impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	No negative impacts	o negative 5	No negative mpacts	No negative impacts
		Rating	High	Low	High	High	Medium	High	Low	Medium	Medium	Medium	Medium	Medium	Medium Medium	Medium	Medium	Medium	Medium	Medium I	Medium	Medium	Medium	Medium I	Sedium A	Medium	Medium
		Impacts to wetlands	No alternatives go	No alternatives go	No alternatives go through	No alternatives go through	No alternatives go	No alternatives go	No alternatives go through	No alternatives go through	No alternatives go throug	h No alternatives go	Crosses through wetland to connect to Alsobrook	Does not go through	Goes through Does not go wetlands alon	Goes through wetlands along	Does not go	Goes through wetlands	Does not go	Does not go	Does not go through	Does not go	Does not go	Goes beside	oes not go	Soes beside frainage	Goes beside drainage
	Extent to which the alternative limits impacts to natural resources	Impacts to wetlands	through wetlands	through wetlands	wetlands	wetlands	through wetlands	through wetlands	wetlands	wetlands	wetlands	through wetlands	to connect to Alsobrook St	wetlands	through wetlands canal north of Cherry St	canal north of Charry St	through wetlands	along canal north of Cherry St	through wetlands	through wetlands	wetlands	through wetlands	through wetlands	drainage ditch/wetlands	nrough wetlands d	dramage ditch/wetlands	dramage ditch/wetlands
Environment		Potential involvement of	Goes through brownfield sites in	Goes through brownfield	Goes through brownfield	Goes through brownfield sites	Goes through brownfield	Goes through brownfield sites in	Goes through brownfield	Goes through brownfield	Goes through brownfield	Goes through brownfield sites in	Goes through brownfield	No contamination	No contamination No contamina	tion No contamination	Near petroleum	Near petroleum DEP	Brownfield site	Brownfield site on I	No contamination	No contamination	No contamination	No	o contamination N	No contamination	No contamination
Environment	2	contamination sites	Midtown	sites in Midtown	sites in Midtown	in Midtown	sites in Midtown	Midtown	sites in Midtown	sites in Midtown	sites in Midtown	Midtown	sites in Midtown	sites	sites sites	sites	DEP site	site	on Park Rd	Park Rd s	sites	sites	sites	sites 1	tes s	ites	sites
	Extent to which the built/natural environment contributes to trail aesthetics	Aesthetic quality of surrounding	Mixed natural and	Mixed, more natural	Mixed, more natural	Mixed	More urban	Mixed	More urban	Mixed	Mixed	Mixed, more natural	Very Natural	Fronts 553 for small	Fronts 553 for Fronts 14 sout large part side, along ca		de, Frants 14 north side	Very Low Quality	Fronts 553 for	Fronts 553 for	Frants 39A for most	Fronts 39A for most	More natural frontage than	All similar in Zone	Il similar in Zone A	All similar in Zone	All similar in Zone
	contributes to trail aesthetics	environs Ratino	urban Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	High	High	Medium Medium	Medium	Medium	Low	Medium	Medium I	High	High	other Calts High	Medium I	igh A	Medium	Medium
	Extent to which the alternative limits impacts to gultural resources	Parcel impacts to social/cultural sites	No impacts to cultural	No impacts to cultural	No impacts to cultural sites	No impacts to cultural sites	No impacts to cultural	No impacts to cultural	No impacts to cultural sites	No impacts to cultural sites	No impacts to cultural site	No impacts to cultural sites	No impacts to cultural sites	No impacts to culture	No impacts to No impacts to cultural sites cultural sites	No impacts to cultural sites	Would cut into	No impacts to cultural	No impacts to cultural sites	No impacts to 1 cultural sites	No impacts to cultural sites	No impacts to cultural sites	No impacts to cultural sites			No impacts to cultural sites	No impacts to cultural sites
Social/Cultural	2 Extent to which the alternative enhances	(40)	sines	sters.			sizes.	soes.						MCC considered	HCC considers	d	cemetary	sites.	No cultural sites	No cultural sites	No cultural sites in	No cultural sites in	No cultural sites	No cultural sites		No cultural sites	No cultural sites
	connectivity to cultural resources	Proximity to social/cultural sites	No sites in area	No sites in area	No sites in area	No sites in area	No sites in area	No sites in area	No sites in area	No sites in area	No sites in area	No sites in area	No sites in area	cultural site in area	cultural site in area area	cultural site in an	None	None	in area	in area	area	area	in area			n area	in area
		Rating	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium Medium Some	Medium	Low	High	Medium	Medium I	Medium	Medium	Medium	Medium I	fedium A	Medium	Medium
	Extent to which the alternative supports economic	Proximity to targeted redevelopment	Goes through	Goes through	Goes through	Goes through redeveloping	Goes through	Goes through	Goes through redeveloping	Goes through redeveloping	Constitution and conferent agricultural	_ Goes through	Does not connect to	No alternative goes through	No alternative goes underdevelop through area along we		No alternative goes	No alternative goes	Area along Park Rd could become	Area along Park	Limited opportunity	Limited opportunity	Limited opportunity for	Area immediately a	rea immediately A	Area immediately adiacent to trail	Area immediately adjacent to trail
Economic Development	2 development	or growth areas	redeveloping Midtown	redeveloping Midtown	redeveloping Midtown	Midtown district	redeveloping Midtown	redeveloping Midtown	Midtown district	Midtown district	Midtown district	redeveloping Midtown district	midtown as well as other alternatives	underdeveloped	underdeveloped side of canal,	underdeveloped	underdeveloped	through underdeveloped	further	Rd could become if		for redevelopment due to railroad	redevelopment,	already	lready a	already	already
														community	community would need crossing	community	community	,	developed				residential	developed	eveloped d	developed	developed
+		Rating	High	High	High	High	High	High	High	High	High	High	Medium	Low	Low Medium	Low	Low	Low	Medium		Low	Low	Low	tow 1	ow t	Low	Low
1 1	Extent to which the alternative connects existing	Connections to existing or planned	Uses existing connection between	Uses existing connection between Brewer and	Uses existing connection	Uses existing connection	Uses existing connection	Uses existing connection between	Uses existing connection between Brewer and	Uses existing connection	Uses existing connection	Uses existing connection between	Uses existing connection between Brewer and	Goes through Gilcrist	Goes through	Goes through	Goes through	Goes through Gilcrist	Does not use existing facility	Does not use existing facility	Does not use existing facility	Does not use existing facility	Does not use	Does not use	pes not use	Does not use	Does not use
	and planned pedestrian/bike networks	facilities	Brewer and Snowden	Snowden park, Sidewalk	between Brewer and Snowden park	between Brewer and Snowden	between Brewer and Snowden park	Brewer and Snowden	Snowden park, Sidewalk in	between Brewer and Snowden park	between Brewer and Snowden park		Snowden park, Sidewalk		Gilcrist and Cherry Gilcrist Park	Gilcrist and Cherr St park	Gilcrist Park	Park	besides sidewalks on Park Rd and	besides sidewalks on Park Rd and	besides sidewalk on	besides sidewalk on				existing facility	existing facility
			park	in Cooper Park				park	Cooper Park			park	in Cooper Park						Sam Allen Rd	Sam Allen Rd	Sam Allen Rd	Sam Allen Rd					
Connectivity	2		Connects to Midtown		Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtow	Not as well connected a	s	2 Employment 1 Employmen	1 Employment	1 Employment		None, However new advent	None, However new advent	1 Employment	1 Employment					L
	Extent to which the alternative connects services,	Proximity to employment centers	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtown	Connects to Midtow	other alternatives	2 Employment cente	centers Center	Center	Center	1 Employment Center	health site being	health site being	Center	Center	Zero	Zero	ero Z	Dero	Zero
	employment centers, and educational, cultural, and recreational opportunities.	Praximity to schools, colleges	1	0	1	1	0	1	0	0	0	0	1	1	2 1 4 parks HCC	1	1	0	0	0	0	0	0	0	0	0	0
		Proximity to community assets (parks, libraries atr.)	5 parks, Boys & Girls	5 parks, Boys & Girls Clul	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	5 parks, Boys & Girls Club	5 parks, Boys & Girls	5 parks, Boys & Girls Clu	b 4 Parks	4 parks, HCC garden/event 3 Parks	3 Parks	3 Parks	3 Parks	Advent Health	Advent Health	No parks	No parks	No parks	No parks	o parks N	No parks	No parks
		Rating	High	High	High	High	Medium	High	High	Medium	Medium	Medium	Low	Medium	space High Low	Medium	Low	Medium	Medium	Medium I	Low	Low	Low	Low	ow L	low	Low
	Ease of implementation and partnerships	Required permits coordination with	SWPWMD (Canal)	CSX (New crossing)	SWFWMD (Canal)	SWPWMD (Canal)	SWFWMD (Canal)	SWFWMD (Canal)	CSX (New crossing)	SWFWMD (Canal)	SWFWMD (Canal)	SWFWMD (Canal)	CSX (1 existing and 1 new crossing), SWFWM	D SWFWMD (Canal)	SWFWMD (Canal) SWFWMD (Ca	nal) SWFWMD (Canal	SWFWMD (Canal)	SWFWMD (Canal), FDO	None	None (CSX	CSX	None	Neighborhood 1	eighborhood N	Neighborhood	Neighborhood
		other agencies					,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,		(Canal)	,		FDOT		(HOA I	OA H	HOA	HQA
			Utility pales on	Ball St. Utility poles on	Utility pales on Alsobroak		Drainage structures on	Utility poles on	Drainage structures on Ball St. Utility poles on Ball			Utility poles on Ball	1	Utility poles on	Utility poles on all Pennshyvania St	Lightnoles (Utility	1	1	1		None on Paul	None on Paul			nknown what		
	Extent to which the alternative limits impacts to	Presence of physical obstructions	Alsobrook St, Thomas St, Evers St, and Lake St	Ball St, Evers St, and Lake t St (though its park	St, Thomas St, Evers St, and	Utility poles on Alsobrook St, Thomas St, Evers St, and Lake S	Ball St. Utility poles on St. Ball St. Evers St. Lake St	Alsobrook St, Thomas St. Evers St. and Lake St	St, Evers St, Lake St	Utility poles on Ball St, Evers St, Lake St (though	Utility poles on Ball St, Evers St, Lake St (though i	St, Evers St, and Lak	Limited obstructions (gaurdrails and few	crossing on gordon s	t. and cherry St. Utility poles o	n S poles on N Fronts	ge Drainage ditch on	Drainage structure at	None on Park Rd, unsure about	None on Park Rd, It unsure about Sam a	Buchman, unsure about Sam Allen	Buchman, unsure about Sam Allen	None	Drainage Area outside	bstructions will	Drainage Area	Drainage Area outside
Buildability	drainage, utilities, and other physical obstructions		(though its park	property). Crosses	Lake St (though its park property).	(though its park property).	(though its park property).	(though its park	(though its park property). Crosses railroad tracks not	its park property).	park property).	St (though its park property).	utility poles) along cana	Utility poles on spencer east of	Drainage ditch on frontage Rd cherry st east of	Rd. Crossing over 4.	I- Icherry st,	Tomlin and Knight St	Sam Allen	Allen	since its not	since its not		neighborhood	e in eighborhood	neighborhood	neighborhood
			property).	railroad tracks not at existing road.	T		property).	property).	at existing road.					maryland.	maryland					ľ	completed	completed					
	Extent to which the alternative impacts private	Clips and total takings of parcels excluding government parcels	19 parcels/ 1.25 ac	23 parcels/0.81 ac	23 parcels/1.48 ac	20 parcels/1.22 ac	26 parcels/0.95 ac	23 parcels/1.48 ac	22 parcels/0.85 ac	27 parcels/0.91 ac	26 parcels/0.95 ac	27 parcels/0.89 ac	25 parcels, .5 acres	40 parcels/0.63 ac	39 parcels/0.64 ac 29 parcels/2.5	6 ac 24 parcels/2.53 a	34 parcel/1.08 ac	25 parcels, 2.58 ac						68 parcels/0.60	6 parcels/1.67 ac 6	59 parcels/0.89 ac	
	property	Impacts to structures, fences,																									
		unoscaping Rating	Medium	Low	Medium	Medium	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Medium High	Low	High	Low	High	High I	Low	Low	High	High I	ow A	Medium	Medium
Cost	3 Probable cost to implement alternative	Construction and ROW cost estimate														Largest factor crossing over 14		Largest factor crossing over I4									
		Rating	Medium	Low	Medium	Medium	Medium	Medium	low	Medium	Medium	Medium	Mediun	Medium	Medium High	Low	High	Low	High	High I	Low	Low	High	High I	ow A	Medium	Medium



Appendix B

Alternatives Comparative Ranking Matrix

Appendix Alternatives Strategy Report

					Zone A Zone B														Zone C			Zone D							
Goal	Weight	Criteria	Metrics	Alternative	Alternative		Alternative		Alternative			Alternative	Alternative																
				A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	81	B2	83	B4	85	B6	C1	C2	C3	C4	CS	D1	D2	D3	D4
			Driveway crossings	4								Medium																	
efety	2		Intersection crossings (signalized v. stop-controlled)	Medium	Medium	Medium	High	Medium	Medium	High	Medium		Medium	High	Medium	Low	Medium	High	Medium	Low	High	High	Medium	Medium	Low	High	Low	Medium	Low
	_		Midblock crossings																mediam	LOW							LOW	mediani	
			Volumes and speeds of traffic if adjacent to roadway																										
			Proximity to underserved communities																										i .
		Extent to which the alternative connects traditionally underserved populations to	Proximity to services]																									i .
		services, employment centers, and educational, cultural, and recreational	Proximity to employment centers							Low	Medium	Medium N	Medium	Medium	Medium	m Medium	Medium	Medium	Medium	Medium		Medium						Medium	
quity	3	opportunities.	Proximity to schools, colleges	High	Low	High	High	Medium	High												Medium		Medium	Medium	Medium	Medium	Medium		Medium
			Proximity to community assets (parks, libraries, etc.)	1																									
		Extent to which the alternative limits negative impacts to traditionally underserved communities	Parcel impacts in underserved communities																										1
			Impacts to wetlands	Medium	Medium													Medium									1		
nvironment	2	Extent to which the alternative limits impacts to natural resources	Potential involvement of contamination sites			Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	High	High	Medium	Medium		Medium	Low	Medium	Medium	High	High	High	Medium	High	Medium	Medium
		Extent to which the built/natural environment contributes to trail aesthetics	Aesthetic quality of surrounding environs	1								1		-	-								-	_	-		-		
ocial/Cultural		Extent to which the alternative limits impacts to cultural resources	Parcel impacts to social/cultural sites (4f)	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Low	High	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
ociai/Cuiturai	2	Extent to which the alternative enhances connectivity to cultural resources	Proximity to social/cultural sites		Medium	Medium	Medium	Medium	Medidili	Medium	Medium	Medium	Medium	Medidili	wediam	medium	Wiedidill	Medium	LOW	High	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
onomic Development	2	Extent to which the alternative supports economic development	Proximity to targeted redevelopment or growth areas	High	High	High	High	High	High	High	High	High	High	Medium	Low	Low	Medium	Low	Low	Low	Medium	Medium	Low	Low	Low	Low	Low	Low	Low
		Extent to which the alternative connects existing and planned pedestrian/bike networks	Connections to existing or planned facilities	-					riigii				Medium	Low					Low	Medium	Medium	Medium	Low						
onnectivity	2	Extent to which the alternative connects services, employment centers, and	Proximity to employment centers	High	High	High	High	Medium	High	High	Medium	Medium			Medium	um High	Low	Medium						Low	Low	Low	Low	Low	Low
			Proximity to schools, colleges	1 1	-	_			/ 1	-																			
		educational, cultural, and recreational opportunities.	Proximity to community assets (parks, libraries, etc.)	1																									i .
		Ease of implementation and partnerships	Required permits coordination with other agencies																										
		Extent to which the alternative limits impacts to drainage, utilities, and other physical obstructions	Presence of physical obstructions	1								1 '				Medium													Medium
uldability	3		Clips and total takings of residential properties	Medium	Low	Medium	Medium	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Medium	High	Low	High	Low	High	High	Low	Low	High	High	Low	Medium	Medium
	1	Extent to which the alternative impacts private property	Clips and total takings of commercial properties	1	I	1		1									1	l		l	1	l	l	l					
	1		Impacts to structures, fences, landscaping	1	I	1	- 1	1 '	1						1			1	1			l	l	l			1		
ost	3	Probable cost to implement alternative	Construction and ROW cost estimate	Medium	Low	Medium	Medium	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Medium	High	Low	High	Low	High	High	Low	Low	Hlgh	High	Low	Medium	Medium
otal Score				50	39	48	50	45	48	41	45	45	45	40	38	32	36	32	32	28	40	40	30	30	34	36	28	34	32